DEPARTMENT OF HEALTH & HUMAN SERVICES Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop S2-26-12 Baltimore, MD 21244-1850



November 28, 2025

Lee Grossman Medicaid Director Iowa Medicaid Enterprise Iowa Department of Human Services 1305 E Walnut Street Des Moines, Iowa 50319

Dear Director Grossman:

The Centers for Medicare & Medicaid Services (CMS) has approved a temporary extension and amendment of Iowa's section 1115 demonstration, entitled "Iowa Wellness Plan" (IWP) (Project Number 11-W-00289/7). This demonstration will now expire on December 31, 2026.

CMS acknowledges that chapter 1 of subtitle B of title VII of Public Law 119-21, which CMS refers to as the Working Families Tax Cut (WFTC) legislation, makes additional changes to the Medicaid and CHIP programs. To the extent that any of those changes will affect the authorities within this demonstration, CMS will partner with Iowa to ensure compliance with and successful implementation of changes described in the WFTC legislation during this temporary extension period.

Extent and Scope of Temporary Extension

Approval of this temporary extension will provide authority for the IWP demonstration through December 31, 2026. CMS will amend the non-emergency medical transportation (NEMT) waiver to specify that it will sunset on December 31, 2026. This waiver will not be included in any further extension of the demonstration.

CMS's temporary extension and amendment of this demonstration is conditioned upon the state's continued compliance with the special terms and conditions (STCs) defining the nature, character, and extent of anticipated federal involvement in the project. The current STCs and waiver authorities (as updated in this demonstration action) will continue to apply during the temporary extension period of this demonstration until December 31, 2026, or until the demonstration is extended, whichever is sooner. The waiver of NEMT will sunset on December 31, 2026, and will not be extended beyond that date, even if other parts of the demonstration are extended.

Objectives of the Medicaid Program

Under section 1115 of the Social Security Act (the Act), the Secretary of Health and Human Services may approve any experimental, pilot, or demonstration project that, in the judgment of the Secretary, is likely to assist in promoting the objectives of certain Act programs, including Medicaid. For the reasons discussed below and in prior approval letters for this demonstration, the Secretary has determined that this temporary extension of the IWP demonstration is likely to assist in promoting the objectives of the Medicaid program.

Additionally, CMS is updating the authority for the waiver of NEMT to specify that it will sunset on December 31, 2026, as we have determined that extending this waiver beyond that date would not be likely to assist in promoting the objectives of the Medicaid program. CMS recognizes the significance of covering NEMT, as reflected in the broader research on NEMT that shows that providing NEMT can increase access to care and improve health outcomes. For example, coverage of NEMT has led to positive outcomes for individuals' health, including improved medication adherence and diabetes control. In addition, evaluations of section 1115 demonstrations, including the IWP, suggest that waiving NEMT can negatively impact access to care for state plan beneficiaries impacted by these waivers. From the 2016 IWP beneficiary survey data, 23 percent of survey respondents who had an unmet need for routine care said it was because they were unable to access transportation, and beneficiaries with unmet transportation needs had significantly lower odds of accessing a well-care visit and greater odds of an emergency department visit.² Relatedly, 2018 findings from the Arkansas Health Care Independence Program indicate that providing NEMT to demonstration beneficiaries resulted in a lower percentage of these beneficiaries missing a visit to their personal doctor due to a lack of transportation, when compared to Medicaid beneficiaries who did not have access to NEMT.³

Moreover, as of 2020, NEMT is specifically required by statute under an amendment to section 1902(a)(4) of the Act made by the Consolidated Appropriations Act, 2021 (CAA, 2021).⁴ This statutory amendment reflects Congress's recent view of the importance of this coverage. On September 28, 2023, the Center for Medicaid and CHIP Services (CMCS) released a State Medicaid Director Letter (SMDL) to serve as a consolidated and comprehensive compilation of

¹ Shakelle, P., Begashaw, M. Miake-Lye, I., Booth, M., Myers, B., & Renda, A. (2021). Effect of Interventions for Non-Medical Emergency Transportation: A Systematic Review. PREPRINT (Version 1) available at https://doi.org/10.21203/rs.3.rs-1002067/v1. NOTE: This document contains links to non-United States Government websites. We are providing these links because they contain additional information relevant to the topic(s) discussed in this document or that otherwise may be useful to the reader. We cannot attest to the accuracy of information provided on the cited third-party websites or any other linked third-party site. We are providing these links for reference only; linking to a non-United States Government website does not constitute an endorsement by CMS, HHS, or any of their employees of the sponsors or the information and/or any products presented on the website. Also, please be aware that the privacy protections generally provided by United States Government websites do not apply to third-party sites.

² Bentler, S. Momany, E., McInroy, B., Damiano, P. & Heeren, T. (2016). Non-Emergency Medical Transportation and the Iowa Health and Wellness Plan. University of Iowa Public Policy Center. Available at: https://iro.uiowa.edu/esploro/outputs/report/Non-Emergency-Medical-Transportation-and-the-Iowa/9983557298302771.

³ Arkansas Center for Health Improvement. Arkansas Health Care Independence Program ('Private Option') Section 1115 Demonstration Waiver Final Report. June 30, 2018. Available at https://www.medicaid.gov/Medicaid-CHIP-Program-Information/By-Topics/Waivers/1115/downloads/ar/Health-Care-Independence-Program-Private-Option/ar-works-private-option-summative-eval-20180630.pdf.

⁴ The Consolidated Appropriations Act, 2021 (CAA, 2021) (Public Law No 116-260).

guidance on both current and new Medicaid transportation policy.⁵ Recognizing the importance of transportation in meeting the health care needs of state plan eligible populations, as well as the available research that shows NEMT has a positive impact on beneficiaries' health, CMS is sunsetting Iowa's waiver of NEMT on December 31, 2026. While we considered sunsetting the waiver of NEMT effective with the approval of this temporary extension, sunsetting it on December 31, 2026 will give the state sufficient time to operationalize NEMT coverage.

CMS has required the state to evaluate the impact of the NEMT waiver authority on access to covered services since it was first approved in the demonstration. During this temporary extension period, the state will continue to monitor and evaluate, per the STCs, the effects of the waiver of NEMT on beneficiary access to services through the duration of time the waiver is in effect. As part of demonstration monitoring and evaluation, the state is required to provide information on beneficiary understanding regarding the NEMT waiver and their experiences with transportation in accessing covered services, particularly services that beneficiaries must obtain to avoid premiums. Evaluation must also test hypotheses to assess effects of the NEMT waiver on access to covered services, including those that beneficiaries must obtain to avoid premiums. The state must also document progress and challenges with sunsetting the NEMT waiver as part of the demonstration monitoring activities, and its evaluation must provide an assessment of the state's experience with operationalizing the sunsetting of the NEMT waiver, and potential lessons learned therefrom.

Additionally, per the STCs, CMS has the authority to require the state to submit a corrective action plan if monitoring or evaluation data indicate substantial, sustained directional change inconsistent with state targets (such as substantial, sustained trends indicating increases in disenrollment, difficulty accessing services, or unpaid medical bills) and CMS could invoke this authority to require suspension of implementation of the NEMT waiver before December 31, 2026, if new evidence comes to light showing that the NEMT waiver in the IWP demonstration is substantially more harmful to beneficiaries than the existing data suggest. The STCs provide CMS with the authority to suspend implementation of the demonstration should corrective actions not effectively resolve these concerns in a timely manner.

Budget Neutrality

This demonstration only includes waiver authorities under section 1115(a)(1) of the Act. Therefore, the demonstration was previously deemed budget neutral. Nothing in this action impacts that determination. This demonstration project is temporarily extended using CMS's current approach to determining budget neutrality as described in CMS SMDL #24-003.⁶ However, CMS acknowledges that section 71118 of WFTC legislation adds a new subsection (g) to section 1115 of the Act with budget neutrality requirements that will apply beginning January 1, 2027 to CMS approvals of section 1115 Medicaid demonstration project applications, renewals, or amendments.⁷ CMS intends to provide additional information prior to January 1, 2027 about the section 1115(g) requirements.

⁵ Assurance of Transportation: A Medicaid Transportation Coverage Guide. (2023). CMCS SMD #23-006.

⁶ https://www.medicaid.gov/federal-policy-guidance/downloads/smd24003.pdf

⁷ https://www.congress.gov/bill/119th-congress/house-bill/1/text

Monitoring and Evaluation

During this temporary extension period, the state must continue to monitor and evaluate its demonstration as stipulated in the STCs. Given the waiver of NEMT will be sunset on December 31, 2026, the STCs have been updated to require the state to monitor and evaluate progress towards and challenges associated with sunsetting the waiver of NEMT, and potential lessons learned therefrom.

The state may include the temporary extension period within its Summative Evaluation Report for the current demonstration period, due 18 months after the end of the temporary extension period. Alternatively, if CMS approves a full demonstration extension, the state may include the temporary extension period in the evaluation activities for the next full demonstration approval period.

Consideration of Public Comments

The federal comment period for the state's application opened on July 12, 2024, and closed on August 11, 2024. CMS received nine comments, eight of which were related to the demonstration extension. One commenter indicated that the IWP extension application was incomplete because federal regulations require an extension application to include an evaluation report, and the state only included key findings. CMS had originally concluded that the extension application was complete because the state submitted a draft Interim Evaluation Report with the application; however, it was inadvertently not posted to Medicaid.gov. To correct this error, CMS reposted the extension application to Medicaid.gov for an additional thirty-day public comment period which ran from May 22, 2025 through June 21, 2025.

During the additional public comment period, CMS received nine comments, five unique, one unrelated to the demonstration and three duplicate comments from the previous comment period. During the two comment periods, CMS received a total of fifteen unique comments. Twelve of the unique commenters expressed opposition to the waiver of NEMT. None of the commenters were in support of the waiver of NEMT. CMS is addressing comments related to the waiver of NEMT by sunsetting this waiver effective December 31, 2026. CMS will address comments related to other demonstration policies as part of any future approval of the five-year extension of the demonstration.

With regard to the waiver of NEMT, commenters indicated that, without transportation benefits, chronically ill Medicaid beneficiaries may go without the lifesaving health services they need, leading to delayed care, reduced adherence to medication, increases in avoidable hospitalizations, and poorer health outcomes, especially for those who live in rural areas that may not have access to public transit or medical providers close by. Commenters also expressed concern that people who lack transportation are less able to access preventive benefits, and the demonstration design pushes the people who are most in need of transportation services out of the program by imposing premiums on beneficiaries who do not complete the healthy behavior incentives (HBI) requirements, and if beneficiaries above 100 percent federal poverty level (FPL) are unable to pay the premium, disenrolling them from the program.

CMS has taken the comments provided about the waiver of NEMT into consideration for this temporary extension. The waiver of NEMT will sunset on December 31, 2026, in order to allow the state time to make any necessary changes to its contracts and systems for implementation of this coverage. After that time, Iowa will be required to provide transportation services for state plan populations.

Other Information

The award is subject to CMS receiving written acceptance of this award within 30 days of the date of this approval letter. Your CMS project officer, Wanda Boone-Massey is available to answer any questions concerning this demonstration extension, her contact information is as follows:

Centers for Medicare & Medicaid Services Center for Medicaid and CHIP Services Mail Stop: S2-25-26 7500 Security Boulevard Baltimore, MD 21244-1850 Wanda.Boone-Massey@cms.hhs.gov.

If you have questions regarding this approval, please contact Karen LLanos, Acting Director, State Demonstrations Group, Center for Medicaid and CHIP Services, at Karen.Llanos@cms.hhs.gov.

Sincerely,

Deputy Administrator, CMS
Director, Center for Medicaid and CHIP Services

cc: Lee Herko, State Monitoring Lead, Medicaid and CHIP Operations Group

CENTERS FOR MEDICARE & MEDICAID SERVICES WAIVER AUTHORITY

NUMBER: 11-W-00289/7

TITLE: Iowa Wellness Plan Section 1115 Demonstration

AWARDEE: Iowa Department of Human Services

All requirements of the Medicaid program expressed in law, regulation and policy statement, not expressly waived or identified as not applicable in accompanying expenditure authorities, shall apply to the demonstration project effective through December 31, 2026.

In addition, these waivers may only be implemented consistent with the approved special terms and conditions (STCs).

Under the authority of section 1115(a of the Social Security Act (the Act), the following waivers of state plan requirements contained in section 1902 of the Act are granted subject to the STCs for the Iowa Wellness Plan section 1115 demonstration.

1. Premiums

Section 1902(a)(14) insofar as it incorporates Section 1916

To the extent necessary to enable the state to charge premiums beyond applicable Medicaid limits to the Iowa Wellness Plan demonstration populations above 50 percent of the federal poverty level and to enable the state to charge premiums for all Dental Wellness Plan enrollees above 50 percent of the federal poverty level. Combined premiums and cost-sharing is subject to a quarterly aggregate cap of 5 percent of family income.

2. Methods of Administration

Section 1902(a)(4)(A) as implemented in 42 CFR 431.53

To the extent necessary to relieve the state of the responsibility to assure transportation to and from providers for adult expansion group beneficiaries. Medically frail beneficiaries and those eligible for early and periodic screening, diagnostic and treatment (EPSDT) services are exempt from this waiver of non-emergency medical transportation (NEMT). This waiver will sunset on December 31, 2026.

3. Comparability

Section 1902(a)(17)

To the extent necessary to permit the state to provide reduced cost sharing for the newly

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eligible population through an \$8 copay for non-emergency use of the emergency department.

This copay will not apply to other Medicaid populations; copays applied to other Medicaid populations will not be imposed on this population.

4. Proper and Efficient Administration

Section 1902(a)(17)

To the extent necessary to permit the state to contract with a single dental benefit plan administrator to provide dental services to beneficiaries affected by the Iowa Wellness Plan section 1115 demonstration.

5. Freedom of Choice

Section 1902(a)(23)(A)

To the extent necessary to permit the state to require enrollees to receive dental services through a carved-out contracted dental benefit with no access to other providers.

6. Amount, Duration and Scope of Services

Section 1902(a)(10)(B)

To the extent necessary to enable the state to provide benefit packages to demonstration populations that differ from the state plan benefit package. To the extent necessary to enable the state to provide different dental benefits to Dental Wellness Plan enrollees subject to the requirements in the STCs.

7. Retroactive Eligibility

Section 1902(a)(10) and (a)(34)

To the extent necessary to enable the state not to provide three months of retroactive eligibility for state plan populations. The waiver of retroactive eligibility does not apply to pregnant women (and during the 60-day period beginning on the last day of the pregnancy), infants under age 1, and (effective January 1, 2020) children under 19 years of age. The earliest that a retroactive eligibility period for children under age 19 will begin will be January 1, 2020, for an application filed on or after January 1, 2020.

The waiver of retroactive eligibility also does not apply to applicants who are eligible for nursing facility services based on level of care, who had been a resident of a nursing facility in any of the three months prior to an application, and who are otherwise eligible for Medicaid. For persons who are exempted from the waiver due to eligibility for nursing facility services, retroactive eligibility would be provided for any particular months in which the applicant was a nursing facility resident.

CENTERS FOR MEDICARE & MEDICAID SERVICES SPECIAL TERMS AND CONDITIONS

NUMBER: 11-W-00289/7

TITLE: Iowa Wellness Plan

AWARDEE: Iowa Department of Human Services

I. PREFACE

The following are the Special Terms and Conditions (STCs) for the Iowa Wellness Plan section 1115(f) Medicaid demonstration (hereinafter "demonstration") to enable Iowa to operate this demonstration. Pursuant to authority in section 1115 of the Act, the Centers for Medicare & Medicaid Services (CMS) has granted waivers of certain requirements under section 1902(a) of the Social Security Act (the Act). These STCs set forth in detail the nature, character and extent of federal involvement in the demonstration and the state's obligations to CMS during the life of the demonstration. Enrollment activities for the new adult group began on October 1, 2013 for the Iowa Wellness Plan with eligibility effective January 1, 2014. The demonstration is statewide and is approved through December 31, 2026

The STCs have been arranged into the following subject areas:

- I. Preface
- II. Program Description and Objectives
- III. General Program Requirements
- IV. Populations Affected
- V. Dental Delivery System
- VI. Benefits
- VII. Healthy Behaviors, Premiums, and Cost Sharing
- VIII. Appeals
- IX. Monitoring and Reporting Requirements
- X. Monitoring Calls and Discussions
- XI. Evaluation of the Demonstration

Additional attachments have been included to provide supplementary information and for specific STCs.

Attachment A – Healthy Behaviors Protocol [Reserved]

Attachment B – Evaluation Design

II. PROGRAM DESCRIPTION AND OBJECTIVES

The Iowa Wellness Plan (IWP) demonstration was first implemented on January 1, 2014, at the same time that Iowa's expansion of Medicaid to the new adult group took effect. The Iowa Wellness Plan (IWP) demonstration initially sought to promote responsible health care decisions among the ACA expansion population by coupling a monthly required financial contribution with an incentive to earn an exemption from the monthly contribution requirement by actively seeking preventive health services.

As initially approved, the demonstration also provided authority for a waiver of nonemergency medical transportation (NEMT) for the ACA expansion population. The NEMT waiver was scheduled to sunset on December 31, 2014, with the possibility of extending based on an evaluation of its impact on access to care. After reviewing initial data on the impact of the waiver on access, CMS approved an extension of the NEMT waiver through July 31, 2015. Thereafter, CMS and the state established criteria necessary for the state to continue the NEMT waiver beyond July 31, 2015. Specifically, the state agreed to compare survey responses of the persons affected by the waiver to survey responses of persons receiving "traditional" Medicaid benefits through the state plan. Iowa conducted the analysis and found that the survey responses of the two populations did not have statistically significant differences. In light of those results, CMS approved a second amendment through June 30, 2016. Based on the state's ongoing analysis and evaluation of the impact of the NEMT waiver on access to covered services, the waiver of NEMT was extended again, and is still part of the demonstration. According to interim analysis from the Iowa Health and Wellness Plan Evaluation Interim Summative Report, dated April 2019 and submitted with the state's 2019 demonstration extension application, the reported unmet need for transportation was not statistically different for Medicaid members (12 percent) and IWP members (11 percent). There was no statistically significant difference between Medicaid and IWP in reported worry about the cost of transportation with around 8 percent of each reporting that they worried "a great deal" about their ability to pay for the cost of transportation to or from a health care visit. However, according to additional analyses of IWP and Medicaid member survey data on transportation and access to health care from the Non-Emergency Medical Transportation and the Iowa Health and Wellness Plan report, dated March 2016, 23 percent of survey respondents who had an unmet need for routine care said it was because they were unable to access transportation, and beneficiaries with unmet transportation needs had significantly lower odds of accessing a well-care visit and greater odds of an emergency department visit.

On May 1, 2014, CMS approved the state's request to amend the IWP demonstration to include a Dental Wellness Plan (DWP) component, which at that time provided tiered dental benefits, based on beneficiary completion of periodic exams, to the ACA expansion population. All dental benefits covered under the DWP were optional, not mandatory.

Currently, the demonstration includes an incentive program intended to improve the use of preventive services and encourage health among the ACA expansion population. Under this program, beginning in year two of a beneficiary's enrollment, the state requires monthly premiums for beneficiaries in the ACA expansion population with household incomes above

50 percent up to and including 133 percent of the federal poverty level (FPL). However, beneficiaries with a premium requirement who complete a wellness exam and health risk assessment (HRA) will have their premium waived for the following benefit year. The premium amounts may not exceed \$5 per month for non-exempt beneficiaries with household incomes above 50 percent up to and including 100 percent of the FPL, and \$10 per month for non-exempt beneficiaries with household incomes over 100 percent up to and including 133 percent of the FPL. Exempt beneficiaries include those who completed the wellness exam and HRA, beneficiaries who are medically frail, members of the Health Insurance Premium Payment (HIPP) population, and beneficiaries who self-attest to a financial hardship. IWP premiums are permitted in lieu of other cost sharing except for an \$8 copay for nonemergency use of the emergency department. Beneficiaries subject to premiums are allowed a 90-day grace period to make payment. The nonpayment of these premiums will result in a collectible debt. Individuals with household income over 100 percent of the FPL will be disenrolled for nonpayment. Enrollees with household income at or under 100 percent of the FPL cannot be disenrolled for nonpayment of a premium, nor can an individual be denied an opportunity to re-enroll due to nonpayment of a premium. Persons who are disenrolled for nonpayment can reapply at any time; however, their outstanding premium payments will remain subject to recovery. Monthly premiums are subject to a quarterly aggregate cap of 5 percent of household income.

On February 23, 2016, CMS approved the State's request to implement a managed care delivery system for the medical and dental services affected by the IWP demonstration, concurrent with the §1915(b) High Quality Healthcare Initiative Waiver, effective April 1, 2016.

On November 23, 2016, CMS extended the demonstration for three years under section 1115(e) of the Act, through December 31, 2019. This initial extension was approved with no program modifications. Subsequently, the state submitted two amendment requests during the renewal period. The first amendment, approved by CMS on July 27, 2017, modified the Dental Wellness Plan (DWP) component of the demonstration based on analysis of independent evaluation findings and stakeholder feedback. Through this amendment, the state implemented an integrated dental program for all Medicaid enrollees aged 19 and over, including the new adult group (ACA expansion population), parent and other caretaker relatives, and mandatory aged, blind, and disabled individuals. The tiered benefit structure was removed, and instead, the state established an incentive structure to encourage uptake of preventive dental services. Enrollees with household income above 50 percent of the FPL are required to contribute financially toward their dental health care costs through \$3 monthly premium contributions in order to maintain comprehensive dental benefits. Dental premiums are waived in the first year of the individual's enrollment. Dental premiums will continue to be waived in subsequent years if enrollees complete an oral health risk assessment and obtain a preventive dental service in the prior year. Failure to make monthly dental premium payments results in the enrollee being eligible for only a basic dental services package for the remainder of the benefit year, but beneficiaries will not be disenrolled for failure to pay premiums and the past due amounts. The following eligibility groups are exempt from Dental Wellness Plan premiums, and will not have their benefits reduced in their second year of enrollment, notwithstanding any failure to complete state-designated healthy behaviors (i)

pregnant women; (ii) individuals whose medical assistance for services furnished in an institution is reduced by amounts reflecting available income other than required for personal needs; (iii) 1915(c) waiver enrollees; (iv) individuals receiving hospice care; (v) American Indians/ Alaska Natives (AI/AN) who are eligible to receive or have received an item or service furnished by an Indian health care provider or through referral under contract health services; (vi) breast and cervical cancer treatment program enrollees; and (vii) medically frail enrollees (referred to as medically exempt in Iowa). Additionally, persons who self-attest to financial hardship or who are exempt as described in 42 CFR 447.56 will have no dental premium obligation. The program thus creates incentives for enrollees to appropriately utilize preventive dental services, maintain oral health, and prevent oral disease. This program is also intended to create incentives for members to establish a dental home, because it encourages the receipt of preventive dental services. As was the case before this amendment, all dental benefits covered under the DWP are optional, not mandatory. On August 2, 2017, Iowa, as directed by its legislature, submitted a request to amend the demonstration to waive retroactive eligibility for all Medicaid beneficiaries. On October 26, 2017, CMS approved the state's amendment request for a waiver of retroactive eligibility for all Medicaid beneficiaries except for pregnant women (and during the 60-day period beginning on the last day of the pregnancy), and infants under one year of age. Under the approved demonstration, unless an exemption applies, an applicant's coverage would begin on the first day of the month in which the application is submitted, or as otherwise allowed under the state plan.

On June 20, 2019, Iowa submitted an extension application under section 1115(f) for a five-year extension, and requested one change to the existing terms and conditions. In accordance with Iowa Senate File 2418 (2018), the state requested to exempt applicants from the waiver of retroactive eligibility who are eligible for both Medicaid, and nursing facility services based on level of care, and who had been a resident of a nursing facility in any of the three months prior to submitting an application. For persons who are exempted from the waiver of retroactive eligibility due to eligibility for nursing facility services, retroactive eligibility is, and would continue to be, provided for those particular months in which the applicant was a nursing facility resident. The state already applies this exemption, for applications filed on or after July 1, 2018.

CMS approved the 1115(f) extension on November 15, 2019, including the change requested by Iowa to the retroactive eligibility waiver. In extending the approval period, CMS also updated the waiver of retroactive eligibility to exempt children under 19 years of age. The earliest that a retroactive eligibility period for children under age 19 will begin will be January 1, 2020, for an application filed on or after January 1, 2020.

In an abundance of caution, CMS also updated the waiver of retroactive eligibility to include a waiver of section 1902(a)(10) of the Act, to the extent that section 1902(a)(10) imposes a requirement of retroactive eligibility. CMS has also updated the monitoring and evaluation sections of the STCs to align those sections with CMS' current approach to monitoring and evaluation for section 1115 demonstrations, and to specify that CMS has the authority to require the state to submit a corrective action plan if monitoring or evaluation data indicate that demonstration features are not likely to assist in promoting the objectives of Medicaid. Currently, the STCs further specify that any such corrective action plan, submitted by the state, could include a temporary suspension of implementation of demonstration programs, in

circumstances where data indicate substantial, sustained directional change inconsistent with state targets (such as substantial, sustained trends indicating increases in disenrollment, difficulty accessing services, or unpaid medical bills). These updates will better aid the state in measuring and tracking the demonstration's impact on Iowans affected by it, and give CMS additional tools to protect beneficiaries if necessary. CMS would further have the ability to suspend implementation of the demonstration should corrective actions not effectively resolve these concerns in a timely manner.

Consistent with sections 1115(f)(6) and 1915(h) of the Act, CMS approved a 5-year extension approval period because the demonstration (specifically, the DWP component) provides medical assistance to beneficiaries dually eligible for Medicare and Medicaid. On February 25, 2021, Iowa submitted an amendment to the Iowa Wellness Plan to provide dental benefits to children through Prepaid Ambulatory Health Plans (PAHPs). The amendment sought to allow the state to better coordinate dental care for children, helping to promote oral health in an accessible and cost-effective manner. There were no proposed changes to children's dental benefits, they remain exempt from the incentive structure required for adult enrollees in the Dental Wellness Plan (DWP), and all enrollees under 21 years of age will continue to be eligible for medically necessary services in accordance with federal early and periodic screening, diagnostic and treatment (EPSDT) requirements.

On June 26, 2024, Iowa submitted a request for a five-year extension of the demonstration with minor changes to the special terms and conditions (STCs). The changes requested by the state include removing language related to the DWP premiums and healthy behavior incentives (HBI) and including the receipt of a dental examination as a healthy behavior for the IWP. The state's extension request is still pending, and CMS will address it at a future date. CMS approved temporary extensions on December 10, 2024, June 18, 2025, July 29, 2025, and August 29, 2025, which, combined, extended the demonstration until November 30, 2025.

CMS is approving a temporary extension and amendment which will extend authority for the IWP through December 31, 2026. This temporary extension and amendment also specifies that the waiver of NEMT will sunset on December 31, 2026.

III. GENERAL PROGRAM REQUIREMENTS

- 1. Compliance with Federal Non-Discrimination Laws. The state must comply with all applicable federal civil rights laws relating to non-discrimination in services and benefits in its programs and activities. These include, but are not limited to, the Americans with Disabilities Act of 1990 (ADA), title VI of the Civil Rights Act of 1964, section 504 of the Rehabilitation Act of 1973 (Section 504), the Age Discrimination Act of 1975, and section 1557 of the Patient Protection and Affordable Care Act (ACA).
- 2. Compliance with Medicaid and CHIP Law, Regulation, and Policy. All requirements of the Medicaid and CHIP programs expressed in federal law, regulation, and written policy not expressly waived or identified as not applicable

in the waiver document (of which these terms and conditions are part), apply to the demonstration.

3. Changes in Medicaid and CHIP Law, Regulation, and Policy. The state must, within the timeframes specified in federal law, regulation, or written policy, come into compliance with any changes in law, regulation, or policy affecting the Medicaid or CHIP programs that occur during this demonstration approval period, unless the provision being changed is explicitly waived or identified as not applicable. In addition, CMS reserves the right to amend the STCs to reflect such changes and/or changes of an operational nature without requiring the state to submit an amendment to the demonstration under STC 7. CMS will notify the state 30 business days in advance of the expected approval date of the amended STCs to allow the state to provide comment. Changes will be considered in force upon issuance of the approval letter by CMS. The state must accept the changes in writing.

4. Impact on Demonstration of Changes in Federal Law, Regulation, and Policy.

If mandated changes in the federal law require state legislation, unless otherwise prescribed by the terms of the federal law, the changes must take effect on the day such state legislation becomes effective, or on the last day such legislation was required to be in effect under the law, whichever is sooner.

- 5. State Plan Amendments. The State will not be required to submit title XIX or title XXI state plan amendments (SPAs) for changes affecting any populations made eligible solely through the demonstration. If a population eligible through the Medicaid or CHIP state plan is affected by a change to the demonstration, a conforming amendment to the appropriate state plan is required, except as otherwise noted in these STCs. In all such cases, the Medicaid and CHIP state plans govern.
- 6. Changes Subject to the Amendment Process. Changes related to eligibility, enrollment, benefits, delivery systems, cost sharing, sources of non-federal share of funding, budget neutrality, and other comparable program elements must be submitted to CMS as amendments to the demonstration. All amendment requests are subject to approval at the discretion of the Secretary in accordance with section 1115 of the Act. The state must not implement changes to these elements without prior approval by CMS either through an approved amendment to the Medicaid or CHIP state plan or amendment to the demonstration. Amendments to the demonstration are not retroactive and no FFP of any kind, including for administrative or medical assistance expenditures, will be available under changes to the demonstration that have not been approved through the amendment process set forth in STC 7 below, except as provided in STC 3.
- 7. Amendment Process. Requests to amend the demonstration must be submitted to

CMS for approval no later than 120 days prior to the planned date of implementation of the change and may not be implemented until approved. CMS reserves the right to deny or delay approval of a demonstration amendment based on non-compliance with these STCs, including, but not limited to, failure by the state to submit required reports and other deliverables in a timely fashion according to the deadlines specified therein. Amendment requests must include, but are not limited to, the following:

- a. An explanation of the public process used by the state consistent with the requirements of STC 12. Such explanation must include a summary of any public feedback received and identification of how this feedback was addressed by the state in the final amendment request submitted to CMS;
- b. A detailed description of the amendment, including impact on beneficiaries, with sufficient supporting documentation;
- c. A data analysis which identifies the specific "with waiver" impact of the proposed amendment on the current budget neutrality agreement. Such analysis must include current total computable "with waiver" and "without waiver" status on both a summary and detailed level through the current approval period using the most recent actual expenditures, as well as summary and detailed projections of the change in the "with waiver" expenditure total as a result of the proposed amendment, which isolates (by Eligibility Group) the impact of the amendment;
- d. An up-to-date CHIP allotment worksheet, if necessary;
- e. The state must provide updates to existing demonstration reporting and quality and evaluation plans. This includes description of how the evaluation design and annual progress reports will be modified to incorporate the amendment provisions as well as the oversight monitoring and measurement of the provisions.
- **8. Extension of the Demonstration.** States that intend to request an extension of the demonstration must submit an application to CMS from the Governor of the state in accordance with the requirements of 42 CFR § 431.412(c). States that do not intend to request an extension of the demonstration beyond the period authorized in these STCs must submit a phase-out plan consistent with the requirements of STC 9.
- **9. Demonstration Phase-Out.** The state must only suspend or terminate this demonstration in whole, or in part, consistent with the following requirements.
 - a. <u>Notification of Suspension or Termination:</u> The state must promptly notify CMS in writing of the reason(s) for the suspension or termination, together with the effective date and a transition and phase-out plan. The state must submit a notification letter and a draft transition and phase-out plan to CMS no less than six months before the effective date of the demonstration's suspension or

termination. Prior to submitting the draft transition and phase-out plan to CMS, the state must publish on its website the draft transition and phase-out plan for a 30-day public comment period. In addition, the state must conduct tribal consultation in accordance with STC 12, if applicable. Once the 30-day public comment period has ended, the state must provide a summary of the issues raised by the public during the comment period and how the state considered the comments received when developing the revised transition and phase-out plan.

- b. Transition and Phase-Out Plan Requirements: The state must include, at a minimum, in its phase-out plan the process by which it will notify affected beneficiaries, the content of said notices (including information on the beneficiary's appeal rights), the process by which the state will conduct administrative reviews of Medicaid or CHIP eligibility prior to the termination of the demonstration for the affected beneficiaries, and ensure ongoing coverage for eligible beneficiaries, as well as any community outreach activities the state will undertake to notify affected beneficiaries, including community resources that are available.
- c. <u>Transition and Phase Out Plan Approval</u>: The state must obtain CMS approval of the transition and phase-out plan prior to the implementation of transition and phase-out activities. Implementation of transition and phase-out activities must be no sooner than 14 calendar days after CMS approval of the transition and phase-out plan.
- d. Transition and Phase-out Procedures: The state must comply with applicable notice requirements found in 42 CFR, part 431 subpart E, including sections 431.206, 431.210, and 431.213. In addition, the state must assure all applicable and hearing rights are afforded to beneficiaries in the demonstration as outlined in 42 CFR, part 431 subpart E, including §§ 431.220 and 431.221. If a beneficiary in the demonstration requests a hearing before the date of action, the state must maintain benefits as required in 42 CFR 431.230. In addition, the state must conduct administrative renewals for all affected beneficiaries in order to determine if they qualify for Medicaid or CHIP eligibility under a different eligibility category prior to termination, as discussed in the October 1, 2010 State Health Official letter #10-008 and as required under 42 CFR 435.916(f)(1). For individuals determined ineligible for Medicaid, the state must determine potential eligibility for other insurance affordability programs and comply with the procedures set forth in 42 CFR 435.1200(e).
- e. Exemption from Public Notice Procedures, 42 CFR 431.416(g). CMS may expedite the federal and state public notice requirements under circumstances described in 42 CFR 431.416(g).
- f. <u>Enrollment Limitation during Demonstration Phase-Out.</u> If the state elects to suspend, terminate, or not extend this demonstration, during the last six months of the demonstration, enrollment of new individuals into the demonstration must

- be suspended. The limitation of enrollment into the demonstration does not impact the state's obligation to determine Medicaid eligibility in accordance with the approved Medicaid state plan.
- g. <u>Federal Financial Participation (FFP)</u>. If the project is terminated or any relevant waivers are suspended by the state, FFP must be limited to normal closeout costs associated with the termination or expiration of the demonstration, including services, continued benefits as a result of beneficiaries' appeals, and administrative costs of disenrolling beneficiaries.
- 10. Withdrawal of Waiver or Expenditure Authority. CMS reserves the right to withdraw waivers and/or expenditure authorities at any time it determines that continuing the waivers or expenditure authorities would no longer be in the public interest or promote the objectives of title XIX. CMS will promptly notify the state in writing of the determination and the reasons for the withdrawal, together with the effective date, and must afford the state an opportunity to request a hearing to challenge CMS' determination prior to the effective date. If a waiver or expenditure authority is withdrawn, FFP is limited to normal closeout costs associated with terminating the waiver or expenditure authorities, including services, continued benefits as a result of beneficiary appeals, and administrative costs of disenrolling participants.
- 11. Adequacy of Infrastructure. The State will ensure the availability of adequate resources for implementation and monitoring of the demonstration, including education, outreach, and enrollment; maintaining eligibility systems; compliance with cost sharing requirements; and reporting on financial and other demonstration components.
- 12. Public Notice, Tribal Consultation, and Consultation with Interested Parties. The state must comply with the state notice procedures as required in 42 CFR §431.408 prior to submitting an application to extend the demonstration. For applications to amend the demonstration, the state must comply with the state notice procedures set forth in 59 Fed. Reg. 49249 (September 27, 1994) prior to submitting such request. The state must also comply with the public notice procedures set forth in 42 CFR § 447.205 for changes in statewide methods and standards for setting

The state must also comply with tribal and Indian Health Program/Urban Indian Organization consultation requirements at section 1902(a)(73) of the Act, 42 CFR §431.408(b), State Medicaid Director Letter #01-024, or as contained in the state's approved Medicaid state plan, when any program changes to the demonstration, either through amendment as set out in STC 7 or extension, are proposed by the state.

13. Federal Financial Participation (FFP). No federal matching funds for state expenditures under this demonstration, including for administrative and medical

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payment rates.

assistance expenditures, will be available until the effective date identified in the demonstration approval letter, or if later, as expressly stated within these STCs.

- 14. Administrative Authority. When there are multiple entities involved in the administration of the demonstration, the Single State Medicaid Agency must maintain authority, accountability, and oversight of the program. The State Medicaid Agency must exercise oversight of all delegated functions to operating agencies, managed care organizations (MCOs), and any other contracted entities. The Single State Medicaid Agency is responsible for the content and oversight of the quality strategies for the demonstration.
- 15. Common Rule Exemption. The state must ensure that the only involvement of human subjects in research activities that may be authorized and/or required by this demonstration is for projects which are conducted by or subject to the approval of CMS, and that are designed to study, evaluate, or otherwise examine the Medicaid or CHIP program—including public benefit or service programs, procedures for obtaining Medicaid or CHIP benefits or services, possible changes in or alternatives to Medicaid or CHIP programs or procedures, or possible changes in methods or levels of payment for Medicaid benefits or services. The Secretary has determined that this demonstration as represented in these approved STCs meets the requirements for exemption from the human subject research provisions of the Common Rule set forth in 45 CFR 46.104(b)(5).

III. POPULATIONS AFFECTED

16. Waiver of Retroactive Eligibility Population. The waiver of retroactive eligibility applies to individuals who are eligible for Medicaid under the state plan (including all modified adjusted gross income (MAGI) and Non-MAGI related groups), with certain exceptions described below.

The state assures that it will provide outreach and education about how to apply for and receive Medicaid coverage to the public and to Medicaid providers, particularly those who serve vulnerable populations that may be impacted by the retroactive eligibility waiver and those disenrolled for nonpayment of premiums.

The waiver of retroactive eligibility does not apply to pregnant women (and during the 60 day period beginning on the last day of the pregnancy), infants under one year of age, or children under nineteen years of age. The earliest that a retroactive eligibility period for children under age 19 will begin will be January 1, 2020, for an application filed on or after January 1, 2020.

a. The waiver of retroactive eligibility also does not apply to applicants who are eligible for nursing facility services based on level of care, who had been a resident of a nursing facility in any of the three months prior to an application, and who are otherwise eligible for Medicaid. For individuals exempted from the retroactive eligibility waiver on the basis of nursing facility eligibility,

retroactive eligibility would be provided for those particular months in which the applicant was a nursing facility resident.

- 17. Iowa Wellness Plan Population. The IWP premium incentive program intended to improve the use of preventive services and encourage health is targeted for individuals who are eligible in the new adult group under the state plan that is described in 1902(a)(10)(A)(i)(VIII) of the Act, and 42 CFR 435.119, and includes those persons up to and including 133 percent of the FPL.
- **18. Dental Wellness Plan Population.** The Dental Wellness Plan (DWP) is targeted to all Medicaid populations identified in Table 1 below:

Table 1: Dental Wellness Plan eligible populations				
Eligibility	Social Security Act and CFR	Income Level		
Group Name	Citations			
	1002(-)(10)(A)(:)(A/III)			
New Adult Group	1902(a) (10) (A) (i) (VIII) 42 CFR, 435.119	0-133% FPL		
Parents and Other Caretaker Relatives	1902(a) (10) (A) (i) (I) 1931 (b) and (d) 42 CFR 435.110	Household Size	Monthly Income Limit	
		1	\$447	
		3	\$716	
		4	\$872	
		5	\$1,033	
		6	\$1,177	
		7	\$1,330 \$1,481	
		8	\$1,461	
		9	\$1,784	
		10	\$1,764	
		10	\$1,550	
Transitional Medical Assistance	408(a) (11) (A) 1931 (c) (2) 1925 1902 (a) (52)	First 6 months: N/A Additional 6 months: 0-185% FPL		
Pregnant Women	1902(a) (10(A) (i) (III) and (IV) 1902(a) (10) (A) (ii) (I), (IV) and (IX) 1920 43 CFR 435.116	0-375% FPL		
Mandatory Aged, Blind and Disabled Individuals	42 CFR 435.120 through 42 CFR 435.138	SSI Limit		
Optional Eligibility for Individuals who Meet Income & Resource of Cash Assistance Programs	1902(a) (10) (A) (ii) (I) 42 CFR 435.210	SSI Limit		
Optional Eligibility for Individuals who would be Eligible for Cash Assistance if they Were not in Medical Institutions	1902(a) (10) (A) (ii) (IV) 42 CFR 435.211	SSI FBR		
Institutionalized Individuals	1902(a)(10)(A)(ii)(V)	300% SSI FBR		

Medicaid for	1000()(10)(1)(1)(1)(1111)	0500/ PDI	
Employed People	1902(a)(10)(A)(ii)(XIII)	250% FPL	
Former Foster Care Children up to Age	1902(a) (10) (A) (i) (IX) 42 CFR 435.150	N/A	
Independent Foster Care Adolescents	1902(a)(10)(A)(ii)(XVII)	254% FPL	
Reasonable Classifications of Children	42 CFR 435.222	N/A	
§1915(c) HCBS Physical Disability	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	
§1915(c) HCBS Health and Disability	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	
§1915(c) HCBS Elderly Waiver	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	
§1915(c) HCBS Intellectual Disability Waiver	1902(a)(10)(A)(ii)(VI) 42 CFR 435.217	300% SSI FBR	
§1915(c) HCBS AIDS Waiver	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	
§1915(c) HCBS Brain Injury Waiver	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	
Breast & Cervical Cancer Treatment Program	1902(a) (10) (A) (ii) (XVIII)	N/A	
Deemed Newborn Children	42 CFR 435.117	N/A	
Infants and Children under Age 19	42 CFR 435.118	Infants under 1: 300375% FPL Age 15: 167% FPL Age 6-18: 167% FPL	
Children with Adoption Assistance, Foster Care, or Guardianship Care Under Title IV-E	42 CFR §435.145 1902(a) (10) (A) (i) (l) 473(b) (3)	N/A	
Children with Non IV-E Adoption Assistance	42 CFR §435.277 1902(a) (10) (A) (ii) (VIII)	N/A	
Family Opportunity Act Children with Disabilities	1902(a) (10) (ii) (XIX)	300% FPL	
§1915(c) Children's Mental Health Waiver	1902(a) (10) (A) (ii) (VI) 42 CFR 435.217	300% SSI FBR	

IV. DENTAL DELIVERY SYSTEM

19. Overview. The Iowa Wellness Plan will provide dental services through a managed care delivery system known as a Prepaid

Ambulatory Health Plan(PAHP).

- **20. Managed Care Requirements.** The state must comply with the managed care regulations published at 42 CFR 438, except as waived herein. Capitation rates shall be developed and certified as actuarially sound, in accordance with 42 CFR 438.4. The certification shall identify historical utilization of services that are the same as outlined in the corresponding Alternative Benefit Plan and used in the rate development process.
- 21. Managed Care Contracts. No FFP is available for activities covered under contracts and/or modifications to existing contracts that are subject to 42 CFR 438 requirements prior to CMS approval of this demonstration authority as well as such contracts and/or contract amendments. The state shall submit any supporting documentation deemed necessary by CMS. The state must provide CMS with a minimum of 60 days to review and approve changes. CMS reserves the right, as a corrective action, to withhold FFP (either partial or full) for the demonstration, until the contract compliance requirement is met.
- **22. Public Contracts**. Payments under contracts with public agencies, that are not competitively bid in a process involving multiple bidders, shall not exceed the documented costs incurred in furnishing covered services to eligible individuals (or a reasonable estimate with an adjustment factor no greater than the annual change in the consumer price index).
- **23. Managed Care Dental Benefit Package.** Individuals enrolled in the Iowa Wellness Plan will receive from the managed care program the benefits as identified in Section VI of the STCs. Covered dental benefits should be delivered and coordinated in an integrated fashion.
- **24. Enrollment Requirements.** The state may require any of the populations identified in Section IV to enroll in PAHPs pursuant to 42 CFR 438.
- **25. Network Requirements**. The state must ensure the delivery of all covered dental benefits, including high quality care. Services must be delivered in a culturally competent manner, and the PAHP network must be sufficient to provide access to covered services to the low- income population. The following requirements must be included in the state's PAHP contracts:
 - a. **Special Health Care Needs.** Enrollees with special health care needs must have direct access to a specialist, as appropriate for the individual's health care condition, as specified in 42 CFR 438.208(c)(4).
 - b. **Out of Network Requirements.** The PAHP must provide demonstration populations with all demonstration program benefits under their contract and as described within these STCs and must allow access to non-network providers when services cannot be provided consistent with the timeliness

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standards required by the state.

- **26. Demonstrating Network Adequacy**. Annually, the PAHP must provide adequate assurances that it has sufficient capacity to serve the expected enrollment in its service area and offers an adequate range of providers necessary to provide covered services for the anticipated number of enrollees in the service area.
 - a. a. The state must verify these assurances by reviewing demographic, utilization and enrollment data for enrollees in the demonstration as well as:
 - i. The number and types of dentists and dental specialty providers available to provide covered services to the demonstration population;
 - ii. The number of network providers accepting the new demonstration population; and
 - iii. The geographic location of providers and demonstration populations, as shown through GeoAccess or similar software
 - b. The state must submit the documentation required in subparagraphs i iii above to CMS with initial PAHP contract submission as well as at each contract renewal or renegotiation, or at any time that there is a significant impact to the PAHP's operation, including service area expansion or reduction and population expansion.

V. BENEFITS

27. Iowa Wellness Plan Benefits. Individuals in the IWP populations described in STC 17 will receive benefits described in the Iowa Wellness Plan alternative benefit plan (ABP).

28. Dental Wellness Plan Benefits.

- a. **Benefits in First Year of Enrollment**. Individuals enrolled in the Dental Wellness Plan will receive all available dental benefits described in the state plan or alternative benefit plan, as applicable.
- b. **Benefit Requirements After First Year of Enrollment**. Individuals enrolled in the Dental Wellness Plan may continue to receive all benefits described in the state plan or the alternative benefit plan, as applicable, subject to the requirements set forth below.
 - i. **Dental Premium.** Beneficiaries will be required to pay a monthly dental premium starting in year 2 of enrollment in the demonstration to maintain full dental benefits, as specified in STC 30.
 - ii. **Healthy Behaviors.** Beneficiaries will not be charged a monthly

- dental premium if they complete state-designated healthy behaviors in the prior year of enrollment.
- iii. **Penalty.** Beneficiaries who do not make a premium payment or complete healthy behaviors will receive basic dental benefits as outlined in the state plan and alternative benefits plan.
- iv. **Appeal Rights.** Beneficiaries will be able to challenge any denial in whole or in part, limited authorization of service, termination of a previously authorized service, or failure of a plan to act within the required timeframe as described in Section VII of the STCs.

Dental Appointments. The state must take action to assist beneficiaries in accessing services if they report to the state, in a timely manner, that they were not able to secure a dental appointment through a PAHP. The state must provide member hotline assistance to individuals seeking dental care who were unable to secure an appointment with a dental provider.

- b. **EPSDT.** All beneficiaries under 21 years of age will continue to be eligible for medically necessary dental services in accordance with federal EPSDT requirements.
- **29. Non-Emergency Medical Transportation (NEMT).** Individuals in the adult expansion group shall not receive any benefit in the form of an administrative activity or service to assure non-emergency transportation to and from providers. Medically frail beneficiaries and those eligible for EPSDT services are exempt from this waiver. This waiver will sunset on December 31, 2026.

VI. HEALTHY BEHAVIORS, PREMIUMS AND COSTSHARING

- 30. Iowa Wellness Plan and Dental Wellness Plan Premiums. The premiums and cost-sharing features of the demonstration are designed to incentivize the uptake of preventive services, which could improve beneficiary health and thereby reduce the costs of providing coverage, thus improving the financial sustainability of Iowa's Medicaid program. The state has the authority to charge premiums in accordance with the CMS approved protocols described in STC 34, which are binding upon the state. The state may request changes to the approved protocols; any changes must be accepted by CMS. Any change will require advance notice to members. All modifications to the premium policies must be captured through the immediate next Annual Monitoring Report.
 - a No premium will be charged for the first year of enrollment in the Iowa Wellness Plan or the Dental Wellness Plan.
 - b. All premiums permitted by this paragraph are subject to the exemptions and waivers described in STC 31.
 - c. Monthly premium amounts for the Iowa Wellness Plan may not exceed \$5/month for nonexempt households with income above 50 percent up to and

including 100 percent of the FPL and \$10/month for nonexempt households with income over 100 percent up to and including 133 percent of the FPL. Monthly premium amounts for the Dental Wellness Plan may not exceed \$3/month for nonexempt households with income above 50 percent of the FPL. Combined premiums and cost-sharing is subject to a quarterly aggregate cap of 5 percent of household income.

