Nevada Medicaid Cost Driver Analysis [Revised: Version 2]

November 2022



Department of Health and Human Services

Office of Analytics

On behalf of the Division of Health Care Financing and Policy

Steve Sisolak Governor State of Nevada **Richard Whitley, MS** Director Department of Health and Human Services

Contents

Background and Purpose2
Methodology2
Definitions
Executive Summary4
Analysis5
Per Member Per Month (PMPM) Spend5
Spend by Plan Type6
Spend by Service Category
Spend by Demographics10
Geography10
Age12
Gender13
Conclusions and Policy Implications14
Next Steps

Background and Purpose

The Nevada Patient Protection Commission (PPC), Office of the Director, Department of Health and Human Services (DHHS), was created through a Governor sponsored bill in 2019 that was codified at NRS 439.902 - NRS 439.918. The commission is charged with systemically reviewing issues related to the quality, accessibility, and affordability of health care in Nevada; and in so doing, making informed recommendations to the Nevada Governor's Office, the Legislature, DHHS, local health authorities and any other person or governmental entity. Under the guidance of the Patient Protection Commission (PPC), the Office of Analytics (OOA), DHHS, is participating in the Peterson-Milbank Program for Sustainable Health Care Costs. This initiative aims to improve the affordability and transparency of Nevada's health care by setting cost benchmarks and assisting policy makers in implementing growth plans.

On December 27, 2021, Nevada Governor Steve Sisolak issued *The Nevada Health Care Cost Growth Benchmark* (Executive Order 2021-29) in which the health care cost growth target is established for 2022 through 2026. This Executive Order sets a benchmark of 3.19 percent cost growth for year 2022 when compared to the prior year's spend. The intent of this order is to curb the climbing health care costs for all residents of Nevada, regardless of pay and provider.

According to the Kaiser Family Foundation, State Health Facts, Nevada had a 4.6 percent average annual per capita growth rate in health care expenditures (1991 - 2014)¹. Nevada Medicaid is the largest provider of health coverage in Nevada, covering approximately one in four Nevadans. Medicaid accounted for 30 percent of State expenditures in Fiscal Year 2021, with a year-over-year caseload growth of 215,324 Nevadans, or 33.5 percent.

The purpose of this report is to monitor the per capita health care cost growth of Nevada's Medicaid population. In future years, and as data become available for additional payers through the development of Nevada's All Payer Claims Database, this report will be expanded to encompass additional insurance market data to measure statewide health care spending across all payers and markets.

Methodology

This report relies on Medicaid claims data (Fee-for-Services (FFS) and Managed Care Organizations (MCO)) extracted from the Nevada Medicaid Data Warehouse for the years 2016 through 2020. In addition to a comprehensive market analysis, claims have been analyzed at five levels, including spend by:

- Plan Type
- Service Category
- Geography
- Age
- Gender

¹ Kaiser Family Foundation, State Health Facts, <u>https://www.kff.org/other/state-indicator/avg-annual-growth-per-capita/?currentTimeframe=0&sortModel=%7B%22colId%22:%22Location%22,%22sort%22:%22asc%22%7D</u>. Accessed June 1, 2021.

In March of 2020, Nevada declared a State of Emergency in response to the COVID-19 pandemic. While essential health care services were permitted to stay open, health care providers had to adjust the delivery of health care services. Routine patient services were postponed or cancelled during this time. Additionally, non-essential businesses were closed, causing an increase in unemployment which led to a 35 percent increase in Medicaid enrollment.

Nevada's Medicaid enrollment also increased due to the Division of Welfare and Supportive Services, DHHS, federally mandated pause on redeterminations in line with the public health emergency. Due to this pause, the eligible population has mostly maintained their coverage since March 2020. Simultaneously, OOA observed lower utilization patterns through the pandemic, thought to be driven by personal choice of both consumers and providers to limit exposure. Because of these factors, the figures presented for Calendar Year (CY) 2020 greatly differ from the CY 2016-2019 mean. More specifically, data from CY 2020 is likely lower that what would have been experienced in a more typical year for health care delivery. While this report includes 2020, the trend analysis will focus on the pre-pandemic CYs 2016 through 2019.

Paid claims and encounters were used in this analysis and therefore the MCO spend is reflective of the cost of care to the managed care organizations and not the direct capitation cost to the State of Nevada. For technical notes and tables to correspond with the charts in this report, please refer to the appendices.

Definitions	
Per Member Per	Monthly Spend / Unique Member Monthly Enrollment. Average annual
Month (PMPM)	PMPM is the amount paid on a monthly basis for each member averaged over
	the 12-month period in the CY.
Utilizer	Members with an associated billing claim for the given month.
Non-Utilizer	Members without an associated billing claim for the given month.
Per Utilizer Spend	Monthly Spend / Unique Monthly Utilizers. This calculation includes only
	members who have an associated billing claim for the given month.
Utilization	The frequency at which utilizers are accessing services. The monthly total
	number of claims or visits submitted and then averaged over the 12-month
	period (CY).
Volume	Number of visits for services or filled days for prescription drug claims / Total
	Utilizers for a given month averaged over the 12-month period.
Fee-for-Service (FFS)	Nevada Medicaid sets rates and pays providers directly for services provided
	to recipients. A fee for service rate is reimbursement for specific services
	provided, like an office visit or lab test. These payments are made after the
	service is provided to the recipient. FFS is available to people who live outside
	urban counties or members who are aged, blind, and/or disabled.
Managed Care	Medicaid managed care plans are paid a per member per month contracted
Organization (MCO)	rate (capitated rate) based on client demographics, projected utilization, and
	plan administrative costs. Monthly capitated payments are made to the
	MCOs in advance, creating a pool of funds from which the MCO reimburses
	for provided services and uses to cover administrative costs. Managed care is
	only available in Clark and Washoe counties.

Numbers in this report may not match exactly with previous versions.

Annual percentage growth rate

Calculated percentage change based on the prior year.

