

Medicaid CHIP Data Analytics Unit Quarterly Report of Activities State Fiscal Year 2021, Quarter 4

As Required by 2020-21 General Appropriations Act, House Bill 1, 86th Legislature, Regular Session, 2019

(Article II, HHSC, Rider 10)

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1. Introduction

The 2020-21 General Appropriations Act, House Bill (HB) 1, 86th Legislature, Regular Session, 2019 (Article II, Health and Human Services Commission, Rider 10), directs the Health and Human Services Commission (HHSC) to "report to the Legislative Budget Board on a quarterly basis the activities and findings of the Data Analysis Unit" created by Government Code, §531.0082. The following report fulfills this requirement for the fourth quarter of State Fiscal Year 2021 (SFY21 Q4).

During SFY21 Q4, the Medicaid CHIP Data Analytics (MCDA) Unit within the Office of Data, Analytics, and Performance (DAP) completed 39 projects supporting the direction of the Government Code to "...(1) improve contract management, (2) detect data trends, and (3) identify anomalies relating to service utilization, providers, payment methodologies, and compliance with requirements..." in the state's Medicaid and CHIP programs. The status of major projects and activities, along with findings, is described in three sections of the report: 1) Monitoring Managed Care Organization (MCO) Contract Compliance, 2) Tracking Service Utilization and Related Data, and 3) Enhancing Data Infrastructure. The Service Utilization section contains an update on the unit's involvement in the agency's COVID-19 response, including the posting of dedicated COVID-19 testing and diagnosis related dashboards, the integration of demographic variables into existing service utilization dashboards, and the unit's contributions to an ongoing study of COVID-19 impacts on vulnerable populations.

MCDA collaborates closely with many units within the Medicaid and CHIP Services (MCS) Division. At the most recent quarterly Service Utilization Workgroup meeting, where MCDA presents its findings of service utilization trends and anomalies, 20 MCS staff members participated. Units represented included the Medical Director's Office, Policy and Program, Operations Management, Quality Assurance, and Utilization Review (UR). Several Actuarial Analysis staff also attended the Service Utilization Workgroup meeting. MCDA continues to meet with the Director of Actuarial Analysis on a monthly basis to exchange observations of data variations of interest.

In addition, Rider 10 directs that "...any anomalies identified related to service utilization, providers, payment methodologies, and compliance with the requirements in Medicaid and CHIP shall be reported to the Office of the Inspector General for further review." MCDA and the Office of the Inspector General (OIG) communicate monthly to exchange updates on respective analyses. For example, in SFY21 Q3, MCDA alerted the OIG to a wide disparity in the amounts paid to certain provider types compared with other provider types delivering the same category of services to clients with similar medical conditions. MCDA continues to assist the OIG with documentation related to the analysis as the OIG investigates further.

2. Monitoring MCO Contract Compliance

Extract, Transform, and Load Automation

MCDA is a key partner in HHSC's efforts to increase the data-driven efficiency of monitoring managed care organization (MCO) contract compliance. Due to the Extract, Transform, and Load (ETL) automation developed by MCDA, MCS has been able to redirect Managed Care Compliance & Operations (MCCO) staff resources that would otherwise have been spent manually processing thousands of reports MCOs formerly submitted in Excel format. The ETL processes have also facilitated MCDA's handling of MCO deliverable data for purposes of responding to ad hoc data requests and creating data visualizations in the form of compliance dashboards.

Several of the deliverables that MCOs once reported at an aggregated level via a legacy computer system are now being collected at a more detailed level through TexConnect, a web-based portal. This change has allowed MCDA to conduct more thorough quality assurance. Data quality checks by MCDA have identified problems in certain MCO data, such as pending appeals not being carried over into the next monthly report or reporting duplicate ID numbers. MCDA provides MCCO staff with lists of MCO reporting errors and helps them build tools and strategies to address these errors in time for MCOs to resubmit corrected data.

The TexConnect portal currently lacks the functionality to allow MCCO staff to download complete sets of submitted data at the MCO level. MCDA has read access to the TexConnect Oracle database and can provide that level of detail for MCCO staff when needed. MCCO is reviewing the possibility of adding that functionality to the TexConnect portal in a future enhancement. In SFY21 Q4, MCDA has provided MCCO staff with complete data extracts for quality review of two of the deliverables (network adequacy and provider termination) by extracting data directly from the TexConnect database.