- d. Enrollees in the Iowa Wellness Plan and the Dental Wellness Plan will be allowed a 90-day premium grace period.
- e. Iowa Wellness Plan enrollees with income up to and including 100 percent FPL and all Dental Wellness Plan beneficiaries may not be disenrolled for nonpayment of a premium, nor can an individual be denied an opportunity to re-enroll due to nonpayment of a premium.
- f. Individuals with income over 100 percent of the FPL may be disenrolled from the IWP for nonpayment. Persons disenrolled for nonpayment can reapply at any time; however, their outstanding premium payments will remain subject to recovery.
- g. After the 90 day grace period, unpaid Iowa Wellness Plan and Dental Wellness Plan premiums may be considered a collectible debt owed to the State of Iowa and, at state option, subject to collection by the state, with the following exception:

If, at the member's next annual renewal date, the member does not apply for renewed eligibility, and the member has no claims for services delivered after the month of the last premium payment, unpaid premiums shall not be considered a collectible debt by the state.

Enrollees with a premium requirement who complete state-designated healthy behaviors will have their premium waived for the following benefit year.

31. Premium Exemptions

- a. Iowa Wellness Plan. Enrollees will be exempt from a monthly contribution obligation under the following conditions:
 - For all individuals enrolled in the Iowa Wellness Plan, premiums are waived in the first year of the individual's enrollment.
 Premiums will continue to be waived in subsequent years if enrollees complete healthy behaviors in their prior annual period, as outlined in the state's approved Healthy Behavior Incentive Protocol.
- ii. Premiums may only be assessed on non-exempt individuals as

- described in 42 CFR 447.56.
- iii. Medically frail and members in the HIPP population are not subject to premiums.
- iv. All individuals who self-attest to a financial hardship will have no premium obligation. The opportunity to self-attest will be made available with each invoice.
- b. **Dental Wellness Plan.** Enrollees will be exempt from a monthly contribution obligation for dental benefits under the following conditions:
- For all individuals enrolled in the Dental Wellness Plan, premiums are waived in the first year of the individual's enrollment.
 Premiums will continue to be waived in subsequent years if enrollees complete healthy behaviors in the prior year.
- ii. Premiums may only be assessed on non-exempt individuals as described in 42 CFR 447.56.
- The following eligibility groups will be exempt from Dental Wellness Plan iii. premiums, and will not have their benefits reduced in their second year of enrollment, notwithstanding any failure to complete state-designated healthy behaviors as described in STC 33 (i) pregnant women; (ii) individuals whose medical assistance for services furnished in an institution is reduced by amounts reflecting available income other than required for personal needs; (iii) 1915(c) waiver enrollees; (iv) individuals receiving hospice care; (v) American Indians/Alaska Natives (AI/AN) who are eligible to receive or have received an item or service furnished by an Indian health care provider or through referral under contract health services; (vi) breast and cervical cancer treatment program enrollees; and (vii) medically frail enrollees (referred to as medically exempt in Iowa); (viii) Deemed Newborn Children (ix) Infants and Children under Age 19; (x) Children with Adoption Assistance, Foster Care, or Guardianship Care Under Title IV-E; (xi) Children with Non IV-E Adoption Assistance; (xii) Family Opportunity Act Children with Disabilities; (xiii) §1915(c) Children's Mental Health Waiver; and (ix) 19 and 20 year olds eligible for EPSDT services.
- iv. All individuals who self-attest to a financial hardship will have no dental premium obligation. The opportunity to self-attest will be made available with each invoice.
- **32.** Copayment for non-emergency use of the emergency department. Individuals in the IWP populations described in STC 17 are subject to premiums in lieu of other cost sharing except that the state may impose a copayment for non-emergency use of the emergency room consistent with its approved state plan and with all federal

requirements that are set forth in statute, regulation and policies, including exemptions from cost-sharing set forth in 42 CFR 447.56.

33. Healthy Behaviors

- a. **Iowa Wellness Plan.** The state has the authority to implement the Healthy Behaviors component pursuant to the CMS approved protocols described in STC 34. Enrollees who do not complete required healthy behaviors will be required to pay their monthly premiums beginning in the next enrollment year.
 - i. **General Description.** All individuals subject to premiums who are enrolled in the Iowa Wellness Plan will have premiums waived during the 1st year of enrollment and will be eligible to receive a waiver of monthly premium contributions required in the 2nd year of enrollment if enrollees complete healthy behaviors during the first year. For each subsequent year, nonexempt enrollees will have the opportunity to complete healthy behaviors to continue to waive financial contributions, i.e. healthy behaviors performed in year 2 of enrollment will be permitted to waive premiums for year 3.
 - ii. Healthy Behaviors. The conditions to be met by a nonexempt individual in year 1 of enrollment as a condition for not being liable for monthly contributions in year 2 are completing a health risk assessment and wellness exam (annual exam). A health risk assessment is considered part of the individual's medical record and is afforded all associated privacy and confidentiality protections afforded to such documents by federal and state law, regulations, and policy. The state must provide outreach and education to beneficiaries to inform them of the incentives that can be used to avoid premiums and the consequences of nonpayment of those premiums if due.
 - iii. **Grace Period.** Nonexempt individuals will be given a 30-day healthy behavior grace period. If the individual completes the required healthy behaviors in the first 30 days of a year when premiums are due, no premiums will be due for the remainder of the year.
- **b. Dental Wellness Plan.** Members who complete dental healthy behaviors each year of enrollment will continue to receive full dental benefits without ever being subject to monthly dental premiums.
 - i. General Description. All individuals in the Dental Wellness Plan who are subject to premiums will have premiums waived in year 1 of enrollment and will be eligible to receive a waiver of monthly

premium contributions required in year 2 of enrollment to maintain full dental benefits if enrollees complete dental healthy behaviors during year 1 of enrollment. For each subsequent year, nonexempt enrollees will have the opportunity to complete dental healthy behaviors to continue to waive financial contributions (e.g. healthy behaviors performed in year 2 will be permitted to waive premiums for year 3).

- ii. Healthy behaviors. The conditions to be met by a nonexempt individual in year 1 of enrollment as a condition of maintaining full dental benefits without liability for monthly premium contributions in year 2 are completing an oral health risk assessment and preventive dental service. The state must provide outreach and education to beneficiaries to inform them of the incentives that can be used to avoid premiums and the consequences of nonpayment of those premiums if due. Additionally, any future changes to state-designated healthy behaviors will be thoroughly communicated to enrollees in order to provide thorough opportunity for enrollees to maintain full dental benefits without liability for monthly contributions. Self-assessments submitted are considered part of the individual's medical record and afforded all associated privacy and confidentiality protections afforded to such documents by federal and state law, regulations, and policy.
- **34. Iowa Wellness Plan Healthy Behaviors and Premiums Protocols.** The state has the authority to implement the Healthy Behaviors and Premiums component in accordance with the CMS approved protocol, which is binding upon the state. The state may request changes to the approved Healthy Behaviors and Premiums Protocols; any changes must be accepted by CMS. Any change will require advance notice to members. All modifications to the Healthy Behaviors and Premiums Protocols must be captured through the immediate next Annual Monitoring Report.

The state's approved Healthy Behaviors and Premiums Protocols detail:

- a. The purpose and objectives of the Healthy Behaviors Incentive program.
- b. The methodology for obtaining, and content of, the health risk assessment used to identify unhealthy behaviors such as alcohol abuse, substance use disorders, tobacco use, obesity, and deficiencies in immunization status.
- c. The criteria to be met for completing a wellness exam.
- d. The process by which an enrollee is deemed compliant with healthy behaviors in year 1.
- e. A list of stakeholders consulted in the development of the protocol.
- f. A description of how healthy behaviors will be tracked and monitored at the enrollee and provider levels, including standards of accountability for providers.
- g. A description of how the state will notify and educate enrollees about the Healthy Behaviors Incentives program.

In addition, the approved protocol delineates:

- a. The process by which the state will identify individuals who are exempt from the premium requirements.
- b. The notices beneficiaries will receive regarding premiums and/or Healthy Behaviors and the schedule for such notices.
- c. The process by which beneficiaries will be able to remit payment, including ways individuals who cannot pay by check will be accommodated.
- d. The process by which the state will collect past due premiums.
- e. The approved protocol also describes criteria by which the state will monitor premiums and thresholds for modification and/or termination of premium collection in the event of unintended harm to beneficiaries.
- f. The state's approved Future Year Healthy Behaviors Incentives Protocol describes the following Healthy Behaviors Incentive Program standards:
 - i. A description of any provisions that will be provided to assist enrollees in addressing unhealthy behaviors identified through the health risk assessment.
 - ii. A description of selected healthy behaviors to be met by an individual in year 1 (or subsequent years) in order to be deemed compliant with healthy behaviors resulting in a waiver of monthly contributions in year 2 (or subsequent years).

Iowa will further evaluate, define and refine healthy behavior requirements for subsequent years of the demonstration. Iowa must obtain CMS approval before the state can introduce new requirements to enrollees.

VII. APPEALS

35. Beneficiary safeguards of appeal rights will be provided by the state, including fair hearing rights. No waiver will be granted related to appeals. The state must ensure compliance with all federal and state requirements related to beneficiary appeal rights. Pursuant to the Intergovernmental Cooperation Act of 1968, the state may submit a State Plan Amendment delegating certain responsibilities to the Iowa Insurance Division or another state agency. Dental services appeals are governed by the contract between the state and the dental Prepaid Ambulatory Health Plans (PAHPs).

IX. MONITORING AND REPORTING REQUIREMENTS

37. Deferral for Failure to Submit Timely Demonstration Deliverables. CMS may issue deferrals in accordance with 42 CFR part 430 subpart C, in the amount of \$5,000,000 per deliverable (federal share) when items required by these STCs (e.g., required data elements, analyses, reports, design documents, presentations, and other items specified in these STCs (hereafter singularly or collectively referred to as "deliverable(s)") are not submitted timely to CMS or are found to not be consistent with the requirements approved by CMS. A deferral shall not exceed the value of the federal amount for the current demonstration period. The state does not relinquish its

rights provided under 42 CFR part 430 subpart C to challenge any CMS finding that the state materially failed to comply with the terms of this agreement.

The following process will be used: 1) 30 calendar days after the deliverable was due if the state has not submitted a written request to CMS for approval of an extension as described in subsection (b) below; or 2) 30 calendar days after CMS has notified the state in writing that the deliverable was not accepted for being inconsistent with the requirements of this agreement and the information needed to bring the deliverable into alignment with CMS requirements:

- a. CMS will issue a written notification to the state providing advance notification of a pending deferral for late or non-compliant submissions of required deliverable(s).
- b. For each deliverable, the state may submit to CMS a written request for an extension to submit the required deliverable. The extension request must explain the reason why the required deliverable was not submitted, the steps the state has taken to address such issue, and the state's anticipated date of submission. Should CMS agree in writing to the state's request, a corresponding extension of the deferral process described below can be provided. CMS may agree to a corrective action plan submitted by the state as an interim step before applying the deferral, if corrective action is proposed in the state's written extension request.
- c. If CMS agrees to an interim corrective process in accordance with subsection (b), and the state fails to comply with the corrective action plan or, despite the corrective action plan, still fails to submit the overdue deliverable(s) that meet the terms of this agreement, CMS may proceed with the issuance of a deferral against the next Quarterly Statement of Expenditures reported in Medicaid Budget and Expenditure System/State Children's Health Insurance Program Budget and Expenditure System (MBES/CBES) following a written deferral notification to the state.
- d. If the CMS deferral process has been initiated for state non-compliance with the terms of this agreement for submitting deliverable(s), and the state submits the overdue deliverable(s), and such deliverable(s) are accepted by CMS as meeting the standards outlined in these STCs, the deferral(s) will be released.

As the purpose of a section 1115 demonstration is to test new methods of operation or service delivery, a state's failure to submit all required reports, evaluations, and other deliverables will be considered by CMS in reviewing any application for an extension, amendment, or for a new demonstration.

38. Submission of Post-Approval Deliverables. The state must submit all deliverables as stipulated by CMS and within the timeframes outlined within these STCs, unless CMS and the state mutually agree to another timeline.

- **39. Compliance with Federal Systems Updates.** As federal systems continue to evolve and incorporate additional section 1115 demonstration reporting and analytics functions, the state will work with CMS to:
 - a. Revise the reporting templates and submission processes to accommodate timely compliance with the requirements of the new systems;
 - b. Ensure all section 1115 demonstration, Transformed Medicaid Statistical Information System (T-MSIS), and other data elements that have been agreed to for reporting and analytics are provided by the state; and
 - c. Submit deliverables to the appropriate system as directed by CMS.
- **40. Monitoring Reports.** The state must submit one Annual Monitoring Report each demonstration year (DY) that is due no later than 180 calendar days following the end of the DY. The state must submit a revised Annual Monitoring Report within 60 calendar days after receipt of CMS's comments, if any. CMS might increase the frequency of monitoring reporting if CMS determines that doing so would be appropriate. CMS will make on-going determinations about reporting frequency under the demonstration by assessing the risk that the state might materially fail to comply with the terms of the approved demonstration during its implementation and/or the risk that the state might implement the demonstration in a manner unlikely to achieve the statutory purposes of Medicaid. See 42 CFR 431.420(d)(1)-(2).

The Annual Monitoring Report will include all required elements as per 42 CFR 431.428 and should not direct readers to links outside the report. Additional links not referenced in the document may be listed in a Reference/Bibliography section. The Annual Monitoring Report must follow the framework provided by CMS, which is subject to change as monitoring systems are developed/evolve, and must be provided in a structured manner that supports federal tracking and analysis.

- a. Operational Updates. Per 42 CFR 431.428, the Annual Monitoring Report must document any policy or administrative difficulties in operating the demonstration. The Annual Monitoring Report must provide sufficient information to document key operational and other challenges, underlying causes of challenges and how challenges are being addressed, key achievements and to what conditions and efforts successes can be attributed, as well as progress towards and challenges associated with sunsetting the waiver of NEMT. The discussion should also include any issues or complaints identified by beneficiaries; lawsuits or legal actions; unusual or unanticipated trends; legislative updates; and descriptions of any public forums held. The Annual Monitoring Report should also include a summary of all public comments received through post-award public forums regarding the progress of the demonstration.
- b. <u>Performance Metrics</u>. The performance metrics will provide data to demonstrate the state's progress towards meeting the demonstration's goals and any applicable milestones. Per 42 CFR 431.428, the Annual Monitoring Report must document

the impact of the demonstration on beneficiaries' outcomes of care, quality and overall cost of care, and access to care, as applicable. This should also include the results of beneficiary satisfaction or experience of care surveys, if conducted, as well as grievances and appeals. The Annual Monitoring Report must provide detailed information about deviations from CMS's applicable metrics technical specifications, relevant methodology, plans for phasing in metrics, and data or reporting issues for applicable metrics, in alignment with CMS guidance and technical assistance.

The state and CMS will work collaboratively to finalize the list of metrics to be reported on in the Annual Monitoring Report. The demonstration's monitoring metrics must cover categories to include, but not be limited to eligibility, utilization of services, quality of care and health outcomes, and grievances and appeals. The state must report these metrics for all demonstration populations. Demonstration monitoring reporting does not duplicate or replace reporting requirements for other authorities, such as Home and Community Based Services and Managed Care authorities.

In addition, in alignment with applicable CMS guidance, the state is expected to report monitoring metrics specific to the key policies being tested in the demonstration, including but not limited to premiums, incentives for healthy behaviors, the waiver of retroactive eligibility, and the waiver of NEMT. For premiums, this will also include metrics related to premium payment/nonpayment, such as individuals subject to premium requirements, individuals whose premiums have been waived due to compliance with healthy behaviors, individuals exempt due to hardship, individuals with overdue premiums, information about the state's collection activities, and individuals over 100 percent up to and including 133 percent of the FPL who are disenrolled due to premium non-payment. The state will report applicable monitoring metrics to cover the waiver of retroactive eligibility policy, including "unpaid medical bills", using information found on the beneficiary enrollment application. The state is also expected to provide information regarding the NEMT waiver about beneficiary understanding of and experience with transportation in accessing covered services, particularly services that beneficiaries must obtain to avoid premiums. In addition, the state must provide metrics pertaining to access to care generally.

The reporting of these monitoring metrics may also be stratified by key demographic subpopulations of interest (e.g., by sex, age, race/ethnicity, or geography), and by demonstration component, as appropriate. Subpopulation reporting can support identifying any gaps in quality of care and health outcomes, and help track whether the demonstration's initiatives help improve outcomes for the state's Medicaid population.

c. <u>Evaluation Activities and Interim Findings.</u> Per 42 CFR 431.428, the Annual Monitoring Report must document any results of the demonstration to date per

the evaluation hypotheses. Additionally, the state shall include a summary of the progress of evaluation activities, including key milestones accomplished, as well as challenges encountered and how they were addressed.

- 41. Corrective Action Plan Related to Monitoring. If monitoring indicates that demonstration features are not likely to assist in promoting the objectives of Medicaid, CMS reserves the right to require the state to submit a corrective action plan to CMS for approval. A state corrective action plan could include a temporary suspension of implementation of demonstration programs in circumstances where monitoring data indicate substantial and sustained directional change inconsistent with state targets (such as substantial, sustained trends indicating increases in disenrollment, difficulty accessing services, or unpaid medical bills). A corrective action plan may be an interim step to withdrawing waivers or expenditure authorities, as outlined in STC 10. CMS might withdraw an authority, as described in STC 10, if metrics indicate substantial and sustained directional change, inconsistent with the state's demonstration goals and desired directionality, and the state has not implemented corrective action, and the circumstances described in STC 10 are met. CMS further has the ability to suspend implementation of the demonstration should corrective actions not effectively resolve these concerns in a timely manner.
- **42. Close-Out Report.** Within 120 calendar days after the expiration of the demonstration, the state must submit a draft Close-Out Report to CMS for comments.
 - a. The Close-Out Report must comply with the most current guidance from CMS.
 - b. In consultation with CMS, and per guidance from CMS, the state will include an evaluation of the demonstration (or demonstration components) that are to phase out or expire without extension along with the Close-Out Report. Depending on the timeline of the phase-out during the demonstration approval period, in agreement with CMS, the evaluation requirement may be satisfied through the Interim or Summative Evaluation Reports stipulated in STCs 51 and 52, respectively
 - c. The state will present to and participate in a discussion with CMS on the Close-Out Report.
 - d. The state must take into consideration CMS's comments for incorporation into the final Close-Out Report.
 - e. A revised Close-Out Report is due to CMS no later than 30 calendar days after receipt of CMS's comments.
 - f. A delay in submitting the draft or final version of the Close-Out Report may subject the state to penalties described in STC 37.
- **43. Monitoring Calls.** CMS will convene, no less frequently than quarterly, monitoring calls with the state.

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- a. The purpose of these calls is to discuss ongoing demonstration operations and implementation which align with the state's demonstration's monitoring reports, including (but not limited to) any significant actual or anticipated developments affecting the demonstration. Examples include implementation activities, trends in reported data on metrics and associated mid-course adjustments, eligibility and access, and progress on evaluation activities.
- b. These calls will follow the structure of and focus on the topics in the Annual Monitoring Report.
- c. CMS will provide updates on any pending actions, as well as federal policies and issues that may affect any aspect of the demonstration.
- d. The state and CMS will jointly develop the agenda for the calls.
- **44. Post Award Forum.** Pursuant to 42 CFR 431.420(c), within six months of the demonstration's implementation and annually thereafter, the state must afford the public with an opportunity to provide meaningful comment on the progress of the demonstration. At least 30 calendar days prior to the date of the planned public forum, the state must publish the date, time and location of the forum in a prominent location on its website. The state must also post the most recent Annual Monitoring Report on its website with the public forum announcement. Pursuant to 42 CFR 431.420(c), the state must include a summary of the comments in the Annual Monitoring Report associated with the year in which the forum was held.

VIII. EVALUATION OF THE DEMONSTRATION

45. Cooperation with Federal Evaluators and Learning Collaborative. As required under 42 CFR 431.420(f), the state must cooperate fully and timely with CMS and its contractors in any federal evaluation of the demonstration or any component of the demonstration. This includes, but is not limited to, commenting on design and other federal evaluation documents and providing data and analytic files to CMS, including entering into a data use agreement that explains how the data and data files will be exchanged, and providing a technical point of contact to support specification of the data and files to be disclosed, as well as relevant data dictionaries and record layouts. The state shall include in its contracts with entities who collect, produce or maintain data and files for the demonstration, that they shall make such data available for the federal evaluation as is required under 42 CFR 431.420(f). This may also include the state's participation—including representation from the state's contractors, independent evaluators, and organizations associated with the demonstration operations, as applicable—in a federal learning collaborative aimed at cross-state technical assistance, and identification of lessons learned and best practices for demonstration measurement, data development, implementation, monitoring, and evaluation. The state may claim administrative match for these activities. Failure to comply with this STC may result in a deferral being issued as outlined in STC 37.

- **46. Independent Evaluator.** The state must use an independent entity (herein referred to as the Independent Evaluator) to conduct an evaluation of the demonstration to ensure that the necessary data is collected at the level of detail needed to research the approved hypotheses. The Independent Evaluator must sign an agreement to conduct the demonstration evaluation in an independent manner in accordance with the CMS-approved Evaluation Design. When conducting analyses and developing the evaluation reports, every effort should be made to follow the approved methodology. However, the state may request, and CMS may agree to, changes in the methodology in appropriate circumstances.
- **47. Evaluation Design.** The state must submit, for CMS comment and approval, an Evaluation Design with implementation timeline, no later than 180 calendar days after the approval of the demonstration. The Evaluation Design must be developed in accordance with the STCs and any applicable evaluation guidance and technical assistance for the demonstration's policy components. The Evaluation Design must also be developed in alignment with CMS guidance on applying robust evaluation approaches, such as quasi-experimental methods like difference-in-differences and interrupted time series, as well as establishing valid comparison groups and assuring causal inferences in demonstration evaluations.

The state is strongly encouraged to use the expertise of the Independent Evaluator in the development of the Evaluation Design. The Evaluation Design also must include a timeline for key evaluation activities, including the deliverables outlined in STC 51 and 52.

For any amendment to the demonstration, the state will be required to update the approved Evaluation Design to accommodate the amendment component, unless otherwise agreed upon by the state and CMS. The amended Evaluation Design must be submitted to CMS for review no later than 180 calendar days after CMS's approval of the demonstration amendment. The amendment components of the Evaluation Design must also be reflected in the state's Interim and Summative Evaluation Reports, described below.

- **48. Evaluation Design Approval and Updates.** The state must submit a revised Evaluation Design within 60 calendar days after receipt of CMS's comments, if any. Upon CMS approval of the Evaluation Design, the document will be posted to Medicaid.gov. Per 42 CFR 431.424(c), the state will publish the approved Evaluation Design within 30 calendar days of CMS approval. The state must implement the Evaluation Design and submit a description of its evaluation implementation progress in each Annual Monitoring Report. Once CMS approves the Evaluation Design, if the state wishes to make changes and the changes are substantial in scope, the state must submit a revised Evaluation Design to CMS for approval; otherwise, in consultation with CMS, the state may include updates to the Evaluation Design in an Annual Monitoring Report.
- **49. Evaluation Questions and Hypotheses.** Consistent with the STCs and applicable CMS guidance, the evaluation deliverables must include a discussion of the

evaluation questions and hypotheses that the state intends to test. In alignment with applicable CMS evaluation guidance and technical assistance, the evaluation must outline and address well-crafted hypotheses and research questions for all key demonstration policy components that support understanding the demonstration's impact and its effectiveness in achieving the demonstration's goals.

The hypothesis testing should include, where possible, assessment of both process and outcome measures. The evaluation must study outcomes, such as likelihood of enrollment and enrollment continuity, and various measures of access, utilization, costs, and health outcomes, as appropriate and in alignment with applicable CMS evaluation guidance and technical assistance for the demonstration policy components. The evaluation is expected to use applicable demonstration monitoring and other data on the provision of and beneficiary utilization of demonstration and other applicable services. Proposed measures should be selected from nationally recognized sources and national measures sets, where possible. Measures sets could include CMS's Core Set of Children's Health Care Quality Measures for Medicaid and CHIP (Child Core Set) and the Core Set of Adult Health Care Quality Measures for Medicaid (Adult Core Set), collectively referred to as the CMS Child and Adult Core Measure Sets for Medicaid and CHIP; Consumer Assessment of Health Care Providers and Systems (CAHPS); the Behavioral Risk Factor Surveillance System (BRFSS) survey; or measures endorsed by the National Quality Forum (NQF).

The state must develop robust evaluation questions and hypotheses related to each demonstration initiative, and per applicable CMS guidance. Specifically:

- a. Hypotheses for the demonstration's Healthy Behaviors Incentive requirement and premiums must relate to (but are not limited to) the following areas: beneficiary understanding of and experience with premiums as an incentive, the interface between incentives to seek out preventive care and premiums, and consequences of these demonstration policies, including non-compliance with premiums and healthy behavior requirements, on coverage (including employer-sponsored health insurance and no coverage for those who separate from the demonstration), and health outcomes.
- b. Hypotheses for the waiver of retroactive eligibility must relate to (but are not limited to) the following outcomes: likelihood of enrollment and enrollment continuity; likelihood that beneficiaries will apply for Medicaid when they believe they meet the criteria for Medicaid; enrollment when people are healthy, or as soon as possible after meeting eligibility criteria; and health status (as a result of greater enrollment continuity).
- c. Hypotheses to evaluate the NEMT waiver for the duration of time the waiver is in effect must include (but are not limited to) effects on access to covered services, including access to the services that beneficiaries must obtain to avoid premiums. The state must additionally provide an assessment of the

progress toward sunsetting the waiver of NEMT, and potential lessons learned therefrom.

As part of its evaluation efforts, the state must conduct an overall demonstration cost assessment to include, but not be limited to, administrative costs of demonstration implementation and operation, Medicaid health services expenditures, and provider uncompensated costs. In addition, the state must use findings from hypothesis tests aligned with other demonstration goals and cost analyses to assess the demonstration's effects on the fiscal sustainability of the state's Medicaid program.

CMS underscores the importance of the state undertaking a well-designed beneficiary survey or interviews to assess, for instance, beneficiary understanding of and experience with the various demonstration policy components, including but not limited to beneficiary experiences with access to and quality of care, the Healthy Behaviors Incentive requirement, the waiver of retroactive eligibility, and the waiver of NEMT. To better understand whether implementation of certain key demonstration policies happened as envisioned during the demonstration design process and whether specific factors acted as facilitators of—or barriers to—implementation, the state is strongly encouraged undertake a robust process/implementation evaluation. The implementation evaluation can inform the state's crafting and selection of testable hypotheses and research questions for the demonstration's outcome and impact evaluations and provide context for interpreting the findings.

Finally, the state may collect data to support analyses stratified by key subpopulations of interest (e.g., by sex, age, race/ethnicity, or geography). Such stratified data analyses can provide a fuller understanding of gaps in access to and quality of care and health outcomes, as well as help inform how the demonstration's various policies support improving outcomes.

- **50. Evaluation Budget.** A budget for the evaluation shall be provided with the Evaluation Design. It will include the total estimated cost, as well as a breakdown of estimated staff, administrative and other costs for all aspects of the evaluation, such as any survey and measurement development, quantitative and qualitative data collection and cleaning, analyses and report generation. A justification of the costs may be required by CMS if the estimates provided do not appear to sufficiently cover the costs of the design or if CMS finds that the design is not sufficiently developed, or if the estimates appear to be excessive.
- **51. Interim Evaluation Report.** The state must submit an Interim Evaluation Report for the completed years of the demonstration, and for each subsequent extension of the demonstration, as outlined in 42 CFR 431.412(c)(2)(vi). The draft Interim Evaluation Report must be developed in alignment with the approved Evaluation Design, and in accordance with the requirements outlined in these STCs and applicable CMS guidance.
 - a. The Interim Evaluation Report will discuss evaluation progress and present

findings to date as per the approved Evaluation Design.

- b. For demonstration authority or any component within the demonstration that expires prior to the overall demonstration's expiration date, and depending on the timeline of the expiration/phase-out, the Interim Evaluation Report must include an evaluation of the authority, toto be collaboratively determined by CMS and the state.
- c. If the state is seeking to extend the demonstration, the draft Interim Evaluation Report is due when the application for extension is submitted, or one year prior to the end of the demonstration, whichever is sooner. When applying for an extension of the demonstration, the Interim Evaluation Report should be posted to the state's website with the application for public comment. If the state does not request an extension for a demonstration, the Interim Evaluation Report is due one year prior to the end of the demonstration. For demonstration phase-outs prior to the expiration of the approval period, the draft Interim Evaluation Report is due to CMS on the date that will be specified in the notice of termination or suspension.
- d. The state must submit revised Interim Evaluation Reports 60 calendar days after receiving CMS's comments on the draft Interim Evaluation Report, if any.
- e. Once approved by CMS, the state must post the final Interim Evaluation Report to the state's Medicaid website within 30 calendar days.
- **52. Summative Evaluation Report.** The state must submit the draft Summative Evaluation Report for the demonstration's current approval period within 18 months of the end of the approval period represented by these STCs. The draft Summative Evaluation Report must be developed in alignment with the approved Evaluation Design, and in accordance with the requirements outlined in these STCs and applicable CMS guidance.
 - a. The state must submit a revised Summative Evaluation Reports within 60 calendar days of receiving comments from CMS on the draft Summative Evaluation Report, if any.
 - b. Once approved by CMS, the state must post the final Summative Evaluation Report to the state's Medicaid website within 30 calendar days.
- 53. Corrective Action Plan Related to Evaluation. If evaluation findings indicate that demonstration features are not likely to assist in promoting the objectives of Medicaid, CMS reserves the right to require the state to submit a corrective action plan to CMS for approval. These discussions may also occur as part of an extension process when associated with the state's Interim Evaluation Report, or as part of the review of the Summative Evaluation Report. A corrective action plan could include a temporary suspension of implementation of demonstration programs, in

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- **54. State Presentations for CMS**.CMS reserves the right to request that the state present and participate in a discussion with CMS on the Evaluation Design, the Interim Evaluation Report, or the Summative Evaluation Report.
- **55. Public Access**. The state shall post the final documents (e.g., Annual Monitoring Report, Close-Out Report, Evaluation Design, Interim Evaluation Report, and Summative Evaluation Report) on the state's Medicaid website within 30 calendar days of approval by CMS.
- 56. Additional Publications and Presentations. For a period of 12 months following CMS approval of the final reports, CMS will be notified prior to presentation of these reports or their findings, including in related publications (including, for example, journal articles), by the state, contractor, or any other third party directly connected to the demonstration, over which the state has control. Prior to release of these reports, articles or other publications, CMS will be provided a copy including any associated press materials. CMS will be given 3030 calendar days to review and comment on publications before they are released. CMS may choose to decline to comment or review some or all of these notifications and reviews. This requirement does not apply to the release or presentation of these materials to state or local government officials.

57. Schedule of Demonstration Deliverables

Deliverable	Timeline	STC Reference
State acceptance of demonstration Waivers, STCs, and Expenditure Authorities	No later than 30 calendar days after demonstration approval date.	Approval Letter
Evaluation Design	No later than 180 calendar days after approval of the demonstration. Revised no later than 60 days after	STCs 47 and 48
	receipt of CMS comments.	
Interim Evaluation Report	One year prior to the end of the demonstration period, or when the extension application is submitted, whichever is sooner.	STC 51

	Revised no later than 60 days after	
	receipt of CMS comments.	
Summative Evaluation	No later than 18 months after the end of	STC 52
Report	the demonstration period.	
	Revised no later than 60 days after	
	receipt of CMS comments.	
Close-Out Report	No later than 120 calendar days after	STC 42
(applicable if	expiration of the demonstration.	
demonstration or		
demonstration component		
expires)		
Annual Monitoring Report	No later than 180 calendar days after the	STC 40
	end of each demonstration year.	
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Attachment A Approved Healthy Behaviors Protocol

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Section 1115 Eligibility and Coverage Demonstration Implementation Plan: Healthy Behaviors Program Protocol for the Iowa Wellness Plan

Overview: Iowa's Healthy Behaviors Program is designed to influence how consumers interact with their health care system, emphasizing primary care access and utilization. The Healthy Behaviors Program is designed to reward members through encouraging completion of healthy behaviors by rewarding them with waiver of contributions (premiums) in subsequent enrollment periods.

Stakeholder Engagement in Protocol Development

lowa began engaging stakeholder input for the lowa Health and Wellness Plan by holding public hearings and education sessions prior to implementation. Each hearing included initial details regarding the Healthy Behaviors Program, with the specific activities added into the discussion once finalized. Two public hearings were held in July 2013. Thereafter, another six public hearings were held statewide in conjunction with the State Innovation Model grant outreach. Each session was attended by a variety of community members, providers and stakeholder organizations.

lowa has also undertaken an extensive and comprehensive stakeholder approach as part of the State Innovation Model (SIM) Design Grant project in the summer and fall of 2013. A broad spectrum of stakeholders were involved, including providers, payers, physicians, practitioners, managed care organizations, and state agencies like Iowa Department of Public Health and Iowa Department on Aging.

lowa also sought consumer input through two specific Consumer Focused workgroups and a series of public meetings called Listening Sessions. One workgroup was tasked with identifying goals and approaches to engaging members in their own health care and encouraging them to be active participants in becoming healthier. All workgroups discussed the importance of member engagement strategies and specifically the Healthy Behaviors Program for the lowa Health and Wellness Program.

The SIM stakeholder process, a list of stakeholder participants, meeting agendas, meeting minutes, workgroup summaries and the State Healthcare Innovation Plan are all available at:

https://dhs.iowa.gov/ime/about/initiatives/newSIMhome.

lowa also sought input from the Patient-Centered Health Advisory Council and presented the 2014 Healthy Behavior Program for Iowa Health and Wellness Plan at the November 15, 2013 meeting.

Additional stakeholder feedback has been received throughout the fall of 2013 with a variety of organizations. A special meeting of the Medical Assistance Advisory Council (MAAC) was held on August 15, 2013. This session focused on details on the lowa Health and Wellness Plan, and included a discussion on the Healthy Behavior programs. On November 21, 2013, the Healthy Behaviors were again

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discussed with the full MAAC membership. The meeting was open to the public. The Healthy Behaviors, including member outreach and education, was a key topic of the MAAC Executive Committee meeting in April 2014, and the full council meeting in May 2014.

Other key stakeholder organizations have held meetings on the Iowa Health and Wellness Plan, all meetings including discussion of the Healthy Behaviors Program. Some of the organizations include:

- Iowa Hospital Association
- Iowa Mental Health Planning Council
- Epilepsy Foundation
- Coalition for Family and Children's Services
- Iowa Behavioral Health Association
- Iowa Primary Care Association
- Visiting Nurse Services of Iowa
- Iowa Safety Net Providers
- Iowa State Association of Counties
- Susan G. Komen Foundation, lowa Chapter
- Family Development and Self Sufficiency Program
- Iowa Rural Health Association
- AmeriCorps

Further, Iowa accepted written comments from the Child and Family Policy Center. Specifically related to the HRA requirement, the IME decided to use the HYH tool after meeting with various stakeholders including the following:

•	Coventry Health Care of Iowa	November 26,2013
•	CoOportunity Health	December 5, 2013
•	University of Iowa Public Policy Center	December 6, 2013
•	The University of Iowa Alliance	December 17, 2013
•	UnityPoint Health	December 19, 2013
•	Meridian Health Plan	December 19, 2013
•	Treo Solutions	December 24, 2013

From the stakeholders who are provider entities, the IME learned that, if the entity uses an HRA, it is to gauge their members' health status and to subsequently implement incentives to encourage healthier behaviors with the long-term goal of reducing health care costs.

The University of Iowa Public Policy Center provided HRA research consistent with the information presented by the provider entities. The research showed that HRA are helpful to engage patients in their care and help primary care practices and patients work in close cooperation. Additionally, the IME found that HRAs have been widely used in employer sponsored plan for a number of years as a means to control costs.

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Contribution Waiver for Healthy Behaviors Program

lowa has designated completion of a Health Risk Assessment (HRA) and a wellness exam as the healthy behaviors that will qualify members for waiver of their contributions in their subsequent enrollment period. There are no contributions charged for the first year of enrollment.

Healthy Behavior 1: Completion of a HRA

In an effort to improve patient outcomes and engage members in their health care, the Managed Care Organizations (MCOs) have developed HRAs. The HRAs include questions regarding hospital visits, chronic diseases, and social determinants of health. The HRA can be completed by mail, fax, online, or by phone to the MCO. The MCOs are required to conduct a comprehensive assessment if a special health care need is identified in the HRA. The MCOs help the member set up appointments with a primary care provider if needed.

Healthy Behavior 2: Completion of a Wellness Exam

Members are encouraged to complete an annual preventive wellness exam or a dental exam as part of an emphasis on pro-active healthcare management. Wellness exam have been defined by the following codes:

New Patient CPT Codes	Esta	ablished Patient CPT Codes
99385 18-39 years of age	99395	18-39 years of age
99386 40-64 years of age	99396	40-64 years of age

Dental examination codes that can also meet the requirements of a wellness exam are:

Code	Description
D0120	Periodic Oral Evaluation
D0140	Limited Oral Examination
D0150	Comprehensive Oral Examination
D0180	Comprehensive Periodontal Exam

As mentioned above, IME will ensure members who have completed their healthy behaviors are not charged contributions in their second year of enrollment. IME receives files from the MCOs to update the IME system that the healthy behaviors have been completed and this will be reported through the Quarterly Progress reports. Members will be given their first enrollment year and an additional 30-day grace period to qualify to have their contributions waived in their subsequent enrollment year. During this grace period, members will also be given the opportunity to self-report completion of the wellness exam.

Beneficiaries who are exempt from premiums are those who are medically exempt, Alaska Native/American Indian, and those in Health Insurance Premium Payment

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(HIPP). Women who are pregnant at the time of application or at the time of redetermination are placed in the Mothers and Children category for Medicaid. If a woman becomes pregnant while on the IWP and notifies the state of her pregnancy has a choice of IWP or Medicaid. If a pregnant woman remains on IWP, the state has identified that pregnant women are not being excluded for premiums. The state will be updating programming to correct this.

If the member indicates on the application that they are American Indian/Alaska native, this then triggers the enrollment system to exclude them from premium payments. The member may also call in to member services to notify us of their race. Providers can also call in and share this information.

System programming in underway to capture and track when beneficiaries have reached the premiums aggregate cap (quarterly aggregate cap of 5 percent of household income) through the claim and contribution system. The system will provide reports on a monthly basis to identify when the 5% cap has been met. Should the programming not be in production when the waiver for collecting contributions expires at the end of the public health emergency, a manual backup plan is being outlined.

Premium/Contribution Protocols

During their first year of eligibility, all members will be exempt from any contribution payments. This will permit the member the opportunity to 1) gain an understanding of the Healthy Behaviors Program and 2) to complete those Healthy Behaviors that will qualify the member for contribution waiver in the second year of eligibility. In each enrollment year that the member completes the Healthy Behaviors, the member will qualify to have their contributions waived in the subsequent year.

Regardless of whether they complete their Healthy Behaviors, the following members will be exempt from contribution payments:

- Persons with income at or below 50 percent the Federal Poverty Level (FPL)
- Persons with a Medically Exempt (Medically Frail) status
- American Indians/Alaska Natives
- Health Insurance Premium Payment (HIPP) enrollees

Members who do not complete their Healthy Behaviors during the first year of enrollment will be subject to the contribution payments in their second year of enrollment. Contributions will be charged as follows:

- Persons with income >50–100 percent of the FPL = \$5 monthly contribution
- Persons with income from >100-133 percent of FPL = \$10 monthly contribution

The IME will give members a 30 day grace period after their enrollment year to complete their Healthy Behaviors and qualify for contribution waiver. After that time,

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if the member has not qualified for contribution waiver, the IME will begin sending monthly billing statements including a hardship exemption request form. The billing statement will be mailed to the member prior to the first day of the month in which the contribution is due. Members will have until the last day of the contribution month to either mail in their contribution or request a hardship exemption for the month. Members may pay by check, money order or online through the IME Click Pay site. Directions of where to mail the contribution, how to request a hardship exemption, and who to call with questions will be clearly detailed on the billing statement. A hardship exemption can be requested by checking the hardship exemption on the billing statement or by calling the IME. No documentation is needed to claim a hardship exemption. Unpaid contributions will be reflected on the member's next monthly billing statement.

For individuals at or below 100% FPL, unpaid contributions will not, however, result in termination from the Iowa Wellness Plan.

For members with income over 100% FPL, if a member fails to pay any monthly contributions after a 90 day grace period, the IME will terminate the member's enrollment status. The member's outstanding contribution will be considered a collectible debt and subject to recovery. A member whose benefits are terminated for nonpayment of monthly contributions must reapply for Medicaid coverage. The IME will permit the member to reapply at any time, however, the member's outstanding contribution payments will remain subject to recovery.

After the 90 day grace period, unpaid premiums may be considered a collectible debt owed to the State of Iowa and, at state option, subject to collection by the state, with the following exception: If, at the member's next annual renewal date, the member does not apply for renewed eligibility, and the member has no claims for services delivered after the month of the last premium payment, unpaid premiums shall not be considered a collectible debt by the state.

Year Two and Subsequent Years

If the member completed the healthy behaviors listed above, then the contribution is waived for the second year. The member must complete the healthy behaviors in year two and subsequent years to have the contribution waived in the next enrollment year.

Systems Monitoring

Information collected on the HRA assess a member's physical, behavioral, social, functional, and psychological status and needs. It determines the need for care coordination, behavioral health services, or any other health or community services. The HRA complies with the NCQA standards for health risk screenings.

If the HRA identifies a special health care need is identified the member is referred to non-waiver case management. The member is then assessed

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using a complex care/comprehensive care assessment. Case management is explained to the member and those who consent are place in the case management program.

The IME Medicaid Management Information System (MMIS) has been coded to detect all persons who are mandatorily exempt. The MMIS is also coded to capture those members who complete both a wellness exam and an HRA during a twelve month period of continuous enrollment in the IWP. Ensuring a member has twelve months of continuous enrollment prior to being subject to monthly contributions will avoid any unintended harm to the member if the member's coverage options change periodically (aka churn). For example, there may be situations wherein the member loses IWP eligibility if they become eligible for another Medicaid program, gain access to employer sponsored insurance (ESI), or their economic situation improves such that they can access insurance through the Health Insurance Marketplace. If the member churns back to the IWP, the MMIS system will detect that the member had a break in coverage and has not had twelve months of continuous coverage in the IWP and will therefore not be subject to monthly contributions. Essentially, a break in the member's coverage will begin a new twelve month period during which the member will be exempt from contributions. See the examples below:

Example: Member A

- 01.01.19 enrolled in IWP
- 07.01.19 gains access to ESI and is disenrolled from IWP
- 09.01.19 loses access to ESI, applies for Medicaid and is determined eligible for IWP.

Member A did not have 12 months of continuous IWP eligibility. Member A will be exempt from monthly contributions during his enrollment period that begins 09.01.19. Member A will have 12 full months to complete a wellness exam and HRA to continue to be exempt from monthly contributions in the next enrollment year.

Example: Member B

- 01.01.18 enrolled in IWP
- 12.31.18 Member B does not complete healthy behaviors; at re- enrollment she is determined eligible for Mothers and Children (MAC) program
- 01.01.19 12.31.19 Member B has MAC coverage
- 01.01.20 Re-enrollment determines Member B is eligible IWP.

Although Member B had 12 months of IWP coverage, there has been a 12 month break in that coverage. Member B will be exempt from monthly contributions and have 12 full months to complete a wellness exam and HRA to continue to be exempt from monthly contributions in the next enrollment year.

Iowa Wellness Plan Approval Period: January 1, 2020 through December 31, 2026 Amended: November 28, 2025 Information collected on the HRA assess a member's physical, behavioral, social, functional, and psychological status and needs. It determines the need for care coordination, behavioral health services, or any other health or community services. The HRA complies with the NCQA standards for health risk screenings.

If the HRA identifies a special health care need is identified the member is referred to non-waiver case management. The member is then assessed using a complex care/comprehensive care assessment. Case management is explained to the member and those who consent are place in the case management program.

Managed Care Organizations (MCOs) are provided flexibility in methods for monitoring healthy behaviors at the provider level, including standards of accountability for providers. For example, one MCO provides access to completed HRA data via its provider portal and providers are educated on their accountability for accessing this assessment and working to improve these unhealthy behaviors during their annual wellness exam and any follow up visits as necessary. Additionally, many providers are engaged in value-based contracts which incentivize quality performance through meeting established metrics around HEDIS data, which focuses heavily on preventive care for members in alignment with the Healthy Behavior requirements.

Medically Exempt

Individuals who otherwise qualify for IWP but who need specialized medical services due to complex medical conditions or mental, physical or developmental disorders will be eligible for more comprehensive coverage through lowa's traditional Medicaid program. This is referred to as being Medically Exempt.

lowa uses the term 'Medically Exempt' to define the Federal definition of 'Medically Frail'. 'Medically Frail' includes: individuals with disabling mental disorders (including adults with serious mental illness), individuals with chronic substance use disorders, individuals with serious and complex medical conditions, individuals with a physical, intellectual or developmental disability that significantly impairs their ability to perform 1 or more activities of daily living, or individuals with a disability determination based on Social Security criteria.

Members or their providers can complete a survey either by phone, fax or mail for the IME to determine if the member meets the definition of Medically Exempt. If the member is Medically Exempt, the member will have the full Medicaid benefits the next month after determination. More information and the survey instrument can be found at:

https://dhs.iowa.gov/sites/default/files/Medically%20Exempt%20Toolkit.pdf?012220201532.

Once a member becomes Medically Exempt, the member remains Medically Exempt for life for purposes of exemption from premium requirements and enrollment in State Plan benefits.

Debt Collection

The IME has initiated a debt collection process. The state has a premium payment system that tracks all invoices, payments and non-payments. When an IWP member's premium becomes ninety (90) days past due and the amount owed is \$50 or greater, the debt collection is sent to the lowa Department of Revenue (IDR). IDR then attempts to collect the amount using various methods such as establishing a repayment plan or taking monies from a tax refund. This debt is not reported to credit agencies.

Disenrollment

Before an IWP is disenrolled, the members have received invoice statements that state they may be disenrolled if the contribution is not paid for 90 days. Each invoice includes the months for which the member owes a contribution.

As occurs for all Medicaid eligibility terminations, prior to disenrolling an individual for premium non-payment, the eligibility system conducts an automated determination to confirm whether the individual is eligible for another Medicaid category.

When an IWP member is disenrolled from IWP, the member can reapply for IWP at any time. If the member reapplies in the month of the disenrollment and is eligible for the plan, there would not be a gap in coverage. If the member reapplies after the month of disenrollment and is found eligible for the plan, enrollment would begin the month of the application date.

Appeal Process

A member can appeal the disenrollment from IWP when the contribution is 90 days past due, the amount of the contribution or benefits. The appeal process is the same for IWP as it is for Medicaid. During the appeal process, a member can continue benefits while awaiting the outcome of the appeal. If the member loses the appeal, the member will be responsible for any claims or capitation payments made during that time.

The Quarterly Progress Reports will detail the number and types of appeal received during the reporting quarter.

Communication

Communication about IWP can begin before a person becomes eligible for IWP. The Department's website has a page about IWP at https://dhs.iowa.gov/IHAWP. The page includes information about:

- Who qualifies
- Benefits

- Health Plans
- Healthy Behaviors
- How to Apply
- Find a Provider
- Resources
- Frequently Asked Questions
- Rights and Responsibilities

All mailings are distributed state wide and are available on the Department's website. The website page also tells current members how to make their contribution online or the address to send the payment if they choose not to pay online.

Beneficiaries can report changes by phone, email, fax, or in person. These methods are included in Communication 233, Rights and Responsibilities, which is included in the application form.

Also, the form 'Ten-Day Report of Change for Medicaid/Hawki is available on the DHS website as well as in the Self-Service Portal (SSP). This form also provides the methods for reporting changes. Contact information for the department is also available on the website. Details about the Iowa Wellness Plan are included in both the IA Health Link Member Handbook and the Fee-for-Service Member Handbook. These details include an overview of the program, covered benefits, Healthy Behaviors requirements and information about monthly contributions.

Both the IA Health Link and Fee-for-Service member handbooks are available on the DHS website in both English and Spanish. Should a member need information in another language, they can use the state's Interpreter Services by calling Iowa Medicaid Member Services.

A flyer with information about how to access the member handbook is included in the welcome packet that is mailed to new Medicaid enrollees.

The IME utilizes computer software to determine the reading level of all communication sent to members.

If the member has not completed the healthy behavior activities two months prior to the end of the member's first enrollment period, the MCOs send a notice to the member about completing these healthy behaviors. The notice is member specific, telling the member which or both healthy behaviors still need to be met to qualify for the exemption of contributions.

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IWP members in their second and subsequent years who did not complete the healthy behaviors during the prior enrollment period are sent an invoice on the first of each month. The invoice tells them when their contribution is due, how to pay the contribution either online or by mail, how to claim a financial hardship and the consequences for not paying the contribution each month.

New information about IWP is communicated through the Department's website, Medicaid e-news, newsletters and direct letters to IWP members.

Beneficiaries are notified by mail of any changes in requirements. For example, if the payment amount is recalculated, the beneficiary will receive a payment statement indicating the new payment amount. If other changes occur, the MCOs and the state work together to provide communication to beneficiaries.

The Notice of Action (NOA) regarding eligibility decisions are mailed to beneficiaries at the time the determination is made. If the determination results in negative action, the NOA is mailed allowing for timely notice of at least ten calendar days.