Executive Summary

This report considers trends in spend and utilization for medical care and prescription drugs through Nevada Medicaid from 2016 to 2020. Throughout the report, analyses are broken down into five service categories: inpatient hospital, outpatient hospital, professional services, dental services, and pharmacy services. Trends are based on the per member per month (PMPM) spend, averaged annually. The baseline year for future analyses will be 2021, and the first performance year is 2022. Future reports will be based on trends observed over a multi-year period.

We find that overall pre-pandemic PMPM spend grew 17.2 percent from 2016 to 2019, and subsequently declined by 4.6 percent from 2019 to 2020 for a net increase of 11.9% since 2016. When we consider the entire analysis period from 2016 to 2020, PMPM spending growth averaged 3.3 percent. Over the four-year pre-pandemic period from 2016 to 2019, year-over-year spending growth averaged 5.5 percent per year.

We can compare growth in Medicaid spend to growth in per-capita gross domestic product (GDP) and median wage, as these were factors that contribute to the cost growth benchmark defined in the Governor's Executive Order. Average annual growth in per-capita gross domestic product (GDP) was 4.2 percent² over the same period (2016 to 2019). The year-over-year health care cost growth exceeded the growth of per-capita GDP by 1.3 percent. Per capita GDP is a measure of a state's output per person. Spend also exceeded growth of the Nevada median wage. For comparison, the Nevada median wage had an average annual increase of 1.8 percent (year over year 2016-2019) and a net increase of 6 percent from 2016 to 2019.

In 2019, PMPM spend reached an all-time high for Nevada's Medicaid population, at \$415, before declining to \$396 in 2020. The greatest single year increase in the observed period (+8.6 percent) took place from 2018 to 2019, when the average monthly PMPM rose from \$382 to \$415.

Higher PMPM spend was observed consistently among the fee-for-service (FFS) population when compared to the managed care (MCO) population. More specifically, FFS spend increased from 2016 (\$683) to 2020 (\$828) for an average annual increase of 5.1 percent. MCO spend increased 27.2 percent from 2016 (\$206) to 2019 (\$262) but subsequently decreased by 8.6 percent in 2020 (\$239). The overall average annual increase from 2016 to 2020 was 4.1 percent.

Prior to CY 2020, PMPM spend increased in all service categories considered in this report. While all service categories show health care costs growing, long-term care and outpatient claims observed the highest percentage increase from 2016-2019, at 27 percent and 21 percent.

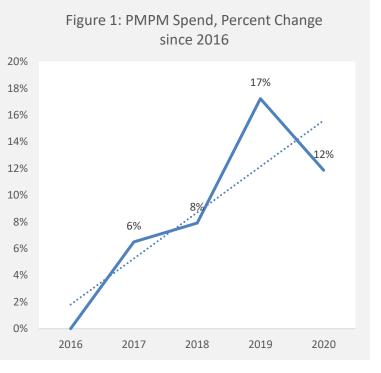
Analysis

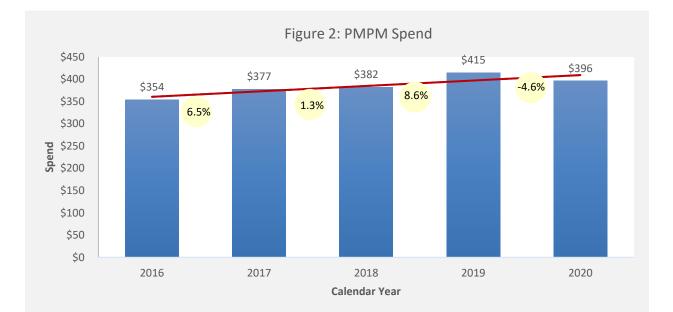
Per Member Per Month (PMPM) Spend

This report drills down in Nevada Medicaid spending, volume, and average price for medical care spanning a five-year period from CY 2016 through 2020. PMPM costs increased 17 percent in the pre-pandemic years of 2016 to 2019.

The average annual PMPM spend increased from \$354 in 2016 to \$415 in 2019. From 2019 to 2020, the average PMPM decreased from \$415 to \$396, a decrease of 4.6 percent. The average monthly enrollment of members increased 8.4 percent in 2020 from 2019. Prior to CY 2020, the average cost growth per year was 5.5 percent with the greatest increase appearing from 2018 to 2019.

Figure 1 to the right represents the percent change in growth over the five-year period, using 2016 as the base year.

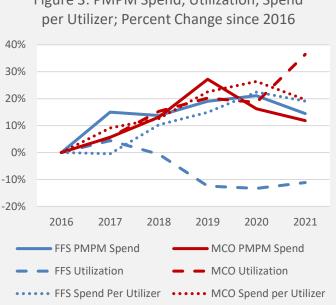


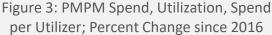


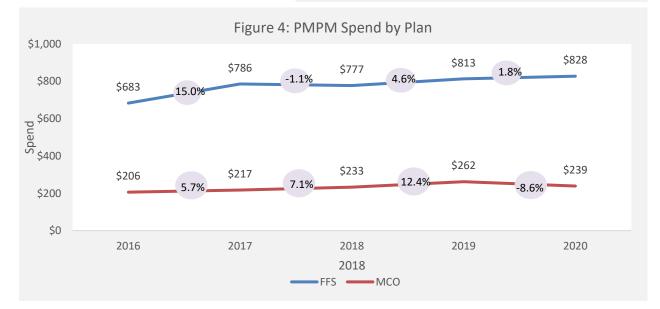
Spend by Plan Type

Nevada Medicaid has two plan types, FFS and MCO. Persons who live in rural and frontier counties are placed in FFS. In addition, FFS enrollees include the portion of the population who are aged (65 years and blind, and/or disabled older), (ABD), regardless of geographic location.

FFS is the smaller share of the Medicaid population (currently at about 30 percent) compared to members enrolled into an MCO benefit plan which covers members who reside in the urban areas of Washoe and Clark counties. However, because individuals who are eligible for Nevada Medicaid under the ABD aid category are a high-cost subgroup, they drive up FFS costs in general.



