Division of Medicaid Office of the Governor State of Mississippi Drug Utilization Review (DUR) Board Meeting



March 7, 2019 at 1:00pm Woolfolk Building, Room 117 Jackson, MS

Prepared by:



Drug Utilization Review Board

Lauren Bloodworth, PharmD University of MS School of Pharmacy 201D Faser Hall University, MS 38677 *Term Expires: June 30, 2021*

Beverly Bryant, MD UMMC, School of Medicine 2500 North State Street Jackson, MS 39216 *Term Expires: June 30, 2021*

Rhonda Dunaway, RPh Coastal Family Health Center 9113 Hwy 49 Suite 200 Gulfport, MS 39503 *Term Expires: June 30, 2020*

Tanya Fitts, MD Lafayette Pediatric Clinic 1300 Access Road, Suite 400 Oxford, MS 38655 *Term Expires: June 30, 2021*

Juanice Glaze, RPh New Pointe Pharmacy 345 General Robert E Blount Dr. Bassfield, MS 39421 *Term Expires: June 30, 2019*

Alice F. Messer, FNP-BC Newsouth Neurospine 2470 Flowood Drive Flowood, MS 39232 *Term Expires: June 30, 2019* Ray Montalvo, MD KDMC Specialty Clinic 940 Brookway Boulevard Brookhaven, MS 39601 *Term Expires: June 30, 2020*

Holly R. Moore, PharmD Anderson Regional Medical Center 2124 14th Street Meridian, MS 39301 *Term Expires: June 30, 2020*

Janet Ricks, DO UMMC, Family Medicine 2500 North State Street Jackson, MS 39216 *Term Expires: June 30, 2021*

Dennis Smith, RPh Polk's Discount Drugs 1031 Star Rd Brandon, MS 39042 *Term Expires: June 30, 2020*

James Taylor, PharmD **(Chair)** North MS Medical Center 830 S. Gloster Street Tupelo, MS 38801 *Term Expires: June 30, 2019*

Veda Vedanarayanan, MD Mississippi Center for Advanced Medicine 7731 Old Canton Road, Suite B Madison, MS 39110 *Term Expires: June 30, 2021*

2019 DUR Board Meeting Dates

March 7, 2019 May 23, 2019 September 19, 2019 December 5, 2019 As with any analysis, great efforts are made to ensure that the information reported in this document is accurate. The most recent administrative claims data available are being used at the time the reports are generated, which includes the most recent adjudication history. As a result, values may vary between reporting periods and between DUR Board meetings, reflecting updated reversals and claims adjustments.

Unless otherwise indicated, all MS-DUR analyses are conducted for the entire Mississippi Medicaid program including beneficiaries receiving services through the Medicaid fee-for-service (FFS) and the two Mississippi Medicaid Coordinated Care Organizations (CCOs). When dollar figures are reported, the reported dollar figures represent reimbursement amounts paid to providers and are not representative of final Medicaid costs after rebates. Any reported enrollment data presented are unofficial and are only for general information purposes for the DUR Board.

Please refer to the Mississippi Division of Medicaid website for the current official Universal Preferred Drug List (PDL).

http://www.medicaid.ms.gov/providers/pharmacy/preferred-drug-list/

MISSISSIPPI DIVISION OF MEDICAID OFFICE OF THE GOVERNOR DRUG UTILIZATION REVIEW BOARD AGENDA March 7, 2019

Welcome

James Taylor, PharmD (Chair)

Old Business Approval of December 2018 Meeting Minutes	James Taylor, PharmD page 5
Resource Utilization Review	
Enrollment Statistics Pharmacy Utilization Statistics Top 10 Drug Categories by Number of Claims Top 10 Drug Categories by Amount Paid Top 25 Drug Molecules by Number of Claims Top 25 Drug Molecules by Dollars Paid Top 25 Drug Molecules by Change in Number of Claims Top 25 Drug Molecules by Change in Dollars Paid Top 15 Solid Dosage Form High Volume Products By Percent Change In Amount Paid Per Unit	page 11 page 11 page 12 page 13 page 14 page 15 page 16 page 17 page 18
 Update on Action Items from Previous Board Meeting(s) COPD Initiatives and Outcomes in CCOs Magnolia Molina UnitedHealthcare Multiple Antipsychotic Prior Authorization Rationale 	
Feedback and Discussion from the Board	
New Business Update on MS-DUR Educational Interventions Special Analysis Projects	page 21
Asthma Overview and Quality Measure Performance Opioid Use and COPD Exacerbations	page 22 page 32
FDA Drug Safety Updates	page 37
Pharmacy Program Update Sara (Cind	Terri Kirby, RPh y) Noble, PharmD, MPH