At any time, a potential member or an eligible member can call or email Medicaid Member Services to get answers to their questions or help to solve any issues with IWP.

The MCOs are required in their contract with the IME to have member and provider incentives in place to increase quality outcomes, encourage utilization of health services and healthy behaviors. The IME is collaborating with the MCOs to further address communication about the completion of healthy behaviors through providers and members.

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Attachment B

Evaluation Design

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Iowa Wellness Plan Updated Evaluation Design

Iowa submitted changes to their approved Evaluation Design for the Dental Wellness Plan component of their section 1115 demonstration, "Iowa Wellness Plan." CMS approved these changes, which can be found on pages 151 – 157 of the approved Evaluation Design, attached herein.

Iowa Wellness Plan Evaluation Design

The University of Iowa Public Policy Center

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Iowa Wellness Plan Evaluation Design

Introduction

This Iowa Wellness Plan Evaluation design provides detailed information for the period July 1, 2020 through December 31, 2024.

The following sections are included in this proposal.

General Background Information about the evaluation

General Data Sources, Analyses Methods, and Measures

Potential impacts of the COVID-19 pandemic

Evaluation time periods

Identifiable limitations with the proposed data and analyses.

Policy Components of the evaluation, as requested by CMS including the goals, hypotheses and research questions, component area methodology as well as the tables listing the outcome measures and analytic approaches and the approaches taken to evaluate them.

- 1) Healthy Behavior Incentives (HBI)
- 2) Dental Wellness Plan (DWP)
- 3) Retroactive Eligibility
- 4) Cost Sharing
- 5) Cost Outcomes and Sustainability
- 6) Waiver of Non-Emergency Medical Transportation (NEMT)
- 7) Iowa Wellness Plan Member Experiences from Increased Healthcare Coverage

Assurance of independent evaluator

Budget

Evaluation timeline and major milestones

Iowa Wellness Plan Approval Period: January 1, 2020 through December 31, 2026 Amended: November 28, 2025

General Background Information

Iowa Wellness Plan

Originally two demonstrations were approved on December 10, 2013, both to start on January 1, 2014: Iowa Wellness Plan (Project Number 11-W-00289/5) and Iowa Marketplace Choice (Project Number 11-W-00288/5). Wellness Plan (WP) was a program operated by the Iowa Department of Human Services providing health coverage for uninsured Iowans from 0-100% of the Federal Poverty Level (FPL) and Marketplace Choice (MPC) was a premium support program for Iowans from 101-133% FPL. These two demonstrations encompassed a bipartisan solution to health care coverage for low-income adults not otherwise eligible for public supports and were put under the common name of Iowa Health and Wellness Plan (IHAWP). More information regarding the formulation and implementation of these two demonstrations can be found online at http://dhs.iowa.gov/ime/about/initiatives/iowa-health-and-wellness-plan.

IHAWP changes

IHAWP was modified in significant ways in the first two years (Table 1). The first major change occurred when CoOportunity Health withdrew as a Qualified Health Plan (QHP) for MPC members at the end of November 2014. Approximately 9,700 CoOportunity Health members were automatically transitioned to Medicaid providers on December 1, 2014 through MediPASS (primary care case management program), Meridian (HMO), or traditional Medicaid (fee-for-service payment mechanism); however, they retained their designation as MPC members. IHAWP members who were not in CoOportunity Health remained in Coventry, the other QHP.

During calendar year 2015, it was mandated that all Medicaid members, including all IHAWP members, were to be placed into one of three managed care organizations (MCOs) beginning January 1, 2016. Due to a three-month implementation delay, IHAWP members previously enrolled with Coventry were placed in the traditional Medicaid FFS program effective December 31, 2015, until the Medicaid Managed Care Organizations (MCOs) began accepting members on April 1, 2016.

Effective January 1, 2016, the MPC program was not renewed. All MPC members were rolled into WP. The Iowa Health and Wellness Plan (IHAWP) became the Iowa Wellness Plan (IWP) covering Iowans not categorically eligible for Medicaid with incomes from 0-133% FPL, During CY 2016 members were enrolled with one of three MCOs: Amerigroup Iowa, Inc; AmeriHealth Caritas, Inc.; or UnitedHealthcare Plan of the River Valley, Inc.

Effective November 30, 2017 AmeriHealth stopped serving as an MCO for Iowa Medicaid. Amerigroup was not prepared to accept the AmeriHealth members, so UnitedHealthcare accepted the transfer of the bulk of AmeriHealth members. Effective June 30, 2019, UnitedHealthcare also exited the Iowa Medicaid program and Iowa Total Care was added.

Waiver of Retroactive Eligibility

An amendment to the IWP demonstration was submitted on August 10, 2017 requesting a waiver of retroactive eligibility for all but pregnant women and children under 1. The waiver was granted on October 27, 2017 with members enrolling on or after November 1, 2017 subject to the waiver. New

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Towa Marketplace Choice Plan Changes, Iowa Department of Human Services, November 2014, Available at: https://dlhs.iowa.gov/sites/default/files/CoOpTransition_FAQ_11052014.pdf, Accessed July 2, 2015.

members were no longer granted 90 days of retrospective enrollment, instead they were guaranteed enrollment from the first day of the month in which they applied. On July 1, 2019 nursing home residents were no longer subject to the waiver. One January 1, 2020 the waiver was renewed for another 5 years and children 1-19 years of age were no longer subject to the waiver.

Table 1, Timeline for Iowa Wellness Plan Development

Date	Change
January 2014	First IHAWP members enrolled
May 2014	MPC members enrolled in Dental Wellness Plan with Delta Dental of Iowa, a three-tiered benefit plan
July 2014	MPC members enrolled in the Healthy Behaviors Incentive Program
November 2014	MPC members in CoOportunity were moved to MediPASS (PCCM program), Meridian (HMO), or Coventry (QHP)
November 2015	MPC members in Coventry were moved to MediPASS or Fee-for-service (MPC component dormant)
December 2015	MPC demonstration ended, WP extended to members 100-133% FPL and renamed Iowa Wellness Plan
April 2016	IWP members moved to one of three MCOs - AmeriGroup Iowa, AmeriHealth Caritas, or UnitedHealthcare Plan of the River Valley
August 2017	All Medicaid adults enrolled in Dental Wellness Plan 2.0 with Delta Dental or MCNA a two-tiered benefit plan
August 2017	lowa files an amendment to the IWP requesting a waiver of retroactive eligibility for all Medicaid programs
November 2017	AmeriHealth Caritas exits Medicaid program
October 2017	CMS officially approves IWP amendment for waiver of retroactive eligibility
November 2017	Waiver of retroactive eligibility begins, including all but pregnant women and children under 1
July 2018	Waiver of retroactive eligibility is amended to remove nursing home residents
July 2019	UnitedHealthcare exits Medicaid program as an MCO Iowa Total Care enters Medicaid program as an MCO
January 2020	Waiver is renewed for 5 years; children 1-19 years of age are removed from the retroactive eligibility waiver

Dental Wellness Plan

DWP 1.0: May 2014 - June 2017

On May 1, 2014, the Iowa began offering dental benefits to Iowa Health and Wellness Plan (IHAWP) members through the CMS-approved Dental Wellness Plan (DWP). Originally, DWP offered tiered dental benefits to the state's Medicaid expansion population (ages 19 to 64) with members earning enhanced benefits by returning for regular periodic recall exams every 6-12 months (DWP 1.0).

Three years later, on May 1, 2017, the State of Iowa proposed a waiver amendment to be effective July 1, 2017 that redesigned DWP as an integrated dental program for all Medicaid enrollees aged 19 and over.

DWP 2.0: July 2017 - June 2024

Benefit Design

Along with merging dental benefits into a single program, the 1115 waiver amendment also modified the DWP benefit structure. Originally, the DWP incorporated an earned benefits model. Medicaid enrollees were eligible for the same set of benefits; however, they did not have the same requirements for recall exams. The DWP 2.0 structure eliminates the tiered benefits in response to concerns that too few members had become eligible for Tiers 2 and 3. Comprehensive dental benefits are available to members in the DWP 2.0 during their first year of enrollment.

The modified earned benefit structure in DWP 2.0 requires members to complete State designated "healthy dental behaviors" annually in order to maintain comprehensive dental benefits after the first year of enrollment. Healthy dental behaviors include completion of an oral health self-assessment and a preventive dental visit.

Cost Sharing

Previously, adult Medicaid enrollees in the fee-for-service program were responsible for a \$3.00 visit copayment; however, there is no copayment required for dental services in the DWP 2.0. However, members with incomes over 50% of the Federal Poverty Level (FPL) who do not complete the required healthy dental behaviors during their first year of enrollment will have a premium obligation beginning in year two. If members fail to make monthly \$3 premium payments, benefits will be reduced to basic coverage benefits only. Certain DWP members (e.g., pregnant women) are exempted from the premium obligations and reduced benefits for failure to complete the healthy dental behaviors.

Consistent with the previous Medicaid State Plan and DWP 1.0, there was originally no annual maximum with DWP 2.0. However, beginning September 1, 2018, a \$1,000 annual maximum was implemented for the DWP program.

Delivery System

DWP 2.0 benefits are provided by a managed care delivery system via Prepaid Ambulatory Health Plans (PAHPs). The State is currently contracted with two PAHPs to deliver DWP benefits; Delta Dental of Iowa and MCNA Dental. Beginning July 1, 2017, all adult Medicaid enrollees were transitioned from the fee-for-service delivery system to one of these two PAHPs; existing Medicaid enrollees were assigned evenly between the two plans. Going forward, newly eligible individuals are also assigned evenly between the two plans. Members have the option to change PAHPs within the first 90 days of enrollment without cause.

Healthy Behaviors Incentives

One unique feature of the IWP is the Healthy Behaviors Incentive Program (HBI). Starting in 2015, IWP members who are above 50% of the Federal Poverty Level (FPL) could avoid paying a monthly premium for their insurance after their first year of coverage by participating in the HBI. Individuals who are at 0-50% of the FPL are not required to pay monthly premiums. The HBI requires members to have a yearly medical or dental exam (a wellness visit) and complete a health risk assessment (HRA) to avoid paying a premium in the following year. If the member does not complete these requirements during their first year of coverage, they may be required to pay a

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monthly premium (\$5 or \$10, depending on income). The member must then pay the monthly premium or claim financial hardship. Members who are above 100% FPL can be disenrolled for failure to pay their premium.

Previous findings

This IWP waiver evaluation design builds upon the findings of the first demonstration result by providing ongoing evaluation of key experiences and outcomes for the expansion population, improving the evaluation design to capture additional information for ongoing policies and undertaking an investigation of new policies that were enacted after the first waiver approval. Reports encompassing the first waiver evaluation can be found at https://ppc.uiowa.edu/health/study/evaluation-iowas-medicaid-expansion-iowa-health-and-wellness-plan.

Related Publications

- Evaluation of the Iowa Wellness Plan (IWP): Member Experiences in 2016
- Evaluation of Provider Adequacy in the Iowa Health and Wellness Plan During the Second Year
- Healthy Behaviors Dis-enrollment Interviews Report: In-depth interviews with Iowa Health and Wellness Plan members who were recently disenrolled due to failure to pay required premiums
- Iowa Health and Wellness Plan Evaluation Interim Report
- Evaluation of Provider Adequacy in the Iowa Health and Wellness Plan during the second year
- Healthy Behaviors Incentive Program Evaluation
- Non-Emergency Medical Transportation Policy Brief
- . Non-Emergency Medical Transportation and the Iowa Health and Wellness Plan
- Evaluation of the Dental Wellness Plan: Member Experiences in the First Year
- Evaluation of Provider Adequacy in the Iowa Health and Wellness Plan During the First Year
- Iowa Dental Wellness Plan: Evaluation of Baseline Provider Network
- Evaluation of the Iowa Health and Wellness Plan: Member Experiences in the First Year
- First Look at Iowa's Medicaid Expansion: How Well Did Members Transition to the Iowa Health & Wellness Plan from IowaCare

Additional reports are posted on the Iowa Medicaid Enterprise and University of Iowa Public Policy Center websites as they are approved by CMS and the Iowa Department of Human Services (IDHS).

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General Data Sources, Analysis Methods, and Measures

This section outlines the general methodologic approaches taken throughout the seven policy components (Healthy Behavior Incentives; Dental Wellness Plan; Retroactive Eligibility; Cost Sharing; Cost and Sustainability; Waiver of Non-Emergency Medical Transportation; and IWP Member Experiences). The methods specific to policy questions are included with each component. Each section describing the evaluation of the policy component will provide detailed descriptions of the related hypotheses, questions, populations/samples, and methods.

Evaluation Design

This evaluation design is complex and rigorous, encompassing up to 11 years of administrative and survey data. For many hypotheses we will be able to take advantage of pre- and post-implementation data at both the state and national level. We have also 1) built in more comparisons to other states, 2) increased our collection and utilization of Social Determinants of Health (SDOH) data, 3) added process measure collection and analysis, and 4) improved processing, maintenance, and use of the Medicaid data lake. Additionally, with the COVID-19 pandemic occurring during the first year of the renewal period, there are multiple adaptations we are considering for analytical strategies to reflect related changes in Medicaid policies, the health care system and population norms around health services need and utilization.

The State will work within policies and procedures established under the Iowa Code to contract with an independent entity to complete the evaluation activities. In the past, The University of Iowa Public Policy Center (UI PPC) has conducted many independent evaluations of Medicaid changes (please see: http://ppc.uiowa.edu/health). We fully anticipate that the PPC will meet the requirements of an independent entity under these policies and procedures. In addition, the University of Iowa brings the ability to meet the prevailing standards of scientific and academic rigor as appropriate and feasible for each aspect of the evaluation, including standards for the evaluation design, conduct, and interpretation and the reporting of findings. The PPC has in the past, and will continue to 1) use the best available data; 2) use controls and adjustments for limitations of the data, 3) report the effects of limitations on results; and 4) discuss the generalizability of results.

Target and Comparison populations

The current Iowa Wellness Plan program evolved into one demonstration from two separate but linked demonstrations on January 1, 2016 as outlined in Table 1. This change provides multiple possibilities for comparison groups over the life of the demonstration (January 1, 2014 through December 31, 2024). The groups described below may be utilized as target or comparison groups to test the hypotheses within the various components of the evaluation. The descriptions and information provided below are designed to provide a general understanding of the IWP population and population groups that may be used for comparison. All estimates are based on the most recent month for which data exists or CY 2019. Specific comparisons are included in the sections detailing the methods for the evaluation of the policy components.

Target population: Iowa Wellness Plan Members

Iowa Wellness Plan (IWP) members are the primary target population for this evaluation (except for Retroactive Eligibility). IWP members are between 19 and 64 years of age, are not categorically

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eligible for any other Medicaid program, and have incomes between 0-133% of the Federal Poverty Level (FPL). Due to the evaluation's complexity, there are number of subsets to this target population described within the policy component sections.

January 2014-December 2015 (Original Iowa Health and Wellness Plan)

Iowa Wellness Plan originally included members enrolled in either Wellness Plan or Marketplace Choice. These plans included the following enrollment pathways and had the plan options listed below.

Wellness Plan enrollment pathways

- People previously enrolled in a limited benefit plan (IowaCare) who had incomes from 0 to 100% FPL.
- People who were not enrolled in a public insurance program but met the income eligibility criterion (0-100% FPL) could actively enroll.

Wellness Plan options

HMO: Until December 31, 2015, Meridian Health Plan was the only Medicaid HMO option in the state, operating in 29 counties in Iowa. It was available to Wellness Plan members in these 29 counties, where approximately half of the members were initially assigned to the HMO (e.g., the PCP option mentioned below). Members had the option to change from the HMO to other options available in their county. Though Meridian began operating in Iowa in March 2012, the plan was not awarded a contract under the IA Health Link managed care program.

Wellness Plan PCP: Operated through the Iowa Medicaid Enterprise, the PCP option was available in 88 counties statewide. Members were assigned a primary care provider (PCP) who was reimbursed \$8 per member per month to manage specialty and emergency care for these patients. PCP assignment within the HMO or PCP was based on history of enrollment with a provider, provider closest to home, and appropriate provider specialty. Members had the option to change the assigned provider.

Fee-for service: Members in the 11 counties with no managed care option (HMO or PCP) were part of a fee-for-service program, not actively managed by the state or another entity.

Marketplace Choice enrollment pathways

- People previously enrolled in a limited benefit plan (IowaCare) who had incomes from 101 to 133% FPI.
- People who were not enrolled in a public insurance program but met the income eligibility criterion (101-138% FPL) could actively enroll through the Marketplace.

Marketplace Choice options

People enrolled in Marketplace Choice were given a choice of two Qualified Health plans that both operated in all 99 Iowa counties.

CoOportunity Health was a non-profit co-operative health plan offered on the Health Insurance Marketplace through the federal government portal. It was established with start-up funds provided through the ACA, and operates statewide in Iowa and Nebraska, in alliance with HealthPartners of Minnesota and Midlands Choice provider network.

Coventry Health Care was a "diversified national managed care company based in Bethesda, MD". They were also operating statewide and available on the Health Insurance Marketplace through the federal portal.

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Medically Frall IWP members

Wellness Plan options were available for Marketplace Choice members who were deemed 'Medically Frail'. The broader range of options provided more access to behavioral health services and eliminated copay and premiums. Members deemed 'Medically Frail' are removed from the study population for most analyses and will either be considered a comparison population or additional target population, depending on the analytical strategy selected in each topic area.

January-March 2016

Enrollment continued for Wellness Plan and Marketplace Choice during January-March 2016. However, all Medicaid members were placed into fee-for-service as the IA Health Link managed care program was implemented.

April 2016-present

On January 2016 Wellness Plan and Marketplace Choice merged to create Iowa Wellness Plan (IWP). Adult Iowans with 0-133% FPL who were not categorically eligible for Medicaid were eligible for IWP. Beginning April 1, 2016 all Medicaid members (with few exceptions such as PACE), were enrolled with one of three Medicaid Managed Care Organizations operating throughout Iowa: AmeriGroup Iowa, AmeriHealth Caritas, or UnitedHealthcare Plan of the River Valley. There have been changes to the MCOs over time with AmeriHealth Caritas ending their contract in November 2017, UnitedHealthcare Plan of the River Valley choosing not to renew their contract in July 2019 and Iowa Total Care executing a contract in July 2019. These changes make it important to control for which MCO a member is enrolled with as we look at outcomes that may be affected by MCO policies, quality assurance activities, and reimbursement strategies.

Comparison population: IowaCare

IowaCare was a limited provider/limited benefit program operating from 2005-2013.

Pre-IWP implementation: CY 2011-2013

The provider network included 1) a public hospital in Des Moines, 2) the largest teaching hospital in the state and 3) 6 federally qualified health centers. IowaCare enrolled adults, not categorically eligible for Medicaid, with incomes up to 200% FPL.

IowaCare was replaced by the Wellness Plan (WP) and Marketplace Choice (MPC) options. Table 2 details WP and MPC members by demographic characteristics and whether they were auto enrolled from IowaCare. Columns 1 and 2 provide the number of WP and MPC members who have pre-IWP experience through IowaCare (41,088 and 8,188, respectively). Columns 3 and 4 provide the number of WP and MPC members who were first enrolled through IWP and had no experience in Medicaid or IowaCare at the start of IWP (77,446 and 26,780, respectively). By the close of CY 2014 there were over 35,000 Marketplace Choice members and nearly 120,000 Wellness Plan members.

Table 2. Wellness Plan and Marketplace Choice members by IowaCare autoenrollment (CY 2014)

	Auto enrolled from IowaCare		Not auto enrolled from IowaCare	
	Enrolled in Wellness Plan N (%)	Enrolled in Marketplace Choice N (%)	Enrolled in Wellness Plan N (%)	Enrolled in Marketplace Choice N (%)
Gender				
Female	20,673 (49%)	5,290 (60%)	39,860 (52%)	16,539 (62%)
Male	21,211 (51%)	3,528 (40%)	37,586 (48%)	10,241 (38%)
Race				
White	21,866 (52%)	4,587 (52%)	52,386 (68%)	18,399 (69%)
Black	3,183 (8%)	465 (5%)	6,310 (8%)	1,529 (6%)
American Indian	329 (1%)	52 (1%)	1,130 (2%)	272 (1%)
Asian	553 (1%)	138 (2%)	1,567 (2%)	683 (3%)
Hispanic	788 (2%)	224 (3%)	2,950 (4%)	1,350 (5%)
Pacific Islander	35 (<1%)	12 (<1%)	396 (1%)	293 (1%)
Multiple-Hispanic	270 (1%)	60 (1%)	739 (1%)	264 (1%)
Multiple-Other	116 (<1%)	27 (<1%)	622 (1%)	220 (1%)
Undeclared	14,744 (35%)	3,253 (37%)	11,346 (15%)	3,770 (14%)
Age				
18-21 years	1,355 (3%)	272 (3%)	7,314 (9%)	1,781 (7%)
22-30 years	9,699 (23%)	1,732 (20%)	22,228 (29%)	8,305 (31%)
31-40 years	8,627 (21%)	1,773 (20%)	17,624 (23%)	7,310 (27%)
41-50 years	10,378 (25%)	1,976 (22%)	14,018 (18%)	4,592 (17%)
51 and over	11,825 (28%)	3,065 (35%)	16,262 (21%)	4,792 (18%)
County rural/urban				
Metropolitan	26,530 (63%)	5,451 (62%)	46,293 (60%)	15,466 (58%)
Non-metropolitan, urban	1,667 (4%)	420 (5%)	3,448 (5%)	1,408 (5%)
Non-metropolitan, rural	13,687 (33%)	2,947 (33%)	27,705 (36%)	9,906 (37%)
Total members	41,884	8,818	77,446	26,780

Comparison population: Family Medical Assistance Plan (FMAP) Members

The FMAP group is composed of adult parents/guardians of children in Medicaid in families with incomes less than 50% FPL.

Pre- and post-IWP implementation: CY 2011-2015

HMO: Meridian Health Plan is an HMO option for State Plan enrollees eligible because of low income in 29 counties. Members have the option to change their assigned provider.

MediPASS PCCM: Iowa Medicaid State Plan has had a Primary Care Case Management (PCCM) program called MediPASS-(Medicaid Patient Access to Services System) since 1990. This program was available in 93 counties and had approximately 200,000 members. In counties where managed care was available, new enrollees were randomly assigned to a primary care provider (PCP) within either the PCCM (or the HMO if available in the county). Only members enrolled in Medicaid due to low income enroll in MediPASS.

Fee-for service: Members in the 15 counties with no managed care option are part of a traditional fee-for-service payment structure.

Post-IWP implementation: CY 2016-2024

Enrolled in MCO option April 1, 2016. See discussion under IWP population.

Comparison population: Supplemental Security Income (SSI)

The SSI group is composed of Medicaid State Plan members enrolled due to a disability determination. The FPL for these members may range from 0 to 200%. We utilize this comparison group with caution as Medicaid members enrolled through disability determination may have different trends in cost and utilization than those Medicaid members who enroll due to income eligibility. We expect that their pre-program trends may be steeper. We will test the appropriateness of this comparison group empirically prior to their inclusion in analyses.

Pre- and post-IWP demonstration: CY 2011-2015

The only payment structure for these members was fee-for-service. Enrollees who were enrolled in Medicare are removed from evaluation analyses.

Post-IWP implementation: CY 2016-2024

Enrolled in MCO option April 1, 2016. See discussion under IWP population.

Table 3 below provides the demographics for members enrolled through IWP (not Medically Frail), FMAP, SSI and IWP (Medically Frail) for CY 2019.

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Table 3. Comparison of Target population with three Medicaid comparison groups

	IWP not Medically Frail N (%)	FMAP N (%)	SSI N (%)	IWP Medically Frail N (%)
Gender		300000	111111111111	
Female	95,960 (52%)	43,555 (77%)	17,905 (51%)	14,769 (51%)
Male	88,398 (48%)	12,822 (23%)	16,647 (48%)	13,924 (49%)
Race				and the same
White	109,628 (60%)	34,002 (60%)	22,694 (66%)	20,892 (73%)
Black	16,707 (9%)	7,013 (12%)	4,063 (12%)	1,932 (7%)
American Indian	2,804 (1%)	1,168 (2%)	436 (1%)	628 (2%)
Asian	4,884 (3%)	958 (2%)	257 (1%)	175 (1%)
Hispanic	9,635 (5%)	3,205 (6%)	552 (2%)	714 (2%)
Pacific Islander	977 (<1%)	354 (1%)	53 (<1%)	81 (<1%)
Multiple-Hispanic	2,774 (1%)	1,062 (2%)	312 (1%)	337 (1%)
Multiple-Other	2,125 (1%)	782 (1%)	162 (<1%)	265 (1%)
Undeclared	34,824 (19%)	7,833 (14%)	6,020 (17%)	3,669 (13%)
Age	01,021 (1070)	1,000 (2110)	0,020 (17 70)	0,000 (2010)
19-21 years	22,808 (12%)	2,695 (5%)	1,519 (4%)	744 (3%)
22-30 years	51,106 (28%)	19,442 (35%)	5,496 (16%)	5,938 (21%)
31-40 years	42,471 (23%)	21,717 (39%)	6,066 (18%)	7,570 (26%)
41-50 years	30,260 (16%)	9,914 (18%)	6,368 (18%)	6,648 (23%)
51-64 years	37,713 (21%)	2,609 (5%)	15,103 (44%)	7,793 (27%)
County rural/urban status	577725 (8274)	2,000 (0.0)	10,100 (11,10)	7,7, 20, (27, 33)
Metropolitan	108,464 (59%)	31,765 (56%)	19,576 (57%)	17,248 (60%)
Non-metropolitan, urban	8,748 (5%)	2,725 (5%)	1,529 (4%)	1,208 (4%)
Non-metropolitan, rural	62,734 (34%)	19,847 (35%)	12,139 (35%)	9,876 (34%)
Months eligibility		and the state of the state of		
1-6 months	38,598 (21%)	8,505 (15%)	2,528 (7%)	2,981 (10%)
7-10 months	27,600 (15%)	6,572 (12%)	2,502 (7%)	2,997 (10%)
11-12 months Total	1118,160 (64%) 184,358	41,300 (73%) 56,377	29,522 (85%) 34,552	22,715 (79%) 28,693

Target population: State of Iowa

For a variety of measures data for the entire state will be utilized especially with regard to sustainability, outcomes driven by access to care such as ED use, and long-term effects of utilization changes driven through a focus on primary/preventive care such as avoidable hospitalizations.

As a state, Iowa is considered rural with just over 3 million residents. Of these 60% are between the ages of 19 and 64, 50% are female and 91% are white. The largest minority group in Iowa is Hispanic or Latino with 6%. The Black or African American population represents 4% of Iowans. The median income for Iowans is \$58,000 with 11% of Iowans living in poverty. Over 85% report having a computer with nearly 80% reporting an internet subscription. Out of the 99 counties comprising Iowa, 20 are considered rural with no metropolitan area, and 58 are considered rural with metropolitan area. 21 are considered urban metropolitan.

Comparison population: Other states

The process for identifying comparison states, both that have and have not expanded their Medicaid programs is ongoing. There are many data sources including TMSS, American Community Survey, BRFSS, that can provide data for Iowa and comparison states over time. However, extensive assessment is required during the first year of the evaluation to determine which of these data sources can provide the data needed for each hypothesis and for those datasets, which states are most comparable. As a small state, Iowa may not have enough representation in a dataset to allow analytical comparisons, the MEPS is one such data source that does not include enough Iowans to allow for state level comparisons.

Target population: Provider entities

Throughout the demonstration many policies and reimbursement/utilization strategies have operated through provider entities. For example, the \$8 copayment for non-emergent ED use had to be charged by the ED. Additionally, many provider entities can choose what covered groups they would like to serve. Not all dentists or physicians are willing to see Medicaid members due to restrictive policies or poor reimbursements. Provider entities are an important target population to understand both the process and outcomes of demonstration activities.

Provider entities may include medical offices, dental offices, hospitals, long-term care facilities, and pharmacies.

Comparison population: Provider entities

There are two comparison populations: provider entities prior to the demonstration (CY 2011-2013) and provider entities not engaged in the demonstration. A data lake of Medicaid provider surveys dating back to before the demonstration will provide needed comparison data, however, there may be few provider entities that are not engaged in the demonstration.

Data Availability and Primary Collection

Data Access

The PPC has a data sharing Memorandum of Understanding (MOU) with the State of Iowa to utilize Medicaid claims, enrollment, encounter and provider data for evaluation purposes.

Administrative data

The PPC houses a Medicaid Data Repository encompassing over 300 million claims, encounter and eligibility records for all Iowa Medicaid enrollees for the period January 2000 through the present. Data are assimilated into the repository monthly. 95% of medical and pharmaceutical claims are completely adjudicated within 3 months of the first date of service, while average adjudication for institutional claims is 6 months. The PPC staff also has extensive experience with these files as well as over 20 years of experience with HEDIS measures. The PPC is a member of the National Quality Forum and the Academy Health State-University Partnership Learning Network.

The Medicaid database allows members to be followed for long periods of time over both consecutive enrollment months and periods before and after gaps in coverage due to a unique member number that is retained for at least 3 years after the last enrollment and is never reused.

This allows long-term linkage of member information including enrollment, cost and utilization even if they switch between Medicaid coverage options.

The evaluation strategy outlined here is designed to maximize the use of outcome measures derived through administrative data manipulation using nationally recognized protocols from the National Quality Forum (NQF) and National Committee on Quality Assurance (NCQA) HEDIS.

A synopsis of administrative data types and sources that will be used in this evaluation are provided below.

- Medicaid encounter and claims data
 Contains all claim and encounter data for Medicaid members during the evaluation period.
 The data is housed within the PPC Medicaid data repository and is updated monthly
- Medicaid enrollment data
 Contains data regarding enrollment and eligibility maintenance such as MCO enrollment, presence of an exemption from any demonstration activities, and Housed within the PPC Medicaid data repository with monthly updates
- Medicaid provider certification data
 Housed within the PPC Medicaid data repository with monthly updates

Surveys

Surveys with IWP members and providers will be conducted to provide a consumer perspective and provider perspective about the program. The University of Iowa Public Policy Center (PPC) has extensive experience conducting consumer surveys with Medicaid members, having conducted member surveys for almost thirty years and publishing numerous articles on methods to increase response rates with Medicaid populations. In addition, the PPC participated on the development team for the original CAHPS survey and has been modifying the survey instrument to fit the needs for evaluating Iowa Medicaid waivers for the past 23 years. This experience also provides the evaluation team with access to CAHPS enrollee survey results for comparison purposes where appropriate.

Table 4 shows the different types of surveys that we are proposing for the IWP evaluation. This includes surveys of both members and providers as appropriate to evaluate the impact of the different policy components.

The sample sizes for these surveys, rather than being based on specific power calculations, are based on a combination of the power calculations that were conducted for the national CAHPS surveys (on which we were partners in the development), and our long historical foundation of previous surveys with Iowa Medicaid enrollees so we can predict the respondent numbers we need for sub-group analyses for items that are known. We do not believe it is appropriate to use power calculations for items for which we do not know the prevalence in the population since this is what the power calculations would be based on. We routinely increase our sample size where there is this level of uncertainty.

Table 4. IWP Survey Projects - CY 2021-2024

Survey	Policy Component	Sample Size	Expected Completes	Field Periods*	Incentives
Disenrollment	HBI	TBD	TBD	Rolling monthly thru waiver period	\$2 pre; 20 GC post
HBI Phone	HBÍ	6000	1800	Yearly, beginning in Q1/Q2	\$2 pre; \$10 GC post
HBI Panel	HBL	TBD	TBD	Fall 2021, Fall 2022	\$2 pre; \$10 GC post
DWP Member	DWP	12,000	2400	Every 18 months	\$2 pre; GC lottery
DWP Provider	DWP	1300	585	Every 18 months	\$2 pre
Enrollment Phone	Retroactive Eligibility	5600	1680	Spring 2021-Spring 2022	None
IWP Member	Member experiences; NEMT	4500	900	Every 18 months	\$2 pre; GC lottery
ED Experience	Cost sharing	600	300	CY 2022	None

^{*}The schedule for the conduct of these surveys may be modified as appropriate based on changes in policies for the IWP; both for policies changed to respond to the COVID pandemic and for routine policy changes implemented by the lowa Medicaid Enterprise.

Interviews

Several types of interviews/focus groups will be used as part of the process evaluation of the IWP. These include:

- Medicaid member interviews
 Data and results from previous structured telephone interviews with subsets of
 Medicaid members are house at the PPC. Telephone interviews will be designed and
 fielded as needed for the policy components.
- Medicaid program staff and contractors
 Medicaid program staff and contractors will be engaged to provide a more complete
 examination of demonstration implementation and ongoing activities and adjustments.
 Staff and contractors may participate in varying data collection strategies including in person interviews, focus groups and surveys. This process evaluation approach was
 most recently utilized in the PPC evaluation of the State Innovation Model (SIM).

Additional secondary data sources

The additional sources of local and national secondary data listed below will be used to improve the evaluation of IWP providing a broader perspective on certain aspects of the program.

- State and local secondary sources such as letters to providers, webpages, newsletters, and notices to members have been collected and stored. These will continue to be collected to provide context to the evaluation.
- Iowa inpatient and outpatient hospital claims data
 The Iowa Hospital Association houses all hospital claims (inpatient and outpatient) for the state of Iowa. These data are available for the period 2013-present. Currently PPC houses the data for 2013-2017.
- 3. Possible national-level data sources
 - Healthcare Cost and Utilization Project (HCUP)
 https://www.hcup-us.ahrq.gov/HCUP Overview/HCUP Overview/index.html

 Annual claims for 37 states from 2006-2017 lacking location information, Can buy state specific database with zipcode location for ~\$800 per state per year.
 - Transformed Medicaid Statistical Information System (T-MSIS) https://www.medicaid.gov/medicaid/data-and-systems/macbis/tmsis/index.html Claims from all state Medicaid programs, 2013-2016 with location information. However, due to changes in 2015-2018 there are only a handful of states that match lowa's cutover date from TMAX to TMSIS. Data is obtained through ResDAQ. PPC has obtained Medicare data from ResDAQ in the past and maintains a secured server for these data.
 - Behavioral Risk Factor Surveillance System (BRFSS)
 https://www.cdc.gov/brfss
 Annual national survey from 1995-2018. Oversampling in Iowa provides an opportunity to compare to other states either through aggregate statistics easily obtainable on the web or through securing the more detailed, state-level datasets.
 - County Health Rankings and Roadmaps (CHRR) https://www.countyhealthrankings.org

 These annual (2011-2019) data ranking for each county in the US are compiled from other data sources and may provide needed county-level SDOH.
 - American Community Survey (ACS)
 https://www.census.gov/programs-surveys/acs
 An ongoing survey providing information about the economy, healthcare, housing and other topics designed to help public health officials and planners.
 - NCQA Quality Compass
 The PPC has purchased the NCQA Quality Compass data for commercial and Medicaid providers in the past. We will also investigate the advantage of utilizing CAHPS through AHRQ.
 - Iowa Medicaid Social Determinants of Health Data
 The Iowa Medicaid Enterprise is beginning to collect SDOH data on enrollees. The data
 is still in the testing phase, but we will request access if the data becomes available
 during the evaluation period.

Data analyses

The four major analytical strategies used in this evaluation are listed below. Each will be described in more detail within the specific policy component evaluation section.

- 1) Process measures
 - a) Content analyses
 - b) Document analyses
- 2) Bivariate analyses
 - a) Parametric methods, e.g., paired and two-sample t-tests (or means tests)
 - Non-parametric methods, e.g., Wilcoxon signed-rank tests, chi-square test of independence
- 3) Multivariate modelling
 - a) Comparative Interrupted Time Series (CITS including Difference-in-Difference-(DID))
 - i) OLS for continuous dependent variables
 - ii) Maximum likelihood estimators (logit or probit) for binary dependent variables
 - iii) Special regressor method for binary dependent variables with endogenous regressors
 - b) Zero-inflated (modified) Poisson Regression for count dependent variables
 - c) Survival analyses
 - d) Other supplementary techniques
 - i) Matching methods (propensity scores, coarsened exact matching)
 - ii) Inverse probability of treatment weights
- 4) Qualitative analyses

Data Limitations and Considerations

There are five primary sets of limitations within this evaluation: 1) those related to primary data, 2) limitations of secondary data, 3) program selection bias, 4) study populations, and 5) COVID-19 considerations.

Primary Data

Primary data collection is based on self-reported information and the recall of the member. This can result in recall bias. Whenever possible, we utilize multiple methods to address hypotheses. Coupling primary data collection with secondary data collection and qualitative data provides an opportunity to describe and analyze hypotheses more fully.

Past surveys and interviews with Medicaid members in Iowa, and across the nation, have low response rates, ranging from 20-40%. Non-response bias tests will be conducted to determine if the characteristics of respondents differ significantly from non-respondents on measured qualities. COVID-19 poses a unique set of limitations that are discussed below.

Secondary Data

Administrative data are collected for billing and tracking purposes and may not always reflect the service provided accurately. Payers focus on specific areas that may result in sudden changes in primary diagnoses or care patterns. For example, when diabetes became a key quality focus for payers, the use of diabetes as a primary diagnosis and the rates of HbA1c increased. Though this system change is positive, it is not a result of the IWP. We will attempt to keep informed of all changes in Medicaid and MCO coding and quality focus.

Program Selection Bias

There may be a propensity for enrollees who have the most to gain from insurance coverage to have accessed services earlier than those with less to gain. This has the potential to bias all the estimates of program effects on quality measures and costs for the period prior to Iowa Wellness Plan. Essentially, those who are sicker may use services earlier and the reduction in costs accounted for these enrollees by the Wellness Plan may be greater than for later enrollees. Risk adjustments will used where appropriate to attempt to correct for this potential bias. Some methods may result in estimates that are more valid but only pertain to a segment of the population.

Study populations

lowa Wellness Plan has undergone many changes during the first demonstration period. In particular, certain aspects of IWP have been extended to the general Medicaid population, e.g. PHAP dental coverage, enrollment in MCOs, These changes make it more difficult to identify appropriate comparison populations. Additionally, in other studies we have found it difficult to identify states that are comparable to Iowa for state-level comparisons. We will continue to identify comparison groups at all levels, while attempting to adjust for differences that would affect our results.

COVID-19 Considerations

The COVID-19 pandemic has disrupted established systems of care throughout our nation. Changes such as the increased use of telehealth, increased use of acute care related to COVID-19 concerns, and the avoidance of routine/chronic care make it necessary to adapt methods and analytics to adjust for these changes. At the individual level we are conceptualizing a person-month unit of analyses that can utilize dichotomous variables to identify key trigger points. Additionally, we are working to identify methods of accounting for the level of COVID-19 penetration in an area as a covariate to generally adjust for these effects. We will continue to communicate with other evaluators nationally to determine what best practices are being developed around complex analytics and COVID-19. This could negatively impact the ability to identify comparison states as we now add COVID-19 exposure and Medicaid program policy changes, to the list of characteristics that may need to be matched or accounted for, at least for certain time periods.

We anticipate at this point in COVID-19 pandemic, three impacts of COVID-19 on the evaluation plan, including methods, analytic considerations, and interpretation of findings.

Methods

At the individual level we are conceptualizing a person-month unit of analyses that can utilize dichotomous variables to identify key trigger points. COVID-19 may have implications for the comparison groups we use in our analyses. For example, in policy component 7, we rely on a national comparison group of CAHPS survey respondents. Our teams will need to assess the appropriateness of this group given the different ways states have implemented policy changes related to COVID-19. There are questions about comparability between states. Similarly, at the state-level it becomes more and more difficult to identify comparison states as we now add COVID-19 exposure and responses to the list of characteristics that may need to be matched or accounted for.

Early reports indicate that survey response rates are improved during, and perhaps following, the COVID-19 pandemic. As individuals shelter in place, they are more likely to take the time to be interviewed or complete a survey. The salience of the pandemic and its relationship to health care utilization, may increase the willingness of certain respondents to complete surveys and questionnaires. Though this may improve response rates, we do not know whether the sample of respondents completing surveys during the pandemic share the same underlying characteristics as past respondents. Given this consideration, our team of researchers will compare respondents based on their underlying characteristics to determine whether further analytic adjustments are required.

Analytic Considerations

Though we propose specific analytical tools within this evaluation and even go so far as to link analytical strategies to hypotheses, we may find that additional analytical strategies will have to be employed. For example, we are considering how to account for the level of COVID-19 penetration in a geographical area as a covariate to generally adjust for these effects. Propensity scoring, instrumental variables and survival analyses are all techniques that we will retain in our list of possible techniques. As we become more familiar with the distribution of the outcomes and the data we will be using, we need to be comfortable modelling and testing each outcome with the strategy that will provide us with the most accurate and useful results. We will continue to communicate with other evaluators to determine what best practices are being developed around complex analytics and COVID-19.

Table 5 lists possible ways that the COVID-19 pandemic, and associated policy changes could have an impact on the data, analyses and results of the IWP evaluation. We are expanding the scope of our process evaluation to include state policy changes related to COVID-19. A summary of the changes to date are found in Table 6.

Table 5. Anticipated Impact of COVID-19 on IWP Evaluation Plan

Topic Area	Examples of Potential Impact	Rationale
Insurance Coverage Gaps and Churning	Monitor changes to churning due to people changing health insurance plans and losing eligibility Increased gaps in insurance coverage Decreased consecutive coverage	CDC projects multiple waves of COVID-19- related unemployment, potentially leading to variations in Medicaid and IWP coverage. As Iowans gain and lose employer-based health insurance, Iowans' reliance on Medicaid and IWP will fluctuate.
Dental Wellness Plan	Decreased access to dental care Provider willingness to accept new DWP members	Dental providers are vulnerable to COVID-19 exposure and face strict requirements for reopening (e.g., enough PPE stock), limiting the number of dental providers available to new and existing patients.
Telehealth (new topic)	Decreased face-to-face primary care, dental, mental health, and preventive care visits.	Healthcare providers have transitioned to virtual appointments. Our current evaluation plan does not measure telehealth services. The shift from in-person to virtual healthcare visits may impact hypotheses across our evaluation plan. We may add telehealth questions where applicable.

Table 6. Iowa Wellness Plan: COVID-19 State Changes Timeline, 2020

Date CY 2020	Summary
January 1	Reinstatement of retroactive coverage for children and pregnant women. Guidelines found here.
February 20	CDC issues coding guidelines for novel Coronavirus for health care encounters and deaths related to COVID-19. Guidelines found here .
March 1	Updates to billing procedure for telehealth services establishing "originating" and "Distant" site changes. Guidelines found https://example.com/here .
March 6	New coding for virtual care services, telehealth related services, and Coronavirus lab tests established in light of COVID-19 pandemic. Guidelines found here.

Date CY 2020	Summary
	DHS waives all Medicaid co-pays, premiums and contributions,
	Prescription refill guideline changes,
	Telehealth streamlining of appropriate service changes including modifier 95 designation and POS codes for telehealth billing.
	Guidelines found here.
March 13	Complete Summary list of submitted federal waivers found here.
	Changes and eligibility criteria for Home delivered meals, Homemaker services and companion services with changes in billing and coding. Includes information for finding service providers and information for case managers.
	Guidelines found here.
	All pharmacy PA's extended through June 30th.
	Prescription member copayments suspended including potential for refunds.
10.00	Pharmacy benefit manager (PBM) audits suspended with changed guidelines.
March 18	Patient signatures for medication receipt waived.
	Due date of Cost of Dispensing (COD) survey extended to April 30th
	Guidelines found here.
	Changing waiving criteria for Prior Authorizations (PAs) for Medicaid members, and also changes to extensions for MCO approved PAs.
April 1	Changes to claims filing for medical claims including a 90 day extension to first time medical claims and encounters for MC claims.
	Guidelines found here.
	Expansion of list of telehealth services with billing and coding changes.
April 2	Expansion of provider types included in telehealth services where appropriate.
•	Guidelines and frequently asked questions found here.
April	Unemployment and stimulus benefit considerations for Medicaid recipients FAQs found here .
	CMS guidance for nursing homes to procure communicative technology for residents and restrictions implemented to prevent visitation.
May 6	Guidelines on use and sharing of communicative devices.
	Grant funding requirements for nursing homes' procurement of communicative devices for residents.
	Guidelines found here.
May 15	Guidance for retainer payments during the month of April 2020 with a list of allowable services with appropriate codes to use for seeking retainer payments
100 DE	Guidelines found here.

Date CY 2020	Summary
May 19	New guidance on additional codes pertaining to COVID-19 including new diagnostic coding, laboratory tests and specimen collection. Guidelines found here.
June 1	The Families First Coronavirus Response Act (FFCRA) establishes a new Medicaid eligibility group for uninsured individuals for the purposes of COVID-19 testing, All details and guidance for the new beneficiary group found here .
June 19	Updated Medicaid provider toolkit found here.

Table 7 refers to COVID-related policies that affected members of the Dental Wellness Plan:

Table 7. Iowa Dental Wellness Plan: COVID-19 State Changes Timeline

Date CY 2020	Summary
March 13	Coding and billing for teledentistry services including legal parameters and details of requirements for teledentistry encounters established.
	Guidelines found here.
March 16	UI College of Dentistry ceases elective patient care
March 16	ADA recommends dentists "focus only on urgent and emergency procedures"
March 17	IDA and IDB recommend that dentists cease elective care for 3 weeks
March 22	Iowa Governor issues <u>Proclamation</u> of Emergency Disaster
March 27	Iowa Governor <u>mandates</u> cessation of non-emergency dental care, effective through April 16
April 2	lowa Governor extends $\underline{\text{proclamation}}$, which includes ban on non-emergency dental care, to expire on May 1
April 16	Federal government shares guidelines for re-opening
April 27	Iowa Governor extends prohibition of nonessential dental services through May 15
May 3	CDC <u>recommends</u> postponing elective dental care "during this period of the pandemic (no end date provided)
May 6	Iowa Governor issues <u>proclamation</u> that any dental care resume with adherence to safety guidelines, effective May 8. State of public health disaster emergency currently set to expire on May 27th.
May 8	Dentists in Iowa may begin providing routine dental care
May 26	Iowa Governor issues extension of previous proclamation and extends the window until June $25^{\rm th}$.
July 1	IME issued II. 2148-FFS-D-CVD announcing an enhanced dental payment to address facility and safety upgrades.

Evaluation Period

Evaluation Timeframes:

Start and End Dates of the Iowa Wellness Plan Demonstration.

Total demonstration time period January 1, 2014 – December 31, 2024

Start and End Dates of the Dental Wellness Plan Demonstration.

• Total demonstration time period May 1, 2014 - December 31, 2024

Start and End Dates of Retroactive Eligibility Demonstration.

• Total demonstration time period November 1, 2017 - December 31, 2024

Policy Components

This section provides more detail about the approach and rigor being proposed to evaluate the key policy components that CMS has indicated were of particular interest.

- 1) Healthy Behaviors Incentive Program (HBI)
- 2) Dental Wellness Plan (DWP)
- 3) Waiver of Retroactive Eligibility
- 4) Cost Sharing
- 5) Cost and Sustainability
- 6) Waiver of Non-Emergency Medical Transportation (NEMT)
- 7) Iowa Wellness Plan Member Experiences from Increased Healthcare Coverage

1) Healthy Behaviors Incentive Program (HBI)

HBI Background

One unique feature of the IWP is the Healthy Behaviors Incentive Program (HBI). IWP members who are above 50% of the Federal Poverty Level (FPL) can avoid paying a monthly premium for their insurance after their first year of coverage by participating in the HBI. Individuals who are at 0-50% of the FPL are not required to pay monthly premiums. The HBI requires members to have a yearly medical or dental exam (a wellness visit) and complete a health risk assessment (HRA) to avoid paying a premium in the following year. If the member does not complete these requirements during their first year of coverage, they may be required to pay a monthly premium (\$5 or \$10, depending on income). The member must then pay the monthly premium or claim financial hardship. Members who are above 100% FPL can be disenrolled for failure to pay their premium.

As a part of the IWP, enrollees are encouraged to participate in the HBI involving two components: 1) a wellness exam and 2) a health risk assessment (HRA).

Starting in 2015, a small monthly contribution by the member was required depending on family income. Members with incomes above 50% FPL and up to 100% FPL contributed \$5 per month, while members with incomes above 100% FPL contributed \$10 per month. Members with individual earnings 50% or less of the FPL did not have monthly contributions. IWP members who completed the wellness exam and the HRA were not be responsible for a monthly contribution.

Members earning over 50% of the FPL were given a 30-day grace period after the enrollment year to complete the healthy behaviors to have the contribution waived. If members did not complete the behaviors after the grace period ended, members received a billing statement and a request for a hardship exemption form. For members with incomes above 50% FPL and up to 100% FPL, all unpaid contributions were considered a debt owed to the State of Iowa but would not, however, result in termination from the IWP. If, at the time of reenrollment, the member did not reapply for or was no longer eligible for Medicaid coverage and had no claims for services after the last premium payment, the member's debt would be forgiven. For members with incomes above 100% FPL, unpaid contributions after 90 days resulted in the termination of the member's enrollment status. The member's outstanding contributions were considered a collectable debt and subject to recovery. A member whose IWP benefits were terminated for nonpayment of monthly contributions needed to reapply for Medicaid coverage. The IME would permit the member to reapply at any time; however, the member's outstanding contribution payments would remain subject to recovery.