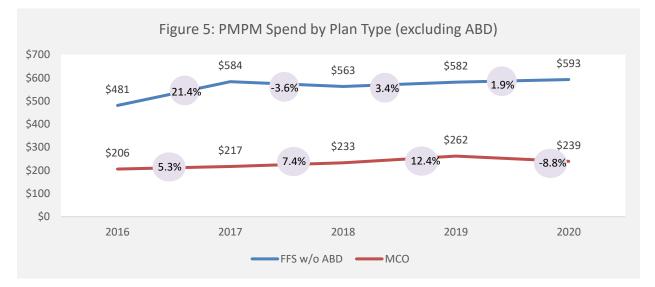




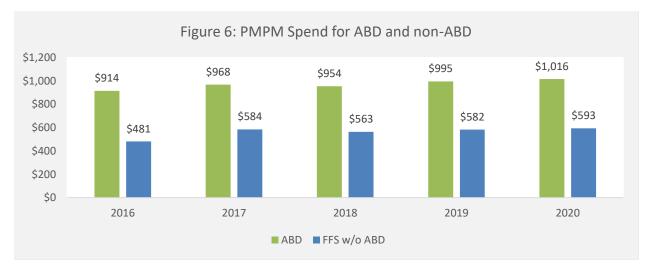
Growing health care costs are present in both plans. Although FFS utilization has trended down since 2017, the PMPM spend has climbed presenting a net increase of 19 percent from 2016 to 2019. The MCO population has shown a net 27.2 percent increase in PMPM spend from 2016 to 2019, as well as a steady utilization increase. While the PMPM declined from 2019 to 2020, utilization remained stable.

PMPM spend has increased for both plan types from 2016 to 2019. The average annual percent increase was 6.2 percent in the FFS population and 8.4 percent in the MCO population. However, when the 2020 PMPM is factored into the calculation, the average percent increase is reduced to 5.1 percent for FFS and 4.1 percent for MCO.

As mentioned previously, it is important to acknowledge the outliers in the FFS population specific to the ABD population. When excluding the ABD eligible population from FFS, we identify a different overall PMPM trend. FFS PMPM, excluding the ABD population, increased by 21.4 percent from 2016 to 2017 and subsequently declined 3.6 percent from 2017 to 2018. In 2019 and 2020, FFS PMPM excluding ABD increased by 3.4 percent and 1.9 percent, respectively. Still, PMPM spend for FFS excluding ABD is consistently higher than that for the MCO population.



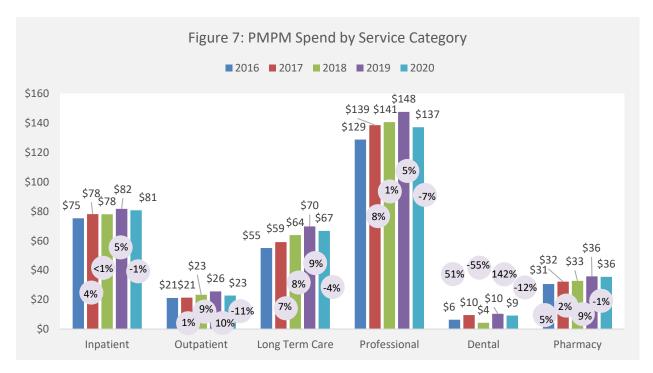
In general, the PMPM cost for ABD eligible Medicaid members is more than two times that of other FFS eligible members. In 2019 the PMPM for the ABD population was \$995 while the PMPM for the non-ABD FFS population was \$582. In 2020, where a general decline in spend was observed nearly across the board, Nevada Medicaid saw an increase in PMPM spend for the ABD population of 2.1 percent. It is important to note that 81 percent of the population residing in rural and frontier counties (FFS covered) reside in a designated health professional shortage area (HPSA)₂. This also contributes to a higher PMPM spend.



²University of Nevada, Reno, School of Medicine, Office of Statewide Initiatives, Nevada Rural and Frontier Health Data Book – 10th Edition page 166 Table 5.48, https://med.unr.edu/statewide/reports-and-publications/nevada-rural-and-frontier-health-data-bookFebruary 2021. Accessed September 18, 2021

Spend by Service Category

Medicaid health care claims were categorized into six categories: Inpatient Hospital, Outpatient Hospital, Long-Term Care, Professional, Dental, and Pharmacy. The pharmacy spend below incorporates manufacturer rebates which occur in later transactions. To estimate pharmacy spend after rebates, a weighted average of the annual rebate percentage was calculated for the 5-year period and then deducted from annual pharmacy spend prior to the PMPM calculations below. Rebate amounts could occur at any time. After rebate adjustments were applied, average annual pharmacy PMPMs averaged \$33 from 2016 to 2020, with the highest PMPM observed at \$36 in 2019 and 2020.



Prior to CY 2020, PMPM spending increased in all service categories. Spend per visit has also increased across the board, while patterns in utilization have fluctuated by service category.

		2016			2019	
SERVICE CATEGORY	PMPM	Utilization	\$ per Visit	PMPM	Utilization	\$ per Visit
INPATIENT HOSPITAL	\$75	10,286	\$4,821	\$82	10,694	\$5,209
OUTPATIENT HOSPITAL	\$21	53,629	\$243	\$26	58,652	\$284
LONG-TERM CARE	\$55	151,453	\$6 <i>,</i> 068	\$70	161,145	\$6,408
PROFESSIONAL	\$129	540,182	\$124	\$148	540,699	\$146
DENTAL*	\$6	28,811	\$151	\$10	36,340	\$195
PHARMACY	\$31	332,491	\$61	\$36	351,054	\$70

Table 1: PMPM, Utilization, and Spend per Visit, 2016 and 2019

	CY 2016	-	CY 2019	CY 2019	-	CY 2020
SERVICE CATEGORY	PMPM	Utilization	\$ per Visit	PMPM	Utilization	\$ per Visit
INPATIENT HOSPITAL	8%	4%	8%	7%	2%	18%
OUTPATIENT HOSPITA	L 21%	9%	17%	8%	-2%	26%
LONG-TERM CARE	27%	6%	6%	21%	-1%	14%
PROFESSIONAL	15%	<1%	17%	6%	-2%	21%
DENTAL*	64%	26%	29%	45%	10%	41%
PHARMACY	17%	6%	15%	16%	6%	22%
MONTHLY ENROLLMENT	2016	2017	2018	2019	2020	2016-2019 %+/-
AVERAGES	657,877	681,803	693,007	681,387	738,808	4%

Table 2: PMPM, Utilization, and Spend per Visit; Percent Change since 2016.

