

# Fiscal Year 2021–2022 Regional Accountable Entity 411 Encounter Data Validation Over-Read Report for RAE 1: Rocky Mountain Health Plans

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# 1. Executive Summary

In fiscal year (FY) 2021–2022, the Colorado Department of Health Care Policy & Financing (the Department) contracted Health Services Advisory Group, Inc. (HSAG) to conduct an encounter data validation (EDV) study for behavioral health (BH) encounters submitted to the Department from each of the Regional Accountable Entity (RAE) and Denver Health (DH) regions contracted with the Department during FY 2021–2022 (Table 1-1).

Entity/Region	Plan Name	Plan Abbreviation
RAE 1	Rocky Mountain Health Plans	RMHP
RAE 2	Northeast Health Partners	NHP
RAE 3	Colorado Access	COA Region 3
RAE 4	Health Colorado, Inc.	HCI
RAE 5	Colorado Access	COA Region 5
RAE 6	Colorado Community Health Alliance	CCHA Region 6
RAE 7	Colorado Community Health Alliance	CCHA Region 7
Denver Health Region	Denver Health Medical Plan	DHMP

Table 1-1—Regional Entity Names and Abbreviations

EDV is an optional external quality review (EQR) activity under the Centers for Medicare & Medicaid Services (CMS) regulations released in October 2019.<sup>1-1</sup> While HSAG has collaborated with the Department to conduct annual BH EDV studies since calendar year 2011, the FY 2019–2020 study (i.e., RAE 411) was the first BH EDV in which each RAE was required to validate a sample of BH encounter data against the corresponding medical record documentation.<sup>1-2</sup>

The Department developed the *Annual RAE BH Encounter Data Quality Review Guidelines* (guidelines) to support the RAEs' and DHMP's BH EDVs, including a specific timeline and file format requirements to guide each RAE and DHMP in preparing their annual Encounter Data Quality Report. To support the BH EDV, the Department selected a random sample of 411 final, paid encounter lines from each RAE and DHMP region's BH encounter flat files, and the RAEs and DHMP were required to conduct medical record review for the sampled cases, evaluating the quality of the BH encounter data submitted to the Department.

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<sup>&</sup>lt;sup>1-1</sup> Department of Health and Human Services, Centers for Medicare & Medicaid Services. *Protocol 5. Validation of Encounter Data Reported by the Medicaid and CHIP Managed Care Plan: An Optional EQR-Related Activity*, October 2019. Available at: <a href="https://www.medicaid.gov/medicaid/quality-of-care/downloads/2019-eqr-protocols.pdf">https://www.medicaid.gov/medicaid/quality-of-care/downloads/2019-eqr-protocols.pdf</a>. Accessed on: April 21, 2022.

<sup>1-2</sup> Prior to the Department's transition from Behavioral Health Organizations (BHOs) to the RAEs in 2018, the Department required the BHOs to conduct annual BH EDVs in which the BHOs validated samples of encounter data against the corresponding medical record documentation, and HSAG conducted an over-read of the BHOs' medical record review results.



The guidelines also stipulate that the Department's external quality review organization (EQRO), HSAG, will conduct an independent evaluation of the RAEs' and DHMP's medical record review results to verify the quality of each entity's EDV results. Following completion of their medical record reviews, the RAEs and DHMP submit their EDV results as part of an Encounter Data Quality Report to the Department and HSAG. HSAG overreads a random sample of the validated cases and reports on validation agreement with the RAEs' and DHMP's EDV results.

The Department requested that HSAG conduct the following FY 2021–2022 tasks:

- 1. Conduct a desk review of the Department's sampling protocol and code, as well as a review of each RAE's and DHMP's EDV process, including any submitted EDV documentation.
- 2. Conduct a review of BH records for sample cases randomly selected from each RAE's and DHMP's 411 EDV sample list.
- 3. Produce an aggregate report with entity-specific findings, including a statement regarding HSAG's level of confidence in each RAE's and DHMP's EDV results.

Figure 1-1 shows the project flow process that diagrams the high-level steps involved in HSAG's RAE 411 EDV over-read process, beginning in the upper left corner of the image. HSAG's FY 2021–2022 RAE 411 methodology is presented in Appendix A.

1) The Department works with HSAG and 2) The Department distributes the final 3) RAEs/DHMP procure and review medical the RAEs/DHMP to finalize the Guidelines and 4) HSAG distributes the RAE/DHMP-specific Guidelines and RAE/DHMP-specific 411-case records for 411 sampled encounter send sampling methodology to HSAG sample list to each RAE/DHMP & HSAG lines and submit 411-case EDV Response 30-case Over-Read Sample List to the RAEs Files to the Department & HSAG 6a) HSAG overreads RAEs/DHMP EDV results using the RAEs'/DHMP's review materials 5) RAEs/DHMP send their EDV review materials for 8) HSAG produces final Aggregate the 30-case Over-Read Samples and their 7) HSAG prepares Aggregate and RAE/DHMP-specific and RAE/DHMP-specific Reports with the Encounter Data Quality Reports ports with desk review and EDV Over-Read results to the Department & HSAG Department's review and approval 6b) HSAG conducts a desk review of the Department's 411 sampling methodology

Figure 1-1—RAE 411 Project Flow Process



# **EDV Results and Over-Read of Sample Case Results**

Based on the sampling approach outlined in the guidelines, the Department randomly selected, for each RAE and DHMP, 137 institutional encounters for Inpatient Services, 137 professional encounters for Psychotherapy Services, and 137 professional encounters for Residential Services. Each RAE and DHMP procured the medical records corresponding to its sampled cases and compared the medical records to the encounter data values for each case. Each RAE and DHMP then used the specifications listed in the *FY 2021–2022 Annual RAE BH Encounter Data Quality Review Guidelines* to create service coding accuracy<sup>1-3</sup> data tables summarizing their 411 EDV results.

Following HSAG's over-read of 30 sampled cases from each 411 EDV sample, HSAG tabulated agreement results that could range from 0.0 percent to 100.0 percent, where 100.0 percent represents perfect agreement between the RAE's or DHMP's EDV results and HSAG's over-read results, and 0.0 percent represents complete disagreement. Based on each entity's results, HSAG calculated an aggregate validation rate for each EDV element and repeated these calculations for each of the service categories.

Table 1-2 through Table 1-4 present HSAG's aggregate over-read results and the self-reported service coding accuracy results by service category from the RAEs and DHMP. Each table presents the EDV data element, the aggregate percentage among all entities, the lowest (minimum) percentage, and the highest (maximum) percentages among the RAEs and DHMP for HSAG's over-read results and the self-reported service coding accuracy results.

As shown in Table 1-2, HSAG identified a high agreement rate for service coding accuracy and over-read across most data elements for Inpatient Services cases (i.e., encounter data were supported by medical record documentation in a high percentage of cases within both the RAEs' and DHMP's service coding accuracy results and HSAG's over-read results). The agreement rate for validation elements among the RAEs ranged from 95.0 percent to 100.0 percent for over-read results and 88.5 percent to 97.3 percent for service coding accuracy results. At 95.0 percent, the *Service Start Date* data element had the lowest over-read aggregate percentage, affected by low agreement rates for RAE 1 and RAE 2, which had two cases without agreement each.

Table 1-2—Aggregate Over-Read and Service Coding Accuracy EDV Results for Inpatient Services

Data Element	Aggregate Service Coding Accuracy	Aggregate Over-Read Results	Range of Service Coding Accuracy	Range of Over-Read Results
Principal Surgical Procedure Code	97.3%	100%	12.4%	0.0%
Primary Diagnosis Code	85.8%	98.8%	21.9%	10.0%

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<sup>&</sup>lt;sup>1-3</sup> The term "service coding accuracy" refers to the 411 EDV results tables generated by each RAE and reported in the RAE's Encounter Data Quality Report in alignment with the guidelines.