Compliance Dashboards

The goal of the MCDA compliance dashboards is to enhance contract oversight by trending MCOs' compliance with standards required by MCO contracts and the Medicaid Uniform Managed Care Manual, such as claims adjudication timeliness and hotline call pick-up rate standards. The dashboards provide HHSC staff with access to compliance data in a user-friendly, flexible, and efficient format. The compliance dashboards are used to facilitate data-driven decisions concerning the need for corrective actions, including the issuance of liquidated damages. As the dashboards

contain confidential agency data, they are for internal use only. In SFY21 Q4, the Quality Performance Report (QPR) compliance dashboard was updated and revised to include all new data points through SFY21 Q3.

Complaints Dashboards

As a result of findings from the report required by Rider 61 of the 2018-2019 General Appropriations Act, HB 1, 85th Legislature, Regular Session, 2017 (Article II, HHSC), on Medicaid Managed Care Oversight, MCS initiated a project to revise the managed care member complaints process to streamline intake and tracking, more effectively leverage complaints data to identify risks, and ultimately improve quality of services. In the 86th Legislative Session, Regular Session, HB 4533 added related requirements, including making aggregated data available to the legislature and the public.

Two complaints dashboards will be published quarterly on the HHSC website: one for initial contact complaints, which are complaints that were resolved within one business day, and one for all other complaints. The dashboards display complaints compiled from both MCOs/DMOs and HHSC. They include both member and provider complaints data. In SFY21 Q4, MCDA compiled the SFY21 Q2 data for the dashboard.

Additionally, MCS plans to begin to incorporate the complaints data into the MCO report cards produced by the state's External Quality Review Organization (EQRO), the Institute for Child Health Policy at the University of Florida. To facilitate this addition, MCDA will be submitting complaint level data on a recurring basis to the EQRO. In Q4, MCDA sent sample complaints data to the EQRO so that they could prepare their system for receiving the data beginning in SFY22 Q1.

Provider Network Adequacy

Ensuring provider network adequacy is a high priority for the agency and Medicaid and CHIP program stakeholders. Meeting this goal can be complicated by systemic issues, such as key provider shortages across the state, the administrative complexity of the Medicaid program, and low provider reimbursement rates relative to the private marketplace. MCDA supports MCS's effort to continually evaluate the effectiveness of its provider networks, focusing on the Medicaid managed care health plans. To this end, MCDA participates in bi-weekly meetings with the MCCO Network Adequacy team to develop network adequacy dashboards. Below are some of the activities related to monitoring network adequacy in the past quarter.

- HHSC requires MCO provider networks to comply with distance and travel time standards in accordance with managed care contract requirements. This quarter, MCDA developed a new address scrubbing process and custom address locators. As a result, MCDA was able to increase the number of providers included in network adequacy analyses by up to 15%, producing a more accurate representation of provider networks, particularly in rural areas. Once the updated Distance Performance data have been verified, MCDA will update the Distance Performance dashboard through SFY21 Q4. This dashboard presents data on compliance with HHSC distance performance standards by MCO, county, and provider type.
- MCDA measures travel time between clients and providers using geospatial mapping analysis. In SFY21 Q4, MCDA completed its travel time analysis of all provider types currently tracked by the MCCO Network Adequacy team for Medicaid and CHIP programs. These include Primary, Specialty, Long Term Services and Support, Pharmacy, Dental, Behavioral Health, and Substance Use Disorder (SUD) providers. MCDA also began to develop a new Travel Time Performance dashboard this quarter to display the travel time performance standards by MCO, county, and provider type.
- Following a transition of provider termination data to TexConnect, MCDA created a new Provider Terminations Report dashboard in Q3 which includes SFY21 Q1 and Q2 data. This dashboard presents counts of providers terminated, reason for termination, and the number of members impacted, allowing MCCO to filter by client program and provider types and specialties.

Teleservices

The use of teleservices is a potential solution for improving access to care in underserved areas of the state and has alleviated barriers to office-based care during the COVID-19 pandemic for some clients. Teleservices utilization has been the subject of several recent analyses conducted by MCDA. With the passage of HB 4, 87th Legislature, Regular Session, which will expand teleservices coverage, MCDA will continue to closely monitor trends in the use of this mode of service delivery.

 MCDA updated the internal Teleservices Quarterly Dashboard through February 2021. This dashboard presents telehealth, telemedicine, and telemonitoring costs, claims, clients, and providers, allowing filtering factors like client age and program.

- MCDA analyzed home health agencies' services delivered during the COVID-19 Public Health Emergency (PHE) for the Delivery System Reform Incentive Payment Program Milestone 9 Project that compares teleservices for rural and urban areas.
- MCDA created a dashboard to analyze the share of behavioral health; SUD; well child visits; and Physical, Occupational, and Speech Therapy (PTOTST) care delivered via teleservices from SFY16 to SFY20, with demographic breakouts, to show its increased usage over time and how COVID-19 has impacted the utilization levels of the benefits.
- MCDA assisted Texas A&M University in its development of a Cost Effectiveness Analysis tool and training videos to fulfill requirements from SB 670, 86th Legislature, Regular Session, 2019.
- MCDA responded to the Kaiser Program on Medicaid and the Uninsured's Medicaid Budget Survey. Answers included the top physical and behavioral teleservices utilized, the eligibility group most likely to use teleservices, the effects of the COVID-19 pandemic on teleservices usage, and the differences between urban and rural usage.