*Please note that the percent change shown in the dental claim service category is due to a change in billing policy and does not represent a price increase

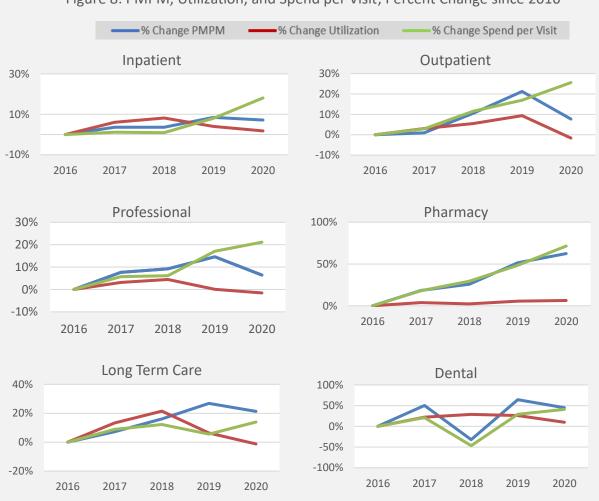


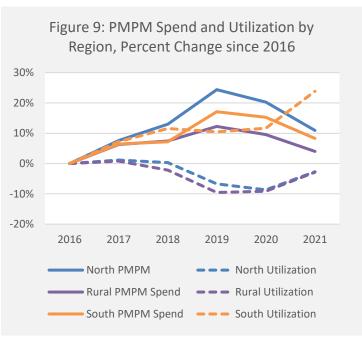
Figure 8: PMPM, Utilization, and Spend per Visit; Percent Change since 2016

Spend by Demographics

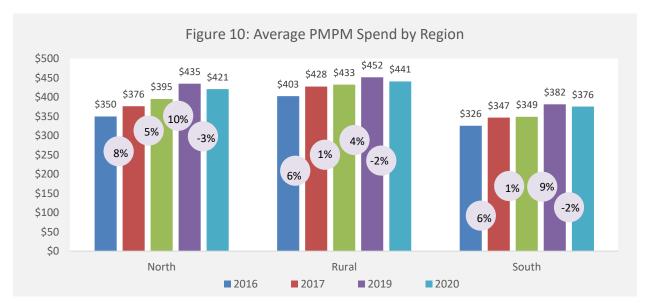
Geography

The unique geography of Nevada calls for a regional split of the Northern region, comprised of Washoe County and Carson City; the Southern region, comprised of Clark County; and the rural region, comprised of Douglas, Storey, Lyon, Humboldt, Pershing, Churchill, Mineral, Esmeralda, Nye, Elko, Lander, Eureka, White Pine, and Lincoln counties.

Utilization tracks similarly in the Northern and Rural regions, both showing a decrease from 2016 to 2019 and remaining somewhat consistent from 2019 to 2020. In the South, utilization increased 12% from 2016 to 2020, with most of the increase occurring from 2016 to 2017, and then remaining relatively flat from 2018 to 2020.



As utilization steadied or decreased, PMPM costs peak in 2019 for all regions. PMPM cost was consistently highest in Rural Nevada, at \$452 in 2019 and \$441 in 2020. Northern Nevada and Southern Nevada had PMPM costs of \$435/\$382 respectively in 2019 and \$421/\$376 respectively in 2020.



²University of Nevada, Reno, School of Medicine, Office of Statewide Initiatives, Nevada Rural and Frontier Health Data Book – 10th Edition page 166 Table 5.48, https://med.unr.edu/statewide/reports-and-publications/nevada-rural-and-frontier-health-data-bookFebruary 2021. Accessed September 18, 2021

Increases to PMPM costs are typically either driven by increases in utilization and/or increases in cost per service and not spend per utilizer. This page is included as an exception to provide a deeper analysis into geographic areas. This only includes members who utilized services during the time period. Per utilizer spend increased in all regions at similar rates, but the highest increase was shown in the Northern region. The pie chart below shows the average percent of members who utilize services monthly. The average annual percent of utilizers remains steady with about 40% of enrolled members accessing services per month.

When drilling down to the price per utilizer, costs increased without pause over the 5-year period. The cost increase could be attributed to rising prices or additional resources used to treat patients. Further analyses are needed to determine the cause.