Data Element	Aggregate Service Coding Accuracy	Aggregate Over-Read Results	Range of Service Coding Accuracy	Range of Over-Read Results
Revenue Code	93.5%	100%	26.3%	0.0%
Discharge Status	88.5%	98.8%	42.3%	10.0%
Service Start Date	94.3%	95.0%	19.7%	20.0%
Service End Date	96.1%	96.3%	19.7%	10.0%

HSAG's over-read aggregate percentage was more than 93.8 percent across data elements for Psychotherapy Services claims and higher than the aggregate rates for service coding accuracy results (Table 1-3). There was substantial variation in the service coding accuracy results across all data elements compared to the over-read results.

Table 1-3—Aggregate Over-Read and Service Coding Accuracy EDV Results for Psychotherapy Services

Data Element	Aggregate Service Coding Accuracy	Aggregate Over-Read Results	Range of Service Coding Accuracy	Range of Over-Read Results
Procedure Code	82.8%	98.8%	38.7%	10.0%
Diagnosis Code	86.7%	95.0%	37.2%	20.0%
Place of Service	75.1%	93.8%	30.7%	20.0%
Service Category Modifier	83.4%	97.5%	35.0%	10.0%
Unit	90.9%	97.5%	38.7%	10.0%
Service Start Date	92.3%	96.3%	35.0%	10.0%
Service End Date	92.4%	96.3%	35.0%	10.0%
Population	92.2%	97.5%	35.0%	10.0%
Duration	88.6%	97.5%	38.7%	10.0%
Staff Requirement	88.3%	95.0%	36.5%	10.0%



The aggregate percentage for both over-read results and service coding accuracy results was high across all data elements for Residential Services claims (Table 1-4), ranging from 93.8 percent to 95.0 percent for over-read results and 85.6 percent to 91.4 percent for service coding accuracy results.

Table 1-4—Aggregate Over-Read and Service Coding Accuracy EDV Results for Residential Services

Data Element	Aggregate Service Coding Accuracy	Aggregate Over-Read Results	Range of Service Coding Accuracy	Range of Over-Read Results
Procedure Code	90.0%	93.8%	61.3%	40.0%
Diagnosis Code	89.5%	93.8%	61.3%	40.0%
Place of Service	85.6%	95.0%	70.1%	40.0%
Service Category Modifier	89.6%	93.8%	65.0%	40.0%
Unit	90.8%	95.0%	61.3%	40.0%
Service Start Date	91.3%	95.0%	61.3%	40.0%
Service End Date	91.1%	95.0%	61.3%	40.0%
Population	91.4%	95.0%	61.3%	40.0%
Duration	91.1%	95.0%	61.3%	40.0%
Staff Requirement	90.5%	95.0%	66.4%	40.0%

#### **Discussion**

Of the 240 over-read cases, HSAG's reviewers agreed with the RAE and DHMP reviewers' determinations for all data elements for 216 cases (i.e., an all-element agreement rate of 90.0 percent) and disagreed with RAE and DHMP reviewers' determinations for only one data element for an additional 14 cases (5.8 percent). The percentage of cases with all-element agreement ranged among the RAEs and DHMP from 73.3 percent for RAE 1 to 96.7 percent for RAE 5 and RAE 7. The all-element agreement rates also varied by service category as follows:

- 90.0 percent of Inpatient Services cases
- 87.5 percent of Psychotherapy Services cases
- 92.5 percent of Residential Services cases

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<sup>&</sup>lt;sup>1-4</sup> Disagreement instances exclude fields in which the RAE or DHMP recorded the correct codes found in the supporting documentation.



Of the cases without all data elements in agreement, only two cases in Psychotherapy Services and four cases in Residential Services had agreement between HSAG's reviewers and the RAEs' and DHMP's reviewers for three or fewer data elements. Additionally, HSAG's reviewers and the RAEs' and DHMP's reviewers agreed for more than three data elements for all Inpatient Services cases.

In general, HSAG's reviewers and the RAEs' and DHMP's reviewers' disagreement rates for Inpatient Services cases related primarily to the *Service Start Date* data element. The most common reason for HSAG's disagreement on the *Service Start Date* data element for Inpatient Services cases was that the RAE or DHMP had agreed with an incorrect date in the encounter data, and HSAG's reviewers determined that the medical record documentation supported a different date.

The most common reason for HSAG's disagreement on the *Place of Service* data element for Psychotherapy Services was that the RAE or DHMP scored the place of service code negatively due to a perceived lack of technical documentation (e.g., a provider signature in the medical record), while HSAG's reviewers determined that the medical record documentation supported the procedure code shown in the encounter data for the case.

HSAG reviewers' disagreement rates for Residential Services cases can primarily be attributed to the *Diagnosis Code* data element. The most common reason for HSAG's disagreement on the *Diagnosis Code* data element for Residential Services cases was that the RAE or DHMP scored the diagnosis code negatively due to a perceived lack of technical documentation (e.g., a provider signature in the medical record), while HSAG's reviewers determined that the medical record documentation supported the diagnosis code shown in the encounter data for the case.

In general, results from HSAG's FY 2021–2022 RAE 411 over-read suggest a high level of confidence that the RAEs' and DHMP's independent validation findings accurately reflect their encounter data quality. In comparison, the entities' self-reported service coding accuracy results reflected more than 90.0 percent agreement for all data elements except *Diagnosis Code* and *Discharge Status* for Inpatient Services, six data elements in Psychotherapy Services cases, and three data elements in Residential Services cases. Based on these findings, the RAEs and DHMP should continue to evaluate and enhance internal processes for ongoing encounter data monitoring and use the Department's annual RAE 411 EDV study as a focused mechanism for evaluating quality improvement.

# **Analytic Considerations**

Due to the nature of the methodology and data sources, the following analytic considerations apply to the FY 2021–2022 RAE 411 EDV and over-read results:

• The ongoing coronavirus disease 2019 (COVID-19) public health emergency may have affected the timeliness of providers' data submissions to the RAEs and DHMP, as well as their ability to procure medical records from providers' offices in a timely manner. The Department received feedback from the RAEs and DHMP that some providers felt that the timeline for procuring medical records was too short given the burden of the pandemic, including staffing challenges. It is beyond the scope of



the current EDV to evaluate the impact of the public health emergency on the timeliness and/or accuracy of the RAEs' and DHMP's BH encounter data.

- The FY 2021–2022 RAE 411 EDV used a sample size of 411 cases per RAE/DHMP to ensure an adequate sample size to reliably detect invalid encounter data results while limiting the use of resource-intensive medical record procurement and abstraction. Due to the variable BH encounter data volume among the RAEs and DHMP, the 411 sample size may result in varying levels of generalizability among the entities and service categories. Due to the sampling approach, RAE 411 EDV results may not reflect the service coding accuracy of the RAEs' or DHMP's overall BH encounters.
- Medical record abstraction requires the expertise of nurse reviewers and medical coders who may
  apply varying, though legitimate, interpretations for coding rules and processes. Such variation
  between HSAG's reviewers and the RAEs' and DHMP's reviewers may lead to reduced agreement
  rates among the over-read results. To minimize the effects of this variation, the Department and
  HSAG solicited the RAEs' and DHMP's input on the guidelines and were directed to include
  abstraction notes to communicate their decisions and findings to HSAG for specific review
  scenarios.

#### Recommendations

Based on the EDV and over-read results described in this report, HSAG recommends that the Department collaborate with the RAEs, DHMP, and HSAG to identify best practices regarding provider education to support service coding accuracy. Identifying such practices may involve requesting and reviewing copies of the RAEs' and DHMP's provider training and/or corrective action documentation, reviewing the RAEs' and DHMP's policies and procedures for monitoring providers' BH encounter data submissions, and verifying that the RAEs and DHMP are routinely monitoring encounter data quality beyond the annual RAE 411 EDV. Additionally, HSAG recommends that the Department revise its sampling approach to include checks to ensure the appropriate exclusion criteria have been applied to the sample frame.

