

## **Table of Contents**

**State/Territory Name: VT**

**State Plan Amendment (SPA) #: 16-0023**

This file contains the following documents in the order listed:

- 1) Approval Letter
- 2) CMS 179 Form/Summary Form (with 179-like data)
- 3) Approved SPA Pages

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



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**Financial Management Group**

JUL 14 2017

Hal Cohen, Secretary  
Vermont Agency of Human Services  
208 Hurricane Lane, Suite 103  
Williston, Vermont 05495

RE: Vermont 16-0023

Dear Mr. Cohen:

We have reviewed the proposed amendment to Attachment 4.19-A of your Medicaid State plan submitted under transmittal number (TN) 16-0023. This amendment revises reimbursement for inpatient hospital services. Specifically, it updates Vermont Medicaid's Inpatient Prospective Payment System (IPPS) to comply with the state's legislative mandate (Act 172) requiring that \$4 million of funding be transferred from inpatient service rates at academic hospitals to primary care service rates.

We conducted our review of your submittal according to the statutory requirements at sections 1902(a)(2), 1902(a)(13), 1902(a)(30) 1903(a), and 1923 of the Social Security Act and the implementing Federal regulations at 42 CFR 447 Subpart C. The Medicaid State plan amendment 16-0023 is approved effective October 1, 2016. We are enclosing the CMS-179 and the amended plan pages.

If you have any questions, please call Novena James-Hailey at (617) 565-1291.

Sincerely,

A black rectangular box redacting the signature of Kristin Fan.

Kristin Fan  
Director

<b>TRANSMITTAL AND NOTICE OF APPROVAL OF STATE PLAN MATERIAL</b>  <b>FOR: CENTERS FOR MEDICARE AND MEDICAID SERVICES</b>		1. TRANSMITTAL NUMBER: <div style="text-align: center;">16-0023</div>	2. STATE: <div style="text-align: center;">VERMONT</div>
TO: REGIONAL ADMINISTRATOR CENTERS FOR MEDICARE & MEDICAID SERVICES DEPARTMENT OF HEALTH AND HUMAN SERVICES		3. PROGRAM IDENTIFICATION: TITLE XIX OF THE SOCIAL SECURITY ACT (MEDICAID)	
5. TYPE OF PLAN MATERIAL (CHECK ONE):  <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> NEW STATE PLAN</span> <span><input type="checkbox"/> AMENDMENT TO BE CONSIDERED AS NEW PLAN</span> <span><input checked="" type="checkbox"/> AMENDMENT</span> </div> <div style="text-align: center; font-size: small;">             COMPLETE BLOCKS 6 THRU 10 IF THIS IS AN AMENDMENT (<i>Separate Transmittal for each amendment</i>)           </div>		4. PROPOSED EFFECTIVE DATE(S)  <div style="text-align: center;">10/1/16</div>	
6. FEDERAL STATUTE/REGULATION CITATION:  42 CFR §430.12(c)(1)(ii)	7. FEDERAL BUDGET IMPACT: <div style="display: flex; justify-content: space-between;"> <div>a. FFY <u>2017</u></div> <div>\$ <u>(2,179,901)</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>b. FFY <u>2018</u></div> <div>\$ <u>(2,175,898)</u></div> </div>		
8. PAGE NUMBER OF THE PLAN SECTION OR ATTACHMENT:  Att. 4.19-A pages 1c-3, 1c-4, 1c-5, 1c-6, 1c-7, 1c-8, 1c-10, 1c-11	9. PAGE NUMBER OF THE SUPERSEDED PLAN SECTION OR ATTACHMENT ( <i>If Applicable</i> )  Att. 4.19-A pages 1c-3, 1c-4, 1c-5, 1c-6, 1c-7, 1c-8, 1c-10, 1c-11		
10. SUBJECT OF AMENDMENT: <b>Inpatient Prospective Payment System Updates</b>			
11. GOVERNOR'S REVIEW ( <i>Check One</i> ): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> GOVERNOR'S OFFICE REPORTED NO COMMENT  <input type="checkbox"/> COMMENTS OF GOVERNOR'S OFFICE ENCLOSED  <input type="checkbox"/> NO REPLY RECEIVED WITHIN 45 DAYS OF SUBMITTAL           </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> OTHER, AS SPECIFIED              SIGNATURE OF SECRETARY OF ADMINISTRATION   <div style="text-align: center;"> <b>Trey Martin</b>  <small>Digitally signed by Trey Martin Date: 2016.12.28 07:30:51 -05'00'</small> </div> </div> </div>		16. RETURN TO:  DYLAN FRAZER  AGENCY OF HUMAN SERVICES 280 STATE DRIVE, CENTER BUILDING WATERBURY, VT 05671-1000	
12. SIGNATURE OF STATE AGENCY OFFICIAL:  <div style="text-align: center;">           for       </div>	13. TYPED NAME: <div style="text-align: center;">HAL COHEN</div>		
14. TITLE:  <div style="text-align: center;">SECRETARY, AGENCY OF HUMAN SERVICES</div>	15. DATE SUBMITTED: <u>12/30/16</u>		
FOR REGIONAL OFFICE USE ONLY			
17. DATE RECEIVED:	18. DATE APPROVED: <u>JUL 14 2017</u>		
PLAN APPROVED - ONE COPY ATTACHED			
19. EFFECTIVE DATE OF APPROVED MATERIAL: <u>OCT 01 2016</u>	20. SIGNATURE OF REGIONAL OFFICIAL:  <div style="text-align: center;"> </div>		
21. TYPED NAME: <u>Kristin Fan</u>	22. TITLE: <u>Director, FMO</u>		
23. REMARKS			