Next Meeting Information

James Taylor, PharmD

DUR Board Meeting Minutes

MISSISSIPPI DIVISION OF MEDICAID DRUG UTILIZATION REVIEW (DUR) BOARD MINUTES OF THE DECEMBER 6, 2018 MEETING

DUR Board Members:	Mar 2018	May 2018	Sep 2018	Dec 2018
Lauren Bloodworth, PharmD	NA	NA	√	√
Beverly Bryant, MD	NA	NA	✓	✓
Rhonda Dunaway, RPh	✓	✓	✓	✓
Tanya Fitts, MD	NA	NA	✓	✓
Juanice Glaze, RPh	✓	✓	✓	\checkmark
Alice Messer, DNP, FNP-BC	\checkmark	✓		
Ray Montalvo, MD	~	✓		\checkmark
Holly Moore, PharmD	~		\checkmark	✓
Janet Ricks, DO	~		\checkmark	✓
Dennis Smith, RPh	~	✓	\checkmark	✓
James Taylor, PharmD (Chair)	~	✓	\checkmark	~
Veda Vedanarayanan, MD	NA	NA		\checkmark
TOTAL PRESENT	9*	8**	9	11

* Only 11 members were active due to resignation resulting from move and replacements not yet approved by Governor. **Only 10 members were active due to resignations resulting from move and replacements not yet approved by Governor.

Also Present:

Division of Medicaid (DOM) Staff:

Terri Kirby, RPh, CPM, Pharmacy Director; Cindy Noble, PharmD, MPH, DUR Coordinator; Gail McCorkle, RPh, Clinical Pharmacist; Chris Yount, MA, PMP, Staff Officer – Pharmacy; Carlos Latorre, MD, Medical Director; Sue Reno, RN, Program Integrity

University of Mississippi School of Pharmacy - MS-DUR Staff:

Ben Banahan, PhD, MS-DUR Project Director; Eric Pittman, PharmD, MS-DUR Clinical Director

Conduent Staff:

Lew Anne Snow, RN, BSN, Pharmacy Services Sr. Analyst, Mississippi Medicaid Project

Change Healthcare Staff:

Shannon Hardwick, RPh, CPC Pharmacist; Paige Clayton, PharmD, On-Site Clinical Pharmacist; Cheryl Rogers, PharmD, Mississippi PA Pharmacist

Coordinated Care Organization Staff:

Heather Odem, PharmD, United Healthcare Community & State, Director of Pharmacy- Mississippi; Jenni Grantham, PharmD, Director of Pharmacy, Magnolia Health; Mike Todaro, PharmD, Vice President, Pharmacy Operations, Magnolia Health; Trina Stewart, PharmD, Pharmacy Manager, Molina Healthcare; Joseph Vazhappilly, PharmD, MBA, Associate Vice President, Pharmacy Services, Molina Healthcare

Visitors:

Phil Hecht, Abbvie; Dustin Prisock, Kite; Tim Hambacher, Otsuka; Brian Berhow, Sunovion; Kim Clark, Viiv; Jason Swartz, Otsuka; Eric Marchant, Amgen; Evelyn Johnson, Capital Resources

Call to Order:

Dr. Taylor, Chair, called the meeting to order at 2:03pm and welcomed everyone. Dr. Taylor officially welcomed new Board member Dr. Vedanarayanan.

Old Business:

Mr. Smith moved to approve the minutes from the September 2019 DUR Board Meeting, seconded by Dr. Montalvo and unanimously approved by the DUR Board.

Resource Utilization Review:

Dr. Pittman informed the Board that encounter data for one of the CCOs was incomplete for the reporting period. Antipsychotics have moved up in rank in amount paid due their inclusion in the Clinician Administered Drugs and Implantable Drug System Devices (CADD) list allowing injectable antipsychotics to be billed through point of sale (POS). This increase does not reflect an increase in utilization rather a change in area of reimbursement. No other major items noted in the reports.