Timely, accurate encounter data require ongoing efforts from multiple stakeholders among the providers, the RAEs, DHMP, and the Department. Focused quality improvement efforts are underway, including an annual EQR activity in which the Department requires the RAEs and DHMP to develop and implement quality improvement activities based on their prior year's RAE 411 service coding accuracy results. The Department provided no additional information on quality improvement actions resulting from recommendations in the FY 2020–2021 RAE 411 EDV report.



# 2. Encounter Data Validation Over-Read Results

HSAG's findings are comprised of three separate tasks, including a desk review of the Department's sampling methodology, a desk review of the RAEs' and DHMP's internal EDV methodology, and an over-read validation of the sampled cases from the RAEs and DHMP. The remainder of this section describes the results for these tasks.

# **Desk Review of Sampling Methodology**

The Department's Rates Section provided HSAG with a description of its process for generating a random sample of BH encounters for each RAE and DHMP. The Department described the sample selection process and included the complete source code used to sample BH encounters for each service category. The Department also described the service category criteria used to stratify each RAE's and DHMP's sample and how the Rates Section randomly selected BH encounters from encounter data flat files previously processed by the Rates Section. While the Department's sampling methodology noted that it required supplemental documentation to support the validity of any data not adhering to the data layout specifications, no details were provided for the final sample frame inclusion criteria. Additionally, the Department's documentation did not show the steps taken to verify that the sample frame contained only paid, final encounters meeting the established service category criteria or to validate that the final sample was representative of the sampling frame.

# Desk Review of RAEs' and DHMP's Internal EDV Methodology

The Department required the RAEs and DHMP to submit Encounter Data Quality Reports to the Department and HSAG containing information on data submission quality throughout the measurement period and service coding accuracy among the 411 encounters validated during their internal EDV. Using the specifications listed in the *FY 2021–2022 Annual RAE BH Encounter Data Quality Review Guidelines*, the RAEs and DHMP created service coding accuracy data tables summarizing their 411 EDV results. To provide context for the service coding accuracy results, the Department directed each entity to include its internal EDV methodology documentation in its Encounter Data Quality Report.

In reviewing the RAEs' and DHMP's Encounter Data Quality Reports, HSAG identified the following brief findings regarding their EDV processes:

- All entities reported using multiple modes of communication to contact providers and procure medical records. Several entities also noted continued challenges in procuring records due to the COVID-19 public health emergency.
- HSAG noticed similarities among the RAEs' and DHMP's descriptions of their internal tool
  development and EDV processes. Most used Microsoft (MS) Excel to log abstracted data values
  with color coding and conditional logic to help each entity's reviewers abstract data into the intended



EDV elements. RAE 2 and RAE 4 used MS SQL Server and a web-based interface for their EDV tools and described a formal audit process used to review errors within the tool.

- Each entity described its reviewer training processes, as well as its reviewers' professional experience. Additionally, RAEs 2, 4, 6, and 7 supplied a detailed description of the process for selecting and assigning cases for interrater reliability (IRR) analysis, reconciling disagreements between reviewers, and calculating IRR scores. RAE 1 briefly described an over-read process that occurred at weekly meetings, but did not provide a detailed description of its method. RAE 3, RAE 5, and DHMP supplied a detailed description of their IRR processes for inpatient and residential encounters, which were conducted by a third-party contractor, but conducted no IRR on psychotherapy encounters as they had only one auditor.
- Additionally, RAEs 2, 3, 4, and 5 and DHMP reported on opportunities for improvement in IRR testing, provider education, and applying corrective action plans (CAPs) to low scoring providers.

Data shown in Table 2-1 through Table 2-3 are summarized from each RAE's and DHMP's service coding accuracy tables, as contained in the Encounter Data Quality Reports submitted to the Department and HSAG by each RAE and DHMP. Differences between rates shown in the tables and those presented in the Encounter Data Quality Reports result from HSAG recalculating all rates to display one decimal place for consistency across entities.

Table 2-1—Service Coding Accuracy Results for Inpatient Services for All Service Categories

		Service Coding Accuracy Results for Inpatient Services for All Service Categories								
Data Element	RAE 1	RAE 2	RAE 3	RAE 4	RAE 5	RAE 6	RAE 7	DHMP	Aggregate	
Principal Surgical Procedure Code	87.6%	100%	97.1%	100%	97.8%	99.3%	99.3%	97.1%	97.3%	
Primary Diagnosis Code	73.7%	93.4%	83.9%	95.6%	85.4%	77.4%	91.2%	85.4%	85.8%	
Revenue Code	73.7%	100%	93.4%	100%	92.7%	94.2%	97.8%	96.4%	93.5%	
Discharge Status	78.1%	100%	94.2%	98.5%	94.2%	93.4%	57.7%	92.0%	88.5%	
Service Start Date	80.3%	100%	90.5%	99.3%	92.7%	99.3%	97.8%	94.9%	94.3%	
Service End Date	80.3%	100%	95.6%	98.5%	98.5%	99.3%	99.3%	97.1%	96.1%	



Table 2-2—Service Coding Accuracy Results for Psychotherapy Services for All Service Categories

		Service Coding Accuracy Results for Psychotherapy Services for All Service Categories							
Data Element	RAE 1	RAE 2	RAE 3	RAE 4	RAE 5	RAE 6	RAE 7	DHMP	Aggregate
Procedure Code	59.9%	97.8%	74.5%	98.5%	72.3%	92.7%	90.5%	75.9%	82.8%
Diagnosis Code	61.3%	98.5%	78.1%	95.6%	84.7%	89.1%	97.1%	89.1%	86.7%
Place of Service	55.5%	67.9%	77.4%	84.7%	72.3%	86.1%	83.9%	73.0%	75.1%
Service Category Modifier	64.2%	98.5%	74.5%	99.3%	72.3%	92.0%	90.5%	75.9%	83.4%
Unit	60.6%	98.5%	87.6%	99.3%	89.1%	98.5%	99.3%	94.2%	90.9%
Service Start Date	64.2%	97.8%	87.6%	99.3%	93.4%	99.3%	99.3%	97.8%	92.3%
Service End Date	64.2%	97.8%	87.6%	99.3%	94.2%	99.3%	99.3%	97.8%	92.4%
Population	64.2%	98.5%	87.6%	99.3%	94.2%	99.3%	99.3%	95.6%	92.2%
Duration	60.6%	97.8%	81.0%	99.3%	85.4%	99.3%	98.5%	86.9%	88.6%
Staff Requirement	62.8%	98.5%	82.5%	99.3%	81.8%	97.1%	98.5%	86.1%	88.3%

Table 2-3—Service Coding Accuracy Results for Residential Services for All Service Categories

		Service Coding Accuracy Results for Residential Services for All Service Categories							
Data Element	RAE 1	RAE 2	RAE 3	RAE 4	RAE 5	RAE 6	RAE 7	DHMP	Aggregate
Procedure Code	38.7%	100%	92.7%	97.8%	98.5%	97.8%	97.1%	97.1%	90.0%
Diagnosis Code	38.7%	100%	97.1%	97.1%	97.1%	97.8%	92.7%	95.6%	89.5%
Place of Service	29.9%	100%	100%	97.8%	99.3%	76.6%	83.2%	97.8%	85.6%
Service Category Modifier	35.0%	100%	92.7%	97.8%	98.5%	97.8%	97.1%	97.8%	89.6%
Unit	38.7%	100%	100%	97.1%	99.3%	97.8%	95.6%	97.8%	90.8%
Service Start Date	38.7%	100%	100%	97.8%	99.3%	98.5%	98.5%	97.8%	91.3%
Service End Date	38.7%	100%	100%	97.8%	99.3%	98.5%	97.1%	97.8%	91.1%
Population	38.7%	100%	100%	97.8%	99.3%	99.3%	98.5%	97.8%	91.4%
Duration	38.7%	100%	100%	97.8%	99.3%	98.5%	97.1%	97.8%	91.1%
Staff Requirement	33.6%	100%	100%	97.8%	99.3%	98.5%	97.1%	97.8%	90.5%



# **Over-Read of Sample Cases**

### **Over-Read of Sample Cases: Inpatient Services**

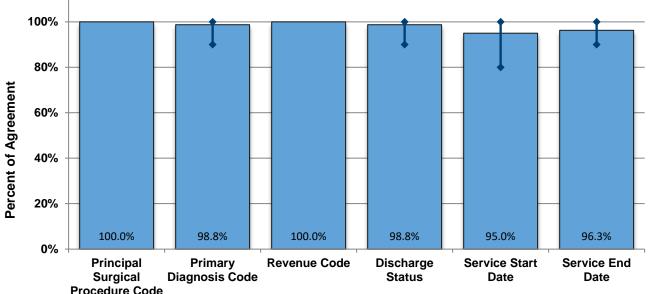
Each RAE and DHMP submitted an EDV response file to HSAG and the Department containing all required data fields and aligning with the EDV response data layout outlined in the guidelines and presented in Appendix A.