Prior Authorization Data Collection

Access to prior authorization data from the MCOs enhances contract oversight by allowing MCS and MCDA to track trends over time and potential variations between MCO prior authorization processes. For the first phase of the agency's effort to access the data, since September 2020, the MCOs have been required to submit aggregated prior authorization files on a monthly basis. MCDA developed an ETL process to manage the data and identify quality issues, allowing UR, who manages the project, to reach out to the MCOs to have them correct the errors and resubmit the deliverables. To monitor the trends, MCDA developed and refreshes an internal dashboard for UR which displays MCO prior authorization approval and denial frequencies by service type. The dataset and dashboard are refreshed monthly; the most recent completed month of data is May 2021.

In SFY20, the Prior Authorization subcommittee developed the Change Order Request for the second phase of the project, the Prior Authorization Member-Level Data Warehousing Project. Phase 2 will focus on collecting data at the level of the individual transaction, rather than aggregated data. Granular data will allow MCDA to connect client level prior authorizations to actual services delivered as reported in the encounters. In SFY21 Q4, HHSC continued to coordinate with Texas Medicaid & Healthcare Partnership (TMHP) on the development of the project to finalize variables to include in the new Member-Level Data Warehouse.

Service Utilization Dashboards

MCDA creates and maintains a comprehensive service utilization dashboard displaying healthcare utilization by multiple service types, broken out by Medicaid and CHIP programs, MCOs, and age groups. This quarter, Service Delivery Areas (SDA), race/ethnicity, and gender filters were added. The dashboard features multiple measures, including amounts paid, utilization rates, and number of claims. Currently, the dashboard includes the following services: telemedicine/telehealth; telemonitoring; emergency department (ED) visits; inpatient stays; physical therapy (PT), occupational therapy (OT), and speech therapy (ST); private duty nursing (PDN); personal care services (PCS); durable medical equipment (DME); DME prescriptions; vendor drug program (VDP); mental health (MH); SUD; and well-child visits. During the fourth quarter of SFY21, the dashboard was updated to include finalized data through SFY20 Q4 and preliminary data through SFY21 Q2.

Ongoing Trend and Anomaly Detection

MCDA continues to refine its internal procedures for making and analyzing quarterly updates to the key service utilization dashboards. Analysts have been designated to acquire expertise in specific areas of service. With focused subject matter expertise, the analyst can more readily interpret signals of significant variations in the data. Detection of three types of signals has been automated: (1) "Outliers" (data points outside the control limits), (2) "Long Runs" of seven or more consecutive data points on one side of the long-term average, and (3) "Short Runs" (three of four consecutive values closer to a control limit than to the average value). See Figure 1 below for an example.

Once MCDA detects a potential anomaly, analysts take several steps to identify an explanation for the data variation. First, data quality is reviewed. Additionally, MCDA developed and updates a chronological dashboard that denotes when significant Medicaid and CHIP program and policy changes have been implemented. This dashboard is used to help determine whether observed irregularities in utilization data may be a result of such program or policy changes.

MCDA presents its highest priority findings to the Service Utilization Workgroup, a committee of subject matter experts from across Medicaid and CHIP Services, such as policy and program divisions, and other areas in HHSC, including Actuarial

Analysis. The team asks the workgroup members to offer ideas for what is driving the anomaly and to provide direction on next steps, including:

1) close the anomaly since it is directly related to a policy change or other known event and aligns with expected trends,

2) continue to monitor the anomaly since the reason for the trend is unclear and possibly of concern,

3) investigate the anomaly further based on a theory about what may be driving it, or

4) elevate the anomaly to leadership based on its potential to significantly impact quality of care or cost to the state.

Any elevated anomalies requiring MCS leadership attention may be presented at the Managed Care Oversight Coordination meetings, a forum where information about Medicaid and CHIP program performance is exchanged between leadership in all areas of the Medicaid and CHIP Services department and related HHSC divisions. If an urgent anomaly requires immediate attention between meetings, MCDA reaches out to Managed Care Oversight Coordination meeting coordinators to request a special briefing.