Wellness Exam and Health Risk Assessment

The wellness exam is an annual preventive wellness exam (New Patient CPT Codes: 99385 18-39 years of age, 99386 40-64 years of age; Established Patient CPT Codes: 99395 18-39 years of age, 99396 40-64 years of age) from any plan-enrolled physician, Rural Health Clinic (RHC), Federally Qualified Health Center (FQHC) or Advanced Registered Nurse Practitioner (ARNP). The exams are part of the preventive services covered by the plans and therefore do not cost the member anything out-of-pocket. A 'sick visit' can count towards the requirement of the preventive exam, if wellness visit components are included and the modifier 25 is used. The wellness exam definition was expanded in 2016 to include a dental exam (D0120, D0140, D0150, D0180). A health risk assessment (HRA) is a survey tool that can be used to evaluate a member's health. The MCOs are currently encouraging members to complete an HRA. The format of the HRA differs by MCO.

Implementation of the HBI 2020

There were several changes between the planned and actual implementation of the HBI in the original waiver period. Table 8 describes changes to the HBI overall while Table 9 describes changes in the HBI related to the transition of the IWP to managed care. The HBI was reapproved as part of the extension of the IWP effective January 1, 2020. Table 8 and Table 9 also show the planned implementation for the HBI as described in the extension where applicable.

Table 8. Changes to the Healthy Behaviors Incentive Program (does not include changes related to COVID-19)

Original Planned implementation	Actual implementation	Planned implementation for 2020-2025
Wellness exam was defined as CPT codes 99385, 99386, 99395, and 99396 or a "sick visit" with a modifier code of 25.	Additionally, members could report having a wellness exam without documentation. In year 2 a preventive dental exam also fulfilled the requirement.	No change.
Members needed to complete the Assess My Health HRA tool. The data would be available to IME, providers, and members.	This information is not shared with the providers or the members.	The MCOs are responsible for members completing the HRA.
A communication campaign would ensure members, providers, and clinic staff awareness and knowledge of the program.	There were limited communication efforts.	Unknown.
The Marketplace Choice would provide members with insurers to select from.	The MPC members were converted to the Wellness Plan when both QHPs were no longer participating in the IHAWP	No change.
Members were to be disenrolled for non-payment of contribution and not completing the HRA and wellness exam.	Systems were not in place to make disenrollment possible until the 4th quarter of the 2nd year.	Members are disenrolled for non-payment or not completing the HBI.
Members could complete HRA online with/out provider.	Members could report having completed a HRA without documentation. Some health systems helped members complete the HRA over the telephone.	The mode of completion differs by MCO.
Co-pay of \$8 for emergency department visit,	The copayment for non-emergency use of the emergency department was implemented on December 1, 2016.	No change.

Table 9. Managed care related changes to the Healthy Behaviors Incentive Program

Original Planned implementation	Actual implementation	Planned implementation for 2020-2025
Members needed to complete the Assess My Health HRA tool. The data would be available to IME, providers, and members.	Each MCO has a different screening or risk assessment tool.	No change.
An outside vendor was supposed to implement a program to incentivize members to complete other behaviors.	Following the transition to statewide managed care, the MCOs offered "value added benefits," such as rewards programs that served the purpose of incentivizing members to complete behaviors.	Not part of the implementation.
Members were supposed to complete the wellness exam and the HRA to be eligible for the additional incentivized behaviors.	Any MCO member can participate in the MCO's rewards program.	Not part of the implementation.
Providers were to receive incentives to encourage patients to complete HBI.	MCOs were given flexibility to implement provider incentive programs to be reviewed and approved by IME.	Not part of the implementation.
Data from the HRA was to be used to make programmatic decisions.	The data from HRA cannot be used because the data is housed by the MCOs.	Not part of the implementation.
Three MCOs were available for IWP members to select from.	Two MCOs exited the state while one MCO entered,	There currently two MCOs (Amerigroup and Iowa Total Care)

Previous evaluation findings

IWP member experiences during the first year of the IWP program have been reported previously and can be found online at http://ppc.uiowa.edu/health/study/evaluation-iowas-medicaid-expansion-iowa-health-and-wellness-plan.

We used claims data to conduct rigorous secondary analyses including descriptive analyses of trends in completion rates stratified by income level, multivariable regression analyses to model the likelihood of completing required activities, and quasi-experimental approaches to model health care utilization and spending as a function of completing both required activities. Over the first 5 years of the HBI program, the proportion of members completing both required activitiesthe wellness exam and HRA-averaged 11% for lower-income members and 18% for higherincome members. In any given year, the rate of completing both required activities never exceeded 32%. Over time, the completion rates dropped among the lower-income members shielded from disenrollment (and in some cases, premiums), while increasing among the higher-income members, suggesting that members are responsive to the disincentives being placed on them. Still, completion rates were generally below 25% even among the more compliant higher-income group. We have consistently found that the program may unintentionally exacerbate disparities in health insurance coverage, as members who are younger, male, non-white, and/or live in a rural area are less likely to complete both healthy behaviors and therefore more likely to owe a monthly premium or face disenrollment (Wright, et al., 2018; Askelson, et al., 2017). Finally, using difference-in-differences modeling we found that those who completed both required HBI activities had fewer ED visits and

hospitalizations, but spent more in health care costs, even after controlling for the effects of Medicaid expansion (Wright, et al., 2020).

To more fully explore the experiences of IWP members with regards to the HBI, we conducted qualitative interviews in 2015 with members who had been enrolled in the program at least 6 months. These results can be found at http://ppc.uiowa.edu/health/study/healthy-behaviors-incentive-program. We analyzed 146 in-depth interviews. We found that member awareness of the program requirements was low, and many respondents did not recall receiving information about the program. Of those who participated in the interviews, the majority had not received an invoice for premiums. Most of those who did receive an invoice did not have difficulties paying their premiums. Interviewees identified encouraging the use of preventive care, promoting health, and lowering health care costs as reasons for them to participate in the HBI. Members also said that a benefit of participating would be thinking more about their own health and lifestyle choices. Overall, interview participants stated that health insurance coverage was important for them because of current medical conditions and future unknown medical needs.

Based on the qualitative interviews with members, we developed a survey to assess member awareness of the HBI, knowledge of the program, perceptions of the program, and experiences with completing the behaviors and paying premiums. The first survey was fielded in 2017, we randomly sampled 6,000 members and had 1,375 respondents. We found that there was low awareness of the program and its requirements and that many members did not complete the program requirements. The vast majority of respondents stated they would rather complete the program requirements than pay \$10 per month. In 2018, we followed up with members who completed the 2017 survey to reassess their awareness and completion of program requirements. We surveyed 1,102 members and had 641 respondents. A significant number of members remained unaware of the HBI despite being enrolled in the program for at least two years. In 2019, we repeated the sampling and recruitment methods from 2017. From a random sample of 6,000 members who had not previously participated in other data collections for this evaluation, we had 1,353 respondents. We found that awareness of the program was still low. The weighted percent of respondents who completed a wellness exam (WE) was about 45%, the completion of the HRA was only approximately 15%. Under half of the members recalled being told to complete a medical WE (43.7%), dental WE (41.1%), or HRA (31.0%). Despite this, the respondents once again overwhelmingly stated they would rather complete the program requirements than pay \$10 per

We also conducted qualitative interviews and surveys with disenrolled members. We conducted two rounds of interviews, with 37 interviews in 2016 and 35 interviews in 2017. The overall themes did not differ between years. An overarching theme was that many interviewees were not aware of the HBI. While for some disenrollment was a minor inconvenience, other interviewees experienced financial hardship because of their disenrollment and engaged in behaviors that could be detrimental to their health (e.g., not refilling prescriptions or stretching medication and delaying or skipping previously scheduled health care appointments). Interviewees also noted confusion around the disenrollment and reenrollment processes. Many were not able to reenroll either in the IWP or another insurance program. In 2017 (n = 237) and 2019 (n= 109), we surveyed disenrolled members about their experiences. Similar to our qualitative interviews, many of the disenrolled members we surveyed were not aware of the HBI (27% in 2017 and 39% in 2019). Very few (under 30% in both years) members were able to reenroll in the IWP at the time of the survey. Respondents delayed filling prescriptions, stretched medication, and delayed or did not seeking care. They also reported paying more for health care, dental care, or prescriptions due to their disenrollment. Over half of respondents were concerned about their debt being sent to collections.

Findings from other state's healthy behavior programs evaluations

Other states have implemented healthy behavior programs that are similar in design to Iowa's program (particularly Michigan and Indiana) and the results are comparable to those seen in our evaluation. The evaluation of the Heathy Michigan Plan showed over 80% received at least one preventive care service in the first two years of its implementation, but only about 25% of participants completed an HRA (Clark, Cohn, & Ayanian, 2018). A survey with primary care providers in Michigan in 2015 also showed low awareness of financial incentives associated with HRAs but indicated that providers found the HRA useful for discussing health behaviors with their patients (Zhang et al, 2020). In 2018, enrollee surveys showed lingering low awareness of the HRA while claims data showed about 75% of enrollees having at least one preventive care visit in the previous two years and almost half of enrollees completing the HRA (Goold et al, 2020). Limited program awareness and low completion rates of program requirements were also seen in components of the Healthy Indiana Plan (Lewin Group, 2019). Over half of enrollees who were eligible for a premium under the Healthy Indiana Plan were moved to a limited benefits package or lost coverage due to failure to pay premiums (Rudowitz, Musumeci, Hinton, 2018). This was often due to an inability to pay or confusion about the program requirements (Rudowitz, Musumeci, Hinton, 2018).

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HBI Goals

The goals of the Healthy Behavior Incentives that are included as part of the Iowa Wellness program are designed to:

- Empower members to make healthy behavior changes.
- Begin to integrate HRA data with providers for clinical decisions at or near the point of care.
- Encourage members to take specific proactive steps in managing their own health and provide educational support.

HBI Hypotheses and Research Questions

Hypothesis 1: The proportion of members who complete a wellness exam, health risk assessment, or both will vary.

Research Question 1.1: What proportion of members complete a wellness exam in a given year?

Research Question 1.2: What proportion of members complete an HRA in a given year?

Research Question 1.3: What proportion of members complete both required activities in a given year?

Hypothesis 2: The proportion of members completing a wellness exam, health risk assessment, or both will change over time and by income level.

Research Question 2.1: Has the proportion of members completing a wellness exam decreased among lower-income members and increased among higher-income members?

Research Question 2.2: Has the proportion of members completing an HRA decreased among lower-income members and increased among higher-income members?

Research Question 2.3: Has the proportion of members completing both required activities decreased among lower-income members and increased among higher-income members?

Hypothesis 3: Member characteristics are associated with the likelihood of completing both required HBI activities.

Research Question 3.1: Are older, non-Hispanic white females living in metropolitan counties more likely to complete both required activities?

Research Question 3.2: Are members assigned to some MCOs more likely than members assigned to other MCOs to complete both required activities?

Research Question 3.3: Is the length of time in the program positively associated with the likelihood of completing both required activities?

Research Question 3.4: Are members with more negative social determinants of health (SDoH) less likely to complete both required activities?

Research Question 3.5: Is the highest income group most likely to complete both required activities?

Hypothesis 4: Completing HBI requirements is associated with a member's use of the emergency department (ED).

Research Question 4.1: Are members who complete the HBI requirements equally likely to have an ED visit?

Research Question 4.2: Do members who complete the HBI requirements have fewer total ED visits annually?

Research Question 4.3: Are members who complete the HBI requirements less likely to have a non-emergent ED visit?

Research Question 4.4: Do members who complete the HBI requirements have fewer total non-emergent ED visits annually?

Research Question 4.5: Are members who complete the HBI requirements less likely to have a 3-day, 7-day, or 30-day return ED visit?

Research Question 4.6: Do members who complete the HBI requirements have fewer total 3-day, 7-day, or 30-day return ED visits annually?

Hypothesis 5: Completing HBI requirements is associated with a member's use of hospital observation stays.

Research Question 5.1: Are members who complete the HBI requirements equally likely to have a hospital observation stay?

Research Question 5.2: Do members who complete the HBI requirements have fewer total hospital observation stays annually?

Hypothesis 6: Completing HBI requirements is associated with a member's use of inpatient hospital care.

Research Question 6.1: Are members who complete the HBI requirements equally likely to be hospitalized?

Research Question 6.2: Do members who complete the HBI requirements have fewer total hospitalizations annually?

Research Question 6.3: Are members who complete the HBI requirements less likely to have a potentially preventable hospitalization?

Research Question 6.4: Do members who complete the HBI requirements have fewer total potentially preventable hospitalizations annually?

Research Question 6.5: Are members who complete the HBI requirements less likely to have a 30-day all-cause readmission?

Research Question 6.6: Do members who complete the HBI requirements have fewer total 30-day all-cause readmissions annually?

Hypothesis 7: Completing HBI requirements is associated with shifts in patterns of member's health care utilization.

Research Question 7.1: Do members who complete the HBI requirements have fewer potentially preventable hospitalizations as a proportion of total hospitalizations?

Research Question 7.2: Do members who complete the HBI requirements have fewer nonemergent ED visits as a proportion of total ED visits?

Research Question 7.3: Do members who complete the HBI requirements have more primary care visits as a proportion of total outpatient visits?

Hypothesis 8: Completing HBI requirements is associated with a member's health care expenditures.

Research Question 8.1: Do members who complete the HBI requirements have lower spending in all categories?

Hypothesis 9: Disparities exist in the relationships between HBI completion and outcomes.

Research Question 9.1: Do disparities exist in the following populations- high utilizers, individuals with multiple chronic conditions, individuals with OUD, individuals from racial and ethnic groups, rural individuals, and by sex?

Hypothesis 10: Members who have been enrolled longer are more aware of the HBI program than those who have been enrolled a shorter period of time.

Research Question 10.1: What is the level of awareness about the HBI program among members?

Research Question 10.2: How long are members enrolled in the program?

Research Question 10.3: Is there a relationship between length of enrollment and awareness of the HBI program?

Hypothesis 11: Members who have been enrolled longer have more knowledge about the HBI program than those who have been enrolled a shorter period of time

Research Question 11.1: What specific knowledge about the HBI program do members report?

Research Question 11.2: Do members understand incentive/disincentive part of the HBI program?

Research Question 11.3: Do members know they need to pay a premium monthly?

Research Question 11.4: Do members know about the hardship waiver?

Research Question 11.5: How long have members been enrolled?

Hypothesis 12: Those who are aware of the HBI program are more likely to complete the behaviors (HRA and well exam) compared to those who are not aware.

Research Question 12.1: What is the level of awareness of the HBI program?

Research Question 12.2: What is the level of completion of the HRA and well exam?

Hypothesis 13: Those who have more knowledge about the HBI program are more likely to complete the behaviors (HRA and well exam) than those with less knowledge.

Research Question 13.1: What is the level of knowledge about the HBI program?

Research Question 13.2: What is the level of completion of the HRA and well exam?

Hypothesis 14: Member socio-demographic characteristics and perceptions/attitudes are associated with awareness of the HBI program.

Research Question 14.1: What is the level awareness of the HBI program?

Research Question 14.2: What are the socio-demographic characteristics (age, gender, income, education, employment, race, and ethnicity) of members?

Research Question 14.3: What are the perceptions/attitudes (self-efficacy, response efficacy, perceived susceptibility, perceived severity, and perceived benefit) of members?

Hypothesis 15: Member socio-demographic characteristics and perceptions/attitudes are associated with knowledge of the HBI program.

Research Question 15.1: What is the level knowledge of the HBI program?

Research Question 15.2: What are the socio-demographic characteristics (age, gender, income, education, employment, race, and ethnicity) of members?

Research Question 15.3: What are the perceptions/attitudes (self-efficacy, response efficacy, perceived susceptibility, perceived severity, and perceived benefit) of members?

Hypothesis 16: Member socio-demographic characteristics and perceptions/attitudes are associated with completion of the HRA and well exam.

Research Question 16.1: What is the level of completion of the HRA and well exam?

Research Question 16.2: What are the socio-demographic characteristics (age, gender, income, education, employment, race, and ethnicity) of members?

Research Question 16.3: What are the perceptions/attitudes (self-efficacy, response efficacy, perceived susceptibility, perceived severity, and perceived benefit) of members?

Hypothesis 17: Members are most likely to hear about the HBI program from their MCO.

Research Question 17.1: Where are members learning about the HBI program and HBI program components?

Hypothesis 18: Members report challenges in using hardship waiver.

Research Question 18.1: What are the perceptions of the ease of use of the hardship waiver? Research Question 18.2: What are the challenges members report in using the hardship waiver?

Hypothesis 19: Members who do not complete the HRA and wellness exam, report barriers to completing the behaviors.

Research Question 19.1: What are the barriers to completing the HRA and wellness exam as reported by the members?

Hypothesis 20: Disenrolled members report no knowledge of the HBI program.

Research Question 20.1: What is the level of HBI program knowledge among disenrolled members?

Hypothesis 21: Disenrolled members describe confusion around the disenrollment process.

Research Question 21.1: How do disenrolled members describe the process of learning about their disenrollment?

Hypothesis 22: Disenrolled members report consequences to their disenrollment.

Research Question 22.1: What happens after members are disenrolled for non-payment? Research Question 22.2: Will disenrolled members be able to reenroll to health insurance coverage?

Research Question 22.3: Do the consequences change over time?

HBI Evaluation Periods

The claims-based evaluation of the HBI will span from January 2014 through December 2024, with analyses using data from 2014 through the most current year of Medicaid data available throughout the renewed 1115 waiver period (2020 - 2024). The survey data and interview data will be collected during the 2021-2024 time period.

HBI Data Sources, Analysis Methods, and Measures

This section describes our approach to testing hypotheses 1-9 by answering all research questions from 1.1-9.1. We provide an overview of the evaluation period, our data sources, a description of our sample, a discussion of our target and comparison groups, the definitions of our outcome measures (with numerators and denominators specified), the identification of healthy behaviors activities and model covariates, and a description of our analytic approach. For brevity and clarity, we present any of these items that apply across all hypotheses just once, while other items are presented in the context of the relevant hypotheses and research questions. We also describe limitations and alternative approaches to address them.

The objective of these analyses is to document rates of HBI participation, model HBI participation as a function of several member-level characteristics, assess changes in health care spending as a function of HBI participation, and model several measures of health care utilization as a function of HBI participation. Together, this will further our understanding of the extent to which members are engaging in the requirements outlined by the program, clarify which members are most and least likely to complete the activities required by the HBI program, and identify both the extent to which the HBI program is associated with increases or decreases in health care spending and the extent to which HBI participation can improve patient outcomes and reduce potentially avoidable care.

HBI Data Sources

We are proposing to use six data sources for the secondary analyses of Medicaid administrative claims data portion of the HBI evaluation. They include the following:

- Medicaid enrollment and claims data (January 2014 December 2024)
- Iowa Medicaid Enterprise records on completion of wellness exams and health risk assessments (January 2014 – December 2024)

We will also adjust for other sociodemographic factors, social determinants of health, and available health care resources in members' local community using selected variables from:

- Area Deprivation Index
- U.S. Census Bureau's American Community Survey
- · Health Resources and Services Administration's Area Health Resources File
- Social determinants of health data reported by managed care organizations to the Iowa Department of Human Services

HBI Sample

Our sample will consist of all members enrolled in IWP for a minimum of 12 consecutive months any time after January 1, 2014. We will assign members to one of three income groups: a low-

income group (\leq 50% FPL), a medium-income group (51 – 100% FPL), and a high-income group (101 – 138% FPL) reflecting the categories of incentives that apply to members in these income ranges.

Using monthly data, we will create our sample using a rolling cohort method in which we identify the first 12 consecutive months in which a member was continuously and exclusively enrolled in IWP. For example, a member enrolled January 2014 through December 2014 would be in cohort 1, while a member enrolled February 2014 through January 2015 would be in cohort 2, and so on. If a member was enrolled for additional 12-month periods beyond their initial 12 months (e.g., a total of 24-, 36-, or 48-months of enrollment), they would be included in those cohorts as well. For example, a member enrolled March 2014 through February 2016 would be in cohort 3 from March 2014 to February 2015, cohort 15 from March 2015 to February 2016, and so on. Essentially, the cohort corresponds to the study month in which the member's 12-month continuous enrollment begins, and they enter a new cohort for each successive 12-month period. However, we will not keep partial years of data. For example, if a member was enrolled for 18 months, we will keep only their initial 12 months, and drop the other 6.

After assigning members to cohorts, we will collapse the data to provide one observation per person per cohort. This method will ensure that we retain as many Medicaid members in our sample as possible, while also ensuring that all members in our sample are exposed to a full year of the program, providing them equal opportunity for HBI participation, and corresponding to the period of time they have to complete activities before being charged a premium (excluding the additional 30-day grace period). In sensitivity analyses, we will extend our cohort definition to 13 months to capture this 1-month grace period after which premiums are enforced. For analyses examining year-over-year trends, we also limit our sample to members whose enrollment does not span calendar years.

HBI Target and Comparison Groups

For our analyses examining health care utilization and spending outcomes as a function of completing HBI requirements, we will use propensity score matching to generate a target and comparison group. The target group will be defined as members who completed both HBI requirements during the year and the comparison group will be defined as members who did not complete any HBI requirements during the year. Individuals who completed only one of the two required activities will be excluded. The propensity scores will be generated using the predicted likelihood of HBI participation. We will match members in our target and control groups based on their propensity scores using nearest neighbor matching and will visually inspect the covariates to confirm that our target and control groups are balanced with respect to observed covariates.

Identification of Healthy Behaviors and Covariates

At the core of the HBI program is the requirement for members to complete both a wellness exam and a health risk assessment (HRA) each year to avoid paying a monthly premium the following year. Completion of these activities can be identified in claims or reported by managed care organizations. In fact, members may also call the Iowa Medicaid Enterprise (IME) to report completion of the activities. Regardless of the mechanism by which the data are reported, IME data are used to make official determinations regarding premium waivers for members, and therefore they are the data that we have previously used (and propose to use) to identify receipt of a wellness exam and HRA completion.

HBI Covariates

Our multivariable models will include several additional covariates to adjust for factors plausibly associated with both the likelihood of completing the HBI requirements and our health care

utilization and spending outcomes. These will include demographic characteristics derived from the Medicaid data including age, gender, race/ethnicity, metropolitan area of residence (defined as metropolitan, micropolitan, small town, or rural, using rural-urban commuting areas), number of moves during the 12-month period (to account for lifestyle disruption), and income group. We will also use the Medicaid data to include a number of variables serving as proxies of health status including: an indicator for a mental health diagnosis, an indicator for a substance abuse diagnosis, the total annual number of outpatient visits, the annual number of prescriptions, and an indicator for the presence of each of 24 chronic conditions. We will also include an indicator for the managed care organization in which the member is enrolled and a running count of a member's total years of IWP enrollment as of the given year (to assess the extent to which members become more compliant the longer they are enrolled). We will also adjust for social determinants of health, community health care resources, and other contextual factors using variables of interest drawn from the Area Health Resources File, the Area Deprivation Index, the American Community Survey, and social determinants of health data collected by managed care organizations and reported to Iowa DHS, Cohort fixed effects will be captured using a binary variable to indicate the cohort to which a member was assigned. In sensitivity analyses, we will explore the use of fixed effects at the county level.

HBI Analytic Approach for Each Hypothesis and Research Question

We will employ a variety of quantitative analyses depending on the hypothesis and research question and the available data. Briefly, we will conduct univariate analyses to produce summary statistics (including time trends) on HBI participation and our outcomes of interest, bivariate analyses to assess the relationship between HBI participation and our outcomes of interest, and multivariate analyses to identify factors associated with the likelihood of HBI participation and assess the relationship between HBI participation and our outcomes of interest while adjusting for potential confounders and selection bias. All analyses will be stratified by—or otherwise account for—members' income group. Further details are provided in the following table organized by hypotheses and research questions.

Methods for HBI Policy Components

The above outlined research questions and hypotheses will be answered using a mixed-methods approach consisting of: 1) secondary analyses of Medicaid administrative claims data, 2) a member survey, 3) a disenrollment survey, and 4) interviews with disenrolled members. These qualitative and quantitative approaches allow for data and methods triangulation across both process and outcomes measures, which increases confidence in the validity of evaluation findings. Additional details are provided below for each approach.

HBI Member survey

We will be conducting a member telephone survey to specifically address evaluation questions related to awareness and knowledge of the HBI and participation and experience in the program. We have extensive experience surveying this population and have had success with the following design and procedures.

Study Design: We have both a panel and cross-sectional survey design to allow for us to examine trends over time in the same group of people who have continued exposure to the program and to provide a cross sectional look at the IWP population.

Panel Sample: In early 2021, we will draw a sample of IWP members who have been continuously enrolled for the previous 14 months. Individuals who have participated in previous evaluations and individuals without valid telephone numbers will be excluded from the sample. Only one person will be selected per household to reduce the relatedness of the responses and respondent burden.

The sample will be stratified by completion of activities (those who completed the HRA, those who completed the wellness exam, those who completed both the HRA and wellness exam, and those who completed neither). This stratification is vital because so few members have completed the activities. We will also stratify by income level (0-50%, 51-100%, and 101-133%) and MCO enrollment. We will draw a sample of 6,000 members. Based on our previous evaluations, we would plan on a 30% response rate. Based on previous surveys for this evaluation, this sample size and response rate will provide us with sufficient numbers to complete our proposed analyses (see past evaluation plans and published journal articles). A traditional sample size calculation is difficult as the variance of the variables of interest are not established. In the fall of 2021 and 2022, this same sample will be matched back to the Medicaid enrollment files. If the sample member from 2021 is still a Medicaid enrollee, the sample member will be included in the new survey. We will follow the same study procedures as outlined above. Based on our previous experience of re-surveying 2017 respondents in 2018, we would plan on a 60% response rate.

Cross-sectional survey: The survey data gathered in early 2021 will not only be the first time the panel is surveyed, but it will also serve as the first cross-sectional survey. In 2022 and 2023, we will redraw a sample from Medicaid members, using the same sampling method outlined above.

Survey protocol: Our survey protocol is informed by the latest research on survey design and our over 20 years of experience with this population. First, letters introducing the study will be mailed to potential respondents. The introductory letter will describe the evaluation, state why the respondent is being invited to participate, and ensure the participant of the anonymity of the responses. The letter will state that participation is completely voluntary, that refusal will not lead to any penalty or lost benefits, and provide a telephone number to ask questions, update contact information, or opt out of the study. In an effort to maximize response rates for the survey, both a premium and an incentive are used: each introductory letter includes a \$2 bill, and respondents who complete the survey when contacted over the telephone will be sent a \$10 gift card.

The telephone survey will be fielded by the Iowa Social Science Research Center at The University of Iowa. All survey staff are trained on the purpose of the evaluation, human subjects research protections, and the survey instrument. The research team provides specific HBI and Medicaid related information to the survey staff. Following the training, telephone calls are made to each sampled IWP member, the evaluation is introduced, the confidentiality of all responses and voluntary nature of participation is explained, informed consent is obtained, and either the interview will be conducted or an alternate time to complete the interview will be arranged. Approximately 8-10 attempts will be made to reach the potential respondents. The survey will consist of about 60 questions and will take approximately twenty minutes to complete.

Survey measures: The survey measures are informed by our previous qualitative and quantitative data collections, the existing literature, and reliable and validated measures, when available. Most of the survey measures derive from our previous surveys. These items capture self-report of awareness of the program, knowledge of specific program components, completion of the behaviors (HRA and wellness exam), facilitators and barriers to completion, perceptions of the program, self-efficacy, response efficacy, perceived susceptibility, perceived severity, and perceived on benefits. We will also explore how the members received information about the program. The surveys include CAHPS measures and supplemental items. The supplemental items address issues specific to the healthy behaviors. We include several demographic and self-reported health items to be used as adjustment variables in the analyses. See the Supplement to the Proposal for examples of past surveys. Table 10 provides a snapshot of the survey items we have used in the past.

Table 10. Survey Measures in 2019 Healthy Behaviors Incentive Program Evaluation Member Survey

Measure	Measure description	Sources	Previous use
Completion of healthy behavior	Whether a member completed a healthy behavior (medical wellness exam, dental wellness exam, medical health risk assessment, dental health risk assessment)	Original items, based on qualitative interviews	2017, 2018, and 2019
Members assessment of the cost, barriers, and benefits to program participation	Members indicate barriers	Original items, based on qualitative interviews	2017, 2018, and 2019
Members assessment of the cost, barriers, and benefits to program participation	Members indicate benefits	Original items, based on qualitative interviews	2017, 2018, and 2019
Members assessment of the value of the program to them	Members indicate importance	Original items, based on qualitative interviews	2017, 2018, and 2019
Member perception of ease of obtaining a yearly physical exam	Respondent report of how easy it is for them to obtain a yearly physical exam	Original items, based on qualitative interviews	2017, 2018, and 2019
Reported completion of healthy behavior by source of information	Told to complete healthy behavior and who told to complete healthy behavior	Original items, based on qualitative interviews	2017, 2018, and 2019
Self-rated health	How members rated their overall and oral health	Health and Performance Questionnaire	2017, 2018, and 2019
Knowledge of program requirements	Members knowledge of program requirements	Original items, based on qualitative interviews	2017, 2018, and 2019
Members understanding of insurance	Members understanding of insurance coverage and benefits, insurance plan's premiums, and what is needed to do to prevent being disenrolled form insurance coverage	Original items	2019
Members knowledge of payment process	Premium/Hardship waiver awareness	Original items, based on qualitative interviews	2017, 2018, and 2019
Members experience with premium payments	Online premium payment	Original items	2019

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Measure	Measure description	Sources	Previous use
Members experience with premium payments	Barriers to premium payment	Original items, based on qualitative interviews	2017, 2018, and 2019
Value of incentive	Whether member would rather complete healthy behavior program requirements or pay premium	Original items, based on qualitative interviews	2017, 2018, and 2019
Regular source of care-personal doctor	Personal Doctor	CAHPS 5.0	2017, 2018, and 2019
Getting timely appointments, care, and information	Timely receipt of care	CAHPS 5.0	2017, 2018, and 2019
Members perceived locus of control	Locus of control	Validated measure	2017, 2018, and 2019
Members use of Federally Qualified Health Centers	Whether member received care from Federally Qualified Health clinics	Original items	2017, 2018, and 2019
мсо	Which Managed Care Organization member is enrolled in	Original item	2017, 2018, and 2019
Members use of government assistance programs	Whether member participated in government assistance programs	Original item	2017, 2018, and 2019
Food insecurity	Hunger Vital Signs	Hager, E. R., Quigg, A. M., Black, M. M., Coleman, S. M., Heeren, T., Rose-Jacobs, R., & Cutts, D. B. (2019). Development and validity of a 2-item screen to identify families at risk for food insecurity. <i>Pediatrics</i> , 126(1), e26- e32.	2019
Health literacy	Single Item Literacy Screener	Morris, N. S., MacLean, C. D., Chew, L. D., & Littenberg, B. (2006). The Single Item Literacy Screener: evaluation of a brief instrument to identify limited reading ability. BMC family practice, 7(1), 21.	2017, 2018, and 2019
Demographics	Age, gender, employment status, education, and race or ethnicity	Standard questions	2017, 2018, and 2019

Analysis: Survey data will be weighted as appropriate based on our stratified sampling. For the panel survey, we will be examining the survey results for trends over time, specifically looking to answer questions related to the length of exposure to the program and awareness, knowledge and completion. For some research questions and hypotheses, descriptive statistics will be sufficient. When we compare groups, we will use t-tests or chi-squared tests. Modified Poisson regression will be used for multivariate analyses. A modified Poisson regression will allow us to control for sociodemographic characteristics (race/ethnicity, age, gender, education, employment status), other characteristics and experience with programs, as well as other characteristics (health literacy, food insecurity status, participation in government assistant programs, and MCO enrollment), and perceptions/attitudes (perceived benefits, perceived severity, perceived susceptibility, self-efficacy, and response efficacy).

For the longitudinal analysis for the panel survey, we will be adjusting for the dependence from multiple observations from individuals. We have outlined the proposed analysis for each hypothesis in the table above (Table 10).

Limitations/Challenges: Our previous research indicates changes in program implementation can result in confusion among members. This confusion can impact survey responses. We have tested this survey and fielded it 3 times in the past evaluation cycle. We are confident that the survey questions have face validity and the lack of variation between survey years could be an indication of reliability. The COVID-19 pandemic may impact the ability to collect survey data. We are currently surveying Iowans using a variety of methods- online, telephone and mail back. Our experiences with these data collections over the next few months will inform any modifications we will need to make to this proposed data collection.

HBI Disenrollment Survey

To better understand the experiences of people who have been disenrolled due to failure to complete their healthy behavior activities and failure to pay their premiums, we will survey disenrolled members.

Study Design: We will be surveying all members who are have been disenrolled, starting in March 2021. We will continue surveying them at 6 and 12 months post disenrollment.

Sample: We will be surveying all members who have been disenrolled starting in March 2021. On a monthly basis, we receive documentation from IME (discontinuance data) about which members are being disenrolled in that month. We will include all disenrolled members in our survey. Surveys are mailed on a rolling monthly basis to members 3 months after a member is disenrolled. For example, surveys mailed in March will be sent to members who had been disenrolled in December. In some cases, surveys will be sent to multiple members in one household. The monthly groups will vary in size as the monthly number of disenrolled members change.

Survey packets will be initially mailed to each group on the second Wednesday of the month. The packets will include the survey and a cover letter, which describes the survey, states that participation is completely voluntary, and provides a phone number to ask questions or opt out of the study. Respondents will be given the option to complete the survey on paper or online by entering a unique access code. To maximize response rates for the survey, both a pre-paid incentive and post-paid incentive be used: each initial packet will include a \$2 bill (pre-paid incentive), and respondents who return a completed the survey will be sent a \$20 gift card (post-paid incentive). One week after the initial survey packets are mailed, a postcard reminder will be sent. Four weeks after the initial mailing, a reminder survey packet will be sent to those who have not returned a completed survey. We will continue these first monthly surveys until 6 months before the end of

the waiver. We will follow up completed surveys with surveys at 6 and 12 months to understand how disenrollment has impacted people long term.

Survey measures: We will be modifying our existing disenrollment survey to capture members awareness and knowledge of their disenrollment, their experiences with the disenrollment process, consequences to disenrollment, and their awareness and knowledge of the HBI. See the Supplement to the Proposal for examples of past surveys. The table below illustrates the basic measures and domains of the disenrollment survey (Table 11).

Table 11. Survey Measures for Healthy Behavior Incentive Program Evaluation Disenrollment Survey

Measure	Measure description	Sources	Previous use
Experience with disenrollment	Members experiencing with the disenrollment process	Original items, based on qualitative interviews	2017 and 2019
мсо	Which Managed Care Organization member is enrolled in	Original item	2017 and 2019
Members understanding of insurance	Members understanding of insurance coverage and benefits, insurance plan's premiums, and what is needed to do to prevent being disenrolled form insurance coverage	Original items	2019
Members knowledge of payment process	Premium/Hardship waiver awareness	Original items, based on qualitative interviews	2017 and 2019
Members experience with premium payments	Online premium payment	Original items	2019
Members experience with premium payments	Barriers to premium payment	Original items, based on qualitative interviews	2017 and 2019
Knowledge of program requirements	Members knowledge of program requirements	Original items, based on qualitative interviews	2017 and 2019
Completion of healthy behavior	Whether a member completed a healthy behavior (medical wellness exam, dental wellness exam, medical health risk assessment)	Original items, based on qualitative interviews	2017 and 2019
Members assessment of the cost, barriers, and benefits to program participation	Members indicate barriers	Original items, based on qualitative interviews	2017 and 2019
Experience with the health system	Did member have a period without health insurance and impact of not having health insurance	Original items, based on qualitative interviews	2017 and 2019
Access to and unmet needs for emergency care	Rating of timely access to urgent care	CAHPS 5.0	2017 and 2019
Access to and unmet needs for routine care	Rating of timely access to routine care	CAHPS 5.0	2017 and 2019

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Measure	Measure description	Sources	Previous use
Regular source of care- personal doctor	Personal Doctor	CAHPS 5.0	2017 and 2019
Members use of Federally Qualified Health Centers	Whether member received care from Federally Qualified Health clinics	Original items	2017 and 2019
Food insecurity	Hunger Vital Signs	Hager, E. R., Quigg, A. M., Black, M. M., Coleman, S. M., Heeren, T., Rose-Jacobs, R., & Cutts, D. B. (2010). Development and validity of a 2-item screen to identify families at risk for food insecurity. <i>Pediatrics</i> . 126(1), e26-e32.	2017 and 2019
Members use of government assistance programs	Whether member participated in government assistance programs	Original item	2017 and 2019
Self-rated health	How members rated their overall and mental and emotional health	Health and Performance Questionnaire	2017 and 2019
Health since disenrollment	Member's perceived change in health since being disenrolled	Original item, based on qualitative interviews	2017 and 2019
Chronic physical and mental health conditions	Whether members had 16 physical and 9 mental chronic health conditions for at least 3 months	Items taken from IowaCare Evaluation; modified CAHPS	2017 and 2019
Members assessment of the value of the program to them	Members indicate value	Original items, based on qualitative interviews	2017 and 2019
Reason for applying for insurance	Member indicates reason for applying for IWP	Original items, based on qualitative interviews	2017 and 2019
Health literacy	Single Item Literacy Screener	Morris, N. S., MacLean, C. D., Chew, L. D., & Littenberg, B. (2006). The Single Item Literacy Screener: evaluation of a brief instrument to identify limited reading ability. BMC family practice, 7(1), 21.	2017 and 2019
Demographics	Age, gender, employment status, education, and race or ethnicity	Standard measures	2017 and 2019

Analysis: Because the number of people being disenrolled varies by month and can range from small numbers of disenrolled people (for example 40) to larger numbers (for example 300), we are only able to propose descriptive analyses at 3 months following disenrollment, 6 months following disenrollment, and 12 months following disenrollment. We will be examining the data for trends over time both as members are further away from their original disenrollment, as well as how disenrollment at 3 months, 6 months, and 12 months changes over time. The table below outlines the hypotheses and corresponding measures.

Limitations/Challenges: Locating people who have been disenrolled from the program can be difficult. We will be exploring more options to find contact information for people who may be transient. Without these efforts, our sample may only include those who are less mobile and are qualitatively different than others. This limitation will be recognized in all reports and in the dissemination of the findings.

HBI Disenrollment interviews

To better understand how members experience disenrollment and the consequences of disenrollment, we have planned a qualitative data collection that will provide in-depth, rich information. Our previous 1115 Waiver evaluation activities included in-depth interviews. The data gathered from these interviews were valuable in understanding how the HBI program functioned, how members understood the program, and member experiences.

Study Design: We will interview disenrolled members at 6 and 12 months after their disenrollment.

Sample: The sample will be drawn randomly from those who have completed the first disenrollment survey. We will interview approximately 60 disenrolled members at 6 months and follow up with them at 12 months.

Interview protocol: Those who completed the 3-month post disenrollment survey will be sent a letter inviting them to participate in an in-depth interview. The letter will provide them with information for contacting researchers to participate in the interview. There will be 10 attempts to reach the potential respondent to schedule an interview. The interviewer will be specifically trained in qualitative interviewing and will have significant background knowledge about Medicaid and the 1115 Waiver. Interviews will last about 30 minutes, be conducted over the telephone, and be recorded. The recordings will be transcribed by a 3rd party service. Respondents will be provided with a gift card to compensate them for their time.

Interview questions: Our interview guide will be informed by the survey results from the previous years. We will ask open-ended questions to solicit the richest narrative possible. The interview will focus on disenrolled members' experiences since disenrollment, the consequences of disenrollment, and current insurance status. The interview guide will be pilot tested to ensure that the questions are appropriate for the target population.

Analysis: The interviews will be transcribed. We will develop a codebook based on the interview guide and the research questions listed below. Trained coders will code a selection of the transcripts to develop intercoder reliability. Following coding, we will examine the codes for themes to answer the basic questions about disenrolled members' experiences. To understand how experiences vary across time from original disenrollment, we will compare 3 month, 6 month, and 12 month interviews. To examine how the disenrollment process maybe be changing over time, we will analyze across all disenrolled members at 3 months.

Limitations/Challenges: Locating disenrolled members after 6 and 12 months will be challenging. We will develop a retention system to encourage members to provide us with current contact information

HBI Limitations and Alternative Approaches

As with any study, our proposed analyses are subject to some limitations. First, we cannot adequately control for the temporal relationship between completing healthy behaviors and subsequent healthcare utilization and spending. That is, we will not know whether our outcomes of interest occurred before or after the completion of the healthy behavior(s). We will address this to the best of our ability by conducting sensitivity analyses with a lagged dependent variable such that we model a member's outcome in year t as a function of their HBI participation in year t-1. Similarly, to account for partial completion of the requirements and the cumulative effect of completing activities over time, we will rerun all of our multivariable models with HBI participation defined as a running count of the number of activities an individual has completed during the time they have been enrolled (measured as of the given year of the specific observation).

Second, despite employing rigorous analytic strategies to combat them (e.g., propensity score matching), our regression models may be limited by unobserved factors that differ between individuals (e.g., health status, severity of acute illness, health literacy, etc.), for which we are unable to adequately adjust our models. This may bias our results. However, the direction and magnitude of any such bias cannot be well predicted. To address this, we will employ member-level fixed effects where possible. Alternatively, we will construct a hypothetical variable associated with both HBI participation and our outcomes of interest and rerun our analyses to assess the robustness of our results to unobserved confounding. Finally, administrative data are collected for billing and tracking purposes and may not always accurately reflect the service provided.

Evaluation Methods Summary: HBI

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 1: The proportion	of members who complete a welln	ess exam, health risk assessmen	t, or both will vary.
Research Question 1.1: What pr	oportion of members complete a well	ness exam in a given year?	
N/A	Binary indicator for completion of wellness exam	DHS Data and Medicaid Enrollment Data, 2014 - present	Univariate analysis stratified by income group, using t tests to compare the mean completion rate between income groups.
Research Question 1.2: What pr	oportion of members complete an HR	A în a given year?	
N/A	Binary indicator for completion of an HRA	DHS Data and Medicaid Enrollment Data, 2014 - present	Univariate analysis stratified by income group, using tests to compare the mean completion rate between income groups.
Research Question L3: What pr	oportion of members complete both a	wellness exam and an HRA in a gi	ven year?
N/A	Binary indicator for completion of both a wellness exam and an HRA	DHS Data and Medicaid Enrollment Data, 2014 - present	Univariate analysis stratified by income group, using t tests to compare the mean completion rate between income groups.
Hypothesis 2: The proportion and by income level.	of members completing a wellness	exam, health risk assessment, o	r both will change over time
Research Question 2.1: Has the income members?	proportion of members completing a	wellness exam decreased among lo	wer-income members and increased among higher-
N/A	Binary indicator for completion of wellness exam	DHS Data and Medicaid Enrollment Data, 2014 – present	Univariate analysis stratified by year and income grou using t-tests to compare the mean completion rate between income groups and within income groups between years.
Research Question 2.2: Has the members?	proportion of members completing ar	HRA decreased among lower-inco	ome members and increased among higher-income
N/A	Binary indicator for completion of an HRA	DHS Data and Medicaid Enrollment Data, 2014 – present	Univariate analysis stratified by year and income grou using 1-tests to compare the mean completion rate between income groups and within income groups between years.

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Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 2.3: Has the phigher-income members?	proportion of members completing bo	th required activities decreased as	nong lower-income members and increased among
N/A	Binary indicator for completion of both a wellness exam and an HRA	DHS Data and Medicaid Enrollment Data, 2014 - present	Univariate analysis stratified by year and income group using 1-tests to compare the mean completion rate between income groups and within income groups between years.
Hypothesis 3: Member charac	teristics are associated with the like	elihood of completing both requ	ired HBI activities.
Research Question 3.1: Are olde	r, non-Hispanic white females living in	metropolitan counties more likel	y to complete both required activities?
N/A	Completion of both a wellness exam and an HRA		Multivariable modified Poisson regression model adjusting for member demographics and health status a well as social determinants of health and community- level factors. In sensitivity analyses, we will use county- level fixed effects.*
Research Question 3.2: Are men	nbers assigned to some MCOs more like	ely than members assigned to other	er MCOs to complete both required activities?
N/A	Completion of both a wellness exam and an HRA		Multivariable modified Poisson regression model adjusting for member demographics and health status a well as social determinants of health and community- level factors. In sensitivity analyses, we will use county- level fixed effects.*
Research Question 3.3: Is the lea	ogth of time in the program positively		ompleting both required activities?
N/A	Completion of both a wellness exam and an HRA		Multivariable modified Poisson regression model adjusting for member demographics and health status a well as social determinants of health and community- level factors. In sensitivity analyses, we will use county- level fixed effects.*
Research Question 3.4: Are men	nbers with more negative social deterr	ninants of health (SDoH) less likely	y to complete both required activities?
N/A	Completion of both a wellness exam and an HRA		Multivariable modified Poisson regression model adjusting for member demographics and health status a well as social determinants of health and community- level factors. In sensitivity analyses, we will use county- level fixed effects.*

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 3.5: Is the hig	thest income group most likely to con	iplete both required activities?	
N/A	Completion of both a wellness exam and an HRA	present Area Health Decoupers	Multivariable modified Poisson regression model adjusting for member demographics and health status as well as social determinants of health and community- level factors. In sensitivity analyses, we will use county- level fixed effects.*
Hypothesis 4: Completing HBI	requirements is associated with a	member's use of the emergency	department (ED).
Research Question 4.1: Are men	bers who complete the HBI requirem	ents equally likely to have an ED v	isit?
Propensity score matching based Member's likelihood of having any on all-or-none completion of HBI ED visit		DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ⁶
Research Question 4.2: Do mem	bers who complete the HBI requireme	ents have fewer total ED visits anni	ually?
	d was a second	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographies and health status as well as social determinants of health and community-level factors.
Research Question 4.3: Are men	bers who complete the HBI requirem	ents less likely to have a non-emer	gent ED visit?
Propensity score matching base on all-or-none completion of HB requirements:†	d Member's likelihood of having any I non-emergent ED visit (NYU Algorithm)	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors.

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 4.4: Do membe	ers who complete the HBI requireme	nts have fewer total non-emerger	nt ED visits annually?
Propensity score matching based on all-or-none completion of HBI requirements,†	Member's annual number of non- emergent ED visits (NYU Algorithm)	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 – present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using 1-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. \(^{\text{A}}\)
Research Question 4.5: Are memb	ers who complete the HBI requirement	ents less likely to have a 3-day, 7-	day, or 30-day return ED visit?
Propensity score matching based on all-or-none completion of HBI requirements.†	Member's likelihood of having a 3- day return ED visit, Member's likelihood of having a 7-day return ED visit, Member's likelihood of having a 30-day return ED visit	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-lests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ⁶
Research Question 4.6: Do member	ers who complete the HBI requireme	nts have fewer total 3-day, 7-day,	or 30-day return ED visits annually?
Propensity score matching based on all-or-none completion of HBI requirements,†	Member's annual number of 3-day return ED visits, Member's annual number of 7-day return ED visits, Member's annual number of 30-day return ED visits	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ^h
Hypothesis 5: Completing HBI r	equirements is associated with a r	nember's use of hospital obser	vation stays.
Research Question 5.1: Are memb	ers who complete the HBI requirement	ents equally likely to have a hospi	ital observation stay?
Propensity score matching based on all-or-none completion of HBI requirements, †	Member's likelihood of having a hospital observation stay	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors.