Following HSAG's over-read, HSAG tabulated agreement results that could range from 0.0 percent to 100.0 percent, where 100.0 percent represents perfect agreement between the RAE's or DHMP's EDV results and HSAG's over-read results, and 0.0 percent represents complete disagreement. The remainder of this section details HSAG's over-read findings by service category.

#### **Overall Agreement Rate**

Figure 2-1 presents the aggregate results from HSAG's over-read of the 80 cases sampled from Inpatient Services encounters (i.e., 10 cases per RAE and DHMP).

Figure 2-1—Aggregate Percent Agreement Between HSAG's Over-Read and the RAEs' and DHMP's **EDV Findings by Data Element for Inpatient Services** 100%



#### **Reviewed Data Element**

Note: The upper and lower diamonds represent the highest and lowest agreement rates among the RAEs and DHMP.



At 100.0 percent, *Principal Surgical Procedure Code* and *Revenue Code* had the highest rates of agreement between RAEs' and DHMP's reviewers and HSAG's reviewers. The remaining validated data elements had an agreement rate ranging from 95.0 percent to 98.8 percent. Overall, HSAG's reviewers agreed with the RAEs' and DHMP's EDV results for all six data elements within a sampled case for 72 of the 80 cases (90.0 percent).

#### **Field-Specific Agreement Rate**

HSAG calculated aggregate agreement rates of at least 95.0 percent among all six validated data elements. The *Service Start Date* data element had the lowest aggregate agreement rate for any data element, and entity-specific agreement rates ranged from 80.0 percent to 100.0 percent. HSAG's reviewers found that four of eight entities had an agreement rate of 100.0 percent for all three of the *Service Start Date*, *Service End Date*, and *Discharge Status* data elements together.



#### Over-Read of Sample Cases: Psychotherapy Services

#### **Overall Agreement Rate**

Figure 2-2 presents the aggregate results from HSAG's over-read of the 80 cases sampled from Psychotherapy Services encounters (i.e., 10 cases per RAE and DHMP).

100%
80%
60%
98.8%
95.0%
93.8%
97.5%
97.5%
96.3%
96.3%
97.5%
97.5%
97.5%
96.3%
Procedure Code
Thank to the Code
Thank to

Figure 2-2—Aggregate Percent Agreement Between HSAG's Over-Read and the RAEs' and DHMP's EDV Findings by Data Element for Psychotherapy Services

Note: The upper and lower diamonds represent the highest and lowest agreement rates among the RAEs and DHMP.

At 93.8 percent, the *Place of Service* data element had the lowest rate of agreement between the RAEs' and DHMP's EDV results and HSAG's over-read results. The remaining validated data elements had an agreement rate of at least 95.0 percent. Overall, HSAG's reviewers agreed with the RAEs' and DHMP's EDV results for all 10 data elements within a sampled case for 70 of the 80 cases (87.5 percent).

#### **Field-Specific Agreement Rate**

HSAG calculated aggregate agreement rates of at least 93.8 percent among the 10 validated data elements. Overall, RAE 2 and RAE 7 had the highest rates of agreement between the RAEs' and DHMP's EDV results and HSAG's over-read results at 100.0 percent. RAE 1 and RAE 6 had the lowest agreement rates at 80 percent for *Diagnosis Code* and *Place of Service*.



#### **Over-Read of Sample Cases: Residential Services**

#### **Overall Agreement Rate**

Figure 2-3 presents the aggregate results from HSAG's over-read of the 80 cases sampled from Residential Services encounters (i.e., 10 cases per RAE and DHMP).

100% 80% Percent of Agreement 60% 40% 20% Duration 95
Staff Requirement 93.8% 93.8% 95.0% 95.0% 95.0% 95.0% 95.0% 0% **Reviewed Data Element** 

Figure 2-3—Aggregate Percent Agreement Between HSAG's Over-Read and the RAEs' and DHMP's EDV Findings by Data Element for Residential Services

Note: The upper and lower diamonds represent the highest and lowest agreement rates among the RAEs and DHMP.

At 95.0 percent, the *Place of Service, Unit, Service Start Date, Service End Date, Population, Duration,* and *Staff Requirement* data elements had the highest rates of agreement between the RAEs' and DHMP's EDV results and HSAG's over-read results. The remaining validated data elements had an agreement rate of 93.8 percent. Overall, HSAG's reviewers agreed with the RAEs' and DHMP's EDV results for all 10 data elements within a sampled case for 74 of the 80 cases (92.5 percent).



#### **Field-Specific Agreement Rate**

HSAG calculated aggregate agreement rates of at least 93.8 percent among the 10 validated data elements. HSAG's reviewers found that RAE 2, RAE 4, and RAE 7 had the highest rates of agreement between the RAEs' and DHMP's EDV results and HSAG's over-read results at 100.0 percent for all data elements. At 60.0 percent agreement, RAE 1 had the lowest agreement rate among the RAEs and DHMP for all data elements.





#### **Conclusions**

HSAG's desk review of the Department's sampling methodology assessed the inclusion criteria for encounters, classification logic for service categories, and the sampling logic. While the Department's sampling methodology noted that it required supplemental documentation to support the validity of any data not adhering to the data layout specifications, no details were provided for the final sample frame inclusion criteria for cases exhibiting inconsistencies. Additionally, the Department's documentation did not show the steps taken to verify that the sample frame contained only paid, final encounters meeting the established service category criteria or to validate that the final sample was representative of the sampling frame. Moreover, the Department's documentation did not codify the steps taken to validate the sample frame or to evaluate the extent to which the final sample was representative of the sampling frame.

Of the 240 over-read cases, HSAG's reviewers agreed with the RAE/DHMP reviewers' determinations for all data elements for 216 cases (i.e., an all-element agreement rate of 90.0 percent) and disagreed with RAE/DHMP reviewers' determinations for only one data element for an additional 14 cases (5.8 percent). The percentage of cases with all-element agreement ranged from 73.3 percent for RAE 1 to 96.7 percent for RAE 5 and RAE 7. The all-element agreement rates also varied by service category as follows:

- 90.0 percent of Inpatient Services cases
- 87.5 percent of Psychotherapy Services cases
- 92.5 percent of Residential Services cases

In general, HSAG's reviewers and the RAE/DHMP reviewers' disagreement rates for Inpatient Services cases related primarily to the *Service Start Date* data element. The most common reason for HSAG's disagreement on the *Service Start Date* data element for Inpatient Services cases was that the RAE or DHMP had agreed with an incorrect date in the encounter data, and HSAG's reviewers determined that the medical record documentation supported a different date.

The most common reason for HSAG's disagreement on the *Place of Service* data element for Psychotherapy Services was that the RAE or DHMP scored the place of service code negatively due to a perceived lack of technical documentation (e.g., a provider signature in the medical record), while HSAG's reviewers determined that the medical record documentation supported the procedure code shown in the encounter data for the case.

HSAG reviewers' disagreement rates for Residential Services cases related primarily to the *Diagnosis Code* data element. The most common reason for HSAG's disagreement on the Diagnosis Code data element for Residential Services cases was that the RAE or DHMP scored the diagnosis code negatively due to a perceived lack of technical documentation (e.g., a provider signature in the medical record),



while HSAG's reviewers determined that the medical record documentation supported the diagnosis code shown in the encounter data for the case.