Service Utilization Monitoring During COVID-19

In the fourth quarter of SFY21, 100 new anomalies related to the utilization rate per 1,000 members or the amount paid per client were detected in the service utilization dashboard data. As described above, before the pandemic, MCDA would present the highest priority of these anomalies to the Service Utilization Workgroup to determine what might be driving the data variations. However, for SFY20 Q3 and SFY20 Q4 data, MCDA needed to adjust its standard anomaly detection presentation due to the onset of the COVID-19 pandemic in March 2020.

COVID-19 impacted service utilization rates in several ways. First and foremost, the PHE resulted in fewer people, including Medicaid clients, receiving in-person health services. Therefore, the obvious downward trend for most services did not need to be presented to the Service Utilization Workgroup for feedback. While MCDA continued to log anomalies for Q4, for consistency in its monitoring activities, analysts focused on how much impact the PHE had on specific services and how well each service appears to be rebounding after the initial decline. Observations were shared with the workgroup, who were asked to weigh in on possible reasons for the varied impacts.

Other PHE-related and non PHE-related policy changes were considered in the analyses. For example, policies to expand telehealth and telemedicine mitigated the PHE's negative impact, by offering opportunities for clients to access more types of services safely from home.

Additionally, HHSC extended enrollment for clients due for renewals during the emergency period. The economic downturn due to the PHE also increased Medicaid caseloads. Therefore, the downturn in utilization rates may not only be explained by a decrease in the number of clients utilizing the services but also by the relative increase in enrolled clients.

Another impact to client enrollment, aside from the PHE, was that the Healthy Texas Women (HTW) program returned to Medicaid in February 2020, increasing the fee-for-service (FFS) caseload by almost 300,000 members or over 50 percent.

High level observations shared with the Service Utilization Workgroup are included below. Service utilization rates are the most common measure reported. These rates indicate the number of distinct clients who received a service per 1,000 enrolled clients. Utilization rates are calculated based on clients rounded to the nearest whole numbers, except for SUD, PDN, and telemonitoring, where the numbers are too small to round. Observations about the immediate impact of COVID-19 on services generally compare utilization in February 2020, just prior to the PHE, to April 2020, right after its onset. Observations about the impact of the PHE on services since then are based on final data through Q4 (August 2020) and preliminary data from September 2020-February 2021. The more recent data are "preliminary" because encounters are not considered complete until eight months after services are delivered. This reporting lag provides time for providers and MCOs to submit and adjudicate the claims. Therefore, these more recent figures are subject to change.

- ED service utilization rates decreased sharply, from around 49 clients per 1,000 in February 2020 to around 20 clients per 1,000 in April 2020 (~59 percent decrease). Part of this decline is due to seasonality, with a peak in ED utilization generally occurring in January and a trough in June. However, this decrease is more pronounced than in past years. A decrease in the FFS utilization rate began pre-pandemic, in February 2020, corresponding to the incorporation of the HTW program into Medicaid. This sudden influx of enrolled FFS clients may have at least temporarily decreased the utilization rate more than usual. Preliminary data through February 2021 indicate that ED utilization rates have stabilized but are not close to the pre-pandemic period. The seasonal peaks and troughs typically seen in ED utilization have also not reemerged.
- Inpatient service utilization rates decreased from around 12 clients per 1,000 in February 2020 to around 10 clients per 1,000 in April 2020 (~17 percent decrease). Signs of the impact of seasonality and HTW enrollment seen in ED services pre-pandemic are also present in inpatient services. Preliminary data through February 2021 suggest that the utilization rates for the STAR Kids and STAR+PLUS programs have rebounded slightly, although not to their pre-pandemic levels. Other programs have seen a continued downward trajectory, based on preliminary data.
- Well-child service utilization for clients less than 21 years old decreased sharply during the initial stages of the pandemic, from around 86 clients per 1,000 in February 2020 to around 46 clients per 1,000 in April 2020 (~47 percent decrease). Preliminary data indicate that well-child service utilization rates seem to have gradually rebounded after April 2020.

Despite this rebound, the typical uptick in the late summer months for vaccinations and school physicals were absent in SFY20. Unlike some of the other service types that switched to remote service delivery, well-child visits experienced a very marginal increase in teleservices, probably due to the

need for in-person contact for services like vaccinations. Prior to March 2020, no well-child visits were conducted remotely, while only about 1 to 2% of services were performed remotely from April 2020 to February 2021.

 A steep drop in vendor drug utilization was observed during the initial stages of the PHE, from around 220 clients per 1,000 in February 2020 to around 150 clients per 1,000 in April 2020 (~32 percent decrease). CHIP, STAR, STAR Health and STAR Kids showed more substantial declines than STAR+PLUS and MMP. According to preliminary data through February 2021, utilization rates have not rebounded.