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 5.2: Do member	rs who complete the HBI requireme	nts have fewer total hospital obs	etvation stays annually?
Propensity score matching based on all-or-none completion of HBI requirements,†	Member's annual number of hospita observation stays	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 – present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. 6.
Hypothesis 6: Completing HBI re	equirements is associated with a	member's use of inpatient hosp	ital care.
Research Question 6.1: Are membe	ers who complete the HBI requirem	ents equally likely to be hospitali:	zed?
Propensity score matching based on all-or-none completion of HBI requirements.†	Member's likelihood of being hospitalized	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using 1-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ^A
Research Question 6.2: Do member	rs who complete the HBI requireme	nts have fewer total hospitalizati	ons annually?
Propensity score matching based on all-or-none completion of HBI requirements.†	Member's annual number of hospitalizations	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 – present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors.
Research Question 6.3: Are member	ers who complete the HBI requirem	ents less likely to have a potential	lly preventable hospitalization?
on all-or-none completion of HBI a	Member's likelihood of experiencing a potentially-preventable hospitalization	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors.^

Comparison Strategy Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 6.4: Do members who complete the HBI require	ments have fewer total potentially p	reventable hospitalizations annually?
Propensity score matching based Member's annual number of on all-or-none completion of HBI potentially-preventable requirements.† hospitalizations	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ^
Research Question 6.5: Are members who complete the HBI require	ements less likely to have a 30-day a	Il-cause readmission?
Propensity score matching based Member's likelihood of experienc on all-or-none completion of HBI a 30-day all-cause readmission requirements.†	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ⁶
Research Question 6.6: Do members who complete the HBI require	ments have fewer total 30-day all-ca	use readmissions annually?
Propensity score matching based Member's annual number of 30-d on all-or-none completion of HBL all-cause readmissions requirements.†	DHS Data and Medicaid Enrollment Data, Area Jay, Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ^h
Hypothesis 7: Completing HBI requirements is associated with	shifts in patterns of member's he	alth care utilization.
Research Question 7.1: Do members who complete the HBI require hospitalizations?	ments have fewer potentially preven	ntable hospitalizations as a proportion of total
Propensity score matching based Potentially-avoidable on all-or-none completion of HBI hospitalizations as a proportion of requirements, † total hospitalizations	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - prosent	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests, Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ⁵

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 7.2: Do membe	ers who complete the HBI requireme	nts have fewer non-emergent ED	visits as a proportion of total FD visits?
	Non-emergent ED visits as a proportion of total ED visits	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 – present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. A
Research Question 7.3: Do member	ers who complete the HBI requireme	nts have more primary care visits	s as a proportion of total outpatient visits?
	Primary care visits as a proportion of all outpatient visits	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. ^A
Hypothesis B: Completing HBI r	equirements is associated with a r		ures.
Research Question 8.1: Do membe	ers who complete the HBI requireme	nts have lower spending in all ca-	tegories?
Propensity score matching based on all-or-none completion of HBI requirements.†	Total health care expenditures Inpatient health care expenditures Potentially-preventable hospitalization expenditures Outpatient health care expenditures Primary care expenditures ED health care expenditures Non-emergent ED health care expenditures Pharmacy expenditures	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	Bivariate analysis, comparing means of members who completed vs. did not complete required activities within each income group using t-tests. Multivariable modified Poisson model among our propensity score matched sample, adjusting for member demographics and health status as well as social determinants of health and community-level factors. A

Healthy Behaviors Incentive Program

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 9: We will identify d	lisparities in the relationships bet	ween HBI completion and outc	omes.
	ities exist in the following population groups, rural individuals, and by sex		multiple chronic conditions, individuals with OUD,
Propensity score matching based	As defined above for research questions 4.1 - 4.6, 5.1 - 5.2, 6.1 - 6.6, 7.1 - 7.3, and 8.1	DHS Data and Medicaid Enrollment Data, Area Health Resources File, Area Deprivation Index, American Community Survey, DHS Social Determinants of Health data, 2014 - present	We will repeat the analyses outlined for research questions 4.1-4.6, 5.1-5.2, 6.1-6.6, 7.1-7.3, and 8.1, using interaction terms and/or running stratified models to identify differences in the association betwee HBI participation and outcomes among the following groups of members: High utilizers (those in the top quintile for number of outpatient, ED, and/or hospital visits) Individuals with multiple chronic conditions (defined categorically as 0/1, 2-3, 4+) Individuals with opioid use disorder Race/Ethnicity, Rurality, Sex
Hypothesis 10: Members who ha time.	ave been enrolled longer are more	e aware of the HBI program tha	n those who have been enrolled a shorter period of
Research Question 10.1: What is the	he level of awareness about the HBI	program among members?	
Members with awareness of the HBI program and those without awareness	Existing survey items on awareness	HBI Phone Survey	T-test
	g are members enrolled in the progra	im?	
		am? Eligibility data	T-test
Research Question 10.2; How long Members with awareness of the HBI program and those without awareness		Eligibility data	

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 11: Members who I period of time.	nave been enrolled longer have mo	re knowledge about the HBI	program than those who have been enrolled a shorter
Research Question 11.1; What sp	ecific knowledge about the HBI progr	ram do members report?	
Members with knowledge of the HBI program and those without	Existing survey items on knowledge	HBI Phone Survey	T-test
Research Question 11.2: Do mem	bers understand the incentive/disinc	entive part of the HBI program	n?
Members with knowledge of the HBI program and those without	Existing survey items on knowledge	HBI Phone Survey	T-test
Research Question 11.3: Do mem	bers know they need to pay a premiu	im monthly?	
Members with knowledge of the HBI program and those without	Existing survey items on knowledge	HBI Phone Survey	T-test
Research Question 11.4: Do mem	bers know about the hardship waive	r?	
Members with knowledge of the HBI program and those without	Existing survey items on knowledge	HBI Phone Survey	T-test
Research Question 11.5: How lon	g have members been enrolled?		
Members with knowledge of the HBI program and those without	Length of enrollment	Eligibility data	T-test
Hypothesis 12: Those who are not aware.	aware of the HBI program are mor	e likely to complete the beha	aviors (HRA and well exam) compared to those who we
Research Question 12.1: What is	the level of awareness of the HBI pro-	gram?	
Completion of behaviors of members with awareness will be compared to completion for those without awareness	Existing survey items on awareness	HBI Phone Survey	Chi square, Modified Poisson regression
Research Question 12.2: What is	the level of completion of the HRA an	d well exam?	
Completion of behaviors of members with awareness will be compared to completion for those without awareness	Binary indicator of completing both a wellness exam and HRA	DHS claims data	Chi square, Modified Poisson regression

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 13: Those who have those with less knowledge.	more knowledge about the HBI p	rogram are more likely to co	implete the behaviors (HRA and well exam) compared to
Research Question 13.1: What is t	he level of knowledge about the HBI	program?	
Completion of the behaviors of members with knowledge about the program will be compared to completion of behaviors for those without knowledge of the program	Existing survey items on program knowledge	HBI Phone Survey	Chi square, Modified Poisson regression
Research Question 13.2: What is t	he level of completion of the HRA an	d well exam?	
	Binary indicator of completing both a wellness exam and HRA	DHS claims data	Chi square, Modified Poisson regression
Hypothesis 14: Members socio-	demographic characteristic and p	erceptions/attitudes are ass	ociated with awareness of the HBI program.
Research Question 14.1: What is t	he level of HBI program awareness?		
Members based on HBI program awareness	Existing survey items on awareness	HBI Phone Survey	Modified Poisson regression
			inployment, race, and ethnicity) of members?
Members based on HBI program awareness	Existing demographic survey items	HBI Phone Survey	Modified Poisson regression
of members?			ed susceptibility, perceived severity, and perceived benefit]
Members based on HBI program awareness	Existing survey items on perception and attitudes	SHBI Phone Survey	Modified Poisson regression
Hypothesis 15: Members socio	demographic characteristic and p	erceptions/attitudes are ass	sociated with knowledge of the HBI program.
Research Question 15.1: What is t	he level of HBI program knowledge?		
Members based on HBI program knowledge	Existing survey items on program knowledge	HBI Phone Survey	Modified Poisson regression
Research Question 15.2: What so	io-demographic characteristics (age	, gender, income, education, er	iployment, race, and ethnicity) of members?
Members based on HBI program	Existing demographic survey items	HBI Phone Survey	Modified Poisson regression

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
of members?			red susceptibility, perceived severity, and perceived benefit
Members based on HBI program awareness	Existing survey items on perception and attitudes	SHBI Phone Survey	Modified Poisson regression
Hypothesis 16: Members socio	-demographic characteristic and p	erceptions/attitudes are ass	sociated with completion of the HRA and well exam.
Research Question 16.1; What is	the level of completion of the HRA an	d well exam?	
Members based on completion of HRA and well exam	Existing survey items on HRA and well exam completion	HBI Phone Survey	Modified Poisson regression
			ation, employment, race, and ethnicity) of members?
Members based on completion of HRA and well exam	Existing demographic survey items	HBI Phone Survey	Modified Poisson regression
of members?		***	red susceptibility, perceived severity, and perceived benefit
Members based on completion of HRA and well exam	Existing survey items on perception and attitudes	SHBI Phone Survey	Modified Poisson regression
Hypothesis 17: Members are n	ost likely to hear about the HBI pr	ogram from their MCO,	
Research Question 17.1: Where a	ire members learning about the HBI p	orogram and program compon	ents?
Compare sources of information	Existing survey items on where members learn about HBI program	HBI Phone Survey	Descriptive
Hypothesis 18: Members repor	rt difficult in using hardship waive		
Research Question 18.1: What ar	e the perceptions of the ease of use o	f the hardship waiver?	
n/a	Existing survey items on perception of hardship waiver and barriers to using hardship waiver		Descriptive
Research Question 18.2: What ar	e the challenges members reporting	n using the hardship waiver?	
n/a	Existing survey items on perception of hardship waiver and barriers to using hardship waiver		Descriptive
Hypothesis 19: Members who	do not complete the HRA and well	exam report barriers to com	pleting the behaviors.
Research Question 19.1; What ar	e the barriers to completing the HRA	and wellness exam as reporte	d by the members?
n/a	Existing measure of barriers to completion of HRA and well exam	HBI Phone Survey	Descriptive

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 20: Disenrolled m	embers report no knowledge of th	e HBI program:	
Research Question 20.1: What i	s the level of HBI program knowledge	e among disenrolled members?	
n/a	Existing survey measures on HBI program knowledge	Disenrollment Survey	Descriptive
Hypothesis 21: Disenrolled m	embers describe confusion aroun	d the disenrollment process.	
Research Question 21.1: How d	o disenrolled members describe the	process of learning about the d	isenrollment?
n/a	Qualitative questions	Interviews	Descriptive/Thematic analysis
Hypothesis 22: Disenrolled m	embers report consequences to th	eir disenrollment.	
Research Question 22.1: What h	appened after members are disenvol	lled for non-payment?	
n/a	Qualitative questions	Interviews	Descriptive/Thematic analysis
Research Question 22.2: Will di	senrolled members be able to reenro	ll to health insurance coverage	7
n/a	Existing survey questions on disenrollment experience	Disenrollment survey	Descriptive/Thematic analysis
Research Question 22.3: Do the	consequences change over time?		
n/a	Existing survey questions on disenrollment experience	Disentollment survey	Descriptive/Thematic analysis

Tin analyses designed to test the relationship between completion of HBI requirements and various health care utilization and spending outcomes, we will use propensity score matching to reduce unobserved confounding between members who do and do not complete the requirements. Specifically, we will model the likelihood of completing the HBI requirements and will match individuals who completed both required activities to individuals who completed activities based on their propensity scores using nearest neighbor matching, individuals who completed only one of the two required activities will be excluded. After matching, we will visually inspect the covariates to confirm that our target and control groups are balanced with respect to observed covariates.

*We will estimate either modified Poisson or ordinary least squares regression models (depending on whether our outcomes are binary, count, or continuous). In some cases, there will be no comparison group. In other cases, we will estimate our models among our propensity score matched sample as described above and earlier in the table that presents our analytic approach. All models will aljust for member demographics including age, gender, race/ethnicity, rurality, and income-group. All models will also adjust for members' health status using both a mental health indicator and a substance abuse indicator derived from diagnosis codes in the claims data, as well as annual counts of the total number of outpatient visits, the total number of prescription medications, and the total number of chronic conditions with which a member has been diagnosed. We will also adjust for other factors that may be associated with the likelihood of a member completing the HBI requirements or the outcomes of interest, including the number of times during the year that a member's residence changes, an indicator of the MCO in which the member is enrolled, the member's total years of enrollment (as a running count of cohorts), and a cohort fixed effect. Finally, we will adjust for social determinants of health, community health care resources, and other contextual factors drawn from the Area Health Resources File, Area Deprivation Index, the American Community Survey, and data collected by the MCOs and provided to PMS.

collected by the MCOs and provided to DHS.

"We will also conduct sensitivity analyses, For example, in lieu of the specific community-level factors described in the preceding factors, we will adjust for all observed and unobserved variation at the county level using fored effects. This has the advantage of better controlling for omitted variables but results in a limited ability to identify specific factors. Where feasible, we will also explore the use of individual-level fixed effects for the same reason. Finally, to assess the extent to which there is a dose-response relationship between completing the HBI requirements and our outcomes of interest, we will define our key independent variable in those models as a running count of the number of HBI requirements completed during the period in which a member was enrolled.

Logic Model: HBI

			2020 HBI EVALUATIO	N LOGIC MODEL	
he Healthy Behaviors Progra		eve paying monthly premitte		aith asverage at low of no cost to low-income lowers between the ages of 19 and 64 wing healthy behaviors annually: receive a wellows exam (WEI from their health care	
and completing on HRA) to a		d take pweership in manage	ig their own health. Using a fina	eers and coverage. The HRI programs is designed to empower members to Take specific initial ascentive, members are encouraged to complete their healthy behaviors, lideal erial stability.	
YOUR PLANNED WORK YOUR INTENDED RESULTS					
Inputs	Activities	Participation	Short-Term Outcomes	Muslum-Term Outcomes	Long-Term Dutumes
Makker Jamenson - Affalin segio 18-64 - Indiamen up to 1340-FF. - Affalin segio 18-64 - Indiamen up to 1340-FF. - Edicinal - CASS- Federal - CASS- Federal - CASS- Sediment up to 1340-FF. - Edicinal - CASS- Federal - Edicinal - CASS- Federal - Edicinal - Forman - Forman	Committee Management (Management of Management of Manageme	Completion of WE Completion of BNA Completion of BNA Completion of Both WE and INV E and E a	Increased sectormed society to program among members, increased howevides of the program among members, increased howevides of the program among the proportion of members that complete a VE. Change out of members that complete a VE. Change out of members that complete and VE. Change out of members that complete and VE. Change out of members that accomplete and VE. The program of the program of the program of the tomplete and VE. Proportion of members with a section of VE. Proportion of members with a very decident to the program of members with a MANU. Proportion of members with a very decident to the program of the progra	Feducad van et the emergency department (ED) Soulcard Michael of Having an ED-visit Registered and ED visit Registered Annual of the Sound-mergent ED visit Annual	Information Internation Interface of the Internation
IHAWP mumbers have kin	plote the HBP respondents prinding about the HBP (i.e., ma- on premiums, availability of the eventive health services		· Underlying health status of	EXTERNAL FACTORS of modical and dental providers to participate as plan-corolled providers for exam-	rates, tack of portional man

2) Dental Wellness Plan: Healthy Behaviors, Premiums, and Dental Benefits

Background

Beginning in May 2014, CMS approved Iowa's request to offer dental benefits to Iowa Health and Wellness Plan (IHAWP) members through the Dental Wellness Plan (DWP), Section 1115 Demonstration Amendment. Iowa Wellness Plan. Project #11-W-00289/5. State of Iowa Department of Human Services. May 1, 2017,

https://dhs.iowa.gov/sites/default/files/lowa_DWP_Draft_1115_Final_05.1.17.pdf.

Originally, DWP offered tiered dental benefits to the state's Medicaid expansion population (ages 19 to 64), allowing members to earn enhanced benefits by returning for regular periodic recall exams every 6-12 months. Three years later, on May 1, 2017, the State of lowa proposed a waiver amendment, to be effective July 1, 2017. Prior to July 1, 2017, Iowa provided dental benefits to adult enrollees via two different benefit packages and management strategies, which varied by eligibility group. Individuals eligible through the Medicaid expansion were enrolled in the original DWP. All other Medicaid-enrolled adults received State Plan dental benefits via the traditional, fee-for-service delivery system. With the amendment, the State proposed to offer a single, unified adult dental program – DWP 2.0 – for most Medicaid populations. This unified dental program is intended to ensure continuity of care as members transition between Medicaid eligibility categories.

Healthy Behavior Requirements

Along with merging adult dental benefits into a single program, the 1115 waiver amendment also modified the DWP benefit structure. The DWP 2.0 structure eliminated the tiered benefits in response to concerns that too few members had become eligible for higher benefit tiers. Instead, the 1115 waiver amendment allowed members to be eligible for comprehensive dental benefits during their first year of enrollment. However, the modified earned benefit structure in DWP 2.0 requires members to complete State-designated healthy dental behaviors annually to maintain comprehensive dental benefits after the first year of enrollment. Healthy dental behaviors include (1) completion of an oral health self-assessment and (2) a preventive dental visit.

Monthly Premiums

Members over 50% of the Federal Poverty Level (FPL) who do not complete required healthy behaviors during year one of enrollment have a **premium obligation** beginning in year two. If members fail to make the monthly \$3.00 premium payments, benefits are reduced to basic coverage benefits only, which mainly includes problem-focused oral exams and tooth extractions.

Annual Benefit Maximum

Consistent with the previous Medicaid State Plan and DWP 1.0, originally there was no annual benefit maximum (ABM) with DWP 2.0. However, beginning September 1, 2018, a \$1,000 ABM was implemented. This maximum applies to all members except ages 19-20, who are excluded per EPSDT requirements. Individual members with unique circumstances may apply for an Exception to Policy to be eligible for a higher benefit amount.

Certain DWP members are excluded from premium obligations and reduced benefits for failure to complete the healthy behaviors. This includes the following groups:

- 1. Pregnant women
- Individuals whose medical assistance for services furnished in an institution is reduced by amounts reflecting available income other than required for personal needs
- 3. 1915(c) home and community-based waiver enrollees
- 4. Individuals receiving hospice care
- Indians eligible to receive services through Indian health care providers or under contract health services
- 6. Breast and cervical cancer treatment program enrollees
- 7. Medically frail (i.e., medically exempt) enrollees
- 8. Enrollees who attest to a financial hardship
- 9. Members with income <50% FPL
- 10. 19 and 20-year-olds receive EPSDT coverage regardless of healthy behaviors completion or premium payments.

DWP Policy Goals

The overall goal of the Iowa Wellness Plan is to "provide access to healthcare for low-income Iowans by employing a benefit design that was intended to improve outcomes, increase personal responsibility, and ultimately lower costs" (Letter to CMS Director Brian Neale from Iowa Medicaid Director Mikki Stier, May 1, 2017). Additionally, the goals of Iowa's Section 1115 Waiver Amendment for the DWP are to "encourage utilization of preventive dental services and compliance with treatment plans by requiring members to complete a State designated "healthy behavior" annually. Enrollees who complete their healthy behavior, including an oral health self-assessment and preventive dental exam, within their first year of enrollment will maintain full dental benefits, while those who do not complete the healthy behaviors will be required to make monthly premium payments to maintain full dental benefits." Thus, goals can be summarized as follows:

- 1. Provide access to dental care
- 2. Improve oral health outcomes
- 3. Encourage utilization of preventive dental services
- 4. Encourage compliance with dental treatment plans
- 5. Complete annual healthy dental behaviors
- 6. Maintain full dental benefits annually

DWP Adjustments for the impact of the COVID-19 pandemic

All analyses and comparisons will need to account for effects of the COVID-19 pandemic in Iowa. Specifically, the evaluation will need to consider effects on access to dental care beginning in March 2020. On March 17, 2020, the Iowa Dental Association and the Iowa Dental Board issued guidance that recommended adherence to American Dental Association (ADA) guidelines to cease elective dental care. On March 27, 2020, Governor Reynolds mandated cessation of non-emergency dental care. Beginning May 8, 2020, Iowa permitted dentists to begin providing routine dental care. However, guidance from the CDC and OSHA at that time recommended against resuming elective dental treatment.

At least three impacts of the pandemic are immediately apparent for DWP members.

- For a period of no less than seven weeks during SFY 2020, DWP members were unable to complete the health dental behavior requirement for an annual dental visit.
 - → Expected effect on DWP evaluation: Analyses will need to account for reduced time available to complete an annual dental visit.
- DWP members like the rest of the population may have had difficulty obtaining emergency dental care for a substantial period of time during SFY 2020. In a survey conducted by the ADA² during the week of April 20, 17% of dental offices nationally were closed and not seeing any patients.
 - Expected effect on DWP evaluation: Analyses will need to consider impact on member access to emergency care and use of emergency departments (EDs) for non-traumatic dental conditions.
- 3. Teledentistry expanded rapidly in Iowa during the pandemic.
 - → Expected effect on DWP evaluation: Analyses will need to consider whether teledentistry resulted in any substitution effects after May 8th and how Iowa Medicaid Enterprise and the PAHPs responded to teledentistry visits.

The evaluation will also explore whether dentist participation in DWP was affected by the pandemic and the impact of waiving premiums during the pandemic public health emergency.

Potential adjustments to analyses include use of monthly indicators related to specific proclamations by the state and dental organizations, along with trends in the prevalence of COVID-19.

Hypotheses and Research Questions

Topic 1: Member perceptions of HDB requirements and associated disincentives.

Hypothesis 1: Higher levels of awareness and perceived ability to comply with requirements will be associated with favorable attitudes towards the DWP benefit structure.

Research Question 1A: What level of awareness do members have of the DWP program (including HDB requirements, monthly premiums, annual benefit maximum, and benefit structure)?

Subsidiary Hypothesis IA.1: Members who have been enrolled longer will have higher levels of awareness than new enrollees.

Subsidiary Hypothesis 1A.2: DWP 2.0 enrollees will have higher levels of awareness than DWP 1.0 enrollees

Research Question 1B: Do members view HDB requirements as a favorable alternative to monthly premiums?

Subsidiary Hypothesis 1B.1: HDBs will be preferred over monthly premiums.

Subsidiary Hypothesis 1B.2: A majority of members will maintain full benefits via completing HDBs rather than via paying premiums.

https://www.ada.org/en/publications/ada-news/2020-archive/april/third-wave-of-hpi-polling-shows-dentists-response-to-covid-19

Research Question 1C: Do members view expanded dental benefits as preferable over basic benefits?

Subsidiary Hypothesis 1C.1: Members with full benefits will be more likely to prefer expanded dental benefits over basic benefits compared to members with basic benefits.

Research Question 1D: What are the barriers to completing HDBs?

Subsidiary Hypothesis 1D.1: DWP members who are exempt from HDBs will have equal access to dental care to those with the HDBs.

Subsidiary Hypothesis 1D.2: Barriers to care in DWP 2.0 will be lower than pre-DWP 2.0.

Subsidiary Hypothesis 1D.3: Members with full benefits will report fewer barriers than members with basic benefits.

Research Question 1E: What are the characteristics of members with awareness of the program?

Subsidiary Hypothesis 1E.1: Demographic, socioeconomic, eligibility, length of enrollment, and healthrelated characteristics will be associated with awareness.

Research Question 1F: How are members learning about the program?

Subsidiary Hypothesis 1F.1: Members will report receiving information about DWP from multiple sources.

Subsidiary Hypothesis 1F.2: Members will report that information from their PAHP helped them understand their dental benefits.

Research Question 1G: What are members' experiences applying for the financial hardship waiver?

Subsidiary Hypothesis 1G.1: Members will report low levels of awareness of the financial hardship wether.

Subsidiary Hypothesis 1G.2: The percentage of members with hardship waivers will increase over time.

Research Question 1H: How satisfied are members with basic benefit levels?

Subsidiary Hypothesis 111.1: Members will have high levels of satisfaction with basic dental benefits.

Topic 2: Impact of member attitudes and experiences with the DWP benefit structure on completion of HDBs

Hypothesis 2: Completion of HDBs will be positively associated with awareness, ability to comply with requirements, and attitudes.

Research Question 2A: What proportion of DWP members complete HDBs annually?

Subsidiary Hypothesis 2A.1: Members with longer lengths of enrollment are more likely to complete HDBs

Subsidiary Hypothesis 2A.2: IWP-eligible members are more likely to complete HDBs than MSP-FMAPeliaible members.

Subsidiary Hypothesis 2A.3: DWP 2.0 members will have higher rates of preventive dental visits compared to pre-DWP 2.0

Research Question 2B: Are members with hardship exemptions less likely to complete HDBs? Subsidiary Hypothesis 2B.1: Members with hardship exemptions will be less likely to complete HDBs.

Research Question 2C: How does HDB completion relate to awareness, ability to comply with requirements, and attitudes?

Subsidiary Hypothesis 2C.1: Completion of HDBs will be associated with awareness, ability to comply with requirements, and attitudes.

Topic 3: Impact of DWP benefit structure on members' care-seeking behavior

Hypothesis 3: DWP members who complete HDBs will be more likely to receive needed preventive care and treatment in a dental office.

Research Question 3A: Are the HDB requirements associated with increased use of preventive

Subsidiary Hypothesis 3A.1: Members who are not exempt from HDBs will be more likely to have a preventive dental visit than members who are exempt.

Research Question 3B: Are members able to find a dental home?

Subsidiary Hypothesis 3B.1: Likelihood of having a regular source of dental care will increase with length of enrollment.

Subsidiary Hypothesis 3B.2: Newly enrolled members will be able to find a participating dental provider.

Subsidiary Hypothesis 3B.3: DWP 2.0 members will be more likely to have a dental home compared to pre-DWP 1.0.

Research Question 3C: Is completion of HDBs associated with members' use of the emergency department (ED) for non-traumatic dental conditions (NDTCs)?

Subsidiary Hypothesis 3C.1: Members who complete the HDBs will have fewer ED visits for NTDCs annually.

Subsidiary Hypothesis 3C.2: Members who complete the HDBs will be more likely to follow-up with a dentist after an ED visit for a NTDG.

Research Question 3D: Did the introduction of an annual benefit maximum (ABM) influence the types of care members receive?

Subsidiary Hypothesis 3D.1: Members post-ABM will be less likely to receive fixed and removable prosthodontic procedures (excluding complete dentures).

Research Question 3E: How does DWP change dental utilization?

Subsidiary Hypothesis 3E.1: Dental utilization within the DWP population will be as high or higher than utilization in other states.

Topic 4: Impact of DWP benefit structure on members' oral health

Hypothesis 4: DWP members' oral health will improve over time.

Research Question 4A: How do members rate their oral health?

Subsidiary Hypothesis 4A.1: Self-rated oral health will improve over time.

Research Question 4B: Do members with basic benefits have similar unmet treatment needs compared to those with full benefits?

Subsidiary Hypothesis 4B.1: Members with basic benefits will have similar levels of unmet dental need compared to individuals with full benefits.

Research Question 4C: Do the two benefit levels exacerbate health disparities?

Subsidiary Hypothesis 4C.1: Members with basic benefits will not have significantly lower self-rated oral health than individuals with full benefits.

Topic 5: Impact of the COVID-19 pandemic on DWP member service utilization and provider service provision

Hypothesis 5: DWP member service utilization and provider service provision will change due to system changes associated with COVID-19 over time.

Research Question 5A: Have DWP members' ability to access services changed during the COVID-19 pandemic?

Subsidiary Hypothesis 5.4.1: Members will be less likely to have diagnostic or preventative dental visits during the COVID-19 pandemic.

Subsidiary Hypothesis 5A.2: Members will be more likely to have an unmet need for dental care during the COVID-19 pandemic.

Research Question 5B: Is the COVID-19 pandemic associated with members' use of the emergency department (ED) for non-traumatic dental conditions (NDTCs)?

Subsidiary Hypothesis 5B.1: Members will be more likely to have ED visits for NTDCs during the COVID-19 pandemic.

Research Question 5C: Did the COVID-19 pandemic impact provider participation in DWP?

Subsidiary Hypothesis 5C.1: Providers will be less likely to accept new DWP members during and after the COVID-19 pandemic

Subsidiary Hypothesis 5C.2: Dental providers will be more likely to offer tele-dentistry services during the COVID-19 pandemic.

Research Question 5D: Have DWP members' barriers to care changed during the COVID-19 pandemic?

Subsidiary Hypothesis 5D.1: Members will be more likely to avoid dental care due to perceived risk of COVID-19.

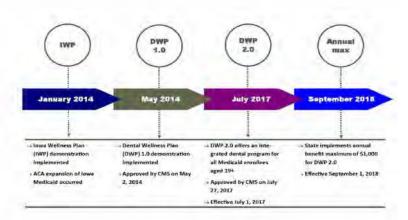
Subsidiary Hypothesis 5D.2: Members will be more likely to utilize teledentistry during the COVID-19 pandemic.

Evaluation Periods

For this evaluation of DWP 2.0, the "pre" period includes SFY 2017 and prior years (Figure 1); the "post" period includes SFY 2018 through the present. Certain hypotheses and measurements will examine pre-post effects related to the September 2018 implementation of the annual benefit max.

State fiscal years will be used to delineate most evaluation periods because most policy changes have been implemented using this timeline.

Figure 1. Dental Wellness Plan policy timeline



Data Sources, Analysis Methods, and Measures

Data sources

Member survey: Member survey-based outcomes will use data from cross-sectional member surveys that are fielded every 1.5 years throughout the evaluation period to track changes in outcomes over time.

Surveys are administered to a stratified random sample of DWP members, including stratification by benefit level, length of enrollment, and PAHP carrier. Samples are drawn from Medicaid eligibility data. Members must have been enrolled in DWP for at least the previous six months to be eligible to receive the survey. Surveys are conducted by mail with an option to complete online. Reminder postcards are sent 2 weeks after the initial fielding date, and a second survey by mail 4 weeks later. A \$2 bill will be included in the first mailing as an incentive, and respondents who return their survey within the first two weeks will be entered into a drawing for one of ten \$100 gift cards. The sample frame excludes women eligible due to pregnancy and only allows one person per household to be selected. Many survey items have remained constant since pre-DWP 2.0, which will allow us to examine comparisons over time p DWP 2.0 pre- and post- DWP 2.0 implementation. Based on previous surveys, we anticipate a 20-30% response rate.

Provider survey: Provider survey-based outcomes will use data from cross-sectional surveys of private practice dentists fielded every 1.5 years throughout the evaluation period. Surveys are

administered to all private practice dentists in Iowa (~n=1300) drawn from the Iowa Health Professions tracking system housed in the University of Iowa College of Medicine. Surveys are conducted by mail with an option to complete online, and the reminder schedule is the same as the member survey. No incentives are used. Based on previous surveys, we anticipate a response rate of 40-45%.

Consumer in-depth interviews: In-depth telephone interviews will be conducted with a random sample of DWP members, targeting equal representation of members with full and with basic benefits. Key interview topics will include awareness, experiences, and barriers to HDB completion, as well as the perceptions of premiums as an alternative to HDB completion. Interviews will be conducted until saturation is reached.

Administrative claims data: This evaluation will use claim, encounter, and enrollment data to evaluate administrative outcomes. For most administrative measures, the sample includes IWP and MSP-FMAP eligibility categories.

Analyses

Descriptive statistics: Simple univariate statistics, including frequencies, percentages, measures of central tendency, and percentiles will be used to describe measures and characteristics of members in each study population.

Trends over time: Where data are available, we will compare trends in measures over time. This will allow us to examine changes that occurred after major policy changes (e.g., change from DWP 1.0 to DWP 2.0 benefit structure) or other events (e.g., COVID-19 pandemic). Alluvial charts, or Sankey diagrams, will also be used to visualize changes over time. These diagrams are especially useful to see how the member population flows into and out of the program and across benefit levels (e.g., from full to basic benefits). Outcomes from 2018 will provide DWP 2.0 baseline data as available, while DWP 1.0 data from 2017 will provide pre-DWP 2.0 comparisons. Overall, outcomes from 2017-2019 are available to examine trends for several measures. Comparative interrupted time series (CITS) will use a Difference in Difference (DID) estimation to examine the effect of a policy by comparing the pre- and post-program means in the study population using the means in comparison population as the counterfactuals.

Bivariate analysis: Chi-square tests, t-tests (or non-parametric alternatives), and ANOVA will be used to identify associations between outcomes and predictor variables (e.g., measures and demographic characteristics, or measure outcomes across years). Bivariate analyses are frequently used to test differences between member groups on survey responses, as the number of respondents in these groups are rarely large enough to allow more complex tests such as regression analyses.

Multivariable regression: multivariable analysis to identify factors associated with binary outcomes (e.g., having a dental visit in the previous 12 months) will be performed using demographic and other individual-level characteristics as predictors. Based on previous years' evaluation, we anticipate that zero-inflated regression (e.g., zero-inflated Poisson or zero-inflated negative binomial models) will be the most appropriate choice to model data. In the 2018 DWP 2.0 evaluation, we used difference-in-differences analysis to test the effects of DWP 2.0 implementation. In subsequent years, this methodology (i.e., pre-post comparisons) is no longer applicable. However, we are still interested in examining predictors of certain outcomes of interest (e.g., completion of healthy dental behaviors). We will use difference-in-difference analysis (using modified Poisson regression and OLS as appropriate based on the outcome) to model the use of the emergency department (ED) for nontraumatic dental conditions (NTDCs). The control group is

defined as members who never completed any HBI requirements in any year in which they were enrolled. The full treatment group is defined as members who completed all HDB requirements in all years in which they were enrolled. There will also be three partial treatment groups defined as follows: (1) members who completed BOTH HDB requirements, but only in SOME years in which they were enrolled; (2) completed SOME requirements in ALL years in which they were enrolled; (3) members who completed SOME requirements, but only in SOME years in which they were enrolled. The models will also adjust for other demographic characteristics of members and the communities in which they live. Depending on sample sizes and other aspects of the data, we may ultimately collapse the three partial treatment groups into a single partial treatment group. We will also explore the use of individual-level fixed effects in sensitivity analyses. Based on tests of the parallel trends assumption, we will use propensity score matching and inverse probability of treatment weights as needed.

Cross-state comparisons. We will explore various sources of aggregate cross-state data in order to provide descriptive comparisons of state-level results and offer context for Iowa-specific outcomes relative to other states. States will be categorized based on (1) whether they expanded Medicaid and (2) whether they offer comprehensive adult dental benefits to the Medicaid/Medicaid-expansion populations. Comparisons will be made across these categories. Possible sources of comparison data include the Behavioral Risk Factor Surveillance System (BRFSS) and the National Health and Nutrition Examination Survey (NHANES). Several limitations must be noted. First, BRFSS does not ask a question about dental utilization every year. For example, the 2019 BRFSS does not include this survey item, however 2018 does as "how long has it been since you last visited a dentist or a dental clinic for any reason". Second, cross-state comparisons are limited by potential release of recent data. For example, as of May 2020, the most recent NHANES oral health data release is 2017-2018.

We will compare BRFSS responses that indicate dental visits within the past year to our responses from the Iowa Consumer Survey. Where possible, trends by year will be explored.

NHANES also includes an oral health questionnaire component with an item that asks when someone last visited a dentist. The NHANES oral health questionnaire also asks about unmet need, cost barriers, and other barriers to care (e.g., transportation, distance, office hours, or fear of the dentist). As described above, we can potentially compare rates of dental utilization within the past year and barriers to care with Iowa Consumer Survey data. The PPC surveys of DWP enrollees have included items about utilization and barriers to care since 2014, allowing us to also explore comparisons over time. We will confirm that we are replicating item wording on Iowa DWP Consumer Survey questionnaires to match regularly repeated national surveys.

 ${\it Evaluation Methods Summary: Member perceptions of HDB \ requirements \ and \ associated \ disincentives.}$

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 1: Higher levels of awarene towards the DWP benefit structure.	ess and perceived ability to comply with re	quirements will be associa	ted with favorable attitudes
Research Question 1A: What level of awar benefit maximum, and benefit structure)?	eness do members have of the DWP program	(including HDB requirement	ts, monthly premiums, annual
Subsidiary Hypothesis 1A.1: Members who	have been enrolled longer will have higher levi	els of awareness than new enr	ollees.
Newly enrolled members vs. longer-term enrollees	Member awareness of self-risk assessment HDB requirement	DWP Member Survey	Descriptive, Bivariate
Newly enrolled members vs. longer-term enrollees	Member awareness of annual exam HDB requirement	DWP Member Survey	Descriptive, Bivariate
Newly enrolled members vs. longer-term enrollees	Member awareness of benefit levels	DWP Member Survey	Descriptive, Bivariate
Newly enrolled members vs. longer-term enrollees	Member awareness of monthly premiums	DWP Member Survey	Descriptive, Bivariate
Newly enrolled members vs. longer-term enrollees	Member awareness of annual benefit maximum	DWP Member Survey	Descriptive, Bivariate
Subsidiary Hypothesis 1A.2; DWP 2.0 enrol	lees will have higher levels of awareness than I	OWP 1.0 enrollees.	
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Member awareness of plan structure	DWP Member Survey	Descriptive, Bivariate
Research Question 1B: Do members view	HDB requirements as a favorable alternative	to monthly premiums?	
Subsidiary Hypothesis 1B.1: HDBs will be p	referred over monthly premiums.		the state of the
Full benefits vs. basic benefits	Member preference for how to maintain of full dental benefits - quantitative	DWP Member survey	Descriptive, Bivariate
Full benefits vs. basic benefits	Member preference for how to maintain of full dental benefits - qualitative	DWP Member in-depth interviews	Qualitative thematic coding

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Subsidiary Hypothesis 1B.2; A majority of i	members will maintain full benefits via comple	ting HDBs rather than via payi	ng premiums.
Eligible for full benefits via HDB completion vs. premium payments vs. exemptions, by year of eligibility	Member maintenance of full benefits, HDB vs. premium	Administrative data	Descriptive
Research Question 1C: Do members view	expanded dental benefits as preferable over	basic benefits?	
Subsidiary Hypothesis 1C,1: Members with basic benefits.	full benefits will be more likely to prefer expan	nded dental benefits over basic	benefits compared to members with
Full benefits vs. basic benefits	Member preference for how to maintain of full dental benefits - quantitative	DWP Member survey	Descriptive, Bivariate
Full benefits vs. basic benefits	Member preference for how to maintain of full dental benefits - qualitative	DWP Member in-depth interviews	Qualitative thematic coding
Research Question 1D: What are the barr	iers to completing HDBs?		
Subsidiary Hypothesis 1D.1: DWP member	s who are exempt from HDBs will have equal a	ccess to dental care to those w	ith the HDBs
Exempt vs. non-exempt from HDBs	Barriers to HDB completion - quantitative	DWP Member survey	Descriptive, Bivariate
None	Barriers to HDB completion - qualitative	DWP Member in-depth interviews	Qualitative thematic coding
Subsidiary Hypothesis 1D.2: Barriers to ca	re in DWP 2.0 will be lower than pre-DWP 2.0.		
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Barriers to HDB completion	DWP Member survey	Descriptive, Bivariate
Subsidiary Hypothesis 1D.3: Members with members who are exempt from HDBs will	full benefits will report fewer barriers than mo have equal or lower barriers to care.	embers with basic benefits, Sub	sidlary Hypothesis 1D.1: DWP
Full benefits vs. basic benefits	Barriers to HDB completion	DWP Member survey	Descriptive, Bivariate
Research Question 1E: What are the char-	acteristics of members with awareness of the	program?	
Subsidiary Hypothesis 1E.1: Demographic, awareness.	socioeconomic, eligibility, length of enrollment	t, and health-related character	istics will be associated with
Independent variables include demographic and health-related survey items, and program eligibility and enrollment factors	Member awareness scale	DWP Member survey	Bivariate, Multivariable regression analysis

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Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Research Question 1F: How are member	ers learning about the program?		
Subsidiary Hypothesis 1F.1: Members wi	ll report receiving information about DWP from	n multiple sources.	
None	ne Member source of program information		Descriptive
Subsidiary Hypothesis 1F.2: Members wi	ll report that information from their PAHP help	ed them understand their denta	l henefits.
None	Impact of PAHP outreach on member knowledge	DWP Member survey	Descriptive
Research Question 16: What are memb	ers' experiences applying for the financial hard	dship waiver?	
Subsidiary Hypothesis 1G.1: Members wi	Ill report low levels of awareness of the financial	hardship waiver.	
None	Member awareness of financial hardship waiver	DWP Member survey	Descriptive
Subsidiary Hypothesis 16.2: The percent	age of members with financial hardship waiver:	s will increase over time.	
None	Member use of financial hardship waiver	Administrative data	Descriptive
Research Question 1H: How satisfied a	re members with basic benefit levels?		
Subsidiary Hypothesis 1H.1: Members w	ill have high levels of satisfaction with basic den	tal benefits.	
Members with basic benefits	Member satisfaction with basic dental benefits	DWP Member survey	Descriptive
Members with basic benefits vs. full benefits	Plan satisfaction	DWP Member survey	Descriptive, Bivariate

Evaluation Methods Summary: Impact of member attitudes and experiences with the DWP benefit structure on completion of HDBs

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 2: Completion of HDBs will t	be positively associated with awareness,	ability to comply with requi	rements, and attitudes.
Research Question 2A: What proportion of	DWP members complete HDBs annually?		
Subsidiary Hypothesis 2A.1: Members with l	onger lengths of enrollment are more likely to	complete HDBs.	
Newly enrolled members vs. longer-term enrollees	Preventive dental visit (HDB requirement)	Administrative data	Descriptive; Chi-square test of homogeneity

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Newly enrolled members vs. longer-term enrollees	Completion of self-risk assessment	Administrative data	Descriptive; Chi-square test of homogeneity
Full population Trend over time (FY2018 onward)	Preventive dental utilization	Administrative data	Descriptive
Full population Trend over time (FY2018 onward)	Preventive dental visit (HDB requirement)	Administrative data	Descriptive
Full population Trend over time (FY2018 onward)	Completion of self-risk assessment	Administrative data	Descriptive
Members enrolled in DWP for > 12 month categorized by length of enrollment (e.g., years, 3 years, etc); exclude members wit waivers and excluded from HDB requirements Trend over time (FY2019 onward)	2 completing HDBs h	Administrative data	Alluvial chart
Subsidiary Hypothesis 2A.2: IWP-eligible m IWP and MSP-FMAP	nembers are more likely to complete HDBs than Preventive dental visit (HDB requirement)	Administrative data	Descriptive; Chi-square test of homogeneity
IWP and MSP-FMAP	Completion of self-risk assessment	Administrative data	Descriptive; Chi-square test of homogeneity
Subsidiary Hypothesis 2A.3: DWP 2.0 mem.	bers will have higher rates of preventive denta	I visits compared to pre-DWP 2.0	
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0 (FY2017) Trend over time (FY2017 onward)	Preventive dental visit (HDB requirement)	Administrative data	Descriptive; Chi-square test of homogeneity
	hardship exemptions less likely to complete	HDBs?	
Called Armer Character and All I. March and with	hardship exemptions will be less likely to comp	plete HDBs.	
Substailary Hypothesis 26.1: Members with			

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Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Research Question 2C: How does HDB cor	upletion relate to awareness, ability to con	uply with requirements, and attitud	les?
Subsidiary Hypothesis 2C.1: Completion of	HDBs will be associated with awareness, ab	ility to comply with requirements, a	nd attitudes.
Independent variables include demographic and health-related survey items, and plan awareness, ability to complete requirements, and program attitudes	Predictors of HDB completion	Administrative data (HDBs); DWP Member survey	Bivariate; Multivariable logistic regression analysis

Evaluation Methods Summary: Impact of DWP benefit structure on members' care-seeking behavior

Outcomes measures(s)	Data sources	Analytic approach
olete HDBs will be more likely to receive r	eeded preventive care and	treatment in a dental office.
ements associated with increased use of rou	tine dental care, including pre	ventive care?
are not exempt from HDBs will be more like	ely to have a preventive dental	visit than members who are
Preventive dental visit (HDB requirement) by member exemption	Administrative data	Multivariable logistic regression
Any dental visit by member exemption	Administrative data	Multivariable logistic regression
to find a deutal home?		
aving a regular source of dental care will incre	ease with length of enrollment.	
Regular dentist: Percent of members who report that they currently have a regular dentist	DWP Member survey	Descriptive, Bivariate
	plete HDBs will be more likely to receive rements associated with increased use of rous of are not exempt from HDBs will be more likely preventive dental visit (HDB requirement) by member exemption Any dental visit by member exemption to find a deutal home? aving a regular source of dental care will increase a regular dentist: Percent of members who report that they currently have a regular	polete HDBs will be more likely to receive needed preventive care and rements associated with increased use of routine dental care, including presonate not exempt from HDBs will be more likely to have a preventive dental preventive dental visit (HDB requirement). Administrative data by member exemption. Any dental visit by member exemption. Administrative data dental visit by member exemption. Administrative data are visit of find a deutal home? Administrative data dental care will increase with length of enrollment. Regular dentist: Percent of members who report that they currently have a regular.

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
None	Care continuity: Among members with 2 or more years of enrollment, percent of members with a preventive dental visit (HDB requirement) in each year	Administrative data	Descriptive
None	Usual source of care: Percent of members from previous measure who saw the same provider for both visits	Administrative data	Descriptive
Subsidiary Hypothesis 38.2: Newly enrolled	d members will be able to find a participating d	ental provider.	
Newly enrolled members	Ability to find a dentist	DWP Member survey	Descriptive
None	Dentist participation in DWP	DWP Provider survey	Descriptive
None	Dentist attitudes toward DWP	DWP Provider survey	Descriptive; Bivariate; Trends over time
None	Dental visit in first year of enrollment	DWP Administrative data	Descriptive; Trends over time
Subsidiary Hypothesis 3B.3: DWP 2.0 mem	bers will be more likely to have a dental home c	ompared to pre-DWP 1.0,	
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Regular dentist: Percent of members who report that they currently have a regular dentist	DWP Member survey	Descriptive, Bivariate, Trends over time
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Timeliness of emergency dental care: Percent of members who needed to see a dentist right away because of a dental emergency and were able to see a dentist as soon as they wanted	DWP Member survey	Descriptive, Bivariate, Trends over time
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Timeliness of specialty dental care: Percent of members who report that they received specialty dental care as soon as wanted	DWP Member survey	Descriptive, Bivariate, Trends over time
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Timeliness of routine dental care: Percent of members who report that they received routine dental care as soon as wanted	DWP Member survey	Descriptive, Bivariate, Trends over time

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach	
Research Question 3C: Is completion of HI (NDTCs)?	Bs associated with members' use of the eme	rgency department (ED) for u	on-traumatic dental conditions	
Subsidiary Hypothesis 3C.1: Members who o	complete the HDBs will have fewer ED visits for	NTDCs annually.		
Two comparison groups: 1:DWP members who complete the HDBs 2:DWP members who do not complete HDBs	ED utilization for NTDCs	Administrative data	Comparative interrupted time series Pre:SFY2014-2017 Post:SFY2018-2021	
Subsidiary Hypothesis 3C.2: Members who c	omplete the HDBs will be more likely to follow	-up with a dentist after an FD	visit for a NTDC.	
Two comparison groups: 1;DWP members who complete the HDBs 2:DWP members who do not complete HDBs	Follow-up after ED visit: Percent of members who were seen in the ED for non-traumatic dental related reasons within the reporting year and visited a dentist for treatment services within 60 days following the ED visit	Administrative data	Comparative interrupted time series Pre:SFY2014-2017 Post:SFY2018-2021	
Research Question 3D: Did the introduction	n of an annual benefit maximum (ABM) influ	ence the types of care membe	rs receive?	
Subsidiary Hypothesis 3D,1: Members post-	ABM will be less likely to receive fixed and rem	ovable prosthodontic procedu	es (excluding complete dentures).	
Two comparison groups: 1:DWP members who are subject to ABM 2:DWP members exempt from ABM	Utilization of specialty dental services	Administrative data	Comparative interrupted time series Pre: SFY2014-2017 Post: SFY2018-2021	
DWP members pre- and post- ABM implementation	Unmet need for care	DWP Member survey	Descriptive, Bivariate	
DWP members pre- and post- ABM implementation	Out-of-pocket costs	DWP Member survey	Descriptive, Bivariate	
Research Question 3E: How does DWP chi	mge dental utilization?			
Subsidiary Hypothesis 3E.1: Dental utilizati	on within the PWP population will be as high (or higher than utilization in ot.	her states.	
Comparable expansion and non-expansion states	Dental utilization: Percent of the adult statewide population who had a dental visit within the last year	National survey data (e.g., BRFSS)	Comparison of rates	

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Evaluation Methods Summary: Impact of DWP benefit structure on members' oral health

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 4: DWP members' oral hea	alth will improve over time.		
Research Question 4A: How do members	rate their oral health?		
Subsidiary Hypothesis 4A.1; Self-rated ord	il health will improve over time.		
DWP 2.0 members vs. DWP 1.0 and MSP members pre-DWP 2.0	Self-rated oral health	DWP Member survey	Descriptive Bivariate
Research Question 4B: Do members with	basic benefits have similar unmet treatme	nt needs compared to those with	full benefits?
Subsidiary Hypothesis 4B.1; Members with	h basic benefits will have similar levels of uni	met dental need compared to indi	viduals with full benefits.
Full benefits vs. basic benefits	Unmet treatment needs	DWP Member survey	Multivariable logistic regression (adjusted for length of enrollment and other potential confounders)
Research Question 4C: Do the two benefit	t levels exacerbate health disparities?		
Subsidiary Hypothesis 4C.1: Members with	h basic benefits will not have significantly lov	ver self-rated oral health than ind	lividuals with full benefits.
Full benefits vs. basic benefits Examine differences based on HDB- exemption	Self-rated oral health	DWP Member survey	Multivariable analysis – adjus for length of enrollment and other potential confounders
IWP and MSP-FMAP			

Evaluation Methods Summary: Impact of the COVID-19 pandemic on DWP members' and providers' service utilization and provision

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 5: DWP members' and prov 19 over time.	ders' utilization and provision of service	s will change due to system	changes associated with COVID-
Research Question 5A: Have DWP member	rs' ability to access services changed during	the COVID-19 pandemic?	
Subsidiary Hypothesis 5A.1: Members wil	l be less likely to have diagnostic or preventi-	ve dental visits during the COV	/ID-19 pandemic.
Newly enrolled members (<11 months) v members with at least 1 year of eligibility	s. Preventive dental visit (HDB requirement)	Administrative data	Descriptive; McNemar test; Trend over time
Newly enrolled members (<11 months) v members with at least 1 year of eligibility		Administrative data	Descriptive; Trend over time
Subsidiary Hypothesis 5A.2: Members will i	be more likely to have an unmet need for denta	il care during the COVID-19 pa	ndemic.
Members pre- and post-COVID	Unmet treatment needs	DWP Member survey	Descriptive, Bivariate, Trends over time
Research Question 5B: Is the COVID-19 pa (NDTCs)?	andemic associated with members' use of the	emergency department (ED)	for non-traumatic dental condition
Subsidiary Hypothesis 58.1: Members will i	be more likely to have ED visits for NTDCs duri	ng the COVID-19 pandemic.	
IWP and MSP-FMAP pre and post COVID- 19; IWP and MSP-FMAP time series ongoing during COVID-19	ED utilization for NTDCs	Administrative data	Descriptive; Trend over time
IWP and MSP-FMAP pre and post COVID- 19; IWP and MSP-FMAP time series ongoing during COVID-19	Emergency dental appointments	DWP Member survey	Descriptive, Bivariate, Trends over time
Research Question 5C: Did the COVID-19	pandemic impact provider participation in D	WE?	
Subsidiary Hypothesis 5C.1: Providers will	be less likely to accept new DWP members dur	ing and after the COVID-19 par	ndemic
Pre- and post-COVID	New patient acceptance	DWP Provider survey	Descriptive, Bivariate, Trends over time
Subsidiary Hypothesis 5C.2: Dental provide	rs will be more likely to offer teledentistry ser	vices during the COVID-19 pane	demic.
None	Use of teledentistry	DWP Provider survey	Descriptive, Bivariate, Trends over time

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Research Question 5D: Have DWP mer	nbers' barriers to care changed during the COV	ID-19 pandemic?	
Subsidiary Hypothesis 5D.1: Members w	rill be more likely to avoid dental care due to per	ceived risk of COVID-19.	
None	Percent of members who have avoided a dental visit due to the COVID pandemic	DWP Member Survey	Descriptive, Bivariate, Trends over time
Subsidiary Hypothesis 5D.2: Members w	ill be more likely to utilize teledentistry during t	he COVID-19 pandemic.	
None	Teledentistry utilization	Administrative data	Descriptive; McNemar test; Trend over time (PMPM)

Logic Model: Dental Wellness Plan

Process		Outcomes			
Policy	PAHP Activity	Dental utilization	Short-term (Knowledge/attitudes)	Intermediate (Behavior/normative change)	Long-term (Desired results of DWP)
Requirement for members to obtain an annual preventive dental exam AND complete a self-risk assessment in order to retain full benefits and avoid monthly premium requirements	Member outreach [Survey]	Annual rates of dental exams [Outcomes, Survey] Self-risk assessment completion as identified by the PAHP's (codes not required)	Member awareness/knowledge of HDB requirement for annual exam [Survey] Member awareness/knowledge of HDB requirement for self-risk assessment [Survey] Member awareness/knowledge of impact of HDBs on benefit levels [Survey] Member awareness/knowledge of premium requirements [Survey] Member awareness/knowledge of premium requirements [Survey] Member awareness/knowledge of hardship exemptions from premiums [Survey]	Established regular source of dental care [Survey] Reduced utilization of ED for non-traumatic dental conditions [Outcomes] Proportion of members paying monthly premiums (excluding hardship exemptions) [Outcomes] Annually, increased rates of preventive dental examinations [Survey, Outcomes] Increased utilization of urgent treatment services by new members [Outcomes]	Regular utilization of annual dental exams by individuals – i.e. repeated behavior over time [Outcomes] Member self-rated oral health increases over time [Survey] Reduced utilization of urgent treatment services by members over time [Outcomes] Members retain full benefits as result of completing HDBs Reduced unmet dental need over time Basic benefit levels will not increase disparities in unmet dental need among DWP members

Contextual Factors: (1) Members can apply for premium exemptions due to material hardship. (2) Several populations are excluded from monthly premium requirements. (3) Dental benefits have an annual maximum of \$1,000. (3) Previous enrollment in Medicaid or DWP 1.0. (4) Length of enrollment in DWP 2.0. (5) Dentist participation in DWP 2.0 and acceptance of new patients. (6) Member completion of other IWP Healthy Behaviors (e.g., wellness visit or health risk assessment). (7) COVID-19 pandemic effects on dentist workforce availability and patient care-seeking behaviors.