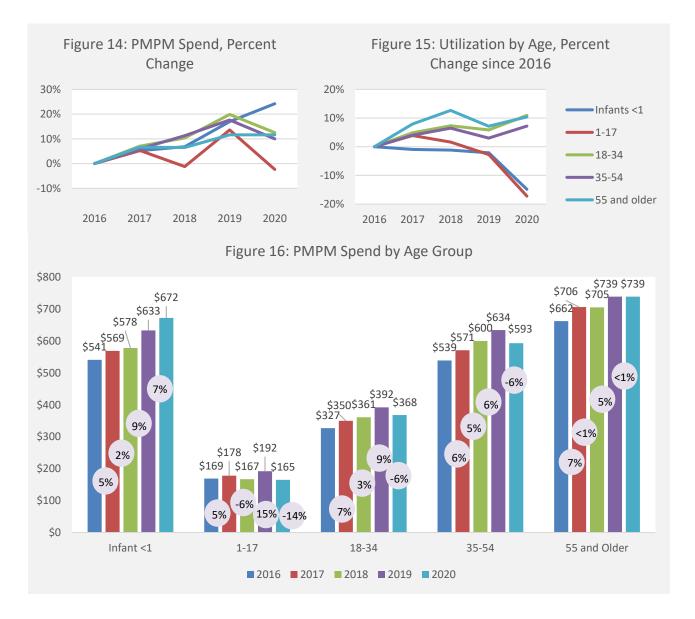


Age

Spending varies greatly by age group. Medicaid recipients aged 1 through 17 years had the lowest PMPM costs while adults aged 55 years and older had the highest PMPM costs. PMPM spend consistently grew from 2016 through 2019 for all age groups. The highest increase in PMPM spend occurred in the adult population (ages 18-34), where spend increased 19.9% from 2016 to 2019. However, the highest increase in PMPM spend through 2020 occurs in the infant population at 24.5 percent. PMPM spend increased in adult Medicaid members ages 18-54 by 18 percent from 2016 (\$433) to 2019 (\$513).

Utilization decreased for infants, children, and adolescents ages 17 years old and younger since 2017 and increased in the adult populations.

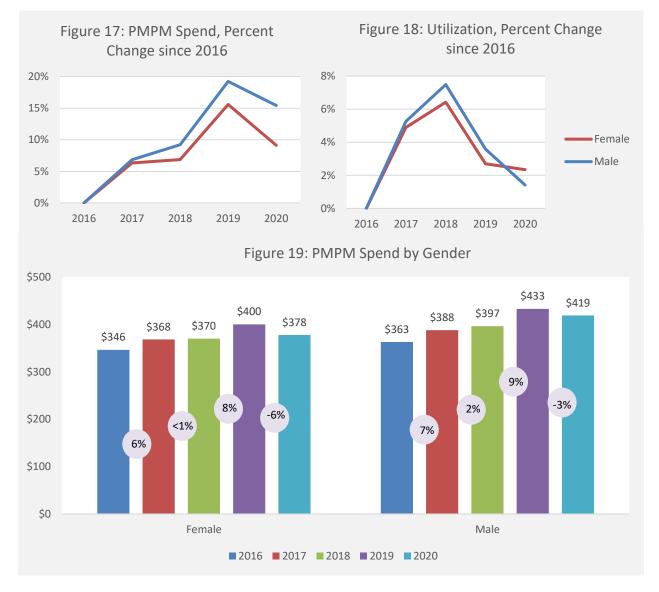
Adults aged 65 and older are eligible for Medicare. However, if these adults meet the income threshold for Medicaid, they are dually covered by Medicare and Medicaid FFS.



Gender

PMPM spend has grown consistently for men and women at an average annual increase of 5% for women and 6% for men from 2016 to 2019. For women, average annual PMPM spend increased from \$346 in 2016 to \$400 in 2019, and subsequently decreased by 5.6 percent from \$400 to \$378 in 2020. For men, the average annual PMPM spend increased 19 percent from \$363 in 2016 to \$433 in 2019, and subsequently decreased by 3.2 percent from \$433 to \$419 in 2020.

Men are growing slightly in utilization than women, however, still utilize their Medicaid benefits less frequently. Men also have a slightly higher growing health care cost as shown in the PMPM spend percent change. The percent change in utilization shows an increase in 2016–2018 and then a decline from 2018-2020.



Conclusions and Policy Implications

The four-year average annual cost growth from 2016 to 2019 is demonstrated to be 5.5 percent. This is higher than the health care cost growth target which was set at 3.19 percent by the Governor's Office in the 2021 Executive Order. In CY 2020, Nevada Medicaid shows either a decrease or a stabilization in utilization in almost every subcategory, while enrollment increased due to the COVID-19 pandemic, which results in a lower overall PMPM spend. However, in the instances where spend per utilizer is shown, increases in spend continue through 2020.

With PMPM spend increasing as utilization declines, we find that health care cost growth in Nevada Medicaid is driven primarily by increases in spend per utilizer rather than increased utilization.

The FFS plan type is significantly more costly than MCO on a per member level, largely driven by the ABD population.

The highest proportion of PMPM spend within Nevada Medicaid is spent on professional services, although spend in this service category is largely driven by utilization and not high costs per service. Inpatient hospitalizations and long-term care contribute to the second and third highest spend categories for Nevada Medicaid and have significantly higher costs per service.

Geographically, PMPM spend is highest in Rural Nevada while utilization volume is concentrated in Southern Nevada. When we consider spend per utilizer, Northern and Southern Nevada are similar, while Rural Nevada observes a higher monthly cost per utilizer. Northern Nevada experienced the highest growth rate in PMPM spend, at 24.4 percent from 2016 to 2019. Southern Nevada experienced PMPM spend growth of 17.1 percent over the same period. Finally, Rural Nevada saw PMPM spend increase 12.3 percent over those four years. In any given month approximately 30.9 percent of Nevada's Medicaid members utilize health care; 30.3 percent utilize services in southern Nevada, while 6.2 percent utilize services in rural Nevada.

Adults aged 18-34 and infants drive PMPM spend by age group, followed by adults aged 35-54 years old. From 2016 to 2019, adults aged 18-34, observed the highest average annual PMPM growth at 6.3 percent year over year. Infants aged less than 1 year old were the only age group to observe a PMPM increase from 2019 to 2020, up 6.7 percent year over year.

Men utilize their Medicaid benefits less frequently than women; however, they have a slightly faster growth in health care cost. In the period from 2016 to 2019, men and women experienced PMPM cost growth of 19.2 percent and 15.6 percent, respectively.

If Nevada Medicaid spend continues to grow at the current rate, and if that rate is comparable in other markets, then the growth rate will continue to exceed the cost growth benchmark of 3.19 percent (2022) as set in the Governor's Executive Order.

Next Steps

This report succeeds in completing the first iteration of an annual health cost driver analysis for Nevada Medicaid by providing a baseline cost growth rate and creating the discussion for the next set of reports

to be developed. Future phase two analyses will include more specific drill down reports which will inform policy makers where to direct resources to mitigate the growing health care cost within Nevada Medicaid.