Subject matter experts in the workgroup proposed that rates fell at least partially due to a COVID-19 related policy change that authorized pharmacists to dispense 90-day prescription supplies instead of only 30-day supplies. However, upon further investigation, the policy did not explain the continued decrease in utilization since it was already in place for managed care and was only extended to include fee-for-service (FFS), while the utilization decrease was observed in both managed care and FFS. Another working theory suggested by the committee is that the sustained decrease in vendor drug utilization may be related to lower rates of other infectious diseases that typically require medications, primarily influenza, due to mitigation efforts in practice for the PHE, such as social distancing. This theory will be researched by examining if the decrease applies more frequently to certain drug categories.

Speech therapy utilization rates for clients less than 21 years of age decreased from around 16 clients per 1,000 in February 2020 to around 12 clients per 1,000 in April 2020 (~25 percent decrease). Similarly, physical therapy utilization rates for the same age group and time frame dropped from around six clients to four clients per 1,000 (~33 percent decrease) and occupational therapy utilization rates dropped from around eight clients to six clients per 1,000 (~25 percent decrease).¹ By February 2021, however, preliminary data indicates that all three types of therapy utilization have rebounded above the long-term mean.

¹ The service utilization percent changes cited in this section are different from those cited from the Rider 15 report in the Physical, Occupational, and Speech Therapy Monitoring section because the reports compare different months. However, the overall picture described is the same, i.e. an initial decline in service utilization rates, followed by a rebound.

An increase in delivering services via a remote modality for these therapies likely played a role in their relatively quick recovery. Teleservices had the greatest effect on speech therapy as none of these services were delivered remotely prior to the PHE but more than half (51%) of them were conducted remotely in April 2020. The percentage of remote speech therapy has plateaued to around 30% as of February 2021. Occupational therapy saw a large increase in teleservices as well during the PHE, from just a few remote services conducted in February 2020 to 27% of total OT in April 2020. Remote occupational therapy services remain around 14% through February 2021. Teleservices also had a modest impact on physical therapy as it went from 0% remote pre-pandemic to 11% in April 2020. Six percent of physical therapies are still being delivered remotely as of February 2021.

- Mental health service utilization rates decreased from around 27 clients per 1,000 in February 2020 to around 23 clients per 1,000 in April 2020 (~15 percent decrease). Preliminary data through February 2021 indicate that while the utilization rates seem to further gradually decline, the average number of monthly clients with services experienced a modest rebound, with a rise in the total number of clients in the late spring and early summer. This trend could suggest that some of the gradual decline in utilization may be due to increased client enrollment. Meanwhile, mental health services delivered through telehealth and telemedicine increased sharply, from 2-3 percent of clients receiving one or more teleservices by April 2020. Teleservices still make up about 50% of mental health utilization in February 2021.
- From February 2020 to April 2020, Substance Use Disorders (SUD) services decreased from 0.9 clients per 1,000 to 0.7 clients per 1,000 (~22 percent decrease). Preliminary data through February 2021 indicates that the average monthly number of clients served rebounded to pre-COVID levels, with a rise in the total number of clients in the late spring and early summer even increasing above average. The proportion of SUD services delivered through telehealth and telemedicine increased from virtually no clients receiving teleservices in February 2020 to over 20 percent of clients receiving one or more teleservices by April 2020 and about 15% services are still delivered remotely as of February 2021.
- Starting in 2020 Q4, the PDN data utilization per 1,000 client calculations have been revised to account for a limitation in the way the visualization software calculates denominators. Among members less than 21 years old,

PDN utilization rates dropped modestly from around 1.7 per 1,000 in February 2020 to around 1.6 per 1,000 in April (~6% decrease). The utilization rate appears to decrease further in subsequent months. However, the raw count of clients utilizing PDN rebounds and remains relatively stable. The downward trend in the utilization rate is likely an artifact of the denominator (enrollees) increasing during the pandemic, as more people qualified for services due to job loss and federal rules against removing people from Medicaid or CHIP. It is important to note that utilization rates for services with low client numbers are more sensitive to changes in the client pool eligible for the services, i.e., the utilization rate denominator.