In general, results from HSAG's FY 2021–2022 RAE 411 over-read suggest a high level of confidence that the RAEs' and DHMP's independent validation findings accurately reflect their encounter data quality. In comparison, the RAEs' and DHMP's self-reported service coding accuracy results reflected more than 90.0 percent agreement for all data elements except *Diagnosis Code* and *Discharge Status* for Inpatient Services, six data elements in Psychotherapy Services cases, and three data elements in Residential Services cases. Based on these findings, the RAEs and DHMP should continue to evaluate and enhance internal processes for ongoing encounter data monitoring and use the Department's annual RAE 411 EDV study as a focused mechanism for evaluating quality improvement.

#### Recommendations

Based on the EDV and over-read results described in this report, HSAG offers the following recommendations to improve the overall quality of the RAEs' and DHMP's BH encounter data and the RAEs' and DHMP's abilities to conduct future EDVs:

- The RAE/DHMP reviewers identified medical records that they determined were insufficient to meet validation standards, including medical records that failed key documentation standards (e.g., missing providers' signatures) and should have failed to meet the USCS requirements to support the procedure code shown in the encounter data. The Department's Rates Section should work collaboratively with the Department's RAE and DHMP Health Program Office (HPO) staff members and the RAEs and DHMP to identify best practices regarding provider education and training on the USCS manual and service coding accuracy to ensure that encounter data are appropriately supported by medical record documentation.
- HSAG's review of each RAE's and DHMP's EDV response files revealed discrepancies between EDV results and original encounter data. The Department may consider directing the RAEs and DHMP to incorporate a review of their final EDV data against their original encounter data as a component of the annual EQR RAE 411 Quality Improvement Plan to identify potential biases in the RAEs' and DHMP's internal EDV processes.
- The Department should continue discussions with the RAEs and DHMP on improvements to the RAE 411 EDV guidelines and timeline to mitigate the impact of the COVID-19 public health emergency and related staffing challenges on the medical record procurement and review processes.
- To ensure that the RAEs and DHMP have implemented quality improvement actions identified in the Encounter Data Quality Reports, HSAG continues to recommend that the Department's HPO staff members for each RAE and DHMP:
  - Request copies of the RAEs' and DHMP's provider training and/or process improvement documentation.
  - Request copies of the RAEs' and DHMP's policies and procedures for monitoring providers' BH encounter data submissions.



Collaborate with the Department's Rates Section to review the RAEs' and DHMP's encounter data quality documents and verify that RAEs and DHMP are monitoring encounter data quality and ensuring that providers are trained to submit BH encounters that accurately reflect the services rendered and the corresponding medical record documentation. Training materials should distinguish between ongoing education and USCS manual training offered to providers newly contracted with a RAE or DHMP.

Timely, accurate encounter data require ongoing efforts from multiple stakeholders among the providers, the RAEs, DHMP, and the Department. Focused quality improvement efforts are underway, including an annual EQR activity in which the Department requires the RAEs and DHMP to develop and implement quality improvement activities based on their prior year's RAE 411 service coding accuracy results (quality improvement project). The Department provided no additional information on quality improvement actions resulting from recommendations in the FY 2020–2021 RAE 411 EDV report.



# **Appendix A. RAE 411 Methodology**

HSAG's independent EDV consisted primarily of an assessment of the RAEs' and DHMP's internal EDV results through an over-read of medical records for a sample of randomly selected encounters. HSAG recommended a sampling strategy to the Department to ensure that EDV cases were generated randomly from a representative base of BH encounters eligible for inclusion in this study. HSAG's review of the Department's sampling protocol was limited to an assessment of sampling methodology documentation provided by the Department.

The second component of HSAG's independent EDV was to evaluate whether the RAEs' and DHMP's internal EDV capacity can be verified through assessment of encounter data, supporting medical record documentation, and state-specific documentation standards listed in Colorado's Uniform Service Coding Standards (USCS) manuals. Each RAE and DHMP supplied HSAG with an EDV response file containing the RAE's and DHMP's internal EDV results for the 411 cases sampled by the Department. Prior to receiving the RAEs' and DHMP's internal EDV results, HSAG generated an over-read sample of 10 cases for each of the three service category strata within the Department's 411 sampled cases (i.e., HSAG overread 30 total cases for each RAE and DHMP). The evaluation process included the following steps:

#### **Generation of Over-Read Samples**

The Department developed a 411-case sample of final, adjudicated BH encounter lines with dates of service between July 1, 2020, to June 30, 2021, stratified among three service categories. A-1,A-2 The Department selected 137 encounter lines for each RAE and DHMP from each of the following service categories:

- Institutional Encounters from Inpatient Services:
  - Transaction Header data value is 'I,' and
  - Place of service code data value is 21 or 51, or a non-null revenue code, and
  - Procedure code does not include H0017, H0018, or H0019
- Professional Encounters from Psychotherapy Services:
  - Services with procedure codes 90832, 90833, 90834, 90836, 90837, 90838, 90846, 90847, 90849, or 90853
- Professional Encounters from Residential Services:
  - All services with procedure codes H0017, H0018, or H0019

<sup>&</sup>lt;sup>A-1</sup> In the event that a RAE's or DHMP's encounter data did not contain 137 unique members with final, adjudicated, professional BH encounter lines within the specified dates of service and service category, the Department selected 137 unique encounter lines that may reflect services among the same members.

A-2 While the guidelines indicated that the Department's sampling would be limited to professional BH encounters, HSAG's review of the sampled cases determined that the Department included institutional encounters in the sample frame.



The Department submitted the 411-case sample lists to the RAEs, DHMP, and HSAG in January 2022; each RAE and DHMP then conducted its internal validation on the sampled encounters. HSAG used the sample lists from the Department to generate an over-read sample using a two-stage sampling approach. Under this sampling approach, HSAG randomly selected 10 identification numbers for unique individuals from each service category and then selected a single encounter line for each of the 10 individuals, resulting in a list of 10 randomly selected encounter lines per service category and 30 cases overall for each RAE and DHMP.

#### **EDV Tool Development**

Each RAE and DHMP submitted its response file containing internal EDV results for the 411 sampled cases to HSAG in March 2022. HSAG designed a web-based data collection tool and tool instructions in alignment with the guidelines and with the pertinent versions of the USCS manual. HSAG prepopulated encounter data values and the RAEs' and DHMP's EDV results using a control file containing select fields from the Department's encounter data flat file and the RAEs' and DHMP's corresponding internal EDV results for the over-read sample cases. Pre-populated information could not be altered, and HSAG's reviewers were required to actively select an over-read response for each data element. Corresponding medical records procured by the RAEs and DHMP were linked to cases within the tool. The web-based tool allowed the HSAG analysts to extract Microsoft (MS) Excel files containing encounter data, the RAEs' and DHMP's EDV responses, and the HSAG reviewers' responses for all over-read cases. HSAG's reviewer oversight process was also integrated into the web-based tool, and all inter-rater reliability (IRR) testing was conducted using the tool.

#### **HSAG's Over-Read Process**

HSAG evaluated the accuracy of the RAEs' and DHMP's EDV findings in April 2022 and entered all over-read results into the web-based EDV tool. Specifically, HSAG's reviewers evaluated the RAEs' and DHMP's accuracy in validating the providers' submitted BH encounter data in accordance with the USCS manuals specific to the study period. HSAG's EDV over-read considered the RAEs' and DHMP's encounter data, supporting medical record documentation, and the version(s) of the USCS manual used by the RAEs and DHMP during their EDV. HSAG's reviewers evaluated whether the RAE's and DHMP's EDV determinations for each encounter were supported by the medical record and whether the medical record contained the minimum documentation required to support the service documented in the encounter data.