A major area of interest generated in the completion of this report is primary care investment. As discovered, there is a considerable difference in the number of members who are utilizing services and the number of members who are enrolled. Proper primary care investment would show members utilizing primary care providers more frequently. To gauge the investment and return of primary care prevention, the study will include an in-depth look at the use of primary care providers in the overall population and will also include a comparison of primary care provider use and outpatient hospital use. In addition, Further analysis will also include a drill down into the utilization patterns of members, and a study of chronic disease. These additional drill down reports will be released in late 2022/early 2023.

Under the oversight of the PPC, the Office of Analytics will also work in collaboration with the Division of Health Care Financing and Policy, DHHS, and the Division of Insurance, Department of Business and Industry, to collect, validate, analyze, and interpret similar reports which will be voluntarily submitted by payers in the State of Nevada as part of the Governor's cost growth benchmarking initiative. In 2023 the Office of Analytics aims to consolidate these data into a report in order to define a statewide measure for health care cost growth and evaluate cost growth compared to the established benchmark of 3.19 percent.

Nevada Medicaid Cost Driver Analysis Report

[Revised: Version 2]

APPENDIX

Contents

Calculating Gross Domestic Product and Median Wage1
Average Per Member Per Month (PMPM) Spend
Table 1: PMPM Spend and Percentage Calculations 2
Table 2: All Member Data Table
Spend by Plan Type
Table 3: PMPM by Plan 3
Table 4: Spend per Utilizer by Plan 3
Table 5: Average Monthly Enrollment 4
Table 6: Average Monthly Utilizers by Plan Type 4
Table 7: Utilization by Plan Type 5
Table 8: Monthly Spend by Plan Type
Table 9: Annual Spend by Plan Type 6
Table 10: Fee for Service and Aged, Blind, and Disabled Breakout 6
Table 11: Fee for Service and Aged, Blind, and Disabled Breakout by Region 6
Spend by Service Category7
Table 12: PMPM by Service Category 7
Table 13: PMPM by Service Category Percent Change
Table 14: Service Category Utilization 8
Table 15: PMPM by Service Category Utilization Percent Change 8
Table 16: PMPM by Service Category Spend per Visit 9
Table 17: PMPM by Service Category Spend per Visit Percent Change 9
Spend by Geography10
Table 18: PMPM, Utilizers, Utilization, Spend per Visit by Geography10

Spend by Age	11
Table 19: PMPM by Age	11
Spend by Gender	11
Table 20: PMPM by Gender	11

This report was created by the Office of Analytics, Medicaid Unit, Director's Office, Nevada Department of Health and Human Services (DHHS). Unless otherwise noted, this information comes from the Nevada Medicaid Data Warehouse.

The Division of Health Care Financing and Policy (DHCFP), DHHS, data warehouse is comprised of claims data submitted by over 35,000 Medicaid providers from within Nevada and across the country. While DHCFP staff conscientiously make every effort to validate these data through continuous provider education and the use of highly experienced audit staff, the Division relies heavily on providers to submit accurate and complete information on Medicaid patients. It should therefore be understood by the users of DHCFP reports on disease morbidity and patient health that the data source for these reports are based solely on patient claims data and may not be a complete and comprehensive health record. The data for this report is procured from databases that are currently being modernized from their legacy versions. Considering the unpredictable technical challenges that may arise during the migration of data from legacy to modernized versions of the databases, it is advised to use the data with caution.

Calculating Gross Domestic Product and Median Wage

Per Capita Gross Domestic Product (GDP) for Nevada was calculated using the annual figures "All Industry Total" from the Bureau of Economic Analysis (BEA) divided by the population as reported on the Personal Income Summary: Personal Income, Population, Per Capita Personal Income.

GDP in millions:

	2016	2017	2018	2019	2020
US Dollars	151,840.4	160,785	170,352.9	181,743.3	170,943.8
State Population:					
	2016	2017	2018	2019	2020
Nevada Residents	2,919,555	2,972,097	3,030,725	3,090,771	3,138,259
Per Capita GDP in Current	Dollars:				
	2016	2017	2018	2019	2020
Per Capita GDP in Current Dollars	\$52,008	\$54,098	\$56,209	\$58,802	\$54,471
Year over Year (YOY) Percent change		4.0%	3.9%	4.6%	-7.4%

This data is pulled from the BEA website: <u>https://apps.bea.gov/itable/iTable.cfm?RegID=70&step=1</u>

Median wage for Nevada was pulled from the US Bureau of Labor Statistics website: <u>https://www.bls.gov/oes/tables.htm</u>

	2016	2017	2018	2019	2020
Median Wage	34,510	34,930	35,550	36,410	38,580
Percent Change		1.2%	1.8%	2.4%	6.0%

Average Per Member Per Month (PMPM) Spend

The following tables provide background information for the data figures presented in the Nevada Medicaid Cost Driver Report, October 2022.

Table 1: PMPM Spend and Percentage Calculations

	2016	2017	2018	2019	2020
РМРМ	\$354	\$377	\$382	\$415	\$396
YOY Percent Change		6%	1%	9%	-5%
Change Since Base		6%	8%	17%	12%

Table 2: All Member Data Table

	Average Members Per Month	Average Utilizers Per Month	Average Monthly Spend	Total Annual Spend	YOY Percent Increase Members	YOY Percent Increase Utilizers	YOY Percent Average Spend	YOY Percent Increase Annual Spend
2016	657,877	276,766	\$233,004,121	\$2,796,049,455				
2017	681,803	289,138	\$257,365,431	\$3,088,385,168	4%	4%	10%	10%
2018	693,007	292,020	\$265,005,056	\$3,180,060,666	2%	1%	3%	3%
2019	681,387	293,552	\$283,010,468	\$3,396,125,620	-2%	1%	7%	7%
2020	738,808	286,522	\$292,727,734	\$3,512,732,803	8%	-2%	3%	3%