- Similar to the PDN datasets, the PCS utilization per 1,000 client calculations have been revised starting in 2020 Q4 to account for a limitation in the way the software calculates denominators. Among members less than 21 years old, the utilization trend decreased modestly from around 4.3 in March 2020 to 4.1 in April 2020 (~4.7%). The utilization rate appears to decrease further in subsequent months. However, the raw count of clients utilizing PCS rebounds and seems relatively stable. The downward trend in the utilization rates is likely an artifact of the denominator (enrollees) increasing during the pandemic, as more people qualified for services due to job loss and federal rules against removing people from Medicaid or CHIP. It is important to note that utilization rates for services with low client numbers are more sensitive to changes in the client pool eligible for the services, i.e., the denominator.
- While utilization across the spectrum of services decreased, the proportion of services delivered through telehealth and telemedicine increased sharply, both in terms of utilization rates and costs per client during the PHE. As members avoided in-person care, teleservices became the substitute when possible. Monthly clients using telehealth/telemedicine across all programs increased from about 18,000 in February 2020 to about 400,000 in April 2020 (representing nearly 1 in 10 clients), plateauing above 300,000 clients per month as of February 2021. The rate of clients utilizing teleservices varied by program, SDA, and MCO, with about 1 in 20 clients in CHIP utilizing teleservices, up to more than 3 in 10 STAR Health clients.
- Like telehealth and telemedicine services, telemonitoring experienced an uptick in utilization during the COVID-19 PHE. However, because its application is limited to certain diseases (i.e. hypertension and diabetes), increased utilization was not nearly as widespread as telehealth and telemedicine. The utilization rate increased from 1.9 per 1,000 in February 2020 to 2.2 per 1,000 in April (~16 percent). Looking at the preliminary data

through February 2021, the monthly utilization rate plateaus around 2.0 clients per 1,000.

COVID-19 Dashboards and Studies

Since January 2021, MCDA has been posting external dashboards displaying the numbers and rates of Medicaid and CHIP clients receiving COVID-19 tests or receiving a service with a diagnosis of COVID-19, including emergency department visits and inpatient stays. The dashboards are updated quarterly. In SFY21 Q4, MCDA refreshed the dashboards with data through February 2021.

MCDA continues to assist with HHSC's study of the impact of COVID-19 on vulnerable Texans by participating in research planning and analysis and by adding demographics to its service utilization dashboards to allow for comparison of service utilization patterns across various client populations. By the end of SFY21 Q4, MCDA had added demographics to the ED, inpatient, well-child, and teleservices dashboards to help guide the next phase of the research.

In SFY21 Q4, MCDA conducted an analysis of the effects of COVID-19 on influenza diagnoses and treatment in the winter of 2020. MCDA also looked into Medicaid and CHIP administered COVID-19 vaccinations by program, month, and age group. MCDA continues to work with the Texas Department of State Health Services' Immunization Department in obtaining a data use agreement to identify the rates of COVID-19 vaccination among Medicaid and CHIP members, including those members who have received their COVID-19 vaccines outside of the Medicaid and CHIP programs.

Physical, Occupational, and Speech Therapy Monitoring

MCDA continues to closely monitor physical, occupational, and speech therapy utilization rates in compliance with Rider 10 of the 2020-21 General Appropriations Act, HB 1, 86th Legislature, Regular Session, 2019 (Article II, HHSC). MCDA prepared analyses on client service utilization, provider network adequacy, and services provided to clients while on wait lists, for inclusion in the October 2021 Rider 15 report.

Highlights of the report include the following:

• The PHE temporarily decreased the rate at which children received a therapy service in FY 2020. From January to March 2020, the physical therapy utilization rate dropped 44 percent. Speech therapy and occupational therapy

utilization rates both fell more than 30 percent. The decrease occurred across the STAR, STAR Health and STAR Kids programs. However, from March 2020 to December 2020, utilization rates for different therapy types bounced back more than 40 percent on average, making up much of the reduction observed at the beginning of the PHE.²

- The COVID-19 public health emergency (PHE) caused about a 13 percent drop in active providers from February to April 2020. However, by December 2020, the number of active providers rebounded above their February 2020 levels. Generally, over time, variations in the overall trend for active providers reflect changing participation by independent therapists.
- HHSC analyzed and reviewed therapy encounters for 150 of the 156 clients reported on a waiting list in September, October and November 2020. Within three months, 97 (65 percent) of these members received a therapy service.

For more information, the reader is referred to the report: <u>https://www.hhs.texas.gov/sites/default/files/documents/laws-regulations/reports-presentations/2021/quarterly-therapy-access-monitoring-june-2021.pdf</u>

Behavioral Health

In SFY21 Q4, MCDA continued to revamp its dashboard on psychotropic medications to focus on the information most commonly requested by MCS leadership. The dashboard will feature best practice parameters, including use of polypharmacy, first developed to monitor psychotropic medication use among foster care children due to concerns over overprescribing. Since 2004, HHSC has updated these measures annually in the Use of Psychotropic Medications for Children in Texas Foster Care report. The most recent report, for SFY19, can be found at https://hhs.texas.gov/sites/default/files/documents/laws-regulations/reports-presentations/2021/psychotropic-meds-tx-foster-care-fy2002-2019.pdf. This quarter, MCDA pulled final SFY20 data for the next annual analysis.