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES

Effective with dates of admission on or after October 1, 2016, the Department of Vermont Health Access (DVHA) will reimburse qualified providers for inpatient hospital services under the prospective payment system as set forth in this plan.

I. Participating Hospitals

All in-state and out-of-state hospitals will be included in this payment methodology, regardless of any designation provided by Medicare. Hospitals may be eligible for special payment provisions in addition to payments made under this methodology as discussed in Section IV below.

II. Data Sources and Preparation of Data for Computation of Prospective Rates

A. Introduction

The calculation of prospective rates requires the use of claims data and cost report data. The historical claims data is obtained from a chosen base period and the cost for these claims is derived from Medicare cost report data for the corresponding period. Claim costs are adjusted to the year in which the rates are in effect to account for inflation. Claims are grouped together into a diagnostic related group (DRG) based upon the diagnoses present on the claim.

B. Data Sources- Initial Period

For the rate setting period effective October 1, 2016, hospital cost report data from all in-state Medicaid providers plus Dartmouth-Hitchcock Medical Center for the fiscal years ending 2012 and 2015 were used to assign cost values to claims used in the rate development process. All hospitals included in the analysis have a fiscal year end of September 30 with the exception of one hospital (Retreat Health Care) which has a fiscal year end of December 31. The claims used to assign relative weight values and to develop base rates were from the same hospitals for which cost data was collected and were from the hospital fiscal years ending 2012, 2013, 2014 and 2015.

C. Data Sources- Subsequent Periods

More recent cost report and claims data will be used to develop new base rates and relative weights no less than once every four fiscal years.

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

III. Payment for Inpatient Hospital Services

A. Payment Formulas

1. Non-Outlier DRG Payment Per Case = (Base Rate Assigned to Hospital x DRG Relative Weight)

2. Outlier DRG Payment Per Case = (Cost of Case – Outlier Threshold) x Outlier Payment Percentage

where

Cost of Case = Allowable Charges x Hospital-specific Cost to Charge Ratio and  
Outlier Threshold = (Base Rate x DRG Relative Weight) + Fixed Outlier Value

3. Psychiatric DRG Payment Per Case = (Base Per Diem Rate Assigned to Hospital x DRG Relative Weight x Factor Representing Length of Stay)

where

Factor Representing Length of Stay = The factors assigned by the Medicare Inpatient Psychiatric Facilities Prospective Payment System effective October 1, 2016

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

III. Payments Inpatient Hospital Services (Continued)

B. Discussion of Payment Components

1. Base Rates

The Base Rates effective October 1, 2016 are based on claims with dates of discharge from October 1, 2011 to September 30, 2015 from all in-state hospitals plus Dartmouth-Hitchcock Medical Center. The cost values were assigned to each hospital claim on a claim-by-claim basis using data from each hospital's Medicare Cost Report (MCR). The cost report used to assign the cost for each claim was based on the discharge date of the claim. Claims with dates of discharge from October 1, 2011 to September 30, 2015 were assigned costs using the hospital's fiscal year end MCR that matches the month of the discharge within the fiscal year end MCR.