Spend by Plan Type

Table 3: PMPM by Plan

PMPM By Plan			Year Over Year (YOY) Percent Change		Percent change since 2016				
	FFS	MCO	FFS	MCO	FFS	MCO			
2016	\$683	\$206							
2017	\$786	\$217	15.0%	5.7%	15%	6%			
2018	\$777	\$233	-1.1%	7.1%	14%	13%			
2019	\$813	\$262	4.6%	12.4%	19%	27.2%			
2020	\$828	\$239	1.8%	-8.6%	21%	16%			

Table 4: Spend per Utilizer by Plan

lable 4	Table 4: Spend per Utilizer by Plan									
	Spend Per Utilizer By Plan		YOY Percent Change		Percent change since 2016					
	FFS	MCO	FFS	MCO	FFS	MCO				
2016	\$1,305	\$523								
2017	\$1,299	\$571	-0.5%	9.1%	0%	9%				
2018	\$1,440	\$589	10.8%	3.2%	10%	13%				
2019	\$1,500	\$641	4.2%	8.8%	15%	22.5%				
2020	\$1,598	\$661	6.5%	3.2%	22%	26%				

Table 5: Average Monthly Enrollment

Table 5	Average Monthly Enrollees		YOY Percent Change		Percent change since 2016		
	FFS	MCO	FFS	МСО	FFS	MCO	
2016	204,581	453,297					
2017	192,150	489,654	-6.1%	8.0%	-6.1%	8.0%	
2018	190,422	502,585	-0.9%	2.6%	-6.9%	10.9%	
2019	189,752	491,635	-0.4%	-2.2%	-7.2%	8.5%	
2020	197,743	541,065	4.2%	10.1%	-3.3%	19.4%	

Table 6: Average Monthly Utilizers by Plan Type

	Average Monthly Utilizers		YOY Percent Change		Percent change since 2016		
	FFS	МСО	FFS	MCO	FFS	MCO	
2016	107,132	178,418					
2017	116,721	186,694	9.0%	4.6%	9.0%	4.6%	
2018	102,862	198,759	-11.9%	6.5%	-4.0%	11.4%	
2019	102,912	200,971	0.0%	1.1%	-3.9%	12.6%	
2020	102,482	195,942	-0.4%	-2.5%	-4.3%	9.8%	

Table 7: Utilization by Plan Type

Table	. Othization by Fla	птуре	Table 7. Othization by Plan Type										
	Utilization (Visits Per Month)		YOY Percent Change		Percent change since 2016								
	FFS	МСО	FFS	МСО	FFS	МСО							
2016	504,825	463,932											
2017	527,127	489,928	4.4%	5.6%	4.4%	5.6%							
2018	501,725	534,795	-4.8%	9.2%	-0.6%	15.3%							
2019	442,115	557,879	-11.9%	4.3%	-12.4%	20.3%							
2020	437,646	550,266	-1.0%	-1.4%	-13.3%	18.6%							

Table 8: Monthly Spend by Plan Type

	Average Monthly Spend		YOY Percent Change		Percent change since 2016	
	FFS	МСО	FFS	MCO	FFS	MCO
2016	\$139,758,209	\$93,245,910				
2017	\$150,923,851	\$106,441,609	8.0%	14.2%	8.0%	14.2%
2018	\$148,024,049	\$116,987,077	-1.9%	9.9%	5.9%	25.5%
2019	\$154,335,903	\$128,676,348	4.3%	10.0%	10.4%	38.0%
2020	\$163,535,597	\$129,135,954	6.0%	0.4%	17.0%	38.5%

Table 9: Annual Spend by Plan Type

lable 9	9: Annual Spend b	y Plan Type					
	Annual Spend		YOY Percent Change		Percent change since 2016		
	FFS	MCO	FFS	MCO	FFS	MCO	
2016	\$1,677,098,506	\$1,118,950,920					
2017	\$1,811,086,210	\$1,277,299,303	8.0%	14.2%	8.0%	14.2%	
2018	\$1,776,288,589	\$1,403,844,925	-1.9%	9.9%	5.9%	25.5%	
2019	\$1,852,030,834	\$1,544,116,180	4.3%	10.0%	10.4%	38.0%	
2020	\$1,962,427,160	\$1,549,631,444	6.0%	0.4%	17.0%	38.5%	

Table 10: Fee for Service and Aged, Blind, and Disabled Breakout

	PMPM By Plan		YOY Percent Change		Percent change since 2016	change		
	FFS	ABD	FFS	ABD	FFS	ABD		
2016	\$481	\$914						
2017	\$584	\$968	21.4%	5.9%	21.4%	5.9%		
2018	\$563	\$954	-3.6%	-1.4%	17.0%	4.4%		
2019	\$582	\$995	3.4%	4.3%	21.0%	8.9%		
2020	\$593	\$1,016	1.9%	2.1%	23.3%	11.2%		

Table 11: Fee for Service and Aged, Blind, and Disabled Breakout by Region

	РМРМ			YOY Percent Change		
	North	South	Rural	North	South	Rural
2016	\$796	\$952	\$661			
2017	\$827	\$1,024	\$720	3.9%	7.5%	7.5%
2018	\$836	\$987	\$704	1.1%	3.7%	3.7%
2019	\$918	\$1,056	\$744	9.9%	10.9%	10.9%
2020	\$895	\$1,097	\$757	-2.6%	15.2%	15.2%

Spend by Service Category

Table 12: PMPM by Service Category

						YOY					
	PMPM					Percent					
						Change					
Service Category	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	Average
Inpatient	\$75	\$78	\$78	\$82	\$81		4%	0%	5%	-1%	3%
Outpatient	\$21	\$21	\$23	\$26	\$23		1%	9%	10%	-11%	7%
Long Term Care	\$55	\$59	\$64	\$70	\$67		7%	8%	9%	-4%	8%
Professional	\$129	\$139	\$141	\$148	\$137		8%	1%	5%	-7%	5%
Dental	\$6	\$10	\$4	\$10	\$9		51%	-55%	142%	-12%	46%
Pharmacy	\$31	\$32	\$33	\$36	\$36		5%	2%	9%	-1%	5%