HSAG's over-read did not evaluate the quality of BH record documentation or the providers' accuracy in submitting encounter data, only whether the RAEs' and DHMP's EDV responses were accurate based on HSAG's review of the supporting BH documentation submitted by the RAEs and DHMP.

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A-3 Given the dates of service for encounters in this study, the guidelines permit the use of the following versions of the USCS manual: the July 2020 version covering dates of service from July 1 through December 31, 2020; the January 2021 version covering dates of service from January 1 through March 31, 2021; and the April 2021 version covering dates of service from April 1 through June 30, 2021. All versions are available from the Department at: <a href="https://hcpf.colorado.gov/accountable-care-collaborative-phase-ii-provider-and-stakeholder-resource-center">https://hcpf.colorado.gov/accountable-care-collaborative-phase-ii-provider-and-stakeholder-resource-center</a>.



HSAG trained two nurse reviewers to conduct the over-read, with two nurse managers conducting IRR and providing oversight for the case review and data abstraction. During the over-read, the reviewer located the selected date of service in the submitted BH record and verified the presence and/or supporting documentation in the medical record for the study elements (e.g., procedure codes, diagnosis codes) as well as whether the study elements aligned with coding standards defined in the USCS manual. National coding guidelines were only used when Current Procedural Terminology (CPT) codes and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes were not included in the USCS manual. Next, the HSAG reviewer assessed the RAE's and DHMP's EDV response with respect to the accuracy of the data submitted by the provider. If the HSAG reviewer agreed with the RAE's and DHMP's EDV response, a response of "agree" was selected in the tool. If the HSAG reviewer disagreed with the RAE's and DHMP's EDV response, a response of "disagree" was selected in the tool. In the event of a disagreement with the RAE's and DHMP's EDV findings, the HSAG reviewer would select from the tool a reason from a list of predetermined disagreement reasons specific to each data element. The EDV over-read findings presented in this report were based on HSAG's percent of agreement or disagreement with the RAE's and DHMP's responses.

Prior to beginning abstraction, HSAG's reviewers participated in an IRR assessment using training cases. To proceed with abstraction on study cases, reviewers were required to score 95 percent or higher on the post-training IRR. If this threshold was not met, the nurse managers provided retraining, including abstraction of additional test cases.

During the over-read period, HSAG conducted an ongoing IRR assessment by randomly selecting a minimum of 10 percent of cases per reviewer and comparing the over-read results to those from a second reviewer. For cases in which over-read discrepancies were identified between the first and second reviewers, a third "Gold Standard" review was conducted by a nurse manager that provided a final determination regarding the appropriate over-read result. Any IRR result that fell below 95 percent required further evaluation by the nurse manager and possible retraining of the reviewer(s).

#### **Analysis Process**

Following completion of the over-read, the HSAG analyst exported the data abstraction results from the over-read tool and consulted with the nurse managers as needed for clarification of selected over-read results. The HSAG analyst assessed the over-read results to determine the percentage of records for which the HSAG reviewer agreed with the internal EDV response from each RAE and DHMP. Statewide and entity-specific results were tabulated by service category for data elements validated by the RAEs and DHMP and overread by HSAG. Analysis results were independently validated by a second HSAG analyst.



#### Response Data Layout for Encounter Quality Audit for RAEs and DHMP

This section was copied from the FY 2021–2022 Annual RAE Encounter Data Quality Review Guidelines Appendix II, including a table defining the Response Data Layout for RAEs' 411 EDV Results. HSAG made cosmetic edits to align this text to the current report.

These tables show the requested data layout for the EDV response files that the RAEs and DHMP will submit to the Department. The information should be submitted as two separate MS Excel documents:

- The "Inpatient" file will have 138 rows (i.e., a header row and one row per sampled inpatient encounter line) and should be populated into the MS Excel file as noted in the Data Description column of Table A-1.
- The "Professional" file will have 275 rows (i.e., a header row and one row per sampled psychotherapy or residential services professional encounter line) and should be populated into the MS Excel file as noted in the Data Description column of Table A-2.

Guidance for specific encounter data scenarios are shown following the data layout tables.

Table A-1—411 EDV Response Data Layout for Inpatient Services Encounter Lines

Data Floment (Field)		Response Field Variable	Data Description	Format	Length
0	Record No	RECORD_NO	Sequential number for each of 137 records, should align with the <i>Record No</i> in the flat file (Appendix I)	X	Integer
1	Encounter Principal Surgical Procedure Code	ENC_SPROC	0 = No or insufficient documentation, incorrect code utilized for surgical procedure performed  1 = Correct principal surgical procedure code, Note: If the encounter data show no surgical procedure code and this aligns with the medical record documentation, mark "1".	Х	1
2	Encounter Primary Diagnosis Code	ENC_DIAG	0 = No or insufficient documentation, assignment of incorrect primary diagnosis code 1 = Correct primary diagnosis code	X	1
3	Encounter Revenue Code	ENC_REV	0 = No or insufficient documentation, incorrect revenue code 1 = Correct revenue code	X	1
4	Encounter Discharge Status	ENC_DCSTAT	0 = No or insufficient documentation, incorrect discharge status 1 = Correct discharge status	X	1



	Data Element (Field)	Response Field Variable	Data Description	Format	Length
5	Encounter Service Start Date	ENC_FDOS	<ul> <li>0 = No or insufficient documentation,</li> <li>incorrect service start date</li> <li>1 = Correct service start date</li> </ul>	X	1
6	Encounter Service End Date	ENC_LDOS	0 = No or insufficient documentation, incorrect service end date 1 = Correct service start date	X	1
7	Documented Surgical Procedure Code	DOC_SPROC	Enter correct surgical procedure code if present in supporting documentation Enter 'No Doc' if no or insufficient documentation of correct surgical procedure code Enter 'NR' if data element is not populated in the encounter data line	X	7
8	Documented Diagnosis Code	DOC_DIAG	Enter correct primary diagnosis code if present in the supporting documentation Enter 'No Doc' if no or insufficient documentation of correct diagnosis code	X	7
9	Documented Revenue Code	DOC_REV	Enter correct revenue code if present in supporting documentation Enter 'No Doc' if no or insufficient documentation of correct revenue code	X	4
10	Documented Discharge Status	DOC_DCSTAT	Enter correct discharge status if present in supporting documentation Enter 'No Doc' if no or insufficient documentation of correct discharge status	X	8
11	Documented Service Start Date	DOC_FDOS	Start Date of Service in the documentation 'No Doc' if there is no documentation	MM/DD /YYYY	10
12	Documented Service End Date	DOC_LDOS	End Date of Service in the documentation 'No Doc' if there is no documentation	MM/DD /YYYY	10
13	E&M Guidelines Version	EM_VERS	1 = 1995 version of Evaluation and Management Services Documentation Guidelines 2 = 1997 version of Evaluation and Management Services Documentation Guidelines 9 = Does Not Apply	Х	1



ı	Data Element (Field)	Response Field Variable	Data Description	Format	Length
14	Comments (conditionally required)	COMMENTS	Reviewer should enter comments supporting the decision made.  Comments are required in the following scenarios:  If no supporting medical records were provided, enter, "no documentation received from provider"  If medical records do not support the date of service and subsequent data elements were scored "0", enter, "DOS not found in MR"  If a decision support tool or supplemental documentation was used, enter, "refer to document: <file name="">"  If the case includes supplemental medical record pages without a Medicaid ID, enter, "Supplemental medical record pages without a Medicaid ID were submitted but not used for validation"  Comments are required to support the following scenarios:  To provide details regarding non-specific primary diagnosis codes  To provide details regarding agreement or disagreement with the encounter start date for inpatient stays that began as an observation stay  To provide details regarding the documentation supporting an inpatient discharge status determination</file>	X	Flexible



Table A-2—411 EDV Response Data Layout for Psychotherapy and Residential Professional Services Encounter Lines