3) Retroactive Eligibility

Background

The state of lowa requested a waiver of retroactive eligibility to remove the federally mandated 3-month retroactive eligibility period for Medicaid members. Groups affected by the <u>original</u> waiver included newly enrolling children 1-18 years of age in Medicaid and adult parents/caretaker relatives of children in Medicaid, those newly enrolling in Iowa Wellness Plan, newly enrolling in Medicaid due to a disability determination or newly enrolling through a separate waiver program such as Home and Community-Based Services (HCBS). The amendment requesting the waiver was filed with CMS on August 2, 2017 and approved to begin November 1, 2017. This waiver was amended as of July 1, 2018 for nursing home residents who had been in the nursing facility for any three months prior to Medicaid application granting them access to 3 months of retroactive eligibility. It was again amended as of January 1, 2020 as part of the 1115 renewal to exempt children 1-19 years of age granting them access to 3 months of retroactive eligibility.

The state provided the following rationale for this action in the original amendment:

"The State's rationale for this amendment request is founded on the fact that the commercial market does not allow for retroactive health coverage, and if CMS grants this request to waive Section 1902(a)(34), sufficient protections will still remain in place for individuals to receive necessary care.

As mentioned above, the State seeks to more closely align Medicaid policy with that of the commercial market, which does not allow for an individual to apply for retroactive health insurance coverage. Eliminating Medicaid retroactivity encourages individuals to obtain and maintain health insurance coverage, even when healthy. With the availability of Medicaid expansion and premium tax credits, affordable coverage options have been available in Iowa for those complying with the individual mandate, thus eliminating the need for retroactive coverage. Further, by more closely aligning Iowa Medicaid policy with policy in the commercial insurance market, members will be better prepared if they are eventually able to transition to commercial health insurance."

Goals

In the most recent amendment, November 2019, the state provided a table of goals and questions as shown below.

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Table 12. State waiver goals -	Waiver of Retroactive Eligibility

Waiver Policy: Waiver of Retroactive Eligibility	
Goal: Encourages individuals to obtain and maint	ain health insurance coverage, even when healthy.
Eliminating retroactive eligibility will increase the likelihood of enrollment and enrollment continuity,	Do eligible people subject to retroactive eligibility waivers enroll in Medicale at the same rates as other eligible people who have access to retroactive eligibility?
	What is the likelihood of enrollment continuity for those subject to a retroactive eligibility waiver compared to other Medicaid beneficiaries who have access to retroactive eligibility?
	Do beneficiaries subject to retroactive eligibility waivers who disenroll from Medicaid have shorter enrollment gaps than other beneficiaries who have access to retroactive eligibility?

The State also proposed the following hypotheses and research questions.

Table 13. Table of state-specified hypotheses and research questions - Walver of Retroactive Eligibility

Hypothesis	Research Question(s)
Eliminating retroactive eligibility will increase enrollment of eligible people when they are healthy relative to those eligible people who have the option of retroactive eligibility.	Do newly enrolled beneficiaries subject to the waiver of retroactive eligibility have higher self-assessed health status than other newly enrolled beneficiaries who have access to retroactive eligibility?
Through greater continuity of coverage, health outcomes will be better for those subject to retroactive eligibility waivers compared to other Medicaid beneficiaries who have access to retroactive eligibility.	Do beneficiaries subject to the retroactive eligibility waiver have better health outcomes than other beneficiaries who have access to retroactive eligibility?
Elimination or reduction of retroactive coverage eligibility will not have adverse financial impacts on consumers.	Does the retroactive eligibility waiver lead to changes in the incidence of beneficiary medical debt?

The logic model below is drawn from the State's amendment and CMS's approval letter to the state granting the 1115 renewal dated November 15, 2019. Additionally, in the original amendment the waiver of retroactive eligibility is proposed to reduce annual costs in excess of \$36M with the federal share topping \$26M due to a reduction in total member months.

Logic Model: Waiver of Retroactive Eligibility

Medicald enrollment, demographic characteristics

Process		Outcomes		
Policy	Process	Short-term outcomes	Intermediate outcomes	Long-term outcomes
Waiver of Retroactive Eligibility	Provider communication Member communication	Increase likelihood of enrollment Increase enrollment continuity There will be no adverse financial impact on consumers Increase in provider-initiated applications	Increase enrollment of healthy beneficiaries Lower PMPM costs Increase use of preventive care No change in rates of uncompensated care No change in member medical/dental debt Reduction total member months	Improved self-ratings of physical/mental health Reduced avoidable inpatient admissions Program wide cost reductions

Hypotheses and research questions

Hypothesis 1: Eliminating retroactive eligibility will increase the likelihood of enrollment and enrollment continuity.

Primary Research Question 1.1: Are people subject to the waiver of retroactive eligibility more likely to enroll in Medicaid relative to members in the same programs prior to the waiver?

Subsidiary Research Question 1.1a: Are people subject to the waiver of retroactive eligibility more likely to enroll while still healthy relative to members in the same programs prior to the waiver?

Subsidiary Research Question 1.1b: Are people subject to the waiver of retroactive eligibility more likely to enroll earlier?

Primary Research Question 1.2: Do people subject to the waiver of retroactive eligibility have increased enrollment continuity relative to members in the same programs prior to the waiver?

Subsidiary Research Question 1.2a: Do people subject to the waiver of retroactive eligibility understand that they will not be covered during enrollment gaps?

Subsidiary Research Question 1.2b: What are the barriers to timely renewal for those subject to the waiver of retroactive eligibility?

Subsidiary Research Question 1.2c: Among members subject to the retroactive eligibility waiver, is timely renewal more likely by those who might be expected to value coverage highly, relative to those who might value coverage less?

Subsidiary Research Question 1.2d: Are people subject to the waiver of retroactive eligibility more likely to remain continuously enrolled relative to members in the same programs prior to the waiver?

Subsidiary Research Question 1.2e; Are people subject to the waiver of retroactive eligibility more likely to re-enroll relative to members in the same programs prior to the waiver?

Hypothesis 2: Eliminating retroactive eligibility will not increase negative financial impacts on members.

Primary Research Question 2.1: Are there any negative financial impacts on consumers because of the waiver of retroactive eligibility relative to members in the same programs prior to the waiver?

Subsidiary Research Question 2.1a: Do beneficiaries subject to the waiver of retroactive eligibility experience greater 'medical debt' relative to members in the same programs prior to the waiver?

Subsidiary Research Question 2.1b;Do hospitals experience higher rates of uncompensated care after the enactment of the waiver of retroactive eligibility?

Hypothesis 3: Eliminating retroactive eligibility will improve member health.

Primary Research Question 3.1: Do people who are subject to waiver of retroactive eligibility have better health outcomes?

Hypothesis 4: Eliminating retroactive eligibility will reduce the annual Medicaid services budget.

Primary Research Question 4.1: What are the effects on the Medicaid services budget?

 $Hypothesis\ 5:\ Providers\ will\ increase\ initiation\ of\ Medicaid\ applications\ for\ eligible\ patients/clients$

Primary Research Question 5.1: Have health care providers increased the initiation of Medicaid applications for eligible patients/clients?

Evaluation Methods Summary: Waiver of Retroactive Eligibility

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 1: Eliminating retroactive eligibi	lity will increase the likelihood of enrollment a	ind enrollment continui	ty.
Primary Research Question 1.1: Are people sub programs prior to the waiver?	ject to the waiver of retroactive eligibility more like	ely to enroll in Medicaid r	elative to members in the same
Subsidiary Research Question 1.1a: Are people su programs prior to the waiver?	bject to the waiver of retroactive eligibility more lik	ely to enroll while still hea	lthy relative to members in the same
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	In general, how would you rate your overall health now? Excellent; Very good; Good; Fair; Poor	Enrollment survey	DID May 2021-April 2022
Study group: Adults in IWP, FMAP, SSL CY 2018-2021 and children in Medicaid CY 2018- 2019 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Hospitalizations per 1,000 member per month ED visits per 1,000 member per month Ambulatory care visits per 1,000 member per month Average number of prescriptions per member per month	Medicaid claims	ITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2021
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 and children in Medicaid CY 2018- 2019 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Per member per month Medicaid reimbursement in first 3 months of enrollment	Medicaid claims	CITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2021
Subsidiary Research Question 1.1h: Are people su	bject to the waiver of retroactive eligibility more lik	ely to enroll earlier?	
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	Beneficiary estimate of gap between considering enrollment and completing application process (Under development) How long ago did you start thinking about applying for Medicaid/state help/etr	Enrollment survey	Means test May 2021-April 2022

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Primary Research Question 1.2: Do people subj programs prior to the waiver?	ect to the waiver of retroactive eligibility have incre	eased emollment continuity	relative to members in the sam
Subsidiary Research Question 1.2a: Do people su	bject to the waiver of retroactive eligibility understa	nd that they will not be cover	ed during enrollment gaps?
Study group: Medicaid members subject to waiver - IWP, FMAP, SSI Comparison group: Medicaid members not subject to the waiver - Parents of children as proxy	Understanding of coverage (Under development) When you applied for Medicaid did you believe that the program would pay for some of the care you received before being enrolled? If yes, how far back did you expect that coverage to go?	Enrollment survey Member survey	Means tests and descriptive analyses May 2021-April 2022
Subsidiary Research Question 1,2b: What are the	barriers to timely renewal for those subject to the w	aiver of retroactive eligibility	17
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	Barriers to enrollment (Under development) Did you have any problems trying to enroll for Medicaid/IWP, etc.? If yes, what were they? Couldn't understand the forms, process too complicated, had no transportation to appointment, did not know where to go to get help, did not have all the documents I needed, had no one to help me fill out the forms	Enrollment survey Member survey	Descriptive analyses May 2021-April 2022
Subsidiary Research Question 1.2c: Among mem- value coverage highly, relative to those who mig	bers subject to the retroactive eligibility waiver, is tin ht value coverage less?	nely renewal more likely by t	hose who might be expected to
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017	Number of enrollment gaps over 2 months within the calendar year Average length of enrollment gap in the calendar year Risk stratified by prescription use and presence of chronic conditions as measured by CCS	Medicaid enrollment files	CITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-202 We will also analyze without risk stratification to allow short-enrollment members into the analytic
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	Value of renewal (Under development) How important is it for you to keep your health coverage? Very important, important, neither important nor not important, not important, not important at all	Member survey	Descriptive analyses

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017	Length of enrollment period Total months of enrollment from first enrollment in period to end of enrollment or end of period, whichever comes first, adjusted for months remaining in period at enrollment.	Medicaid enrollment files	CITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2021
Subsidiary Research Question 1.2d: Are people so same programs prior to the walver?	bject to the waiver of retroactive eligibility more lik	ely to remain continuously en	rolled relative to members in the
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 and children in Medicaid CY 2018- 2019	Longer periods of continuous enrollment		CITS
Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Average months of continuous enrollment, adjusted for months remaining in period at enrollment	Medicald enrollment files	Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2022
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 and children in Medicaid CY 2018- 2019 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Time to first enrollment gap	Medicaid enrollment files	Survival analysis CY 2014-2022 Time-dependent covariates including RE waiver implementation
Subsidiary Research Question 1.2e: Are people su disenrollment relative to members in the same p	bject to the waver of retroactive eligibility more lik rograms prior to the waiver?	ely to re-enroll following a vo	luntary or administrative
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 and children in Medicaid CY 2018- 2019 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Length of enrollment gap Number of months between disenrollment (forced or voluntary) and re-enrollment	Medicaid enrollment files	CITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2022
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 and children in Medicaid CY 2018- 2019 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017 and children in Medicaid CY 2014-2017 and 2020-2021	Rates of re-enrollment Proportion of members disenrolled (forced or voluntary) who re-enroll within I year	Medicaid enrollment files	Descriptive analyses CY 2014-2022

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach	
Hypothesis 2: Eliminating retroactive eligib	ility will not increase the likelihood of negative	financial impacts on me	mbers.	
Primary Research Question 2.1: Are there any the same programs prior to the waiver?	negative financial impacts on consumers because o	of the waiver of retroactive	eligibility relative to members in	
Subsidiary Research Question 2,1a; Do beneficia programs prior to the waiver?	ries subject to the waiver of retroactive eligibility ex	perience greater 'medical d	ebt' relative to members in the san	
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI	Whether member reports medical or dental debt. (Under development)		DID	
Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	Do you currently owe money for health care you (your children) have gotten in the past? If yes, is this for medical care? Is this for dental care?	Enrollment survey	May 2021-April 2022	
Study group: Medicaid members subject to waiver – IWP, FMAP, SSI	Amount of medical/dental debt reported at enrollment (Under development) How much do you owe		DÍD	
Comparison group: Medicaid members not subject to the waiver – Parents of children as proxy	for medical care you (your children) have gotten? How much do you owe for dental care you (your children) have gotten?	Enrollment survey	May 2021-April 2022	
Subsidiary Research Question 2.1b:Do hospitals	experience higher rates of uncompensated care afte	r the enactment of the waive	er of retroactive eligibility?	
lowa Hospitals before and after the waiver	Reported rate of uncompensated care	HCRIS	Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2023	
Hospitals in comparison states without waivers	Reported rates of uncompensated care	HCRIS	CITS Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2021	
Hypothesis 3: Eliminating retroactive eligib	ility will improve member health.			
Primary Research Question 3.1: Do people who	are subject to waiver of retroactive eligibility hav	e better health outcomes?		
Study group: Surveyed adults in IWP, FMAP, SSI CY 2021 Comparison group: Surveyed adults in IWP, FMAP, SSI CY 2017 and 2018	Self-ratings of physical and mental health	Member survey	Descriptive analyses Survey 2017, 2018 and 2021	

Waiver of Retroactive Eligibility

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Study group: Adults in IWP, FMAP, SSI CY 2018-2021 Comparison group: Adults in IWP, FMAP, SSI CY 2014-2017	Avoidable inpatient admissions	Medicaid claims files	Descriptive analyses Pre-RE waiver CY 2014-2017 Post-RE waiver CY 2018-2021
Hypothesis 4: Eliminating retroactive eligib	ility will reduce the annual Medicaid services	budget.	
Primary Research Question 4.1: What are the e	ffects on the Medicaid services budget?		
Study group: Iowa Medicaid CY 2013-2017 Comparison group: Iowa Medicaid CY 2018- 2022	Total annual Medicaid health care services expenditures	Medicaid claims	ITS Pre-RE waiver CY 2013-2017 Post-RE waiver CY 2018-2022
Study group: Iowa Medicaid CY 2013-2017 Comparison group: Iowa Medicaid CY 2018- 2022	Total number of months Medicaid eligibility	Enrollment files	Descriptive analyses Pre-RE waiver CY 2013-2017 Post-RE waiver CY 2018-2022
Hypothesis 5: Providers will increase initia	tion of Medicald applications for eligible paties	nts/clients.	
Primary Research Question 5.1: Have health ca	re providers increased the initiation of Medicaid a	application for eligible patie	nts/clients?
Providers at the individual, MCO, ACO level	Provider reports of Medicaid application initiation process and follow-up	Key stakeholder interviews	Descriptive analyses July 2021-June 2022

Data Sources, Analysis Methods, and Measures

Evaluating the waiver of retroactive eligibility requires a variety of analytics and data collection strategies. This evaluation will be composed of 2 phases. Phase 1 is oriented to process measures and Phase 2 is oriented to outcome measures.

Phase 1: Process

Phase 1 focuses on understanding the implementation of the waiver from the perspectives of IME, health care provider entities, and members. Understanding and documenting implementation provides the background for developing survey questions and the context for interpreting outcome results. We will use qualitative methods to conduct this portion of the evaluation, including document analysis and in-depth interviews. The document analysis will be ongoing, as the program is implemented, while interviews will be during the first year of the evaluation period.

Policy Definition

Through a series of telephone interviews with IME staff, we will translate the past and current policies into a visual representation identifying the application and enrollment process. With special investigation of application process changes, we will utilize enrollment files to understand the groups that are affected by this policy change.

Policy Communication

The state's primary mechanism for communicating the policy change to provider entities and members was through brochures, informational letters and website posting. We will collect historical communication documents (2014-2017) related to retroactive eligibility to determine what provider entities and members were told regarding the 3-month retroactive eligibility period prior to the waiver. We will try to understand how members were informed regarding the availability of retroactive eligibility prior to waiver implementation and how the elimination of retroactive eligibility was communicated. We will also collect communications related to the current and ongoing eligibility determination and maintenance including letters, brochures and web postings related to the waiver of retroactive eligibility. Historical documents will need to be accessed through IME personnel charged with eligibility determination and maintenance.

Policy Understanding

The outcome measures rely, at least partially, on stakeholders, including enrollees, understanding the policy change. As part of Phase 1, we will interview members and provider entities to determine whether they are aware of the policy change, how they identified the change and its relationship to their activities. The information gathered in these interviews will also inform the development of survey questions specific to this waiver. In order for the survey questions to have face validity, we will need to better understand the language provider entities and members use to describe the waiver. For example, though 'retroactive eligibility' is a familiar term to those in government, it is unclear that members can identify this or understand how it worked.

Phase 1 provides the contextual information to guide measure development, understand the policy implementation and determine contextual characteristics that may influence the results of hypothesis testing.

Phase 2: Outcomes

Phase 2 focuses on the testing of hypotheses relative to specific and measurable outcomes.

Populations

Study populations

November 1, 2017 through December 31, 2019

Children and adults who were subject to the waiver of retroactive eligibility including all adults in IWP, FMAP and SSI and children in the Children's Medicaid Assistance Program (CMAP). Although members receiving LTSS were subject to the waiver during this time, their eligibility pattern varies significantly from any other group within Medicaid precluding their use in these analyses.

January 1, 2020 through December 31, 2024

Adults subject to the waiver of retroactive eligibility including all adults in IWP, FMAP and SSI. Children were no longer subject to the waiver during this time frame.

Comparison populations

January 2011 through October 31, 2017

Pre-waiver population of adults and children in groups that are later subject to retroactive eligibility including all adults in IWP, FMAP and SSI and children in the CMAP.

January 1, 2020 through December 31, 2024

Children in the CMAP no longer subject to the waiver of retroactive eligibility at this time.

Figure 2 provides a visualization of the number of adults and children subject to the waiver of retroactive eligibility within three key time periods: prior to the waiver, during the first 2 years of the waiver and following adjustments to the waiver on January 1, 2020. Each figure represents 15,000 members.

Provider entities

Provider entities such as medical offices, public health offices, hospitals and long-term care facilities help patients/clients who may be eligible for Medicaid apply for benefits by initiating and, in some cases, following-up to make certain the application was filed in an effort to improve their ability to get paid for services. These activities may be performed by front office staff, billing and claim staff, discharge planners, care coordinators, outreach workers, peer counselors and a host of other staff. Additionally, service providers such as physicians, pharmacists, therapists, ARNPs, and PAs may act to trigger application assistance or may direct patients/clients to apply directly when application assistance is not available at their entity. Information from these sources is critical to understand entity/facility changes that may have occurred due to the waiver of retroactive eligibility. We will utilize process measures to understand and assess the effects of the waiver of retroactive eligibility on health care providers.





Empirical strategy

The empirical strategy we adopt is to approach causal inference. For this purpose, we will conduct two steps in our empirical strategy: 1) pre-process our data by matching target study populations with comparison population groups (e.g., finding matched individuals for members subject to the retroactive eligibility waiver) and 2) employ econometric modeling techniques, namely, difference-in-difference (DID), comparative interrupted time series (CITS) with control variables on the matched data. Pre-processing data before regression adjustment provides multiple benefits, including reductions in model dependence, estimation error and bias (lacus et al., 2019). As recommended in King and Nielsen (2019), we will combine propensity score matching (PSM) with coarsened exact matching (CEM) using multiple covariates (including indicators of health condition, income and disability status). We will show post-matching covariate balances. We have experience in using matching methods including CEM and PSM in previous studies and will incorporate the latest evidence-based recommended matching practices in our future estimations of this evaluation.

The DID model is appropriate for survey data when individuals are observed in at least two periods. We will therefore apply the DID model for research questions that rely on enrollment surveys. The DID model will capture the effect of a health policy, namely the retroactive eligibility waiver, by comparing the pre- and post-program means in a study population (namely, study population 1 or 2) using the pre- and post-policy means in comparison populations 1 and 2 as counterfactuals.

When units of analysis (e.g., individuals, hospital-level rates of uncompensated care) are observed more frequently, a CITS specification is more appropriate. Under this specification, we analyze means and slopes of pre-waiver values to determine changes in both means and in during-waiver linear and non-linear trends, using comparison populations as counterfactuals.

References

lacus, Stefano M., Gary King, and Giuseppe Porro. 2019. "A Theory of Statistical Inference for Matching Methods in Causal Research." Political Analysis 27 (1): 46–68.

King, Gary, and Richard Nielsen. 2019. "Why Propensity Scores Should Not Be Used for Matching." Political Analysis 27 (4): 435–54.

Data sources

Medicaid claims and enrollment files

The PPC is home to a Medicaid Data Repository encompassing over 100 million claims, encounter and eligibility records for all Iowa Medicaid enrollees for the period October 2010 through the present. Data are assimilated into the repository on a monthly basis. 95% of medical and pharmaceutical claims are completely adjudicated within 3 months of the first date of service, while the adjudication timing' for institutional claims is 6 months. The PPC staff also have extensive experience with these files as well as extensive experience with CMS adult core measures and HEDIS measures. In addition, the database allows members to be followed for long periods of time over both consecutive enrollment months and periods before and after gaps in coverage. When the enrollment database was started in 1965 Iowa made a commitment to retain a member number for at least 3 years and to never reuse the same Medicaid ID number. This allows long-term linkage of member information including enrollment, cost and utilization even if they change plans.

Enrollment surveys

Telephone surveys for newly enrolled members will be performed for a 1 year period to collect information related to enrollment, understanding of retroactive eligibility, reasons for enrollment, medical and dental debt on enrollment, health status and estimated time between recognition of need for coverage and application. Approximately 480 adults (19-64 years old) and 300 children (1-18 years old) are enrolled each month. With one telephone survey per household and a 30% response rate we would expect to obtain 100 telephone surveys of adults and 40 surveys of children per month, resulting in approximately 1,200 adult surveys and 480 child surveys over the year-long collection period.

Member surveys

The PPC has worked with the developers of the Consumer Assessment of Healthcare Providers and Systems (CAHPS®) survey and utilized CAHPS survey measures for over 15 years to conduct enrollee surveys for the Iowa Medicaid Enterprise (IME). This background will provide us with access to CAHPS enrollee survey results for both IowaCare enrollees and Medicaid enrollees for several years prior to the beginning of Iowa Wellness Plan. Surveys are completed every 18 months for a representative sample of Medicaid enrollees.

Content analysis

Existing documents produced for IWP implementation will be monitored, compiled and synthesized by PPC staff to track progress and modifications from original program description and objectives. These information sources will inform the interpretation of outcome data and be used to alter the outcome evaluation to parallel changes, if needed. The content of these documents will provide the PPC with evidence to identify and recruit stakeholders for structured interviews included in the process evaluation. In addition, any information unable to be gathered from the content analysis will determine which outcome areas need to be included in qualitative data collection.

Content analysis data sources might include:

- Waiver documents
- · Quarterly progress reports
- Meeting minutes
- Supplemental materials from relevant advisory groups or committees
- Informational letters

- Contract and RFP documents
- · Internal planning documents

Structured key stakeholder interviews

Interviews with key IWP stakeholders will be conducted annually and staggered at different times for different stakeholder groups. Interviews will be 60 minutes long and topics for the structured interviews will be developed to reflect the content of each program and target any areas which were not covered in the content analysis or could benefit from elaboration from a primary source as needed to provide context for data collection activities, outline the availability of key pieces of information and outline adjustments to IWP. Stakeholder interviews may occur at varying times as needed to inform the evaluation portions of the policy components.

Interviews will be audio recorded and professionally transcribed. The interview transcripts will be uploaded into qualitative analysis software and coded into themes. Some themes will be predetermined according to the structured script, and some will be emergent and reflect the natural flow of conversations and provide additional context for the structured conversation.

Healthcare Provider Cost Reporting Information System (HCRIS)

HCRIS provide uncompensated claims information for all hospitals that accept Medicare reimbursement and are available through HCRIS. PPC purchases access to the RAND web tool to access and download assimilated, corrected datasets for analysis. RAND provides additional calculated data points such as rates of uncompensated care based on algorithms to minimize missing data and weight existing information to allow state-level comparisons. These methods are available on the website or by request.

National survey options

Though previous work at the PPC, we have found that national survey, such as the Medical Expenditure Panel Survey (MEPS) and the National Financial Capability Survey, do not recruit Iowans in sufficient numbers to allow for state-level comparisons. However, we may be able to utilize the American Community Survey (ACS) and/or the Behavioral Risk Factor Surveillance System (BRFSS) to assess some state level effects.

Covid-19 adjustments

It is unclear how the COVID-19 pandemic and its ensuing economic effects will alter the enrollment for state Medicaid programs. Some unemployed workers may be able to keep their health insurance, while other may lose their insurance but will not qualify for Medicaid immediately. We will utilize enrollment surveys to determine the magnitude of the effect that COVID-19 has on enrollment.

4) Cost sharing

Background

Within the IWP, cost sharing consists primarily of an \$8 copayment for emergency department (ED) services utilized for non-emergent reasons. IME provides a listing of the diagnosis codes that qualify as an emergency visit on the Medicaid 'Provider Claims and Billing' webpage. This page is updated at least annually but may be updated more frequently, for example, it was updated on April 1, 2020 to reflect emergency diagnoses related to COVID-19.

In a letter to the State Medicaid Director, Michael Randol, dated November 15, 2019, CMS outlined the following expectations/goals for the \$8 ED copay.

Iowa believes this policy will help beneficiaries learn about the importance of choosing appropriate care in the appropriate setting-which is generally not the ED-by educating beneficiaries about the direct cost of health care services and the importance of seeking preventive services and similar care in the most appropriate setting. Receiving preventive and similar care in non-emergency settings can improve the health of beneficiaries, because they can build and maintain relationships with their regular treating providers. Over time, this may lead to the prevention and/or controlled maintenance of chronic disease, as prevention and health promotion are difficult to achieve and sustain through episodic ED visits. Additionally, this policy will improve the ability of beneficiaries who truly need emergency care to access it, by preserving ED and state fiscal resources for those who are truly in need of timely emergency care.

Goals

- 1. Educate members the ED is not the appropriate place for all care
- 2. Educate members about the cost of emergency department care
- 3. Build relationships with primary care providers improving preventive and chronic care
- 4. Increase the availability of emergency departments for those who need them

The manifestation of the goals and the short and long-term effects of the \$8 ED copayment on utilization and cost are reflected in the logic model.

Logic Model: Cost sharing

Process		Outcomes		
Policy	Process	Short term (Goals)	Intermediate	Long-term
\$8 copayment for non- emergent ED visit	Member understanding of \$8 copayment (PRQ1) Communication and	Understanding ER is not the appropriate place for all care (PRQ2.1)	Increased primary care utilization for non- emergent acute care (PRQ2.4)	Improved self-ratings of physical/mental health (PRQ4)
	implementation of non- emergent conditions (Process eval) \$8 Copayment billing and collection process (Process eval) Provider understanding and implementation of \$8 copayment (Process eval)	Realization of cost for ER services (PRQ2.2) Establishment of primary care regular source of care (PRQ3.1)	Increased utilization of prevention/monitoring care (PRQ3.2) Decreased ER utilization for non-emergent acute care (PRQ2.3) Increase in beneficiary regular source of care (PRQ3.1)	Reduced avoidable inpatient admissions (PRQ4) Improved ED availability for emergent care (Process eval)

Hypotheses and research questions

Hypothesis 1: Members understand the \$8 copayment for non-emergent use of the ER.

Research question 1: Do members understand the \$8 copayment for non-emergent use of the ER?

Hypothesis 2: Cost sharing improves member understanding of appropriate ER use.

Research Question 2.1: Do members subject to an \$8 copayment understand appropriate use of the ER better than members who are not subject to the copay?

Research Question 2.2: Do members subject to an \$8 copayment understand cost of the ER better than members who are not subject to the copay?

Research Question 2.3: Are members subject to an \$8 copayment for non-emergent use of the ER less likely to use the ER for non-emergent care?

Research Question 2.4: Are members subject to an \$8 copayment for non-emergent use of the ER more likely to use the primary care providers for non-emergent care?

Hypothesis 3: Members subject to cost sharing are more likely to establish and utilize a regular source of care as compared to members not subject to cost sharing.

Research Question 3.1: Are members who are subject to the \$8 copayment for non-emergent ER use more likely to have a regular source of care than those not subject to the copayment?

Research Question 3.2: Are members who are subject to the \$8 copayment for non-emergent ER use more likely to receive preventive care and chronic care monitoring than those not subject to the copayment?

Hypothesis 4: Cost sharing improves long-term health care outcomes.

Research Question 4.1: Do members who are subject to the \$8 copayment for non-emergent ER use have more favorable long-term health care outcomes?

The hypotheses, research questions and methods to address the goals and outcomes provided in the logic model above. Further explanations of the methods follow the table.

April 28, 2021

Evaluation Methods Summary: Cost Sharing

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 1: Members understand th	e \$8 copayment for non-emergent use of the ER,		
Research Question 1: Do members under	stand the \$8 copayment for non-emergent use of the l	ER?	
Study group: IWP members completing the consumer survey	Sometimes health plans require members to pay part of cost when they use the emergency room. This is considered a copayment. Are you required to pay any part of the cost when you use the		DID
Two comparison groups: 1: FMAP adult members completing the consumer survey	emergency room? If yes, do you know how much you will need to pay?	Consumer survey	DID 2017 and 2021 consumer survey
2: SSI adult members completing the consumer survey	If yes, are there any reasons why you might not have to pay? What are these reasons?		

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach			
Hypothesis 2: Cost sharing improves member understanding of appropriate ER use.						
Research Question 2.1: Do members subjectionary?	ect to an \$8 copayment understand appropriate use o	f the ER better than memi	ners who are not subject to the			
Study group: IWP members completing the consumer survey Two comparison groups: 1: FMAP adult members completing the consumer survey. 2: SSI adult members completing the consumer survey	In the last 6 months, have you used the ED In the last 6 months, how many times did you go to an emergency room (ER) to get care for yourself? Do you think the care you received at your most recent visit to the ER could have been provided in a doctor's office? What was the main reason you did not go to a doctor's office or clinic for the care you received at your most recent visit to the ER? Choose only one response. I did not have a doctor or clinic to go to My insurance plan would not cover the care I needed if I went to a doctor's office or clinic My doctor, nurse, or other health care provider told me to go to an ER for this care My doctor's office or clinic was open, but I could not get an appointment My doctor's office or clinic was not open when I needed care I had transportation problems getting to at doctor's office or clinic	Consumer survey	Descriptive analyses 2017 and 2021 consumer surveys			

comparison strategy	mparison Strategy Outcomes measures(s) Da		Analytic approach
Research Question 2.2: Do members subj	ect to an \$8 copayment understand cost of the ER be	tter than members who are	not subject to the copay?
For those indicating they had an ER visit in the last 6 months.			
Study group: JWP members completing the consumer survey indicating they understand the S8 copayment Comparison group: JWP members who	[Measure under development] Thinking back to the last time you went to the emergency room: How much did the care cost you? How much did the emergency room charge your	Consumer survey	Descriptive analyses 2021 Consumer survey
said they did not understand the \$8 copayment on the 2017 consumer survey	Insurance?		
Desearch function 2.3: Are members sub-	ject to an \$8 copayment for non-emergent use of the	FR less likely to use the FR	for non-amaramit cura?
mesesian guestian am. Ale members sun	peer to an 30 copily ment for non-emergent use of the	The terry mitery to meet the bire	tor note emergent care:
Study group: IWP members who indicated they understood the \$8 copayment on the 2017 consumer	Member probability of a non-emergency ED visit		or noremergen care:
Study group: IWP members who indicated they understood the \$8 copayment on the 2017 consumer survey Comparison group: IWP members who said they did not understand the \$8 copayment on the 2017 consumer survey		2017 Consumer survey Medicaid claims	DID 2-year period surrounding the 2017 survey
Study group: IWP members who indicated they understood the \$8 copayment on the 2017 consumer survey Comparison group: IWP members who said they did not understand the \$8 copayment on the 2017 consumer	Member probability of a non-emergency ED visit Newly developed measure indicating whether there was a claim in measurement period for a non-emergent diagnosis which is defined as NOT on the list of emergency diagnoses provided by	2017 Consumer survey	DID 2-year period surrounding the
Study group: IWP members who indicated they understood the \$8 copayment on the 2017 consumer survey Comparison group: IWP members who said they did not understand the \$8 copayment on the 2017 consumer survey This measure will be repeated following	Member probability of a non-emergency ED visit Newly developed measure indicating whether there was a claim in measurement period for a non-emergent diagnosis which is defined as NOT on the list of emergency diagnoses provided by	2017 Consumer survey	DID 2-year period surrounding the

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach	
Study group: IWP members	Rate of ER readmission 7 days and 30 days		CITS Pre-COVID PHE \$8 copay	
Two comparison groups 1: FMAP adult members 2: SSI adult members	This measure has been used in other studies at the PPC. It is based upon the hospital readmission measure in HEDIS but substitutes ED visit for hospitalization throughout.	Medicaid claims	present, COVID PHE S8 copay present, COVID PHE S8 copay suspended, Post-COVID PHE S copay reinstated	
Comparable states with no copayment equired (will need to explore state options)	Rate of ER readmission 7 days and 30 days	HCUP ER files	Comparison of rates	
Comparable states with no copayment required (will need to explore state options)	Rate of ER use for non-emergent acute care See above	HCUP ER files	Comparison of rates CY 2013 and CY 2014	
	ect to an \$8 copayment for non-emergent use of the	ER more likely to use the		
Study group: JWP members I'wo comparison groups 1: FMAP adult members 2: SSI adult members	Rate of primary care provider office use for non- emergent acute care Newly developed measure indicating proportion of population that utilized an MD, DO, ARNP, PA, rural health clinic, FQHC or otherwise identified primary care clinic during the measurement year for non-emergent care.	Medicaid claims	CITS Pre-COVID PHE \$8 copay present, COVID PHE \$8 copay suspended, Post-COVID PHE \$ copay reinstated	
Hypothesis 3: Members subject to cost subject to cost sharing.	sharing are more likely to establish and utilize of	a regular source of care	as compared to members not	
Research Question 3.1: Are members who not subject to the copayment?	are subject to the \$8 copayment for non-emergent E	R use more likely to have	a regular source of care than those	
Study group: IWP members completing the consumer survey indicating they understand the \$8 copayment	A personal doctor is the person you would see if you need a check-up, want advice about a health problem, or get sick or hurt. Do you have a		DID	
Three comparison groups 1: FMAP adult members 2: SSI adult members 3: IWP members who said they did not understand the SB consument on the consumer survey	personal doctor? (The answer to this question will focus on individuals who did not have a personal doctor in a 2017 survey.)	Consumer survey	2017 and 2021 consumer surveys	

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Study group: IWP members	Utilization of a regular source of care		W 11 - AU
Two comparison groups 1: FMAP adult members 2: SSI adult members	New developed measure one visit to an MD, DO, ARNP, PA, rural health clinic, FQHC or otherwise identified primary care clinic during the measurement year for preventive care or 2 or more visits for acute care.	Medicaid claims	Means tests CY 2014-2022
Research Question 3.2: Are members v monitoring than those not subject to th	who are subject to the \$8 copayment for non-emergent ne copayment?	ER use more likely to recei	ve preventive care and chronic car
Study group: IWP members	Rates of annual well-person visit		1000
3 comparison groups 1: FMAP adult members 2: SSI adult members 3:IowaCare members	Based on HEDIS Adult Access to Ambulatory/Preventive Care (utilize the preventive codes only)	Medicaid claims	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2022
for those identified as having diabetes			
Study group: IWP members	Rates of HbA1c monitoring for persons with Diabetes		DID
Three comparison groups I: FMAP adult members	HEDIS Comprehensive Diabetes Care measure component	Medicaid claims	CY 2014-2022
2: SSI adult members 4:IowaCare members			
Study group: IWP members	Rates of primary care follow-up visit within 7 days of ER use		
Three comparison groups		Medicaid claims	DID
1: FMAP adult members 2: SSI adult members	Based on HEDIS Follow-up After Emergency Department Visit for Mental Illness and		CY 2014-2022
2: SSI adult members 3:IowaCare members	Emergency Department Utilization measures		

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 4: Cost sharing improves I	ong-term health care outcomes.		
Research Question 4.1: Do members who	are subject to the SB copayment for non-emergent E	R use have more favorable	e long-term health care outcomes
Study group: IWP members			
Two comparison groups 1: FMAP adult members 2: SSI adult members	In general, how would you rate your overall health now? Excellent; Very good; Good; Fair; Poor	Consumer surveys	DID 2017 and 2021 consumer surveys
Study group: IWP members Two comparison groups 1; FMAP adult members 2: SSI adult members	In general, how would you rate your overall mental and emotional health now? Excellent; Very good; Good; Fair; Poor	Consumer surveys	Means tests 2017 and 2021 consumer surveys
Study group: IWP members	Rates of avoidable inpatient admissions		
Two comparison groups 1: FMAP adult members 2: SSI adult members	AHRQ measure incorporating Ambulatory Care- Sensitive Condition	Medicaid claims	DID CY 2014-2022
Comparable states with no copayment	Rates of avoidable inpatient admissions	HCUP ER files	Descriptive analyses CY 2012-2015
required	See above		C1 2012-2013

Data Sources, Analysis Methods and Methods

Known implementation issues

The \$8 copayment for non-emergent ED use has been in place since January 1, 2014. We originally began to assess this component during the first evaluation period. Previous analyses were halted when we discovered that there was a disconnect between the ED visit and the application of the copayment. We anticipated, at that time, that Iowa Medicaid would apply the copayment to the claims, however within the first 2 years we found less than 10 claims that had an \$8 copayment attached. Consumer surveys indicated that members had a poor understanding of what constitutes emergent care and that they may be driven to the ED through providers such as nurse triage programs and physicians on-call for practices. Since April 2016, the MCOs have been responsible for enforcing this \$8 copayment within the claims/encounter process. We anticipate that we will see more claims with the \$8 copayment attached. Additionally, we are working to integrate the diagnosis codes for non-emergent visits into existing algorithms to better estimate the degree of ED use for 'non-emergent' care as defined by Iowa Medicaid.

Empirical strategy

The empirical strategy we adopt is to approach causal inference. For this purpose, we will conduct two steps in our empirical strategy: 1) pre-process our data by matching target study populations with comparison population groups (e.g., finding matched individuals for IWP members subject to the \$8 copayment) and 2) employ econometric modeling techniques, namely, difference-in-difference (DID), comparative interrupted time series (CITS) with control variables on the matched data. Pre-processing data before regression adjustment provides multiple benefits, including reductions in model dependence, estimation error and bias (lacus et al., 2019). As recommended in King and Nielsen (2019), we will combine propensity score matching (PSM) with coarsened exact matching (CEM) using multiple covariates (including indicators of health condition, income and disability status). We will show post-matching covariate balances. We have experience in using matching methods including CEM and PSM in previous studies and will incorporate the latest evidence-based recommended matching practices in our future estimations of this evaluation.

The DID model is appropriate for survey data when individuals are observed in at least two periods. We will therefore apply the DID model for research questions that rely on consumer surveys. The DID model will capture the effect of a health policy, namely the 8% copayment, by comparing the pre- and post-program means in a study population (namely, IWP members) using the pre- and post-policy means in comparison populations (namely, SSI and FMAP) as counterfactuals.

When units of analysis (e.g., individuals, county-level or service-area rates of ER readmission) are observed more frequently, a CITS specification is more appropriate. Under this specification, we analyze means and slopes of pre-policy values to determine changes in both means and in post-IWP linear and non-linear trends, using comparison populations as counterfactuals. The interruptions in these analyses vary with the question but are of two types 1) the point at which the \$8 copayment was suspended due to the COVID PHE (March 1, 2020) and again at the point which the \$8 copayment is reinstated (TBD) at the close of the COVID PHE and 2) the point at which the IWP begins (January 1, 2014).

References

lacus, Stefano M., Gary King, and Giuseppe Porro. 2019. "A Theory of Statistical Inference for Matching Methods in Causal Research." Political Analysis 27 (1): 46–68.

King, Gary, and Richard Nielsen. 2019. "Why Propensity Scores Should Not Be Used for Matching." Political Analysis 27 (4): 435–54.

Policy communication/implementation

We will conduct a retrospective process evaluation to assess methods used to communicate the \$8 copayment to members and providers. We will also interview selected emergency department administrators and/or hospital administrators to determine how this policy was implemented on the ground. Previous conversations with administrations indicated that this policy was rarely enforced. Ongoing work looking at the effects of ACA on hospitals, particularly CAH hospitals, indicates a significant reduction in bad debt and charity care. There appears to be little incentive for hospitals to collect the \$8 copayment.

Though this work is not directed at a specific hypothesis it does provide the context to understand findings related to this policy and why goals may, or may not, be met.

Target populations

IWP members

The population of adults in IWP January 1, 2014 through December 31, 2023. These adults were split into two plan options from January 2014 through December 2015 with those from 0-100% FPL being offered a modified Medicaid expansion and those from 101-138% FPL being offered a private option utilizing Qualified Health Plans. All members were placed into the traditional Medicaid program from January-March 2016 and then all were placed into a Medicaid managed care program that began with three Managed Care Organizations (MCO). Currently, two MCOs provide care for Iowa Medicaid members.

Comparison populations

Medicaid members in FMAP.

Medicaid members enrolled through FMAP are adult parents/guardians of children in Medicaid in families with incomes less than 50% FPL.

Medicaid members in SSI

Medicaid members enrolled through the SSI Program are adults with a determination of disability. Those who are dually eligible for Medicare are not included in the analyses.

Other states

 ${
m HCUP}$ data for states that do and do not utilize an ED copayment will be compared to Iowa for the period CY 2014-2022.

Data sources

Administrative data

The PPC is home to a Medicaid Data Repository encompassing over 100 million claims, encounter and eligibility records for all Iowa Medicaid enrollees for the period October 2010 through the present. Data are assimilated into the repository on a monthly basis. 95% of medical and pharmaceutical claims are completely adjudicated within 3 months of the first date of service, while the adjudication timing' for institutional claims is 6 months. The PPC staff also have extensive experience with these files as well as extensive experience with CMS adult core measures and HEDIS measures. In addition, the database allows members to be followed for long periods of time over both consecutive enrollment months and periods before and after gaps in coverage. When the enrollment database was started in 1965 Iowa made a commitment to retain a member number for at least 3 years and to never reuse the same Medicaid ID number. This allows long-term linkage of member information including enrollment, cost and utilization even if they change plans.

Iowa Hospital Association files

The Iowa Hospital Association collects claims data for all patients in all Iowa hospitals. These data provide information regarding cost and utilization for inpatient and outpatient visits including emergency room use. Hospitals indicate the expected payor on these files providing an opportunity to assess uncompensated care. Though these data are not utilized in the analyses directly, the data may be useful for establishing population-based trends in ED use before, during and after COVID-19.

Key Stakeholder Interviews

Process measures including key stakeholder interviews will be collected by a specialized team within the IWP evaluation tasked with collecting, organizing and interpreting process information. Coordinating with this team, information will be captured regarding policy changes and translation related to the \$8 copayment and its alteration during COVID-19.

Healthcare Cost and Utilization Project - HCUP

HCUP encompasses data for 37 states, including Iowa. The data includes inpatient stays, emergency department visits and ambulatory care. Data is readily available through a user-friendly web-based reporting tool. In addition, data can be downloaded for analysis. Free data does not include locational information beyond a state indicator, however, datasets with more refined locational information can be purchased.

Member surveys

The PPC has worked with the developers of the Consumer Assessment of Healthcare Providers and Systems (CAHPS®) survey and utilized CAHPS survey measures for over 15 years to conduct enrollee surveys for the Iowa Medicaid Enterprise (IME). This background will provide us with access to CAHPS enrollee survey results for both IowaCare enrollees and Medicaid enrollees for several years prior to the beginning of Iowa Wellness Plan. Surveys are completed every 18 months for a representative sample of Medicaid enrollees. In the past, specific questions related to ED use and beliefs around ED use have been included. These will be refined and include in future surveys.

Emergency department use survey

The PPC survey team is developing a telephone survey to be administered to members who utilize the ED for non-emergent diagnoses. We anticipate recruiting 50 members per month for 1 year.

This should yield 300 completed surveys (100 per group) with sufficient power to detect moderate differences at .05.

Evaluation periods

Pre- post-implementation period (CY 2012-2022)

Analyses involving state-level data will be conducted for the period CY 2012-2022. For the Annual Wellness Visit measure we will be able to take advantage of the pre-IWP IowaCare program to provide data on IWP members prior to CY 2014.

Post-implementation period (CY 2014-2022)

The post-implementation period provides a very interesting opportunity to assess the effect of the \$8 copayment. The copayment was in place from January 2014-March 2020, then waived due to COVID-19 from March 2020 through end of PHE when it will be reinstated.