Accommodation days were identified on each claim and assigned a cost per day using the hospital-specific MCR's cost per diem based on the unit in the hospital, such as semi-private room, nursery, or ICU. Allowed charges on each ancillary service detail line of the inpatient claim were multiplied by a hospital-specific cost to charge ratio (CCR). The CCR assigned to each detail line is based on the revenue code billed for the detail line. The mapping of revenue codes to CCRs followed the principles that were described in the Medicare Inpatient Prospective Payment System (IPPS) Final Rule for 2014 published in the Federal Register with the following exceptions: The Medicare IPPS group for Routine Days was split into two groups—Adults & Pediatrics and Nursery. The Medicare IPPS group for Intensive Days was split into three groups—ICU, Surgical ICU and Neonatal ICU.

The cost value of the claim is adjusted for inflation using Global Insight's Health Care Cost Review New CMS Hospital Prospective Reimbursement Market Basket moving average factors. Claim costs are inflated to the mid-point of the rate year.

The in-state base rates were derived by first computing the average inflated cost per case across all non-outlier claims in the base period. This value is \$9,883.87. Because of funding limits imposed by the Vermont Legislature, the in-state Base Rates effective October 1, 2016 for non-psychiatric DRGs is \$9,273.00 for Critical Access Hospitals and Institutions of Mental Diseases, \$8,390.00 for Teaching Hospitals, and \$8,835.00 for all other Prospective Payment System Hospitals.

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

III. Payments Inpatient Hospital Services (Continued)

2. Relative Weights

Relative weights were assigned to each DRG in the CMS MS-DRG Grouper Version 33.0 based on Vermont hospital costs. The relative weight is the average cost of the inlier claims grouped into the DRG divided by the average cost of all inlier claims in the base period.

Before calculating the relative weight for a DRG, tests were conducted to ensure that there was sufficient volume and conformity among the cases in the DRG to set a stable relative weight. A DRG was found to have sufficient sample size to compute a relative weight if: (a) There was a minimum of 10 claims across the four years of data; and (b) There were sufficient claims to pass this statistical test: The standard error of the claims' costs is within 25% of the mean with a 90% level of confidence.

Before running the statistical test, low-cost and high-cost outliers were removed from each DRG, which are defined as any claim that was outside +/- two standard deviations from the geometric mean cost of the DRG.

This test yielded 317 stable DRGs, 439 unstable DRGs, and 66 empty DRGs (no Vermont claims volume in the base period utilized). The 505 unstable and empty DRGs were then collapsed into 12 tier groups based on the Medicare relative weight for each DRG. After the claims were collapsed into these categories, a new average cost was computed for the claims in each tier and a relative weight was set.

Effective with dates of admission on or after October 1, 2016, all DRGs that were collapsed into a tier will share the same relative weight.

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

IV. Special Payment Provisions

A. Rehabilitation Add-On Payment

Effective October 1, 2015, in-state hospitals with an inpatient claim that contains a revenue code 128 will be paid an additional \$300 per diem for the number of units associated with that revenue code. Border Teaching Hospitals will be paid an additional \$200 per diem. This payment is in addition to the Non-Outlier and Outlier DRG Payments per Case.

B. [Reserved]

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

IV. Special Payment Provisions (Continued)

C. Psychiatric DRG Cases Provided by In-State Hospitals

In-state hospitals will be paid for psychiatric cases under a DRG per diem methodology instead of a DRG per case methodology using the formula shown in III.A above.

Claims paid under this methodology must contain a revenue code 124 as well as group to a Psychiatric DRG as assigned by the Grouper being utilized by DVHA. Effective October 1, 2016, this included the following DRGs:

- DRG 876: O.R. Procedure with Principal Diagnosis of Mental Illness
- DRG 880: Acute Adjustment Reaction & Psychosocial Dysfunction
- DRG 881: Depressive Neuroses
- DRG 882: Neuroses Except Depressive
- DRG 883: Disorders of Personality & Impulse Control
- DRG 884: Organic Disturbances & Mental Retardation
- DRG 885: Psychoses
- DRG 886: Behavioral & Developmental Disorders
- DRG 887: Other Mental Disorder Diagnoses
- DRG 894: Alcohol/Drug Abuse or Dependence, Left AMA
- DRG 895: Alcohol/Drug Abuse or Depend. with Rehabilitation Therapy
- DRG 896: Alcohol/Drug Abuse or Depend. w/o Rehabilitation Therapy w MCC
- DRG 897: Alcohol/Drug Abuse or Depend. w/o Rehabilitation Therapy w/o MCC

On an ongoing basis, the factors applied representing the length of stay will be the same as those utilized by Medicare in its Inpatient Psychiatric Prospective Payment System. The factors applied are additive by length of stay.