This quarter, MCDA began modifications to a quarterly report on the Interstate Compact on the Placement of Children (ICPC) to bring it into closer alignment with the annual psychotropic dashboard report.

² The service utilization percent changes cited in Rider 15 are different from those cited in the Service Utilization Monitoring During COVID-19 section in this report because the reports compare different months. However, the overall trend described is the same, i.e. an initial decline in service utilization rates, followed by a rebound.

Enrollment

Another tool developed by MCDA to help investigate data variations is the Monthly Enrollment Report. The data in this report alerts the team to fluctuations in enrollment or Medicaid program rollouts which might impact service utilization. Enrollment data also provides the denominators used in utilization rates, which normalizes the rates to aid in direct comparisons between, for example, MCOs. The one-page enrollment report is distributed widely to MCS and other HHSC staff. Its use has resulted in efficiencies by replacing ad hoc data requests historically managed by DAP and HHSC Forecasting with a self-service alternative. Because the report is vetted by Forecasting before its release, its use also improves consistency in reporting. MCDA is currently developing a corresponding interactive dashboard to provide staff with a self-service platform to filter for the data needed without requiring a special ad hoc request from DAP or Forecasting.

3. Enhancing Data Infrastructure

MCDA Platform

The work MCDA conducts depends on a robust, reliable, and flexible data system. In conjunction with TMHP, MCDA developed a platform that allows analysts to access data stored at TMHP more quickly than the original process of pulling the data over an internet connection. The platform contains two servers, numerous software applications used by MCDA staff to perform analysis and reporting, and a Tableau server used by MCDA staff to produce dashboards. The platform houses other data produced by MCDA staff, such as Medicaid and CHIP enrollment data, MCO self-reported quality measures, professional licensure data, and the Analytical Data Store (ADS, described under Data Marts in the following section). MCDA regularly tests system upgrades, performs quality control, and collaborates with TMHP staff to detect and correct errors and address any system performance issues.

Data Marts

MCDA's TMHP platform houses the PTOTST and Behavioral Health (BH) Data Marts, designed to allow quick and detailed analysis of trends and variations. The PTOTST Data Mart contains the most recent seven years of data on therapy encounters, forming the basis for analysis and visualization of such variables as cost and utilization measures by factors such as year, MCO, Service Delivery Area, and Managed Care program. The current BH Data Mart, updated annually, houses behavioral health related services and non-behavioral health data to allow analysis of co-morbidities. For instance, using the BH Mart, analysts have explored differences in the behavioral health diagnoses and services by children receiving psychotropic medications in STAR, STAR Health, and STAR Kids.

The ADS is a 'Best Picture' view of the claims and encounter data, meaning that it contains only the most current version of a transaction. ADS offers a cohesive blend of managed care and fee-for-service medical and pharmacy data, allowing a holistic view of a provider or member at the time a service took place. The ADS has become the preferred source for blended claims/encounters data and is accessible to MCDA and other DAP teams via the Data Analytics Platform.

In SFY21 Q4 MDCA has worked with TMHP to enhance ADS with additional variables which will improve the accuracy and consistency of analyses. These enhancements include creating a more precise age category field, a detail level service location

address (address of where a service took place), indicators for Women's Health, teleservices, and the Medically Dependent Children's Program, as well as calculated fields for inpatient episodes of care length of stay days that span the entire episode of care (which may represent multiple claims/encounters). Some of these new fields have been completed and are currently in use, while others are still in the development and testing stages.

4. Goals for Next Quarter

In SFY22 Q1, MCDA will build on the work it is conducting on MCS key initiatives and other projects, including the following:

COVID-19 Analysis

The COVID-19 testing and diagnosis dashboards will continue to be refreshed on a recurring basis. MCDA will also continue to assist with the analysis and writing of the COVID-19 study (being led by the Research and Evaluation Unit within DAP) on the impact of COVID-19 on vulnerable Texans, including those who receive services through the Medicaid program. MCDA will begin to use the enhanced dashboards (including demographics) as the basis for quarterly anomaly detection. Resulting observations will be communicated to the Research and Evaluation Unit as a guide to further research.

Complaints Dashboards

HB 4533 requires HHSC to make aggregated complaint data available to the legislature and public. MCDA will continue to clean and aggregate data from the HHSC Office of the Ombudsman, HHSC Division of Medicaid and CHIP Services, and self-reported data from the MCOs. MCDA will also provide complaint-level data files to the External Quality Review Organization to begin to incorporate into the MCO report cards.