COVID-19 adjustments

During the COVID-19 pandemic Iowa Medicaid waived the \$8 copayment for inappropriate ED use and updated the ICD-10 diagnosis codes that could be used to determine appropriate use to reflect COVID-related visits. Additionally, health care utilization, in particular ED use, was affected by a general avoidance of the ED to help hospitals preserve much needed PPE and lessen individuals' exposure to COVID-19. We will continue to monitor policies and activities, utilize the data to try to account for COVID-19 effects and monitor best practices as other researchers also adjust analyses for these effects.

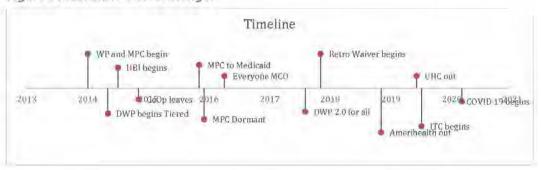
5) Cost and Sustainability

Background

The most recent guidance from CMS indicates that evaluation questions regarding cost should focus on sustainability. In the past, the IWP evaluation has estimated cost effects, but without addressing whether the cost effects are sustainable for the state. Sustainability requires information on costs, but also information on revenue streams.

IWP costs and revenues will need to be separated from the costs and revenues of other Medicaid program components. As can be seen from the timeline below, some state-level changes such as implementation of the MCOs, may be difficult to separate from IWP administrative costs. Additionally, the costs of MCO movement into and out of the program may result in additional administrative costs for IWP. The determination of what proportion of change costs should be accounted to IWP will be driven through our conversations with the key IME staff and estimates of the proportion of the affected population in IWP. Figure 3 provides a timeline of the changes that occurred within the IWP over time. These changes will be documented and addressed within the analyses.

Figure 3. Timeline of IWP changes



WP=Wellness Plan, MPC=Marketplace Choice, DWP=Dental Wellness Plan, HBI=Healthy Behavior Initiative, UHC=UnitedHealthcare, ITC-lowa Total Care

Goals

The goals of the IWP program as they pertain to cost are likely going to impact the following:

- 1. Short term-increase FMAP payments and reduce bankruptcies
- Intermediate term- Increased preventive care use, Decreased ED cost/use, Decreased inpatient admissions/cost, Decreased uncompensated care
- 3. Longer term-Statewide cost reductions

CMS guidance outlines the following key questions for investigation. (https://www.medicaid.gov/medicaid/section-1115-demo/downloads/evaluation-reports/ce-evaluation-design-guidance-sustainability-appendix.pdf)

1. What are the administrative costs operate the demonstration?

- 2. What are the short- and long-term effects of eligibility and coverage policies on health service expenditures?
- 3. What are the impacts of eligibility and coverage policies on provider uncompensated care costs?

The model below provides a visual representation of Medicaid state costs and the results from the expansion. Though health care costs at the state level may be reduced through the expansion of health care coverage to additional Iowans, the effect on the Medicaid program will result in increased costs. To establish the sustainability of the change we have a few options: 1) determine whether the state revenues for the general fund are rising proportionally to program costs, 2) determine whether state per adult health care costs are declining in comparison to anticipated increases due to additional coverage, 3) compare the increase in specific health care service costs in Iowa to other states.

Cost and Sustainability

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Logic Model: Cost and sustainability

Process		Outcomes		
Policy	Process	Short-term outcomes	Intermediate outcomes	Long-term outcomes
Medicaid Expansion	Enabling legislation Increase in Administrative capacity Infrastructure changes Addition of contractors	Increased FMAP payments No change in proportion of general fund for Medicaid Decreased bankruptcies	Increased preventive care use Decreased ED cost/use Decreased inpatient admissions/cost Decreased uncompensated care	State-side Improvement of self- ratings of physical/mental health State-wide cost reductions Increases in private insurance coverage Increases in employment/job seekers

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Hypotheses and research questions

Hypothesis 1: Ongoing administrative costs will increase due to implementation of IWP.

Primary Research Question 1.1: What are the administrative costs associated with IWP?

Subsidiary Research Question 1.1a: How did the Medicaid program administrative costs change with implementation and ongoing support of IWP?

Subsidiary Research Question 1.1b; How do the contractor/agency/provider costs change after implementation of IWP?

Hypothesis 2: IWP will result in short-term outcomes supporting a sustainable program.

Primary Research Question 2.1: What are the changes in revenue streams as a result of IWP?

Subsidiary Research Question 2.1a: How do Federal Medical Assistance Percentage (FMAP) payments change as a result of IWP?

Subsidiary Research Question 2.1b: How does the rate of individual bankruptcies in the state change with implementation of IWP?

Hypothesis 3: IWP results in intermediate outcomes supporting a sustainable program.

Primary Research Question 3.1: How does IWP change healthcare expenditures?

Subsidiary Research Question 3.1a: How does IWP change healthcare expenditures in the Medicaid program?

Subsidiary Research Question 3.1b: How does IWP change state-wide healthcare expenditures?

Primary Research Question 3.2: How does IWP change healthcare utilization?

Subsidiary Research Question 3.2a: How does IWP change healthcare utilization in the Medicald program?

Subsidiary Research Question 3.2b: How does IWP change healthcare utilization in Iowa?

Hypothesis 4: IWP results in long-term outcomes supporting a sustainable program.

Primary Research Question 4.1: What are the long-term, state-wide changes resulting from IWP?

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Cost and Sustainability

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Evaluation Methods Summary: Cost and Sustainability

Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Hypothesis 1: Ongoing administrative cos	ts will increase due to implementation of IWP		
Primary Research Question 1.1: What are the	administrative costs associated with IWP?		
Subsidiary Research Question 1.1a: How did th	e Medicaid program administrative costs change wit	th implementation and ongoing sup	port of IWP?
Pre and post IWP state fiscal years	Administrative costs	MCO capitation payments/budget documents	Descriptive analyses SFY 2011-2021
Subsidiary Research Question 1.1b: How do the	contractor/agency/provider costs change after imp	lementation of IWP?	
Study group: MCOs, service providers, and contractors	Ongoing costs to contractors/agencies and providers due to IWP	Key stakeholder interviews	Descriptive analyses SFY 2011-2021
Hypothesis 2.1: IWP will result in short-te	rm outcomes supporting a sustainable program		
Primary Research Question 2.1: What are the	changes in revenue streams as a result of IWP?		
Subsidiary Research Question 2.1a: How do Fe	deral Medical Assistance Percentage (FMAP) paymen	nts change as a result of IWP?	
Pre and post IWP state fiscal years	Federal payments	IME reports	Descriptive analyses SFY 2011-2021
Pre and post IWP state fiscal years	Proportion of Medicaid budget covered through FMAP payments	IME reports	Descriptive analyses SFY 2011-2021
Subsidiary Research Question 2.1b: How does	he rate of individual bankruptcies in the state chang	e with implementation of IWP?	
Pre and post IWP state fiscal years	Bankruptcy rates	State fiscal reports	Descriptive analyses SFY 2011-2021
Hypothesis 3: IWP results in intermediate	outcomes supporting a sustainable program.		
Primary Research Question 3.1: How does IV	P change healthcare expenditures?		
Subsidiary Research Question 3.1a: How does	WP change healthcare expenditures in the Medicaid	program?	
Study group: IWP members Three comparison groups 1: FMAP adult members 2: SSI adult members 3: IowaCare members	Per member per year (PMPY) expenditures on preventive care Total Medicaid reimbursement per person per year for services considered preventive such as annul well visit, monitoring labs, and vaccines.	Medicaid claims	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2021
Study group: IWP members Two comparison groups 1: FMAP adult members 2: SSI adult members	PMPY expenditures on ED visits Total Medicaid reimbursement per person per year for emergency department use not resulting in hospitalization	Medicaid claims	DID CY 2014-2021

	Cost and Sustainability Ap	pril 28, 2021	
Comparison Strategy	Outcomes measures(s)	Data sources	Analyticapproach
Study group: IWP members Two comparison groups 1: FMAP adult members 2: SSI adult members	PMPM expenditures on inpatient admissions Total Medicaid reimbursement per person per year for hospitalizations	Medicaid claims	DID CY 2014-2021
Study group: lowa pre- and post-IWP implementation Comparison group; comparable non-expansion states pre- and post-IWP implementation	PMPY expenditures on ED visits Total Medicaid reimbursement per person per year for emergency department use not resulting in hospitalization	TMSIS	DID CY 2015-2021 (year limitations due to cutove dates)
Study group: Iowa pre- and post-IWP implementation Comparison group: comparable non-expansion states pre- and post-IWP implementation	PMPM expenditures on inpatient admissions Total Medicaid reimbursement per person per year for hospitalizations	TMSIS	DID CY 2015-2021 (year limitations due to cutove dates)
Subsidiary Research Question 3.1b; How	does IWP change state-wide healthcare expenditures?		
Study group: Iowa pre- and post-IWP implementation Comparison group: comparable non- expansion states pre- and post-IWP implementation	Rate of self-pay/charity care	HCRIS	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2021
Study group: Iowa pre- and post-IWP implementation Comparison group: comparable non-expansion states pre- and post-IWP implementation	Reported rates of uncompensated care	HCRIS	CITS Pre-IWP CY 2012-2013 Poxt-IWP CY 2014-2021
lowa Hospitals pre and post IWP	ED expenditures Total all-payor charges for ED care at Iowa hospitals	Iowa Hospital Association files	Descriptive analyses CY 2012-2021
lowa Hospitals pre and post IWP	Inpatient expenditures Total all payor charges for hospitalizations at lowa hospitals.	Iowa Hospital Association files	Descriptive analyses CY 2012-2021

C	ost and Sustainability Ap	oril 28, 2021	
Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Study group: lowa pre- and post-IWP implementation Comparison group: comparable non-expansion states pre- and post-IWP implementation	ED expenditures Total all-payor charges for ED care at lowa hospitals	нспь	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2021
Study group: Iowa pre- and post-IWP implementation Comparison group: comparable non-expansion states pre- and post-IWP implementation	Inpatient expenditures Total all payor charges for hospitalizations at Iowa hospitals.	нсир	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2021
Primary Research Question 3.2: How does	IWP change healthcare utilization?		
Subsidiary Research Question 3.2a: How do	es IWP change healthcare utilization in the Medicaid p	rogram?	
Study group: IWP members			
Three comparison groups 1: FMAP adult members 2: SSI adult members 3. IowaCare members	Preventive care utilization Whether or not member obtain an annual wellness exam.	Medicaid claims	CITS Pre-IWP CY 2012-2013 Post-IWP CY 2014-2021
Members who used the ED during the calendar year Study group: IWP members Two comparison groups 1: FMAP adult members 2: SSI adult members	Non-emergent ED use Whether or not ED visit was for a non- emergent reason as defined by the IDHS.	Medicaid claims	DID
Study group: IWP members			
Two comparison groups 1: FMAP adult members 2: SSI adult members	Avoidable hospitalizations	Medicaid claims	cits

	Cost and Sustainability	April 28, 2021	
Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
Study group: Iowa pre- and post-IWP implementation		TMSIS	מום
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Non-emergent ED use		
Study group: lowa pre- and post-IWP mplementation	A	TMSIS/HCUP	DID
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Avoidable hospitalizations		
Substitiary Research Question 3.2b: How	does IWP change healthcare utilization in Iowa?		
Study group: Iowa pre- and post-IWP implementation		BRFSS	crrs
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Preventive care utilization		
Iowa Hospitals pre and post IWP	Non-emergent ED use	Iowa Hospital Association Files	CITS
owa Hospitals pre and post IWP	Avoidable hospitalizations	Iowa Hospital Association Files	CITS
Study group: Iowa pre- and post-IWP implementation		НСОР	DID
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Non-emergent ED use		
Study group: Iowa pre- and post-IWP implementation		нсир	DID
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Avoidable hospitalizations		

	Cost and Sustainability	April 28, 2021	
Comparison Strategy	Outcomes measures(s)	Data sources	Analytic approach
typothesis 4: IWP results in long-ter	nn outcomes supporting a sustainable program	i.	
Primary Research Question 4.1: What a	re the long-term, state-wide changes resulting fro	m IWP?	
Study group: Iowa pre- and post-IWP implementation			
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Self-ratings of physical health	BRFSS	CITS
Study group: Iowa pre- and post-IWP implementation			
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Self-ratings of mental health	BRFSS	CITS
Study group: Iowa pre- and post-IWP implementation			
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Annual average (median) per person healthcare expenditures	ACS	CITS
Study group: lowa pre- and post-IWP implementation		1 /	
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Rate of private insurance coverage	ACS	CITS
Study group: lowa pre- and post-IWP implementation			
Comparison group: comparable non- expansion states pre- and post-IWP implementation	Rates of unemployment	ACS	CITS

Data Sources, Analysis Methods and Measures

Methods

Quantifying and evaluating the cost and sustainability of the Iowa Wellness plan is being expanded for this waiver period to include state-level sustainability. Two phases of data collection will be utilized; Phase 1 to gather process information that will inform the analytical strategies (Phase 2).

Phase 1: Process

Phase 1 focuses on understanding the cost and revenue streams associated with the Medicaid program in general and IWP in particular. We will use qualitative methods to conduct this portion of the evaluation, including document analysis and in-depth interviews. The document analysis will be ongoing, as we monitor program developments and adjustments for the evaluation as a whole, while interviews will be during the first year of the evaluation period to identify and define data collection strategies for cost and revenue data at the state and program level.

Policy Definition

Through a series of telephone interviews with IME staff, we will translate the past and current policies into a visual representation identifying the policy changes that might affect cost and revenues. Documents related to policy changes and adjustments will be collected and reviewed. Special attention will be paid to the timing of changes so that we are able to include these in cost modelling as appropriate.

Policy Translation

Policy changes and adaptations are translated into programs in unique and variable ways as administrative rules are written and interpreted the program leadership and staff. The timing of policy change and implementation is also variable. Our efforts will be focused on understanding the policy changes and adjustments and when they are fully implemented in the program. A good example of a policy change that we need to understand fully for this evaluation is the telehealth legislation and timing. Though legislation expanded telehealth in March, this policy would not be considered fully implemented until we can establish a steady state for utilization of telehealth visits.

Phase 1 provides the contextual information to guide measure development, understand the policy implementation and determine contextual characteristics that may influence the results of hypothesis testing.

Phase 2: Qualitative analyses

Phase 2 focuses on the testing of hypotheses relative to specific and measurable outcomes.

Populations-state level Iowa

Iowa has over 3 million residents with 36% living in rural areas. Prior to COVID-19 the unemployment rate hovered around 3.6% with the primary industries being manufacturing, finance and insurance, real estate, and health care. Farming ranks 8th in economic contribution in Iowa, though much of the manufacturing in the state is centered on meat processing (chickens, hogs) and the primary exports are farm related. 50% of the population is female, 90% are white, and 23% of the population is under 18 years of age, while 17% are 65 and over. Iowa Medicaid provides dental coverage for adults and has a Medicaid Buy-in program for people with disabilities. The state allowed the Family Planning waiver to lapse in 2016.

Comparison states

We will assess comparison states on demographic characteristics, Medicaid program/expansion characteristics, and COVID-19 response. In previous work, it has been difficult to find states that have expanded or not expanded to match Iowa, particularly due to the coverage of adult dental services. Additionally, COVID-19 will make this even more difficult. We continue to research data sources and methods to allow for state-to-state comparisons over time for Iowa.

Populations-member level

Member study population: Adults in IWP January 1, 2014 through December 31, 2021. These adults were split into two plan options from January 2014 through December 2015 with those from 0-100% FPI. being offered a modified Medicaid expansion and those from 101-138% FPI. being offered a private option utilizing Qualified Health Plans. All members were placed into the traditional Medicaid program from January-March 2016 and then all were placed into a Medicaid managed care program that began with three Managed Care Organizations (MCO). Currently, two MCOs provide care for Iowa Medicaid members.

Member comparison population 1: Adults in the Family Medical Assistance Program and Transitional Program January 1, 2014 through December 31, 2021. FMAP and Transitional adults were provided coverage through the traditional Medicaid program from January 1, 2014 through March 31, 2016 when they were placed into the Medicaid managed care program that began with three Managed Care Organizations (MCO). Currently, two MCOs provide care for Iowa Medicaid members.

Data sources

Medicaid claims and enrollment files

The PPC is home to a Medicaid Data Repository encompassing over 100 million claims, encounter and eligibility records for all lowa Medicaid enrollees for the period October 2010 through the present. Data are assimilated into the repository on a monthly basis. 95% of medical and pharmaceutical claims are completely adjudicated within 3 months of the first date of service, while the adjudication timing' for institutional claims is 6 months. The PPC staff also have extensive experience with these files as well as extensive experience with CMS adult core measures and HEDIS measures. In addition, the database allows members to be followed for long periods of time over both consecutive enrollment months and periods before and after gaps in coverage. When the enrollment database was started in 1965 Iowa made a commitment to retain a member number for at least 3 years and to never reuse the same Medicaid ID number. This allows long-term linkage of member information including enrollment, cost and utilization even if they change plans.

Iowa Hospital Association files

The lowa Hospital Association collects claims data for all patients in all Iowa hospitals. These data provide information regarding cost and utilization for inpatient and outpatient visits including emergency room use. Hospitals indicate the expected payor on these files providing an opportunity to assess uncompensated care.

HCRIS

HCRIS provide uncompensated claims information for all hospitals that accept Medicare reimbursement. Recent publications have made use of these files to analyze costs. We will purchase a cleaned and readied dataset from one of the national vendors.

Key Stakeholder Interviews

Process measures including key stakeholder interviews will be collected by a specialized team within the IWP evaluation tasked with collected, organizing and interpreting process information. Coordinating with this team, information will be captured regarding policy changes and translation related to cost and sustainability.

Transformed Medicaid Statistical Information System - TMSIS

TMSIS contains yearly information on member eligibility thought beneficiary files, provider enrollment, and service utilization through claims and encounter data with zip code and county level geographic indicators. Replacing the TMAX files, this data source was transformed for different states at different times. One of the challenges with this dataset is finding an adequate comparison state that was 'crossed over' at the same time as Iowa. This data is obtained through ResDAC. The Public Policy Center has worked with ResDAC to obtain Medicare data in the past and houses a secure data enclave available for this data.

Healthcare Cost and Utilization Project - HCUP

HCUP encompasses data for 37 states, including Iowa. The data includes inpatient stays, emergency department visits and ambulatory care. Data is readily available through a user-friendly web-based reporting tool. In addition, data can be downloaded for analysis. Free data does not include locational information beyond a state indicator, however, datasets with more refined locational information can be purchased.

Behavioral Risk Factor Surveillance System - BRFSS

The BRFSS is supported by the CDC and utilizes a sampling framework to collect individual level information from people in all 50 states annually capturing information on health care utilization, presence of disease, preventive behaviors, and risk factors. The sampling framework provides for an oversample in small states to allow states to utilize the data for health planning and monitoring.

American Community Survey - ACS

This ongoing survey supported through the US Census Bureau provides community level information on important areas including insurance coverage, housing, and education. Data tables are easily created on the website and data is available for download through FTP.

Service costs

Costs for health care services will increase for the program, however, there may be reduced costs for total health services in the state due to improved access to preventive care and reductions in ED use and inpatient admissions. Could look at estimates of total cost for the state of Iowa over time? This component of cost, once expanded to a statewide approach, would also encompass the effects on provider uncompensated care.

Program years (CY2012-CY2019)

Annual costs

CY2012-CY2013=program administration + service costs

CY2014=implementation costs + administration costs

CY2015= program administration + service costs

CY2016-CY2019= program administration + service costs (consider MCO related costs)

Annual revenues=general fund revenue sources

Medicaid annual revenues=allocation from the general fund + FMAP

Empirical strategy

The empirical strategy we adopt is to approach causal inference for many research questions. For this purpose, we will conduct two steps in our empirical strategy: 1) pre-process our data by matching target study populations with comparison population groups (e.g., finding matched individuals for IWP members) and 2) employ econometric modeling techniques, namely, comparative interrupted time series (CITS) with control variables on the matched data. Pre-processing data before regression adjustment provides multiple benefits, including reductions in model dependence, estimation error and bias (lacus et al., 2019). As recommended in King and Nielsen (2019), we will combine propensity score matching (PSM) with coarsened exact matching (CEM) using multiple covariates (including indicators of health condition, income and disability status). We will show post-matching covariate balances. We have experience in using matching methods including CEM and PSM in previous studies and will incorporate the latest evidence-based recommended matching practices in our future estimations of this evaluation.

As a variant of difference-in-differences models, a CITS specification is more appropriate with frequently observed data. Under this specification, we analyze means and slopes of pre-waiver values to determine changes in both means and in during-waiver linear and non-linear trends, using comparison populations as counterfactuals.

References

lacus, Stefano M., Gary King, and Giuseppe Porro. 2019. "A Theory of Statistical Inference for Matching Methods in Causal Research." Political Analysis 27 (1): 46–68.

King, Gary, and Richard Nielsen. 2019. "Why Propensity Scores Should Not Be Used for Matching." Political Analysis 27 (4): 435–54.

Covid-19 adjustments

All post-2019 analyses and comparisons will need to account for the COVID-19 pandemic. Cost data including expenses and revenues at the state and programmatic levels need to account for known reductions in care-seeking behavior as individuals self-isolated and an uptake of telehealth as individuals limited trip making. Though we are unsure at this time how these adjustments will be manifested, we will respond to best practices in research analyses as they are identified and developed. We do believe that any analytics involving monthly costs can be adjusted with specific monthly indicators related to the specific practices in the state and the prevalence of COVID-19. Additionally, we will utilize the Medicaid claims data to determine the rate of telehealth visits before, during and after the pandemic. Though we do not identify the investigation of telehealth as a key research question within the cost/sustainability area of emphasis, it will play a key role in helping to define how analytics in all research areas will be adapted to account for COVID-19.

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Iowa Wellness Plan Approval Period: January 1, 2020 through December 31, 2026 Amended: November 28, 2025

NEMT

NEMT Background

The state of Iowa was originally approved by CMS for a waiver of the non-emergency medical transportation (NEMT) benefit to members of the Iowa Health and Wellness Plan in 2014. There were significant research studies conducted to evaluate the impact of waiving NEMT during the previous waiver period, with the results reported to CMS.

As of January 1, 2020, the waiver of NEMT was extended through December 2024 when the IWP 1115 waiver renewal was approved. Medically frail beneficiaries and those eligible for EPSDT services are exempt from this waiver.

NEMT Goals

The goals of the NEMT waiver as stated in the original "Iowa Wellness Plan 1115 Waiver Application" from August 2013 and the state's discussion in CMS's letter to the state granting the latest 1115 renewal are:

- To align benefits with those specified by the enabling legislation and make the benefits consistent with those offered by commercial insurers
- To help Iowa improve the fiscal sustainability of its Medicaid program, without significant negative effects on beneficiary access to services

NEMT Hypotheses and research questions

Hypothesis 1: Wellness Plan members without a non-emergency transportation benefit will have equal or lower barriers to care resulting from lack of transportation.

Research Question 1.1: Are adults in the IWP less likely to report barriers to care due to transportation than other adults in Medicaid?

Research Question 1.2: Are adults in the IWP less likely to report transportation-related barriers to complete HBI requirements than other adults in Medicaid who report awareness of the NEMT benefit?

Research Question 1.3: Are adults in the IWP less likely to report barriers to care for chronic condition management due to transportation than other adults in Medicaid who report awareness of the NEMT benefit?

Research Question 1.4: Are adults in the IWP less likely to report unmet need for transportation to health care visits than other adults in Medicaid who report awareness of the NEMT benefit?

Research Question 1.5: Are adults in the IWP less likely to report worry about the ability to pay for cost of transportation than other adults in Medicaid who report awareness of the NEMT benefit?

Hypothesis 2: Wellness Plan members without a non-emergency transportation benefit will have equal or lower rates of missed appointments due to access to transportation.

Research Question 2.1: Are adults in the IWP less likely to report transportation-related missed appointments than other adults in Medicaid who receive the NEMT benefit?

Hypothesis 3: Wellness Plan members without a non-emergency transportation benefit will report a lower awareness of the non-emergency transportation benefit as a part of their health care plan.

Research Question 3.1: Do adults in the IWP less frequently report that their health care plan provides non-emergency transportation than other adults in Medicaid who receive the NEMT benefit?

Hypothesis 4: Wellness plan members without a non-emergency transportation benefit will report similar experiences with health care-related transportation regardless of their location or disability status.

Research Question 4.1: Do adults in the IWP who live in rural areas report similar experiences with health-care related transportation as other adults in Medicaid who receive the NEMT benefit?

Research Question 4.2: Do adults in the IWP who have limitations to activities of daily living report similar experiences with health-care related transportation as other adults in Medicaid who receive the NEMT benefit?

NEMT Evaluation Periods

The process evaluation components of the NEMT waiver (Phase 1) will begin in the first quarter of the evaluation period-expected start date is spring 2021. This will include discussions with MCOs regarding implementation of transportation services and the waiver for IWP members, as well as any MCO-specific transportation policies.

The consumer data portion of the evaluation (Phase 2) of the waiver of NEMT will be collected during the 2021-2024 time period as part of the IWP consumer survey. The timing of the next consumer survey is expected to field in the fall of 2021, however, a flexible approach to the timeline is necessary in the context of COVID-19, where there are external confounding factors that mediate the way members access care in this time as well as programmatic differences due to the Public Health Emergency (PHE). The IWP consumer survey will be fielded every 18 months throughout the evaluation period.

NEMT Data Sources, Analysis Methods, and Measures

The evaluation of the waiver of NEMT will be composed of two phases and utilize several different analytics and data collection methods. The first phase of the evaluation will be process oriented and evaluate how the NEMT waiver is actually being implemented by the Managed Care Organizations (MCOs) under contract with the Iowa Medicaid Enterprise (IME). The second phase will assess the impact of the waiver of NEMT on Iowa Wellness Plan members.

Phase 1: Process

Policy Definition and Implementation

We will conduct key informant interviews with IME staff and the two MCOs to determine expectations and how they are implementing both transportation services for those who are eligible and the waiver of NEMT coverage for IWP members subject to the waiver.

This process evaluation will provide the contextual information to guide measure development, understand the policy implementation and determine contextual characteristics that may influence the results of hypothesis testing.

Data collection via Interviews

The PPC will conduct annual interviews with key stakeholders (IME staff and MCOs) to assist in the development of member survey and the interpretation of the results. Additionally, qualitative interviews with NEMT utilizers and non-utilizers will be conducted to identify barriers to preventive care appointment adherence.

Phase 2: Hypothesis testing of the impact on IWP members

Mail-back surveys will be conducted with IWP members every 1.5 years to understand the impact that the waiver of NEMT services.

Study population

Study population: The group subject to the waiver includes adults 19 to 64 eligible for IWP coverage who are not determined to be medically frail and/or eligible for EPSDT services.

Comparison population: The comparison population consists of Medicaid eligible adults aged 19 to 64 (who have NEMT benefits as part of their coverage and report awareness of the NEMT benefit).

Additionally, data about transportation access obtained from prior IWP and Medicaid member surveys (from 2014-2019) may be utilized.

Data source: Member surveys

Survey-based outcomes will use data from member surveys that are fielded every 18 months throughout the evaluation period.

The foundation for the IWP member survey instrument will be based on the Consumer Assessment of Healthcare Providers and Systems (CAHPS®) survey. The PPC was involved in the development of the CAHPS survey and has used the instrument to evaluate issues from the perspective of Iowa Medicaid and IWP members for over 15 years for the evaluation of Medicaid waiver programs. During the last IWP waiver period, the PPC has developed and utilized NEMT-specific questions to assess transportation barriers and needs for those with and without NEMT coverage.

Surveys will be mailed to a stratified random sample of 1500 members in each of the following groups: IWP (Amerigroup), IWP (Iowa Total Care), and the traditional Medicaid State Plan. Members must have been enrolled in IWP for at least the previous six months to be eligible to receive the survey. An initial invitation and survey will be mailed to the entire sample along with a cash pre-incentive (nominal monetary pre-incentives are utilized to maximize response rates for mailed surveys). Respondents will have the option to complete the survey online or mail back the paper survey in the provided postage-paid envelope. A reminder postcard will be sent a week after the initial survey. A follow-up survey will be sent a month after the first mailing to those who have not responded, and a telephone follow up will be conducted for those who do have not completed a survey 2-3 weeks following the second survey mailing.

Waiver of Non-Emergent Medical Transportation

April 28, 2021

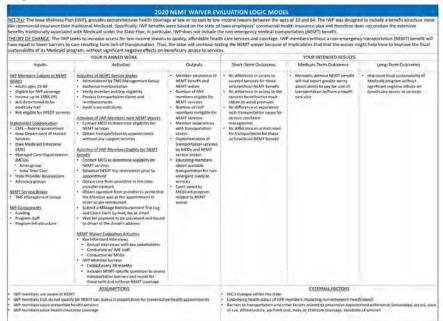
Error! Reference source not found, indicates the hypotheses, research questions and measures that will be utilized to evaluate the impact of waiver coverage for non-emergency Medical Transportation in Iowa during the next waiver period.

Evaluation Methods Summary: NEMT

Comparison Strategy	Outcome measures(s)	Data sources	Analytic approach
Hypothesis 1: Wellness Plan members v of transportation.	vithout a non-emergency transportation benefit w	ill bave equal or lower barrier	rs to care resulting from lack
Research Question 1.1: Are adults in the IV	VP less likely to report barriers to care due to transpor	tation than other adults in Medi	caid?
Adults in Medicaid	Member experiences with transportation issues to and from health care visits	IWP Member Survey	Means tests
Research Question 1.2: Are adults in the IV who report awareness of the NEMT benefi	VP less likely to report transportation-related barriers 1?	to complete HBI requirements t	han other adults in Medicaid
Adults in Medicaid	Member experiences with completing HBI requirements to avoid premiums	IWP Member Survey	Means tests
Research Question 1.3: Are adults in the IV Medicaid who report awareness of the NE	VP less likely to report barriers to care for chronic con MT benefit?	dition management due to trans	portation than other adults in
Adults in Medicaid	Member experience with transportation issues for chronic condition management	IWP Member Survey	Means tests
Research Question 1.4: Are adults in the IV awareness of the NEMT benefit?	VP less likely to report unmet need for transportation	to health care visits than other a	dults in Medicaid who report
Adults in Medicaid	Member experience with unmet need for transportation	IWP Member Survey	Means tests
Research Question 1.5: Are adults in the IV report awareness of the NEMT benefit?	VP less likely to report worry about the ability to pay for	or cost of transportation than ot	her adults in Medicaid who
Adults in Medicaid	Member experience with cost of transportation	IWP Member Survey	Means tests
Hypothesis 2: Wellness Plan members vaccess to transportation.	vithout a non-emergency transportation benefit w	ill have equal or lower rates o	f missed appointments due to
Research Question 2.1: Are adults in the IV NEMT benefit?	VP less likely to report transportation-related missed a	appointments than other adults	in Medicaid who receive the
Adults in Medicaid	Member reports of transportation-related missed appointments	IWP Member Survey	Means tests

	Waiver of Non-Emergent Medical T	ransportation Apri	128, 2021
Comparison Strategy	Outcome measures(s)	Data sources	Analytic approach
Hypothesis 3: Wellness Plan members transportation benefit as a part of their	without a non-emergency transportation benefit v health care plan.	will report a lower awareness o	of the non-emergency
Research Question 3.1: Do adults in the FW Medicaid who receive the NEMT benefit?	P less frequently report that their health care plan p	rovides non-emergency transpor	tation than other adults in
Adults in Medicaid	Member reports of health care plan providing NEMT	IWP Member Survey	Means tests
Hypothesis 4: Wellness plan members transportation regardless of their local	without a non-emergency transportation benefit vion or disability status.	vill report similar experiences	with health care-related
Research Question 4.1: Do adults in the IW who receive the NEMT benefit?	/P who live in rural areas report similar experiences	with health-care related transpor	tation as other adults in Medicaic
Adults in Medicaid	Subgroup analyses of 1-3 by rurality	IWP Member Survey	Means tests
Research Question 4.2; Do adults in the IW transportation as other adults in Medicaid	/P who have limitations to activities of daily living (Al who receive the NEMT benefit?	DLs) report similar experiences v	vith health-care related
Adults in Medicaid	Subgroup analyses of 1-3 by ADLs	IWP Member Survey	Means tests

Logic Model: NEMT



7) Iowa Wellness Plan Member Experiences from Increased Eligibility for Healthcare Coverage

Background

There are several important areas of the IWP member's experiences that should be included in an evaluation of the Iowa Wellness Plan, as mentioned in both the STCs and other CMS correspondence to IME. These areas include access to care, coverage gaps and churning, and quality of care. These are all areas that would be expected to improve as a result of gaining Medicaid coverage as a result of the inclusion of the IWP population in Medicaid in Iowa.

Specific indications of the importance of evaluating these impacts of the IWP are in a letter from CMS to IME Director Michael Randol and in the STCs provided to the IME:

From the CMS letter to IME Director Randol:

"Under the extended demonstration, Iowa and CMS will continue to evaluate the effectiveness of various policies that are designed to improve the health of Medicaid beneficiaries, and encourage them to make responsible decisions about their health and accessing health care. Promoting beneficiary health and responsible health care decisions advances the objectives of the Medicaid program."

CMS's interest in evaluating the impact of the demonstration in providing insurance coverage to beneficiaries and the uninsured population, as well as outcomes of care, quality and cost of care, and access to care was further reinforced in the STCs and in conversations between CMS, IME and Public Policy Center staff during the development of this evaluation plan.

Goals related to Member Experience

The goals being evaluated for this portion of the IWP evaluation derive from the expansion of eligibility to populations not previously eligible for Medicaid coverage, those between 0-138% FPL not categorically eligible for Medicaid. This increased coverage has the following goals:

- Goal 1: IWP members will have increased access to covered services.
- Goal 2: IWP members will experience consistent, reliable coverage.
- Goal 3: IWP members will experience improved quality of care.

Hypotheses and Research Questions

Topic 1: Access to care

Hypothesis 1.1: Wellness Plan members will have equal or greater access to primary care and specialty services.

Research Question 1.1.1: Are adults in the IWP more likely to have had an ambulatory or preventive care visit than other adults in Medicaid?

Research Question 1.1.2: Are adults in the IWP more likely to report greater access to urgent care than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.1.3: Are adults in the IWP more likely to report greater access to routine care than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.1.4: Are adults in the IWP more likely to get timely appointments, answers to questions, and have less time in waiting room than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.1.5: Are adults in the IWP more likely to know what to do to obtain care after regular office hours than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.1.6: Are adults in the IWP more likely to report greater access to specialist care than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.1.7: Are adults in the IWP more likely to report greater access to prescription medication than other adults in national estimates from National CAHPS Benchmarking Database?

Hypothesis 1.2: Wellness Plan members will have equal or greater access to preventive care services.

Research Question 1.2.1: Are women aged 50-64 in the IWP more likely to have had a breast cancer screening than other adults in Medicaid?

Research Question 1.2.2: Are women aged 21-64 in the IWP more likely to have had a cervical cancer screening than other adults in Medicaid?

Research Question 1.2.3: Are adults in the IWP more likely to have had a flu shot in the past year than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 1.2.4: Are adults with diabetes in the IWP more likely to have had Hemoglobin A1c testing than other adults with diabetes in Medicaid?

Research Question 1.2.5: Are adults in the IWP more likely to report greater access to preventive care than other adults in national estimates from National CAHPS Benchmarking Database?

Hypothesis 1.3: Wellness Plan members will have equal or greater access to mental and behavioral health services.

Research Question 1.3.1: Are adults in IWP with major depressive disorder more likely to have higher anti-depressant medication management than other adults with major depressive disorder in Medicaid?

Research Question 1.3.2: Are adults in the IWP more likely to utilize mental health services than other adults in Medicaid?

Research Question 1.3.3: Are adults in the IWP more likely to have greater access to preventive care than other adults in national estimates from National CAHPS Benchmarking Database?

Hypothesis 1.4: Wellness Plan members will have equal or greater access to care, resulting in equal or lower use of emergency department services for non-emergent care.

Research Question 1.4.1: Are adults in the IWP more likely to have fewer non-emergent ED visits than other adults in Medicaid?

Research Question 1.4.2: Are adults in the IWP more likely to have fewer follow-up ED visits than other adults in Medicaid?

Research Question 1.4.3: Are adults in the IWP more likely to utilize ambulatory care than other adults in Medicaid?

Research Question 1.4.4: What other circumstances are associated with overutilization of ED?

Topic 2: Coverage continuity

Hypothesis 2.1: Wellness Plan members will experience equal or less churning.

Research Question 2.1.1: Are adults in the IWP less likely to have gaps in health insurance coverage over the past 12 months than other adults in Medicaid?

Research Question 2.1.2; Are adults in the IWP more likely to have higher rates of consecutive coverage than other adults in Medicaid?

Research Question 2.1.3: Are adults in the IWP less likely to change plans or lose eligibility during the year than other adults in Medicaid?

Hypothesis 2.2: Wellness Plan members will maintain continuous access to a regular source of care when their eligibility status changes.

Research Question 2.2.1: Are adults in the IWP more likely to have a personal doctor than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 2.2.2: Are adults in the IWP more likely to have a positive experience with changing personal doctor/PCP than other adults in Medicaid?

Topic 3: Quality of Care

Hypothesis 3.1: Wellness Plan members will have equal or better quality of care.

Research Question 3.1.1: Are adults in the IWP less likely to receive antibiotic treatment for acute bronchitis than other adults in Medicaid?

Research Question 3.1.2: Are adults aged 40-64 with COPD in IWP more likely to have pharmacotherapeutic management of COPD exacerbation than other adults in Medicaid?

Research Question 3.1.3: Are adults in the IWP more likely to self-report receipt of flu shot than other adults in Medicaid?

Research Question 3.1.4: Are adults in the IWP less likely to report visiting the ED for nonemergent care than other adults in Medicaid?

Hypothesis 3.2: Wellness Plan members will have equal or lower rates of hospital admissions.

Research Question 3.2.1: Are adults in the IWP less likely to have hospital admissions for COPD, diabetes short-term complications, CHF, or asthma than other adults in Medicaid?

Research Question 3.2.2: Are adults in the IWP less likely to utilize general hospital/acute care than other adults in Medicaid?

Research Question 3.2.3: Are adults in the IWP less likely to have an acute readmission within 30 days of being discharged for acute inpatient stay than other adults in Medicaid?

Research Question 3.2.4: Are adults in the IWP less likely to have a self-reported hospitalization in the previous 6 months than other adults in Medicaid?

Research Question 3.2.5: Are adults in the IWP less likely to have a self-reported 30-day hospital readmission in the previous 6 months than other adults in Medicaid?

Hypothesis 3.3: Wellness Plan members will report equal or greater satisfaction with the care provided.

Research Question 3.3.1: Are adults in the IWP more likely to report that their personal doctor communicated well with them during office visits than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3.3.2: Are adults in the IWP more likely to report that their provider supported them in taking care of their own health than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3,3.3: Are adults in the IWP more likely to report that their provider paid attention to their mental or emotional health than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3.3.4: Are adults in the IWP more likely to report that their provider talked with them about their prescription medications than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3.3.5: Are adults in the IWP more likely to report that their provider paid attention to the care they received from other providers than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3.3.6: Are adults in the IWP more likely to report higher ratings of their personal doctor than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3:3.7: Are adults in the IWP more likely to report higher ratings of their overall care than other adults in national estimates from National CAHPS Benchmarking Database?

Research Question 3,3.8: Are adults in the IWP more likely to report higher ratings of their health plan than other adults in national estimates from National CAHPS Benchmarking Database?

Evaluation Periods

Multiple evaluation periods exist for this data depending on the question and analyses. Below we attempt to provide some explanation of the evaluation periods.

Pre- post-implementation period (CY 2011-2022)

Medicaid comparison groups

For measures in which we are able to utilize data from the IowaCare population (either administrative or survey), we will be able to compare a pre-implementation period of CY 2011-2013 and a post-implementation period of CY 2014-2022. Due to the differences in coverage for IowaCare and Iowa Wellness Plan, these comparisons are limited to utilization that could occur at a primary care site. Emergency department and inpatient hospitalization data is not valid as IowaCare members were only allowed to access 2 hospitals in Iowa. The IowaCare population will be limited to those with incomes of 0-133% FPL to mirror the IWP population for our analyses. IowaCare/IWP members will be compared over time to Medicaid members enrolled through FMAP and/or SSI.

Post-implementation period (CY 2014-2022)

Surveys

Survey data collected approximately every 18 months from January 2014 through present. Survey sampling strategies vary over time, however, for those surveys in which we have similar sampling

strategies we will be able to compare the data over time for IWP and Medicaid members enrolled through FMAP and SSI.

Administrative data

Medicaid claims data are available for the post implementation period CY 2014-2022.

Data Sources, Analysis Methods, and Measures

Data sources

Member surveys

Survey-based outcomes will use data from IWP member surveys that are fielded every 18 months throughout the evaluation period.

The foundation for the IWP member survey instrument will be based on the Consumer Assessment of Healthcare Providers and Systems (CAHPS®) survey. The PPC was involved in the development of the CAHPS survey and has used the instrument to evaluate issues from the perspective of Iowa Medicaid and IWP members for over 15 years for the evaluation of Medicaid waiver programs.

Surveys will be mailed to a stratified random sample of 1500 members in each of the following groups: IWP (Amerigroup), IWP (Iowa Total Care), and the traditional Medicaid State Plan. Members must have been enrolled in IWP for at least the previous six months to be eligible to receive the survey. An initial invitation and survey will be mailed to the entire sample along with a cash pre-incentive (nominal monetary pre-incentives are utilized to maximize response rates for mailed surveys). Respondents will have the option to complete the survey online or mail back the paper survey in the provided postage-paid envelope. A reminder postcard will be sent a week after the initial survey. A follow-up survey will be sent a month after the first mailing to those who have not responded, and a telephone follow up will be conducted for those who do have not completed a survey 2-3 weeks following the second survey mailing.

Members in each of the Medicaid coverage options are surveyed every 18 months using an instrument that includes questions from the most recent CAHPS survey instrument and additional supplemental items appropriate for evaluating specific demonstration activities. The consumer surveys will be conducted utilizing the best practices for health surveys, based on CAHPS guidance and current survey research recommendations. Initial consumer surveys will be mailed with a nominal cash pre-incentive (demonstrated to have a significant positive impact on response rates). A random ID number assigned to all sample members will be used to track survey responses and identify who receives follow-up contact. In addition to a postcard reminder and a second follow-up survey, a telephone follow-up will be administered for non-respondents 2-3 weeks after the second mailing. To maximize potential for contact with the sample, address information will be verified and updated through a national change-of-address database and alternative forms of contact will be investigated for sample members with survey mailings that are undeliverable.

Administrative data

The PPC is home to a Medicaid Data Repository encompassing over 100 million claims, encounter and eligibility records for all Iowa Medicaid enrollees for the period October 2010 through the present. Data are assimilated into the repository on a monthly basis. 95% of medical and pharmaceutical claims are completely adjudicated within 3 months of the first date of service, while the adjudication timing for institutional claims is 6 months. The PPC staff also have extensive experience with these files as well as extensive experience with CMS adult core measures and HEDIS measures. In addition, the database allows members to be followed for long periods of time over both consecutive enrollment months and periods before and after gaps in coverage. When the

enrollment database was started in 1965 Iowa made a commitment to retain a member number for at least 3 years and to never reuse the same Medicaid ID number. This allows long-term linkage of member information including enrollment, cost and utilization even if they change plans.

National CAHPS benchmarking database

The PPC has purchased the NCQA Quality Compass CAHPS data for commercial and Medicaid providers in the past. These data are available at the state by plan level allowing us to compare both Medicaid and Commercial plans across the nation. We will not be able to compare at the individual level or control for group differences when making the comparisons. However, these results provide worthwhile comparisons to assess how the IWP population compares to others over time.

Emergency department use survey

The PPC survey team is developing a telephone survey to be administered to members who utilize the ED for non-emergent diagnoses. We anticipate recruiting 50 members per month for 1 year. This should yield 300 completed surveys (100 per group) with sufficient power to detect moderate differences at .05.

Structured key stakeholder interviews

Interviews with key IWP stakeholders will be conducted annually and staggered at different times for different stakeholder groups. Interviews will be 60 minutes long and topics for the structured interviews will be developed to reflect the experiences of IWP members and provide elaboration from a primary source as needed to provide context for data collection activities, outline the availability of key pieces of information and outline adjustments to IWP. Stakeholder interviews may occur at varying times as needed to inform the evaluation portions of the policy components.

Measures

Bivariate analyses

With the complexity of the evaluation and the many areas investigation, it is not possible to provide complex modelling for every measure. Additionally, some measure changes provide context around the more complex modelling. Bivariate analyses can provide an understanding of the changes, for example, that have occurred pre-and post-demonstration between the many target and comparison groups we have identified. Appropriate bivariate analytic approaches we use depend on data structures of two variables of our interest, their sample size and other associated assumptions.

Multivariate modelling

Many outcomes are population-based, however through modification of the protocols they will also be measured as individual outcomes. Individual outcomes can be measured as a dichotomous variable indicating whether or not the member had a service (e.g., person with type 1 or type 2 diabetes receiving a Hemoglobin A1c) or experienced an outcome (e.g., preventive visit) or a continuous variable (e.g., per member per month cost, or time to first enrollment gap)

Comparative Interrupted Time Series (CITS)

A simple comparative interrupted time series analysis (CITS) entails a Difference in Difference (DID) estimation in which the effect of a health program is determined by comparing the pre- and post-program means in the study population using the pre- and post-program means in the comparison population as the counterfactuals. In complex CITS analyses with more pre- and post-IWP data (as in the case of many of our hypotheses), we analyze means and slopes of pre-IWP values to determine changes both in means and in post-IWP linear and non-linear trends, as well as mean and trend heterogeneity among different sub-groups of population.

For programs where a readily identified comparison group exists, CITS methods are very useful. For program groups where no readily-identified comparisons exist, regression controlling for observed patient or area characteristics will be utilized. The specific analysis technique will depend on the distribution of the dependent variable (e.g., OLS for continuous variables and logistic regression for dichotomous variables with a skewed distribution). When appropriate, person, program or area fixed effects will be used to control for time-invariant individual (or program or area) effects and year effects. Each method has strengths and weaknesses but combined should offer a robust analysis of program effects on costs and outcomes.

Covariates

Payment structure - series of dichotomous variables that provide payment structure comparisons. The variables will indicate whether during the month a member was in the HMO (0,1), PCCM (0,1), or fee-for-service (0,0).

Age - calculated monthly

Age squared - to allow for a curvilinear relationship between age and costs

Gender

Race – within the Medicaid data 30% of enrollees/members do not identify a race. Previous analyses have indicated that this option does not appear to have a race-based bias or systematic component. We will perform the analyses with this group identified as race 'Undisclosed' and without this group.

Number of chronic conditions - The Health Home program in Iowa Medicaid utilizes seven diagnoses to establish member participation: mental health condition, substance use disorder, asthma, diabetes, heart disease, overweight, and hypertension. A count of these conditions will serve as the chronic conditions measure though the severity of impairment will be unattainable.

Risk adjustment - Risk stratification provides an adjustment for the model to determine whether there are high-risk groups of enrollees whose costs are more likely to be reduced through the Wellness Plan. We will develop risk stratification based on medical diagnoses, physical diseases and disorders. We will determine the exact method of stratifying the enrollees once we are able to analyze the data and determine whether we are able to construct risk stratification for each month and how we will provide a risk stratification mechanism for the control groups.

Rural/urban - Rural-urban continuum codes (RUCC) provided through the US Department of Agriculture will be included. We will also test the model with the county of residence as a covariate; however, past analyses indicate that the RUCC is sufficient.

Income - Percent poverty will be included as it appears on the enrollment files.

When needed, we will use maximum likelihood estimators (logit or probit) or a recently developed special regressor method. Dong and Lewbel (2015) show that the special regressor method has several advantages over maximum likelihood estimators including providing consistent estimates in cases of endogenous regressors.

We will also utilize modified Poisson regressions (Poisson regressions with a robust error variance). This method is used to answer research questions involving count dependent variables. Poisson regressions use a log link function to relate the expected value of an outcome of interest (Y) $(E(Y)=\mu)$ to a linear combination of X:

 $\log(\mu)=X_{\mu}$, or $\mu=e^{X}(1)$

In addition, we will pre-process the data for estimations using matching methods, including propensity score matching (with difference matching schemes, e.g., nearest neighbor, caliper) or coarsened exact matching methods. Alternatively, we may use propensity scores as inverse probability of treatment weights whenever appropriate. All these estimation techniques are intended to minimize bias and allow us to make causal inference between program interventions and outcomes of interest. In previous rounds of cost analyses, we did use matching techniques to pre-process data and there seemed to be enough common support across covariates.

Reference:

Dong, Y., & Lewbel, A. (2015). A Simple Estimator for Binary Choice Models with Endogenous Regressors. *Econometric Reviews*, 34(1-2), 82-105.