LISTS FIRMANT (FIRID)		Response Field Variable	Data Description	Format	Length
0	Record No	RECORD_NO	Sequential number for each of 274 records, should align with the <i>Record No</i> in the flat file (Appendix I)	X	Integer
1	Encounter Procedure Code	ENC_PROC	0 = No supporting documentation, or not consistent with the documentation, or not in the USCS, or does not comply with the service description in USCS (Note 4 below)  1 = Yes, consistent with the minimum supporting documentation requirements and complies with USCS	X	1
2	Encounter Diagnosis Code	ENC_DIAG	0 = No documentation, or not consistent with the supporting documentation, or does not comply with the diagnosis code requirement in USCS 1 = Yes, complies with USCS and consistent with the supporting documentation	X	1
3	Encounter POS	ENC_POS	0 = No documentation, or not consistent with the supporting documentation, or not comply with USCS 1 = Yes, complies with USCS and consistent with the supporting documentation	X	1
4	Encounter Service Cat/Program Category (Procedure Modifier 1)	ENC_MOD	0 = Does not comply with the program category requirement in the USCS for the encounter procedure code  1 = Yes, complies with USCS and consistent with the supporting documentation	X	1
5	Encounter Units	ENC_UNITS	0 = No supporting documentation, or not consistent with the documentation or not within the duration allowed by USCS 1 = Yes, complies with USCS and consistent with the supporting documentation	X	1
6	Encounter Service Start Date	ENC_FDOS	0 = Start date does not comply with the supporting documentation 1 = Yes, consistent with the supporting documentation	X	1
7	Encounter Service End Date	ENC_LDOS	0 = End date does not comply with the supporting documentation 1 = Yes, consistent with the supporting documentation	X	1



[	Data Element (Field)	Response Field Variable	Data Description	Format	Length
8	Documented Population	DOC_POP	0 = No documentation or not comply with USCS 1 = Yes, complies with USCS	X	1
9	Documented Duration	DOC_DUR	0 = No documentation or not comply with USCS 1 = Yes, complies with USCS	X	1
10	Documented Staff Requirements	DOC_STAFF	0 = No documentation or not comply with USCS, if procedure code is included in USCS 1 = Yes, complies with USCS (Note 10 below)	X	1
11	Documented Procedure Code	DOC_PROC	Procedure code in the supporting documentation 'No Doc' if there is no document or unable to determine service based on documentation	X	5
12	Documented E&M Procedure Code	DOC_EM	For psychotherapy cases with a documented procedure code of 90833, 90836, or 90838, the primary E&M procedure code associated with the psychotherapy service in the supporting documentation 'No Doc' if there is no document or unable to determine the associated E&M procedure code based on documentation  Enter 'NA' if data element does not pertain to the service type or if the psychotherapy procedure code is a stand-alone code that does not require an E&M code  Required for psychotherapy encounters with a documented procedure code of 90833, 90836, or 90838	X	5
13	Documented Diagnosis Code	DOC_DIAG	Diagnosis code in the supporting documentation 'No Doc' if there is no documentation	X	7
14	Documented Place of Service (POS)	DOC_POS	Place of Service in the supporting documentation 'No Doc' if there is no documentation	X	2
15	Documented Units	DOC_UNITS	Maximum of the units complying with USCS, if procedure code is included in USCS 'No Doc' if there is no document	X	Integer
16	Documented Service Start Date	DOC_FDOS	Start Date of Service in the documentation 'No Doc' if there is no documentation	MM/DD /YYYY	10



Data Element (Field)		Response Field Variable	Data Description	Format	Length
17	Documented Service End Date	DOC_LDOS	End Date of Service in the documentation 'No Doc' if there is no documentation	MM/DD /YYYY	10
18	USCS Version Used	USCS_VERS	1 = <u>July 2020 version</u> , covering dates of service from July 1 through December 31, 2020 2 = <u>January 2021 version</u> , covering dates of service from January 1 through March 31, 2021 3 = <u>April 2021 version</u> , covering dates of service from April 1 through June 30, 2021	X	1
19	Comments (conditionally required)	COMMENTS	Reviewer should enter comments supporting the decision made.  Comments are required in the following scenarios:  If no supporting medical records were provided, enter, "no documentation received from provider"  If medical records do not support the date of service and subsequent data elements were scored "0", enter, "DOS not found in MR"  If a decision support tool or supplemental documentation was used, enter, "refer to document: <file name="">"  If the case includes supplemental medical record pages without a Medicaid ID, enter, "Supplemental medical record pages without a Medicaid ID were submitted but not used for validation"</file>	X	Flexible

#### **Guidance for Specific Encounter Data Scenarios**

1. To assess encounter data quality, data elements are contingent on corresponding medical record documentation. Medical records correspond to the encounter data when the member information (i.e., name, date of birth, and/or Medicaid ID), provider information, and date of service are in agreement. If the medical records match the member and provider information but the date of service is incorrect, the Encounter Service Start Date (ENC\_FDOS) and Encounter Service End Date (ENC\_LDOS) will be scored as "0" and the other data elements will be scored as "0". The Comments field should be used to indicate that data elements were in disagreement due to the invalid date of service.



- 2. The RAE 411 data quality review considers individual encounter lines that are sampled from encounter data submitted to the Department by the RAE and DHMP. Reviewers should focus on the information found in the encounter line and determine whether the encounter values are supported by medical record documentation, with the consideration that the medical record documentation may support services captured on separate encounter lines outside the scope of this review.
  - a. The EDV intends to validate that the encounter data value is supported by the services documented in the medical record. Direct comparison to a coded value on a billing summary may not be appropriate, because the billing summary may have been incorrectly coded prior to the claim submission. A billing document may be used to support the documented encounter data values as long as the medical record shows evidence that the coded values are accurate (i.e., a billing document alone does not support that services were rendered consistent with the pertinent USCS Guidelines or national coding standards).
- 3. In the event medical record documentation is unavailable to support the encounter, all elements will be scored as "0" or "No Doc," as applicable to each response field. The Comments field should be used to indicate that data elements were in disagreement due to the lack of supporting medical records.
  - a. In cases where the medical record does not contain patient identifiers on each page of the record, encounter data elements found on medical record pages without identifier should be scored as "0" or "No Doc," as applicable to each response field.
  - b. If a medical record cannot be found and all fields are scored as 0 or NA, assign the USCS Version that would have applied to the dates of service in the encounter data. Include the following note in the COMMENTS field: "no documentation received from provider."
- 4. For inpatient records or other records with services occurring over a date range, the encounter date of service is acceptable if it falls within the date range. If the service occurs on a single day, the documentation is adequate if it shows the service start date and a duration.
- 5. In the event that the inpatient services encounter line reflects a radiology or laboratory result, supporting medical record documentation must contain a signed order listing the test to be performed and the reason for ordering the test. An interpretation and report of the result must also be included to fully support the encounter data value. Score the applicable EDV Response elements with "0" or "No Doc" if signed documentation from a qualified provider is not available to support the radiology or laboratory order.
- 6. For psychotherapy or residential services, the Encounter Service Cat/Program Category (ENC\_MOD) should be scored "0" if the Encounter Procedure Code (ENC\_PROC) is scored "0". Please note that a procedure code modifier is not evaluated for cases sampled for inpatient services.
- 7. The 90833, 90836, and 90838 procedure codes reflect psychotherapy services billed in conjunction with an E&M code. List the associated E&M code in the Documented E&M Procedure Code (DOC\_EM). Score a "0" for the Encounter Procedure Code (ENC\_PROC) and "No Doc" for the Documented E&M Procedure Code (DOC\_EM) if the psychotherapy service was not correctly added to an E&M code.