Prior Authorization Data Collection and Dashboard

In the coming quarter MCDA will continue to perform ETL on the MCO deliverables. This ETL process will occur on an agreed upon monthly schedule until the design for the system for collecting client level PA data is finalized and implemented. Two MCOs have passed training partner training and are expected to begin submitting detail prior authorization data in September. HHSC is working with the remainder of the MCOs to develop action plans for finalizing trading partner testing and submitting detail data. For these MCOs, the action plan will include submitting historical data back to September 2021.

Utilization Review

MCDA continues to help the UR Team prepare for their annual reviews of clients receiving services under the STAR+PLUS Home and Community Based Services (HCBS) program and the Medically Dependent Children Program (MDCP) Waiver within the STAR Health and STAR Kids programs. The purpose of these legislatively mandated reviews is to monitor the appropriateness of care delivered by MCOs to these vulnerable populations. MCDA provides sampling consultation to ensure the reviews adequately represent the targeted populations. In SFY22 Q1, MCDA will pull the SFY22 HCBS random sample and associated client data.

Compliance Dashboards and ETL

MCDA will continue to conduct careful quality assurance on the incoming deliverables and any resubmissions to ensure accurate measurement of MCO contract compliance. In addition, 30-day and 45-day deliverable data refreshes for SFY21 Q4 will be conducted.

Service Utilization Dashboards

In the coming quarter, all service utilization dashboards will be updated with the most recently available final data, covering the first quarter of SFY21 and preliminary data through SFY21 Q3.

Trend and Anomaly Detection

The ninth complete cycle of MCDA's quarterly control limits approach to detection of data variation signals will be implemented, culminating in a meeting in late October 2021 of the Service Utilization Workgroup. Specific findings related to ongoing impacts from COVID-19 on service utilization patterns will be discussed by the workgroup. Also, in the coming quarter, MCDA staff will conduct follow-up investigations suggested by the workgroup in its July 2021 meeting.

ADS

In SFY22 Q1, MCDA and TMHP will continue its collaborative work on enhancements to the ADS. Upcoming upgrades include a flag to more readily identify inpatient hospitalization episodes of care and a pre-calculated field with the number of days in each episode. A separate flag will help analysts distinguish which services were received through the HTW program or the HTW Plus program, and which services were paid for through Medicaid or general revenue.

Enhancing Data Infrastructure

Given the breadth of the MCDA dashboard library, it is a resource-intensive endeavor to continuously carry out the ongoing updates necessary to keep the data as current as possible. To increase the efficiency of this process, MCDA is investigating the feasibility of using Tableau Python Server (TabPy) to automate these dataset refreshes. TabPy is an external server implementation which allows the execution of Python scripts on Tableau. MCDA is also exploring the use of Microsoft Power BI as a method for increasing the efficiency of its ETL processes.

5. List of Acronyms

| Acronym | Full Name |
|----------|--|
| ADS | Analytical Data Store |
| APD | Advance Planning Document |
| вн | Behavioral Health |
| СМЅ | Centers for Medicare and Medicaid Services |
| СНІР | Children's Health Insurance Program |
| COVID-19 | Coronavirus Disease of 2019 |
| DAP | Office of Data, Analytics, and Performance |
| DME | Durable Medical Equipment |
| EC | Executive Commissioner |
| ED | Emergency Department |
| ETL | Extract, Transform, and Load |

| Acronym | Full Name |
|---------|--|
| EQRO | External Quality Review Organization |
| FFS | Fee-For-Service |
| НВ | House Bill |
| HCBS | Home and Community Based Services |
| ннѕс | Health and Human Services Commission |
| нтw | Healthy Texas Women |
| мссо | Managed Care Compliance and Operations |
| MCDA | Medicaid CHIP Data Analytics |
| мсо | Managed Care Organization |
| MCS | Medicaid and CHIP Services |
| MDCP | Medically Dependent Children Program |
| МН | Mental Health |
| ММС | Medicaid Managed Care |

| Acronym | Full Name |
|---------|--|
| ММР | Medicare-Medicaid Plan |
| OIG | Office of Inspector General |
| от | Occupational Therapy |
| ΡΑ | Prior Authorization |
| PCS | Personal Care Services |
| PDN | Private Duty Nursing |
| РНЕ | Public Health Emergency |
| РТ | Physical Therapy |
| PTOTST | Physical, Occupational, and Speech Therapy |
| QPR | Quality Performance Report |
| SB | Senate Bill |
| SDA | Service Delivery Area |
| SFY | State Fiscal Year |

| Acronym | Full Name |
|---------|---|
| ST | Speech Therapy |
| SUD | Substance Use Disorder |
| TabPy | Tableau Python Server |
| ТМНР | Texas Medicaid & Healthcare Partnership |
| UR | Utilization Review |
| VDP | Vendor Drug Program |