The psychiatric base per diem rate was set to ensure that there is sufficient access to services for Medicaid beneficiaries in the state. Effective October 1, 2016, the Base Per Diem Rate for in-state hospitals is \$1,128.05 per diem, with the exception of Brattleboro Retreat Health Care's program for Children and Adolescents, which has a Base Per Diem Rate of \$1,224.10.

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TN # 16-0023  
Supersedes  
TN # 13-035

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Effective Date: 10/01/16  
Approval Date: JUL 14 2017

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT HOSPITAL SERVICES (CONTINUED)

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IV. Special Payment Provisions (Continued)

G. Out of State Facilities

Out-of-state facilities will receive payments using the same payment formulas as stated in III.A.1 and III.A.2. However, the values of components of the formulas differ from those used to pay in-state hospitals.

1. A Base Rate will be assigned to each participating out-of-state hospital based upon its peer group.
  - a. Border Teaching Hospitals: Defined as hospitals within 10 miles of the Vermont border that operate post-graduate training programs. For payments on or after October 1, 2016, the base rate will equal \$5,594.00.
  - b. Non-Border Teaching Hospitals: Defined as hospitals greater than 10 miles of the Vermont border that operate post-graduate training programs. For payments on or after October 1, 2016, the base rate will equal \$3,610.00.
  - c. Other Out-of-State Hospitals: Defined as hospitals not meeting the criteria of G.1.a or G.1.b. For payments on or after October 1, 2016, the base rate will equal \$2,900.00.

H. Outlier Payments

Using the formula for outlier payments described in III.A.2, a Fixed Outlier Value, an Outlier Payment Percentage, and a Cost to Charge Ratio will be assigned to each participating hospital based upon its peer group.

1. Fixed Outlier Value
  - a. In-state Hospitals: \$24,000
  - b. Border Teaching Hospitals: \$40,000
  - c. Non-Border Teaching Hospitals: \$50,000
  - d. Other Out-of-State Hospitals: \$50,000
2. Outlier Payment Percentage
  - a. In-state Hospitals: 80%
  - b. Border Teaching Hospitals: 50%
  - c. Non-Border Teaching Hospitals: 50%
  - d. Other Out-of-State Hospitals: 50%

Hospitals that are eligible for payment under the per diem methodology for psychiatric stays are not eligible to receive an outlier payment for cases in the psychiatric DRGs listed in IV.C.

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METHODS AND STANDARDS FOR ESTABLISHING PAYMENT RATES – INPATIENT  
HOSPITAL SERVICES (CONTINUED)

IV. Special Payment Provisions (Continued)

3. The Cost to Charge Ratio (CCR) to be applied for calculating the outlier cost of the case will be assigned to each participating in-state hospital specifically on an annual basis based on a recently filed MCR. Each out-of-state hospital will be assigned a CCR based upon its peer group.
  - a. Border Teaching Hospitals: The CCR to apply will be assigned to each participating hospital specifically on an annual basis based on a recently filed MCR for each hospital in the peer group.
  - b. Non-Border Teaching Hospitals: The CCR that will be assigned will be the average CCR of all in-state hospitals.
  - c. Other Out-of-State Hospitals: The CCR that will be assigned will be the average CCR of all in-state hospitals.

I. Extraordinary Access Issues

In order to ensure access to non-Vermont hospitals providing unusual and highly complex services, the DVHA has the authority to establish rates on a case by case basis or by hospital.

J. New Facilities

New facilities under the DRG system will receive payments using the same payment formulas as stated in III.A.1 and III.A.2. If the new facility is an in-state hospital, it will receive the same base rate as other in-state hospitals and all other payment policies for in-state hospitals will apply. If it is an out-of-state hospital, it will receive a base rate based upon the out-of-state peer group it is assigned to. All other payment provisions will follow the policies for the out-of-state hospital peer group to which it is assigned or the authority as outlined in IV.G and IV.H above.

K. New Medicaid Providers

Prospective payment rates for established facilities which had not been a DVHA participating provider prior to October 1, 2016 will receive payments based on the same provisions that apply to new facilities as described in IV.J.