- 8. Documentation for psychotherapy services should include a primary diagnosis on file that is active for the date(s) of service for the psychotherapy encounter. While the diagnosis is not required to be recorded with the case notes for each date of psychotherapy services, the documentation for each service must be tied to the member's current treatment plan and current diagnosis. Depending on the agency's requirements, treatment plans and diagnoses are usually reviewed and updated on a routine basis (e.g., no less than every six months).
- 9. For the Encounter Procedure Code (ENC\_PROC) field, all of the information under the headings of "procedure code description," "service description," "notes," and "technical documentation requirements" should be taken into account when they are applicable. Review of the procedure code should consider all items noted in the USCS Manual as service content.
  - a. Beginning in March 2020, the Department approved the use of telephone or live chat to meet technical documentation requirements for the mode of service delivery as a result of the coronavirus disease 2019 (COVID-19) public health emergency. As the emergency order remained in effect for the FY 2021–2022 measurement period, include the following note in COMMENTS to identify cases in which the delivery mode requirement was met under the HCPF guidance: "Refer to document: HCPF Approval Telephone Mode 3.20.20."
- 10. When the Encounter Procedure Code (ENC\_PROC) field is scored as "0," the Documented Procedure Code (DOC\_PROC) should list the procedure code best supported by the documentation, even if that code may be different than the procedure code that the provider billed. This allows the RAE and DHMP to identify instances in which providers may not be assigning an accurate procedure code for services rendered.
  - a. If the procedure code in the encounter data is not supported by medical record documentation (i.e., ENC\_PROC=0) and the service rendered was not billable, score DOC\_PROC as "No Doc" and include a note in COMMENTS to indicate that the procedure reflected in the medical record was not a billable service.
- 11. The Documented Staff Requirements (DOC\_STAFF) field assesses whether or not the service administrator has the appropriate credentials for the procedure.
  - a. Signatures are not a component of complete information for the staff requirement, but are required to meet technical documentation requirements, which are measured in the Encounter Procedure Code (ENC\_PROC) field. The ENC\_PROC field should be scored as "0" if the medical record does not include the provider's electronic or handwritten signature. An electronic signature from an electronic health record (EHR) is adequate to meeting the USCS technical documentation requirement for a provider signature.
  - b. For procedure codes that allow providers who may have less than a Bachelor's degree, the provider's title should be listed to confirm that the provider meets the staff requirement for the procedure code. As educational requirements for staff may vary by facility, the RAEs and DHMP may opt to have facilities confirm the level of education for non-credentialed staff (e.g., verifying that an individual identified in the medical record as a "milieu counselor" had an appropriate level of education or credential to align with the staff requirements for a specified procedure code).



- 12. Please refer to the following details for encounter lines with the H0017, H0018, and H0019 procedure codes for residential services:
  - a. The procedure code does not need to be included on the shift note(s), as long as the procedure code is present in the medical record for the stay. A billing document may be used to support the documented procedure code as long as the medical record shows evidence that the procedure code is accurate (i.e., a billing document alone does not support that services were rendered consistent with the USCS Guidelines).
  - b. The diagnosis does not need to be present on the shift note(s) if the diagnosis is present in the medical record for the stay.
  - c. Since the USCS Service Contents do not require specific times, documentation of "day" or "evening" is acceptable when considering state time, end time, and duration for a service in a residential facility. A summary of notes is acceptable in instances in which multiple shift notes cover all hours within a 24-hour period for which the client was present if admitted day-of.
    - i. If no programmatic services were rendered to the member on the sampled date of service during a residential stay, the reviewer should verify that the medical record contains documentation indicating that no services were necessary (e.g., a progress note indicating that programmatic services were not rendered because the member or the therapist was unavailable). If needed, the reviewer may use the COMMENTS to explain the decision.
  - d. The place of service (POS) does not need to be present on the shift note(s) if the place of service is present in the medical record for the stay.
  - e. If the shift note does not meet technical documentation requirements, score the Encounter Procedure Code (ENC\_PROC) as "0" and evaluate other EDV Response fields with respect to the correct procedure code. For example, if ENC\_PROC=0 because technical documentation was missing, use DOC\_PROC="H0017" and use the COMMENTS to indicate that ENC\_PROC was scored negatively because technical documentation requirements were not met.
  - f. The residential service procedure code is billed with a maximum of 24 hours and no minimum. Therefore, an admission summary or shift note with the pertinent Service Contents are acceptable documentation for the procedure code for dates of services that are the day of admission.
  - g. If the medical record documentation does not align with the USCS Guidelines for the residential service procedure code, all fields should "0" or "No Doc," as applicable. Individual and group services may not reflect the overall residential service procedure code; a shift note or daily note would corroborate the residential service procedure code.



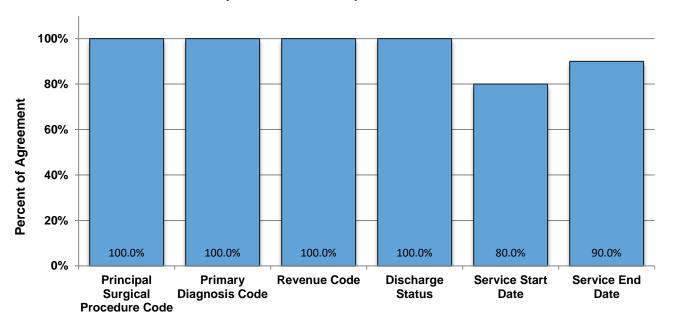
# Appendix B. Over-Read Findings for RAE 1— Rocky Mountain Health Plans

Figure B-1 through Figure B-3 present aggregate results from HSAG's 30-case over-read of RAE 1's 411 sample. Agreement values range from 60.0 percent to 100.0 percent, where 100.0 percent represents complete agreement between RAE 1's EDV results and HSAG's over-read results for a data element, and 0.0 percent represents complete disagreement.

# **Inpatient Services**

Figure B-1 shows that HSAG's reviewers agreed with RAE 1's Inpatient Services EDV results for 100.0 percent of the 10 over-read cases for four of the six validated data elements. At 100.0 percent, the *Principal Surgical Procedure Code, Primary Diagnosis Code, Revenue Code*, and *Discharge Status* data elements had the highest rates of agreement between RAE 1's EDV results and HSAG's over-read results. The remaining two validated data elements each had agreement rates of at least 80.0 percent.

Figure B-1—Aggregate Percent Agreement Between HSAG's Over-Read and RAE 1's EDV Findings by Data Element for Inpatient Services



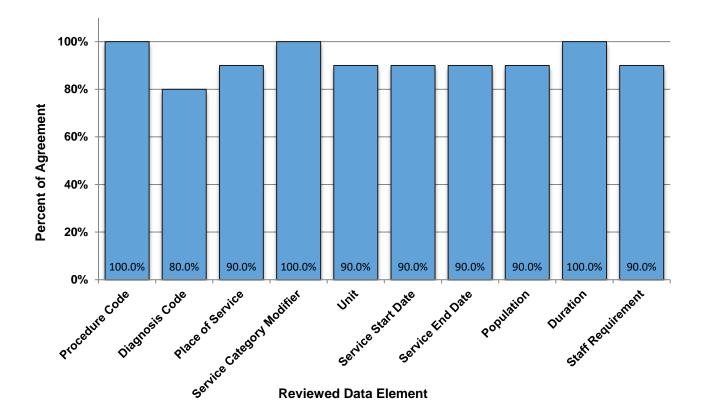
**Reviewed Data Element** 



# **Psychotherapy Services**

Figure B-2 shows that HSAG's reviewers agreed with RAE 1's Psychotherapy Services EDV results for 100.0 percent of the 10 over-read cases for three of the 10 validated data elements. At 80.0 percent, the *Diagnosis Code* data element had the lowest rate of agreement between RAE 1's EDV results and HSAG's over-read results.

Figure B-2—Aggregate Percent Agreement Between HSAG's Over-Read and RAE 1's EDV Findings by Data Element for Psychotherapy Services





#### **Residential Services**

Figure B-3 shows that HSAG's reviewers agreed with RAE 1's Residential Services EDV results for 60.0 percent of the 10 over-read cases for all 10 validated data elements. RAE 1's EDV results included negative findings for all data elements in four cases due to incomplete documentation; however, HSAG's reviewers determined that the medical records supplied by RAE 1 supported the encounter data values for all data elements in the case.

Figure B-3—Aggregate Percent Agreement Between HSAG's Over-Read and RAE 1's EDV Findings by Data Element for Residential Services