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Evaluation Methods Summary: Access to Care

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 1.1: Wellness Plan m	embers will have equal or greater access to primary care	and specialty services.	
Research Question 1.1.1: Are adults	in the IWP more likely to have had an ambulatory or preven	tive care visit than other adults	s in Medicaid?
Study group: IWP members Comparison group: FMAP adult members	Percent of members who had an ambulatory care visit in the measurement year (HEDIS AAP)	Medicaid claims	Means tests CY 2014-2022
Study group: IWP members			
Comparison group: FMAP adult members	Whether a member had an ambulatory or preventive care visit (HEDIS AAP)	Medicaid claims	DID CY 2014-2022
Research Question 1.1.2: Are adults Benchmarking Database?	in the IWP more likely to report greater access to urgent car	e than other adults in national	estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Composite of two questions rating timely access to UC and unmet need for UC (CAHPS question)	Member Survey	Means tests
Research Question 1.1.3: Are adults Benchmarking Database?	in the IWP more likely to report greater access to routine ca	re than other adults in national	l estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Composite of two questions rating timely access to RC and unmet need for RC (CAHPS question)	Member Survey	Means tests
Research Question 1.1.4: Are adults national estimates from National Co	in the IWP more likely to get timely appointments, answers AHPS Benchmarking Database?	to questions, and have less time	e in waiting room than other adults
Adults in national estimates from National CAHPS Benchmarking Database	Composite of three questions 1) member experience with getting appointments for care in a timely manner, 2) time spent waiting for their appointment, and 3) receiving timely answers to their questions. (CAHPS question)	Member Survey	DID
Research Question 1.1.5: Are adults National CAHPS Benchmarking Dat	in the IWP more likely to know what to do to obtain care aft abase?	er regular office hours than oth	ier adults in national estimates from
Adults in national estimates from National CAHPS Benchmarking Database	Member experience with knowing what to do to obtain care after regular office hours (CAHPS question)	Member Survey	DID

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 1.1.6: Are adults Benchmarking Database?	in the IWP more likely to report greater access to specialist	care than other adults in nation	nal estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Composite of two questions rating access to and unmet need for care from a specialist (CAHPS question)	Member Survey	DID
Research Question 1.1.7: Are adults CAHPS Benchmarking Database?	in the IWP more likely to report greater access to prescript	ion medication than other adult	s in national estimates from Nationa
Adults in national estimates from National CAHPS Benchmarking Database	Composite of two questions rating access to and unmet need for prescription medication (CAHPS question)	Member Survey	DID
Hypothesis 1.2: Wellness Plan mo	embers will have equal or greater access to preventive c	are services.	
Research Question 1.2.1: Are wome	n aged 50-64 in the IWP more likely to have had a breast car	ncer screening than other adults	in Medicald?
Study group: Female IWP members 50-64 yrs	Percent of women 50-64 years of age who had a mammogram to screen for breast cancer (HEDIS BCS)	Medicaid claims	Means tests CY 2014-2022
Comparison group: Female FMAP members 50-64 yrs	during the measurement year		VI ZVIPZVZZ
Study group: Female IWP members 50-64 yrs	Whether a woman 50-64 years of age had a mammogram to screen for breast cancer (HEDIS BCS)	Medicaid claims	DID
Comparison group: Female FMAP members 50-64 yrs	mammogram to screen for breast cancer (HEDIS BCS) during the measurement period	medical called	CY 2014-2022
Research Question 1.2.2: Are wome	n aged 21-64 in the IWP more likely to have had a cervical c	ancer screening than other adul	ts in Medicaid?
Study group: Female IWP members 21-64 yrs	Percent of women 21-64 years of age who were screened for cervical cancer (HEDIS CCS) in the measurement year or the 2 years prior to the	Medicaid claims	Means tests CY 2017-2022
Comparison group: Female FMAP members 21-64 yrs	measurement year		S ANDWANCES
Adults in Medicaid	Whether a woman 21-64 years of age was screened for cervical cancer (HEDIS CCS) in the measurement year or the 2 years prior to the measurement year	Medicald claims	DID CY 2017-2022
Research Question 1.2.3: Are adults Benchmarking Database?	in the IWP more likely to have had a flu shot in the past yea	r than other adults in national e	stimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Percent of members 21-64 years of age who received an influenza vaccination (CAHPS question)	Member Survey	Means tests
	124		

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 1.2.4: Are adults	with diabetes in the IWP more likely to have had Hemoglob	oin AIc testing than other adults	with diabetes in Medicaid?
For those identified as			
having diabetes			
Study group: IWP members	Percent of members with type 1 or type 2 diabetes who had Hemoglobin A1c testing (HEDIS CDC) during the	Medicaid claims	Means tests
3 comparison groups:	measurement year		CY 2012-2022
FMAP adult members			
SSI adult members			
IowaCare members			
For those identified as			
having diabetes			
Study group: IWP members	Whether a member with type 1 or type 2 diabetes had Hemoglobin A1c testing (HEDIS CDC) during the	Medicaid claims	CITS Pre-IWP CY 2011-2013 Post-IWP CY 2014-2022
3 comparison groups:	measurement period		
FMAP adult members			
SSI adult members			
IowaCare members			
Research Question 1.2.5: Are adults Benchmarking Database?	in the IWP more likely to report greater access to preventi-	ve care than other adults in natio	mal estimates from National CAH
Adults in national estimates from National CAHPS Benchmarking Database	Access to and unmet need for preventive care (CAHPS question)	Member Survey	DID

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 1.3: Wellness Plan n	nembers will have equal or greater access to mental and b	ehavioral health services.	
Research Question 1.3.1: Are adul with major depressive disorder in	ts in IWP with major depressive disorder more likely to have be Medicaid?	nigher anti-depressant medicat	ion management than other adult:
For those identified as having major depressive disorder			
Study group: IWP members	Percent of members with major depressive disorder who remained on antidepressant medication (HEDIS	Medicaid claims	Means tests CY 2015-2022
2 comparison groups FMAP adult members SSI adult members	AMM)		CY 2015-2022
For those identified as having major depressive disorder			
Study group: IWP members	Time to first lapse in anti-depressant medication		Survival analyses CY 2015-2022
2 comparison groups FMAP adult members SSI adult members	Newly developed measure identifying continuous use of anti-depressant medication utilizing medication lists from HEDIS AMM	Medicaid claims	
	ts in the IWP more likely to utilize mental health services than	other adults in Medicaid?	
Study group: IWP members 2 comparison groups: FMAP adult members SSI adult members	Percent of members receiving any mental health services Newly developed measure utilizing HEDIS FUH Mental Health Diagnosis Value Set	Medicaid claims	Means tests CY 2014-2022
For those identified as having mental health diagnosis			
Study group: IWP members	Whether member with mental health diagnosis received	Medicaid claims	DID
Two comparison groups 1: FMAP adult members 2: SSI adult members	mental health services		CY 2016-2022

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Members having an ED visit for a mental health illness			
Study group: IWP members	Whether member had a follow-up visit after ED visit for mental illness (HEDIS FUM)	Medicaid claims	DID CY 2015-2022
2 comparison groups FMAP adult members			
SSI adult members			
Research Question L.3.3: Are adults Benchmarking Database?	in the IWP more likely to have greater access to preventive	care than other adults in nation	al estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Access to and unmet need for preventive care (CAHPS question)	Member Survey	DID
Hypothesis 1.4: Wellness Plan me non-emergent care.	embers will have equal or greater access to care, resulti	ng in equal or lower use of em	ergency department services for
Research Question 1.4.1: Are adults	in the IWP more likely to have fewer non-emergent ED visit	s than other adults in Medicaid?	
Study group: IWP members			
Comparison group: FMAP adult members	Number of non-emergent ED visits per 1,000 member months (HEDIS AMB) in the measurement year	Medicaid claims	Means tests CY 2014-2022
Study group: IWP members			
Comparison group: FMAP adult members	Whether member had a non-emergent ED visit (HEDIS AMB) in the measurement period	Medicaid claims	DID CY 2014-2022
Research Question 1.4.2: Are adults	in the IWP more likely to have fewer follow-up ED visits that	in other adults in Medicaid?	
Study group: IWP members	Percent of members with ED visit within the first 30 days after index ED visit in the measurement year		
Comparison group: FMAP adult members	Newly developed measure using the structure of hospital readmission from HEDIS and ED value set to define the visits	Medicaid claims	Means tests CY 2014-2022
Research Onestion 1.4.3: Are adults	in the IWP more likely to utilize ambulatory care than other	adults in Medicaid?	
Study group: IWP members	The state of the s		
Comparison group:	Rate of outpatient and emergency department visits per 1,000 member months (HEDIS AMB)	Medicaid claims	Means tests CY 2014-2022

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Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 1.4.4: What of	her circumstances are associated with overutilization of ED?		
Members utilizing the ED ED providers	Identification of facilitators and barriers to other types of care and factors related to non-emergent ED use [e.g. knowledge of alternatives, access, ease of use, up-front cost, work or childcare coverage, financial stress]	Qualitative member interviews, ED provider interviews	Qualitative thematic coding

Evaluation Methods Summary: Coverage continuity

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 2.1: Wellness Plan mem	bers will experience equal or less churning.		
Research Question 2.1.1: Are adults in	the IWP less likely to have gaps in health insurance coverage over the	ne past 12 months than otl	her adults in Medicaid?
Study group: IWP members Comparison group: FMAP adult members	Number of months in the previous year when the respondent did not have health insurance coverage (Developed for IWP evaluation)	Member Survey	DID
Research Question 2.1.2: Are adults in	the IWP more likely to have higher rates of consecutive coverage th	an other adults in Medicai	d?
Study group: IWP members Comparison group: FMAP adult members IowaCare members	Percent of members with 6 months continuous eligibility and 12 months continuous eligibility (Developed for IWP evaluation)	Enrollment files	CITS Pre – CY 2010-2013 Post – CY 2014-2021
Research Question 2.1.3: Are adults in	the IWP less likely to change plans or lose eligibility during the year	than other adults in Medi	caid?
Study group: IWP members Comparison group: FMAP adult members IowaCare members	Whether member did not change plans or lose eligibility, changed plans or lost eligibility once, changed plans or lost eligibility 2-3 times or changed plans or lost eligibility 4 or more times (Developed for IWP evaluation)	Enrollment files	CITS Pre – CY 2010-2013 Post – CY 2014-2021
Hypothesis 2.2: Wellness Plan mem	bers will maintain continuous access to a regular source of care	when their eligibility st	atus changes.
Research Question 2.2.1: Are adults in Database?	the IWP more likely to have a personal doctor than other adults in r	ational estimates from Na	tional CAHPS Benchmarking
Adults in national estimates from National CAHPS Benchmarking Database	The percent who respond that they currently have a personal doctor (CAHPS question)	Member Survey	Means tests

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Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 2.2.2: Are adults in prior years?	the IWP more likely to have a positive experience with changing per	sonal doctor/PCP than oth	er adults in Medicaid/than in
Study group: IWP members			
Comparison group:	Member experiences with changing personal doctor/primary care provider (Developed for IWP evaluation)	Member Survey	DID -
FMAP adult members			

Evaluation Methods Summary: Quality of Care

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Hypothesis 3.1: Wellness Plan i	nembers will have equal or better quality of care.	property and the spirits of	Carry Control
Research Question 3.1.1: Are adul	Its in the IWP less likely to receive antibiotic treatment for acute bron	chitis than other adults in Me	edicaid?
Study group: IWP members	The percent of members 19-64 years of age who were enrolled		
2 Comparison groups: FMAP adult members SSI adult members	for at least 11 months during the measurement year with a diagnosis of acute bronchitis who were not dispensed an antibiotic prescription (HEDIS AAB)	Medicaid claims	Means tests CY 2014-2022
Research Question 3.1.2: Are adul Medicaid?	lts aged 40-64 with COPD in IWP more likely to have pharmacotherap	eutic management of COPD	exacerbation than other adults i
Study group: IWP members	The percent of COPD exacerbations for members age 40-64 years of age who had an acute inpatient discharge or		
2 Comparison groups: FMAP adult members SSI adult members	emergency department visit during the first 11 months of the measurement year and who were enrolled for at least 30 days following the inpatient stay or emergency department visit and who were dispensed appropriate medications (PQI)	Medicaid claims	Means tests CY 2014-2022
Research Question 3.1.3; Are adul	Its in the IWP more likely to self-report receipt of flu shot than other a	dults in Medicaid?	
Study group: IWP members			
2 Comparison groups: FMAP adult members SSI adult members	Percent of respondents who reported having a flu shot (CAHPS question)	Member Survey	Means tests

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 3.1.4: Are adul	ts in the IWP less likely to report visiting the ED for non-emergent car	re than other adults in Medic	aid?
Study group: IWP members 2 Comparison groups: FMAP adult members SSI adult members	Percent of respondents who reported that the care they received at their most recent visit to the emergency room could have been provided in a doctor's office if one was available at the time (Developed for IWP evaluation)	Member Survey	Means tests
Hypothesis 3.2: Wellness Plan ii	nembers will have equal or lower rates of hospital admissions.		
Research Question 3.2.1: Are adul Medicaid?	ts in the fWP less likely to have hospital admissions for COPD, diabete	es short-term complications,	CHF or asthma than other adults
Study group: IWP members: 2 Comparison groups: FMAP adult members SSI adult members	The number of discharges for COPD, CHF, short-term complications from diabetes or asthma per 100,000 Medicaid members (PQI)	Medicaid claims	Means tests CY 2014-2022
Research Question 3.2.2: Are adul	ts in the IWP less likely to utilize general hospital/acute care than oth	er adults in Medicaid?	
Study group: IWP members 2 Comparison groups: FMAP adult members SSI adult members	This measure summarizes utilization of acute inpatient care and services in the following categories: total inpatient, surgery and medicine using number of discharges per 1000 member months, number of days stay per 1000 member months and average length of stay for all members who were enrolled for at least 1 month during the measurement year (HEDIS HIU)	Medicaid claims	Means tests CY 2014-2022
Research Question 3.2.3: Are adul Medicaid?	ts in the IWP less likely to have an acute readmission within 30 days of	of being discharged for acute	inpatient stay than other adults i
Study group: IWP members 2 Comparison groups: FMAP adult members SSI adult members	For members age 19-64 years who were enrolled for at least on month during the measurement year, the number of acute inpatient stays during the measurement year that were followed by an acute readmission for any diagnosis within 30 days and the predicted probability of an acute readmission (Developed for IWP evaluation)	Medicaid claims	Means tests CY 2014-2022
Research Question 3.2,4: Are adul	ts in the IWP less likely to have a self-reported hospitalization in the p	previous 6 months than othe	radults in Medicaid?
Study group: IWP members			
2 Comparison groups: FMAP adult members SSI adult members	Hospitalization reported in the previous 6 months (Developed for IWP evaluation)	Member Survey	DID

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Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Research Question 3.2.5: Are adults	in the IWP less likely to have a self-reported 30-day hospital readn	nission in the previous 6 mon	ths than other adults in Medicaid?
Study group: IWP members			
2 Comparison groups: FMAP adult members SSI adult members	30-day readmissions reported in last 6 months (Developed for IWP evaluation)	Member Survey	DID
Hypothesis 3.3: Wellness Plan me	embers will report equal or greater satisfaction with the care p	rovided.	
Research Question 3.3.1: Are adults national estimates from National Co	in the IWP more likely to report that their personal doctor commu AHPS Benchmarking Database?	nicated well with them durin	g office visits than other adults in
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS composite measure designed to assess respondent perception of how well their personal doctor communicated with them during office visits.	Member Survey	Means tests
Research Question 3.3.2: Are adults estimates from National CAHPS Ber	in the IWP more likely to report that their provider supported the achmarking Database?	n in taking care of their own	health than other adults in nationa
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS Patient-Centered Medical Home (PCMII) composite measure designed to assess respondent perception of how well their provider supported them in taking care of their own health.	Member Survey	Means tests
Research Question 3.3.3: Are adults estimates from National CAHPS Ber	in the IWP more likely to report that their provider paid attention ichmarking Database?	to their mental or emotional	health than other adults in nationa
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS Patient-Centered Medical Home (PCMH) composite measure designed to assess respondent perception of how well their provider paid attention to their mental or emotional health which is the CAHPS way to assess the comprehensive care component of the PCMH.	Member Survey	DID
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS Patient-Centered Medical Home (PCMH) composite measure designed to assess respondent perception of how well their provider paid attention to their mental or emotional health which is the CAHPS way to assess the comprehensive care component of the PCMH.	Member Survey	DID
Research Question 3.3.4: Are adults national estimates from National C/	in the IWP more likely to report that their provider talked with the AHPS Benchmarking Database?	m about their prescription m	edications than other adults in
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS Patient-Centered Medical Home (PCMH) composite measure designed to assess respondent perception of how well their provider talked with them about their prescription medications which is the CAHPS way to assess the shared decision-making component of the PCMH.	Member Survey	DID

IWP Member	Experiences

Comparison Strategy	Outcome Measure(s)	Data Sources	Analytic Approach
Adults in national estimates from National CAHPS Benchmarking Database	This is a CAHPS Patient-Centered Medical Home (PCMH) composite measure designed to assess respondent perception of how well their provider talked with them about their prescription medications which is the CAHPS way to assess the shared decision-making component of the PCMH.	Member Survey	DID
Research Question 3.3.5: Are adults in national estimates from National	in the IWP more likely to report that their provider paid attention. CAHPS Benchmarking Database?	to the care they received from	n other providers than other adul
Adults in national estimates from National CAHPS Benchmarking Database	There are three individual items from the CAHPS Patient- Centered Medical Home (PCMH) items designed to assess respondent perception of their provider's attention to the care they received from other providers. This is the CAHPS way to assess the care coordination component of the PCMH.	Member Survey	DID
Adults in national estimates from National CAHPS Benchmarking Database	There are three individual items from the CAHPS Patient- Centered Medical Home (PCMH) items designed to assess respondent perception of their provider's attention to the care they received from other providers. This is the CAHPS way to assess the care coordination component of the PCMH.	Member Survey	DID
Research Question 3.3.6: Are adults CAHPS Benchmarking Database?	in the IWP more likely to report higher ratings of their personal do	ctor than other adults in nati	onal estimates from National
Adults in national estimates from National CAHPS Benchmarking Database	Rating of personal doctor on 0-10 scale (CAHPS question)	Member Survey	Means tests
Research Question 3.3.7: Are adults Benchmarking Database?	in the IWP more likely to report higher ratings of their overall care	than other adults in national	estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Rating of all care received on 0-10 scale (CAHPS question)	Member Survey	Means tests
Research Question 3:3.8: Are adults Benchmarking Database?	in the IWP more likely to report higher ratings of their health plan	than other adults in national	estimates from National CAHPS
Adults in national estimates from National CAHPS Benchmarking Database	Rating of health care plan on 0-10 scale (CAHPS question)	Member Survey	Means tests

Logic Model: Experiences of IWP Members

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Activities WP Manufacts Activities 9 delited upon 15 del 9 milionario del 1800 del 9 milionario del 1800 del 9 milionario del 1800 del 9 milionario del 9 de	etias of UVP Members yearly systems one (WE) - Promotion own from a plan-	*Complimion of WC	Main's Term Ciolasmes	Midian Ismi Diduznen	Compliferon Curlaneses
Adulty ages 19-64 Necessery to 138% ER: shallnifelia Callaboration CAS - Refer all generations	y arriv spottoms, many (WE) * Proceeding many from a plan				
incurrence (VA) Incurrence (VA) A contraction of the contraction of	I Consultatival Search Town 4 (Search Search	Compressor of tools, Waterplacer of acts, website Beauty and a second compressor of a Compressor of acts of a Compressor of acts of a Fraguetta Acts Acts of a Fraguet	BACK-months and Back search of a sealment sector his stiftings of the control of	607 meetilious will hove around size an extended six in conti- gradition. An excellent incommunication ammentary alternations services (In 2000 meetilion and incommunication services) (In 2000 meetilion services)	SOT Interiors and instruction continues action to a steakit mental of last relative - Notice and Marketing of the American procession desire the metabor solids - Interior and Marketing of the American procession of the Procession of the American State of th
(WP numbers are assured SWI tree	ASSUMETIONS		MEDITURES action the state	EXTERNAL FACTORS	

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F. Attachments

F-1. Independent Evaluator

The State will work within policies and procedures established under the Iowa Code to contract with an independent entity to complete the evaluation activities. In the past, The University of Iowa Public Policy Center (UI PPC) has conducted many independent evaluations of Medicaid changes (please see: http://ppc.uiowa.edu/health). We fully anticipate that the PPC will meet the requirements of an independent entity under these policies and procedures. In addition, The University of Iowa brings the ability to meet the prevailing standards of scientific and academic rigor as appropriate and feasible for each aspect of the evaluation, including standards for the evaluation design, conduct, and interpretation and the reporting of findings. The PPC has in the past, and will continue, to use the best available data; use controls and adjustments for and reporting of limitations of data and their effects on results; and discuss the generalizability of results.

F-2.Budget

	V1 (Q1 - Q4)	Y2 (Q1 - Q4)	73 (Q1 - Q4)	Y4 (Q1 - Q4)	Y5 (Q1 - Q3)	Total
Compensation						- Carlotte
Total Salary	\$ 810,364	\$ 773,122	\$ 751,842	\$1,057,857	\$ 781,385	\$4,174,570
Total Fringe	\$ 259,303	\$ 258,105	\$ 257,502	\$ 343,400	\$ 256,700	\$1,375,012
F&A Cost: 8%	\$ 112,984	\$ 120,929	\$ 127,591	\$ 130,822	5 101,508	\$ 593,834
Total Compensation and F&A	\$ 1,182,651	\$ 1,152,156	\$ 1,136,936	\$ 1,532,079	\$ 1,139,593	\$ 6,143,415
Reimbursables						
Supplies	\$ 420	\$ 420	\$ 420	\$ 420	\$ 315	\$ 1,995
Travel	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 9,000	\$ 57,000
Contractual	\$135,431	\$138,664	\$141,994	\$145,424	\$115,996	\$ 677,510
Other	\$104,031	\$ 69,227	\$ 71,650	\$115,326	\$116,159	5 476,393
Survey and Primary Data Collection	\$265,467	5427,533	\$537,000	\$189,750	\$190,000	\$1,609,750
Total Reimbursables	\$ 517,349	\$ 647,844	\$ 763,064	\$ 462,921	\$ 431,470	\$ 2,822,648
Total for Contract	\$ 1,700,000	\$ 1,800,000	\$ 1,900,000	\$ 1,995,000	\$ 1,571,063	\$ 8,966,063

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F-3. Timeline and Major Milestones

Timeline

Quarter one is based on the time when the IWP evaluation plan is approved by CMS. These activities may extend past the current waiver period based on the start date.

QUARTER YEAR	Q1 Yr1	QZ Yr1	Q3 Yr1	Q4 Yr1	Q1 Yr2	Q2 Yr2	Q3 Yr2	Q4 Yr2	Q1 Yr3	Q2 Yr3	Q3 Yr3	Q4 Yr3	Q1 Yr4	Q2 Yr4	Q3 Yr4	Q4 Yr4	Q1 Yr5	Q2 Yr5	Q3 Vr5	Q4 Yr5	Q1 Yr6	Q2 Yr6
Reports																						
Interim Report	11			111										11	H							
Summative Report	1																					
Survey-based outcon	ies																					
Survey development	11																				-	
Survey data collection	11			111					1										_			
Analyses															li at							
Report				119					П													П
Process Evaluation																						
Document Review																						
Script development										П												
Tiered interviews																						
Qualitative interview and content analysis	1													14					-			
Report production																						
Healthy Behaviors																						

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		Attachments								April 28, 2021												
QUARTER YEAR	Q1 Yr1	Q2 Yr1	Q3 Yr1	Q4 Yr1	Q1 Yr2	Q2 Yr2	Q3 Yr2	Q4 Yr2	Q1 Yr3	QZ Yr3	Q3 Yr3	Q4 Yr3	Q1 Yr4	QZ Yr4	Q3 Yr4	Q4 Yr4	Q1 Yr5	Q2 Yr5	Q3 Yr5	Q4 Yr5	Q1 Yr6	Q 2 Yr 6
laims-based analyses																				1		
Member survey panel														T								
Member survey cross- sectional																						
Disenrollment survey	11																					
Disenrollment Interviews	ij.																					
MCO interviews								1 2														
Yearly Report				1																		
Dental Wellness Plan																						
Consumer survey																						
Dentist survey																						
Admin. claims outcomes																						11
Member interviews	144			-											H							
Report																						
Retroactive Eligibility																						
Stakeholder interviews																						
Enrollment surveys																						
Claims analyses																						
nterim Report															Ш							
Enrollment data analyses												Ì		E								
State comparison														1	1							

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									Attac	hment	S				1	April 2	8, 202	1				
QUARTER YEAR	Q1 Yr1	Q2 Yr1	Q3 Yr1	Q4 Yr1	Q1 Yr2	Q2 Yr2	Q3 Yr2	Q4 Yr2	Q1 Yr3	Q2 Yr3	Q3 Yr3	Q4 Yr3	Q1 Yr4	QZ Yr4	Q3 Yr4	Q4 Yr4	Q1 Yr5	Q2 Yr5	Q3 Yr5	Q4 Yr5	Q1 Yr6	Q 2 Yr 6
Provider interviews																						
Final Report	100							ji.						111				5				
Cost Sharing																						
Consumer surveys						H																
Claims analyses												4		1							1	
Interim Report						-																
HCUP ER analyses															17						-	
Final Report	H			117				E														
Cost and sustainabili	ty																					
Stakeholder interviews								T						7.1	T			7				1.
Administrative documents						Ħ								111								
Claims analyses								111														
Interim Report								1.														
IHA data analyses											1	14.1		Tail	III						1 40	
State Comparisons																						
Final Report	j.E.			1	-																	
NEMT																						
Stakeholder interviews																						
Survey development								111							-							
Survey data collection	I			1				1														

									Attacl	hment	S					April 2	8, 202	1				
QUARTER YEAR	Q1 Yr1	Q2 Yr1	Q3 Yr1	Q4 Yr1	QI Yr2	QZ Yr2	Q3 Yr2	Q4 Yr2	Q1 Yr3	Q2 Yr3	Q3 Yr3	Q4 Yr3	Q1 Yr4	QZ Yr4	Q3 Yr4	Q4 Yr4	Q1 Yr5	Q2 Yr5	Q3 Yr5	Q4 Yr5	Q1 Yr6	Q2 Yr 6
Analyses												201										
Report	ii Tar							127	fini													

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Major Milestones

Deliverable Reports	Delivery Date to IME	Delivery Date to CMS
Interim Report	September 30, 2023	December 31, 2023
Summative Evaluation Report	March 31, 2026	June 30, 2026

2021 Topics	2022 Topics	2023 Topics (proposed)
Originally submitted to Jowa Medicald 01/06/2011	Submitted to loan Medicald 11/19/2002	Submitted to lowe Medicald 05/XX/2023
opic 1: Member perceptions of HDB requirements and associated insincentives.	Topic 1: Member perceptions and experiences with receiving a dental wellness exam to meet the Healthy Behavior (HB) program requirements.	Some as 2022 Topic 1
opic 2: Impact of member attitudes and experiences with the DWP enefit structure on completion of HDBs	Topic 2: Inspect of the healthy behavior requirement on members' access to and unitization of dental care.	Same as 2022 Topic 2
opic 3: Impact of DWP benefit structure on members' care-seeking eliavior	Eliminated for 2022	
opic 4: Impact of DWP benefit structure on members' oral health	Topic 3: Impact of the receipt of a dental wellows example members" wall makin	Some as 2022 Topic 3
opic 5: Impact of the COVID-19 pandemic on DWP members' & irroviders' service utilization and provision	Topic 4: Impact of the COVID-19 pandemic on receips of a dental wellness exam	Same as 2022 Topic 4
		[NEW] Topic 5: Impact of elimination of DWP Healthy Behavior progra on care-seeking behaviors
		[NEW] Topic 6: Impact of elimination of DWP Healthy Behavior progra on provider participation

2021 Research Questions (RQs) and Hypotheses	2022 (as previously submitted)	2023 (proposed additional RDs and hypotheses to add to 2022 ROs)	
	Note: hypotheses are not in order by number, instead, they are aligned with corresponding hypothesis from 2021.		
Topic 1 Hypothesis: Higher levels of awareness and perceived ability to comply with requirements will be associated with favorable attitudes towards the DWP brownit structure.	Topic 1 Hypothesis: Higher levels of awareness and perceived ability to comply with readinements will be essected with receiving a dental wellness exam.	(NEW) Topic S Hypothesis: Discontinuation of DWP Health Bellavior program requirements was associated with improved oral health succomes.	
RQ 1A. What level of awareness do members have of the DWP program (including HDB requirements, monthly premiums, annual benefit maximum, and benefit structure)?	RQ 1A: What level of awareness do members have of a dental wellness exam qualifying as a HB?	RQ 5A: What level of awareness do members have that the self- risk assessment is no longer a DWP Healthy Behavior program requirement?	
1A.1 Members who have been enrolled longer will have higher levels of awareness than new enrollees.	1A.1: Members who have been enrolled longer will have higher levels of awareness that the dental wellness exam can satisfy the HB requirement than new enrollees.	5A.1: Members who have been enrolled longer will have higher levels of awareness that the self-risk assessment is no longer a DWP Healthy Behavior program requirement.	
1A.2: DWP 2.0 enrollees will have higher levels of awareness than DWP 1.0 enrollees.			
RQ 1B: Do members view HDB requirements as a favorable alternative to monthly premiums?	RQ 1E: Do members view receiving a dental wellness exam as a favorable alternative to monthly premiums?		
1B,1: HDBs will be preferred over monthly premiums.	16.1: Receiving a dental wellness exam will be preferred over monthly premiums.		
1B.2: A majority of members will maintain full benefits vi	mercury prominents.		
completing HD8s rather than via paying premiums. RQ 1C: Do members view expanded dental benefits as			
preferable over basic benefits?			
1C1: Members with full benefits will be more likely to prefer expanded dental benefits over basic benefits compared to members with basic benefits.			
RQ 10: What are the barriers to completing HDBs?	RQ 18: What are the barriers to receiving a dental wellness exam in order to meet the HB requirements?	RQ 5B: How did barriers to dental wellness exams change following discontinuation of the DWP Healthy Behavior program requirements?	
10.1: DWP members who are exempt from HDBs will have equal or lower barriers to care.	1B.1 Members who are exempt from the HB Program will identify the same barriers to dental care as members subject to the HB requirements.		
10.2: Barriers to care in DWP 2.0 will be lower than pre- DWP 2.0.	RQ ZE: Are IHAWF members less likely to have transportation- related barriers to dental care than other adult Medicaid members who are eligible for NEMT benefits?		
1 D.3: Members with full benefits will report fewer	2E.1: JHAWP members will be less likely to report transportation-related barriers to dental care.		
RQ 1E: What are the characteristics of members with awareness of the program?	KQ 1C: What member characteristics are associated with inwareness that dental wellness exams qualify for HB		
1E.1: Demographic, socioeconomic, eligibility, length of enrollment, and health-related characteristics will be associated with awareness.	requirements?		
RQ 1F: How are members learning about the program?	RQ 1D: How are members learning that receiving a dental wellness exam qualifies for HB requirements?		
1F.1: Members will report receiving information about DWP from multiple sources.	10.1: Members will report receiving information about how a dental wellness exam meets the HB exam requirement from multiple sources.		
1F.2: Members will report that information from their PAHP helped them understand their dental benefits.	10.2: Members will report that information from their prepaid ambulatory health plan (PAHP) helped them understand how they could use a dental willness exam to meet the HB requirements.		
RQ 1G: How are members learning about the program?			
16.1: Members will report low levels of awareness of the financial hardship waiver.			
16.2: The percentage of members with financial hardship walvers will increase over time.			
RQ 1H: How satisfied are members with basic benefit			
1H.1: Members will have high levels of satisfaction with basic dental benefits.			
oeac de margemente. Completion of HDBs will be positively associated with new eness, solitiy to comply with requirements, and attitudes.	Topic 2 Mypothesis: HAWR memoers will have squis or greater access to a dental welfness exemund other dental pervices because pental welfness exems qualify as a healthy behavior.		
RO 2A: What proportion of DWP members complete HDBs annually?	8Q 2A: What proportion of IHAWP members receive a dental wellness exam annually?	RQ5C: How did the proportion of IHAWP members receiving a dental wellness exam annually change following discontinuation of the DWP Healthy Behavior program requirements?	
Z.A.1: Members with longer lengths of enrollment are more likely to complete HDBs.	2A.2: IHAWP members with longer lengths of enrollment are more likely to receive a dental wellness exam	5C.1: IHAWP members will be more likely to receive a dental wellness exam following discontinuation of the DWP Healthy Behavior program requirements.	

2A.2: IWP-eligible members are more likely to complete HDBs than MSP-FMAP eligible members.	RQ 2B: Are adults in the IHAWP more likely to have had a dental wellness exam than other adults in Medicaid?	SC.2: Time to first dental visit is shorter for new entitlees after discontinuation of the DWP Healthy Behavior Program requirements
ZA.3: DWP Z.0 members will have higher rates of preventive dental visits compared to pre-DWP Z.0		
RQ 2B: Are members with hardship exemptions less likely		
to complete HDBs? 2B.1: Members with hardship exemptions will be less		
likely to complete HDBs.		
RQ 2C: How does HDB completion relate to awareness, ability to comply with requirements, and attitudes?		
2C.1: Completion of HDBs will be associated with awareness, ability to comply with requirements, and attitudes:		
Topic 3 Hypothesis: DWP members who complete HDBs will be more likely to read we needed preventive as e and trestment in a dental office.		
RG 3A: Are the HDB requirements associated with increased use of routine dental care, including preventive care?		
3A.1: Members who are not exempt from HDBs will be more likely to have a preventive dental visit than members who are exempt.	2A1: IHAWP members who are at or above 50% of the federal poverty level (FPL) and at risk of paying a premium are more likely to receive a dental wellness exam than Medicaid members who are not subject to potential premiums.	
RQ 3B: Are members able to find a dental home?	RC; ZC; Are IHAWP members oble to find a dental home where they can receive a dental wellness exam?	RQ 5D: After discontinuation of the DWP Healthy Behavior program requirements, did members ability to find a dental home increase?
3B.1: Likelinged of having a regular source of dental care will increase with length of enrollment.	2C1: Likelihood of having a regular source of dental care will increase with length of errollment.	SOLI: Likelihood of having a self-reported regular source of dental care increased after discontinuation of DWP Healthy Behavior program requirements.
3B.2: Nawly enrolled members will be able to find a partidipating dental provider.	ZC2: Newly enrolled members will be able to find a participating dental provider.	5D.2: Newly enrolled members' ability to find a participating dental provider will increase after discontinuation of Dental Healthy Behavior requirements.
3B.3: DWP 2.0 members will be more likely to have a		
dental hame compared to pre-DWF 1.0. RQ 2C: Is completion of HDBs associated with members'	RQ 2D: Are adults in the WAWP less likely to visit the ED for	A STATE OF THE STA
use of the emergency department (ED) for non-traumatic dental conditions (NDTCs)?	non-traumatic dental conditions (NTDCs) than other adults in Medicaid?	EQ 5E; Was discontinuation of DWP Healthy Behavior program requirements associated with reduced ED visits for NTDCs?
3C.1: Members who complete the HDBs will have lewer ED visits for NTDCs annually.	2.0.1: Members who receive a dental wellness exam will have fewer ED visits for NFDCs annually.	SE.1: After discontinuation of DWP Healthy Behavior program requirements: members will have fewer ED visits for NTDCs annually (pre-post comparison).
3C2: Members who complete the HDBs will be more likely to follow-up with a dentist after an ED viol for a NTDC.	2D.2: Members who receive a dental wellness exam will be more likely to follow-up with a dentist after at ED visit for a NTDC.	5E.2: After discontinuation of DWP Healthy Behavior program requirements: members will be more likely to follow-up with a dentist after an ED visit for a NTDC (pre-post comparison).
RQ 3D: Did the introduction of an annual benefit maximum (ABM) influence the types of care members receive?		RQ 5F; Did discontinuation of DWP Healthy Behavior program requirements influence the types of care members receive?
3D.1: Members post-ABM will be less likely to receive fixed and removable prosthodontic procedures.		5F.1: IHAW P members will be more likely to receive fixed and removable prosthodomic procedures increased after discontinuation of DWP Healthy Behavior program requirements,
RQ 3E: How does DWP change dental utilization?		RQ 56: Was discontinuation of DWF healthy behavior
3E.1: Dental utilization within the DWP population will be as high as or higher than utilization in other states.		requirements associated with a change in dental utilization? SG.1: Dental utilization within the IHAWP population will be as high as or higher than utilization in other states.
Topic 4 Hypothesis: DWP member € oral health will Improve over time.	Topic 3 Hypothesis: The cool wealth status of in AWP members who receive it dental wellness examinally improve over time.	5G.2: Members will report less unmet need for dental care.
RQ 4A: How do members rate their oral health?	RQ 3A: How do member swho have received a dental wellness exam in the past year rate their oral health as compared to those that did not?	56.3: Members will report fewer out of pocket costs for dental care.
4A.1; Self-rated oral health will improve over time.	SA.1: Members who receive a dental wellness exam will rate their oral health as better.	
RQ 4B: Do members with basic benefits have similar uninet treatment needs compared to those with full benefits?		
48.1: Members with basic benefits will have similar level of unmet dental need compared to individuals with full benefits.		
perients. RQ 4C: Do the two benefit levels exacerbate health disparities?		
4/1: Members with basic benefits will not have significantly lower self-rated oral health than individuals with full benefits.		

Topic 5 Hypothesis: DWP monitor's & providers utilization and provision of services will change due to system changes associated with DOVID 19 over time.	Topic A Hypothesis: Militation of a donatal weather, exam among II MWP members will change due to ayakem changes among about with the COVID-19 tandems.	
RQ SA: Have DWP members' ability to access services changed during the COVID-19 pandemic?	RQ 4A: Nove INAWP members' ability to access a dental wellness exam changed during the COVID-19 pandemic?	RQ 5H: Have IHAWP members' ability to access a dental wellness exom changed pre-post the COVID-19 pandemics'
5A.1: Members will be less likely to have diagnostic or preventive dental visits during the CCVID 19 pandemic.	4A.1: Members will be less likely to have had a dental wellness visit during the COVID 19 pandemic.	(5H.1) Members who had a dental home prior to COVID interruptions will have shorter time to first dental wellness exam- post COVID than members without a dental home.
5A.2: Members will be more likely to have an unmet need for dental care during the COVID 19 pandemic.		
RQ 5B: Is the COVID-19 pandemic associated with members' use of the emergency department (ED) for non- traumatic dental conditions (NDTCs)?	RQ 4B: Is the COVID-19 pandemic associated with members' use of the emergeacy department (ED) for NDTCs2	
5B.1: Members will be more likely to have ED visits for NTIX's during the COVID-19 pandemic.	4B.1: Members will be more likely to have ED visits for NTDCs during the COVID-19 pandemic.	
RQ SC: Did the COVID-19 pandemic impact provider participation in DWP?		
5C1: Providers will be less likely to accept new DWP members during and after the COVID-19 pandemic		
RQ 5D: Have DWF members' barriers to care changed during the COVID-19 pandemic?		
50.1: Members will be more likely to avoid dental care due to perceived risk of CDVID-19.		
5C2: Dental providers will be more likely to offer teledentistry services during the COVID-19 pandemic.		
5D.2: Members will be more likely to utilize teledentistry during the COVID-19 pandemic.		
		(NEW) Topic 6 Hypothesis: Elimination of DWP Healthy Behavior program improved provider participation
		RQ 6A: How did provider-related barriers to dental wellness exams change following discontinuation of the DWF Healthy Behavior program requirements?
		6A.1; IPAWP member's distance to nearest participating dentist will decrease following discontinuation.
		RQ 6B: How did dentist participation change following discontinuation of the DWP Healthy Behavior program requirements?
		6B.1: Dentist participation increased following discontinuation
		RG 6C: What proportion of dentists were aware of the discontinuation of the DWF Healthy Behavior program requirements?
		6C1: A substantial proportion of lowa dentists were aware of the discontinuation
		RQ 6D: Did dentist attitudes toward the annual benefit maximum change as a result of the discontinuation of the DWP Healthy Behavior program requirements?
		6D.1: Dentist attitudes toward the annual benefit maximum remained unchanged following the discontinuation of the DWP Healthy Behavior program requirements

	*Measures are aligned with their 2021 counterparts. NOTE: Some measures are out of order with topics due to topic changes from 2021–20221 The hypothesis numbers are accurate for 2022-2023.	
2021 Topic 1		Data Source
(1A.1) Member awareness of self-risk assessment HDB requirement	NA	Survey
(IA-1) Member awareness of armual exam HDB requirement	(1A.1) Member awareness of DWP Healthy Behavior program annual exam requirement	Survey
(1A.1) Member awareness of benefit (eyels	NA	Survey
[1A.1] Member awareness of monthly premiums	NA .	Survey:
[IA.2] Member awareness of plan structure	NA NA	Survey
(18.1) Member preference for how to maintain of full dental benefits - quantitative	(1E.1) Member preference for how to maintain of full dental benefits - quantitative	Survey
[18.1] Member preference for how to maintain of full dental benefits - qualitative	NÁ.	intervews
(18.2) Member maintenance of full benefits, HDB vs. premium	(1E.1) Member maintenance of full benefits, HDB vs. premium	Administrative
(1C.1) Member preference for how to maintain of full dental benefits - quantitative	NA NA	Survey
(1C.1) Member preference for how to maintain of full dental benefits - qualitative	(1E.1) Member preference for how to maintain of full dental benefits - qualitative	interviews
(1D.1) Barriers to HDB completion - quantitative	(18.1) Barriers to dental wellness exam completion for HBI requirment- quantitative	Survey
(1D.1) Barriers to HDB completion - qualitative	(18.1) Barriers to dental wellness exam completion - qualitative	interviews
(1D.2) Barriers to HDB completion	NA.	Survey
(1D.3) Barriers to HDB completion	NA NA	Survey
(1E.1) Member awareness scale	(1E.1): Member awareness that dental wellness exams qualify for IWP HB requirements.	Survey
(1F.1) Member source of program information	(10.1) Member source of program information	Survey
(1F.2) Impact of PAHP outreach on member knowledge	(1D.2) Impact of PAHP outreach on member knowledge	Survey
(1G.1) Member awareness of financial hardship waiver	(18.1) Member awareness of financial hardship waiver	Survey
(16.2) Member use of financial hardship walve	MA	Administrative
(1H.1) Member satisfaction with basic dental benefits	NA NA	Solvey
(1H.1) Plan satisfaction	NA NA	Survey
2021 Topic Z		
(2A.1) Preventive dental visit (HDB requirement) by length of enrollment	(ZA.2) Dental wellness exam by length of enrollment	Administrative
(2A.1) Completion of self-risk assessment	NA NA	Administrative
(2A.1) Preventive dental utilization - time trend	NA:	Administrative
(2A.1) Preventive dental visit (HDB requirement) - trend time	NA .	Administrative
(2A.1) Completion of self-risk assessment - time trend	NA .	Administrative
(2A.1) Retention of full benefits as a result of completing HDBs	(2A) Retention of full benefits as a result of completing a dental wellness exam	Administrative
(2A.Z) Preventive dental visit (HDB requirement) - IWP vs. MSP-FMAP	(28) Dental wellness exam - IHAWP vs. other Medicald adults (MSP-FMAP)	Administrative
(2A.2) Completion of self-risk assessment - IWP vs. MSP-FMAP	NA .	Administrative
(2A.3) Preventive dental visit (HDB requirement) - comparisons with pre-DWP 2.0	(2A) Dental wellness exam (DWP Healthy Behavior program requirement)	Administrative
(28.1) Completion of both HDBs - by hardship	NA:	Administrative
(2C.1) Predictors of HDB completion (multivariable)	(2A) Predictors of receiving a dental wellness exam	Administrative Survey
2021 Topic 3		

(3A.1) Preventive dental visit (HDB requirement) by member exemption	(2A.1) Dental wellness exam -by member exemption	Administrative
(3A.1) Any dental visit by member exemption	NA NA	Admistrative
(38.1) Regular dentist: Percent of members who report that they currently have a regular dentist:	(SD.1) Regular dentist: Percent of members who report that they currently have a regular dentist	Survey
(38.1) Care continuity: Among members with 2 or more years of enrollment, percent of members with a preventive dental visit (HDB requirement) in each year	(2C.1) Regular source of dental care by length of enrollment	Administrative
38.1) Usual source of care: Percent of members from previous measure who saw the same or ovider for both visits	NA .	Administrative
38.2) Ability to find a dentist	(2C.2) Ability to find a dentist	Survey
38.2) Dentist participation in DWP	NA:	Sulvey
38.2) Dentist attitudes toward DWP	MA	Survey
38.2) Dental visit in first year of enrollment	(2C.2) Dental wellness exam in first year of enrollment	Administrative
38.3) Regular dentist: Percent of members who report that they currently have a regular dentist.	NA NA	Survey
35.3) Timeliness of emergency dental care: Percent of members who needed to see a lenists right away because of a dental emergency and were able to see a dentist as soon as hey wanted.	(20.1) Timeliness of energency dental care: Percent of members who needed to see a dentity right away because of a dental emergency and were able to see a dentist as soon as they wented.	Survey
38.3) Timeliness of specialty dental care: Percent of members who report that they eceived specialty dental care as soon as wanted.	(SF.1) Timeliness of specialty dental care: Percent of members who report that they received specialty dental care as soon as wanted	Survey
38.3) Timeliness of routine dental care: Percent of members who report that they received outine dental care as soon as wanted	(\$5.1) Timeliness of routine dental care: Percent of members who report that they received routine dental care as soon as wanted	Survey
3C.1) ED utilization for NTDCs 3C.2) Follow-up after ED visit: Percent of members who were seen in the ED for non-	(20.1) ED utilization for NTDCs - by members with a dental wellness exam	Administrativi
raumatic dental related reasons within the reporting year and visited a dentist for reatment services within 60 days following the ED visit	(20, 2) Follow-up after ED visit - by members with a preventive dental visit	Administrativ
3D.1) Utilization of fixed and removable prosthodontic dental services	(55.1) Utilization of fixed and removable prosthodontic services	Administrátiv Survey
30.1) Unmet need for care	(5G.2) Unmet need for care	Survey
30.1) Out-of-podket costs	(5G.3) Out-of-pocket costs	Survey
3E.1) Dental utilization: Percent of the adult statewide population who had a dental visit. Within the last year	(SG.1) Dental utilization - overall by state	National secondata
Topic 4		
4A.1) Self-rated oral health	(3A.1) Self-rated oral health	Survey
48.1) Unmet treatment needs	(3A.1) Unmet treatment needs	Survey
4C.1) Self-rated oral health	(3A.1) Self-rated oral health	Survey
Topic 5 - COVID impacts		
5A.1) Preventive dental visit (HDB requirement and length of enrollment)	(4A.1) Dental wellness visit	Administrativ
5A.1) Any dental visit (newly enrolled members)	(SH.1) Time to first dental wellness exam post-COVID - effect of dental home.	Administrative
5A.2) Unmet treatment needs - pre/post COVID	NA:	Survey
SB.1) ED utilization for NTDCs (by eligibility category; time trends)	(48.1) ED utilization for NTDCs	Administrativ
		Survey
	NA NA	Sulvey
58.1) Emergency dental appointments	NA NA	Survey
S8.1) Emergency dental appointments SC.1) New patient acceptance by dentists (pre/post COVID)		30.4
58.1) Emergency dental appointments 5C.1) New patient acceptance by dentists (pre/post COVID) 5C.2) Use of teledentistry	NA NA	Survey
58.1) Emergency dental appointments SC.1) New patient acceptance by dentists (pre/post COVID) SC.2) Use of teledentistry SO.1) Percent of members who have avoided a dental visit due to the COVID pandemic	NA NA	Survey
S8.1) Emergency dental appointments (SC.1) New patient acceptance by dentists (pre/post COVID) (SC.2) Use of teledentistry (SO.1) Percent of members who have avoided a dental visit due to the COVID pandemic (SO.2) Teledentistry utilization	NA NA	Survey Survey

Iowa Dental Wellness Plan Evaluation Design Changes

June 23, 2023

NA NA	(50.1) Regular dentise: Percent of members who report that they currently have a regular dentise.	Survey
NA	(50,2) Time to first dental visit smorg new enrollees - pre-post discontinuation of Dental Healthy Behavior requirements	Administrative
NA	(SE.1) ED utilization for NTDCs - effect of DWP Healthy Behavior program requirements	Administrative
NA	(SE,2) Follow-up with dentistafter ED visit for NTDC - effect of DWP Healthy Behavior program requirements.	Administrative
NA NA	(SF.1) Sdf-report of prosthodontic treatment	Survey
A/A	(6A.2) Distance to near est participating, dentist	Administrative
M	(68.1) Dentist participation	Administrative
MA	(68.1) Dentist participation	Provider surve
W	(68.1) Provider participation in the DWP	Provider Surve
M	(SCL1) Dentist awareness about discontinuation of DWP Healthy Behavior program requirements	Provider Surve
164	(60.1) Dentist attitudes toward the DWP	Provider Surve
MA	(60.1) Dentist attitudes toward annual benefit maximum	Provider Surve