Table 13: PMPM by Service Category Percent Change

PMPM Percent Change (2016 as base)

	РМРМ				
Service Category	2016	2017	2018	2019	2020
Inpatient		4%	4%	8%	7%
Outpatient		1%	10%	21%	8%
Long Term Care		7%	16%	27%	21%
Professional		8%	9%	15%	6%
Dental		51%	-32%	64%	45%
Pharmacy		5%	7%	17%	16%

Table 14: Service Category Utilization

	Utilization (Number of Visits)					YOY Percent Change					
Service Category	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	Average
Inpatient	10,286	10,908	11,127	10,694	10,470		6%	2%	-4%	-2%	1%
Outpatient	53,629	55,261	56,591	58,652	52,757		3%	2%	4%	-10%	3%
Long Term Care	151,453	171,560	183,952	161,145	149,580		13%	7%	-12%	-7%	3%
Professional	540,182	557,005	564,325	540,699	531,815		3%	1%	-4%	-2%	0%
Dental	28,811	35,175	37,136	36,340	31,689		22%	6%	-2%	-13%	9%
Pharmacy	332,491	344,926	340,007	351,054	353,484		4%	-1%	3%	1%	2%

Table 15: PMPM by Service Category Utilization Percent Change

Utilization Percent Change (2016 as base)

	Percent change since 2016				
Service Category	2016	2017	2018	2019	2020
Inpatient		6%	8%	4%	2%
Outpatient		3%	6%	9%	-2%
Long Term Care		13%	21%	6%	-1%
Professional		3%	4%	0%	-2%
Dental		22%	29%	26%	10%
Pharmacy		4%	2%	6%	6%

						YOY					
	Spend					Percent					
	Per Visit					Change					
Service Category	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	Average
Inpatient	\$4,821	\$4,879	\$4 <i>,</i> 865	\$5,209	\$5,694		1%	0%	7%	9%	3%
Outpatient	\$243	\$250	\$271	\$284	\$305		3%	8%	5%	7%	5%
Long Term Care	\$6,068	\$6,606	\$6,810	\$6 <i>,</i> 408	\$6,914		9%	3%	-6%	8%	2%
Professional	\$124	\$132	\$132	\$146	\$151		6%	0%	10%	3%	5%
Dental	\$151	\$183	\$81	\$195	\$213		21%	-56%	142%	9%	36%
Pharmacy	\$61	\$64	\$67	\$70	\$74		5%	5%	4%	7%	5%

Table 16: PMPM by Service Category Spend per Visit

Table 17: PMPM by Service Category Spend per Visit Percent Change

Percent Change (2016 as base)

	Percent change since 2016				
Service Category	2016	2017	2018	2019	2020
Inpatient		1%	1%	8%	18%
Outpatient		3%	12%	17%	26%
Long Term Care		9%	12%	6%	14%
Professional		6%	6%	17%	21%
Dental		21%	-47%	29%	41%
Pharmacy		5%	10%	15%	22%

Spend by Geography

Please note that the out of state claim amounts have been removed from the geography data set.

Table 18: PMPM, Utilizers, Utilization, Spend per Visit by Geography

		Average Members Per Month	PMPM Spend	% +/- since base	Average Utilizers Per Month	Spend Per Utilizers	% +/- since base	Visits Per Month	% +/- since base	Spend Per Visit
North	2016	95,850	\$350		41,862	\$801		138,230		\$243
	2017	94,771	\$376	8%	41,901	\$852	6%	139,836	1%	\$255
	2018	92,978	\$395	13%	41,264	\$891	11%	138,638	0%	\$265
	2019	90,172	\$435	24%	40,495	\$969	21%	128,963	-7%	\$304
	2020	94,955	\$421	20%	39,380	\$1,016	27%	126,239	-9%	\$316
Rural	2016	52,813	\$403		23,019	\$924		77,442		\$275
	2017	53,643	\$428	6%	23,124	\$993	7%	78,064	1%	\$294
	2018	54,063	\$433	7%	22,819	\$1,026	11%	75,776	-2%	\$309
	2019	53 <i>,</i> 895	\$452	12%	22,819	\$1,068	16%	70,054	-10%	\$348
	2020	56,658	\$441	10%	22,295	\$1,121	21%	70,371	-9%	\$355
South	2016	479,517	\$326		187,109	\$835		644,873		\$242
	2017	507,027	\$347	6%	199,674	\$881	5%	691,447	7%	\$255
	2018	525,745	\$349	7%	205,398	\$894	7%	719,386	12%	\$255
	2019	523,557	\$382	17%	210,644	\$949	14%	712,449	10%	\$281
	2020	565,980	\$376	15%	209,718	\$1,015	21%	720,056	12%	\$295

Spend by Age

Table 19: PMPM by Age

	PMPM By					YOY Percent Change					Percent change since				
	Age					Change					2016				
Age Group	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Infants <1	\$542	\$569	\$578	\$633	\$675		5%	2%	9%	7%		5%	7%	17%	25%
1-17	\$169	\$178	\$167	\$192	\$166		5%	-6%	15%	-14%		5%	-1%	13%	-2%
18-34	\$327	\$350	\$361	\$392	\$370		7%	3%	9%	-6%		7%	10%	20%	13%
35-54	\$539	\$571	\$600	\$634	\$595		6%	5%	6%	-6%		6%	11%	18%	10%
55 and older	\$662	\$706	\$705	\$739	\$740		7%	0%	5%	0%		7%	6%	12%	12%

Spend by Gender

Table 20: PMPM by Gender

	PMPM By Gender					YOY Percent Change	Percent change since 2016								
Gender	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Female	\$346	\$368	\$370	\$400	\$378		6%	0%	8%	-5.6%		6%	7%	16%	9%
Male	\$363	\$388	\$397	\$433	\$419		7%	2%	9%	-3.2%		7%	9%	19%	15%