Pharmacy Program Update:

Ms. Kirby informed the board about Medicaid's EASE Initiative, a bundle of programmatic changes aimed at bolstering Medicaid beneficiaries' access to needed services in the most appropriate setting. As part of the first phase, DOM will increase the physician visit limit for beneficiaries from 12 to 16 visits per year. She also informed the board Dr. Carlos Latorre was recently hired as the new Medical Director at DOM. He will be the first full-time Medical Director. Due to his full-time position, Dr. Noble asked that the Board consider amending the DUR Board Bylaws to include the Medical Director as a non-voting member.

Dr. Montalvo made a motion to revise the bylaws to include the Medical Director as a non-voting member, seconded by Dr. Bryant, and unanimously approved by the DUR Board.

Dr. Latorre was officially welcomed to the DUR Board.

Update on Action Items from Previous Board Meetings

Dr. Pittman reviewed educational mailing statistics for mailings conducted since the last board meeting.

Stimulant Edit Implementation

Dr. Taylor asked for feedback from the Board on the diagnosis edit requirement for stimulants. DOM reported some difficulties experienced during implementation, while Board members also expressed some of their experiences.

NEW BUSINESS

Influenza Vaccination and Treatment Overview

Dr. Pittman provided an overview and reviewed trends related to the 2017-2018 flu season. Even though Mississippi's rate of flu cases in the 2017-2018 flu season was higher than the national and regional averages, Mississippi's vaccination rate was higher nationally and regionally. Dr. Pittman also

reviewed prophylactic and treatment options for the flu virus. Prescribing patterns in Mississippi Medicaid during the 2017-2018 flu season were detailed. Noting the severity of the 2017-2018 flu season, Board members asked MS-DUR to conduct further analysis examining concomitant antibiotic use with antiviral therapy, age-specific analyses, and trends in high-risk populations. Additionally Board members requested MS-DUR assess days supply of antiviral therapy to determine what percentages were prescribed for prophylaxis and treatment of flu. The Board also requested MS-DUR annually present an overview of the prior year's flu season at the fall Board meeting each year.

COPD Treatment Patterns and GOLD Guidelines

Dr. Pittman reviewed information on COPD and the Global Initiative for Chronic Obstructive Lung Disease (GOLD) guidelines. MS-DUR identified Medicaid beneficiaries with a diagnosis of COPD who experienced an exacerbation event resulting in an emergency department visit or hospital admission. Prescribing patterns after each exacerbation were assessed to determine alignment with the GOLD guidelines. A robust Board discussion was held regarding the data presented focusing on barriers and opportunities for improving adherence to the GOLD guidelines. MS-DUR recommendations included the following:

- 1. DOM and MS-DUR should undertake a provider educational initiative to promote greater adherence to the GOLD guidelines. As part of the educational initiatives, the Board advocated for the inclusion of provider recommendations for immunization and smoking cessation in COPD patients.
- 2. If possible, DOM and the CCOs should implement patient management programs to improve medication adherence and help assure appropriate treatment regimens among COPD patients following an exacerbation event.
- 3. CCOs are invited to present at the next DUR meeting their initiatives and related outcomes on improving treatment regimens for COPD beneficiaries.

Mr. Smith made a motion to approve the MS-DUR recommendations, seconded by Dr. Bryant, and unanimously approved by the DUR Board.

Multiple Antipsychotic Medication Prescribing Trends in Children and Adults

Dr. Banahan provided an overview of trends in the prescribing of multiple antipsychotic medications in children and adults. Background pertaining to previous DUR recommendations and educational initiatives relating to the use of multiple antipsychotic medications in children was also presented. Following a robust discussion, the following MS-DUR recommendations were presented:

- 1. Examine prior authorization approvals in the previous 12 months to determine rationales cited for concurrent use of multiple antipsychotic medications.
- 2. Expand prior authorization form to also include the adult population.

Dr. Montalvo made a motion to approve the MS-DUR recommendations, seconded by Ms. Dunaway, and unanimously approved by the DUR Board.

FDA Drug Safety Updates

Dr. Pittman presented FDA drug safety communications from August 2018 – November 2018

Next Meeting Information:

Dr. Taylor asked for feedback on proposed dates for next year. The proposed 2019 dates, March 7, May 23, September 19 and December 5, were accepted by the Board. Dr. Taylor announced that the next

meeting of the DUR Board will take place on March 7, 2019 and made note that start time will change to 1:00 pm in order to better accommodate those who drive long distances for meetings.

The meeting adjourned at 4:03 pm.

Submitted,

Eric Pittman, PharmD Evidence-Based DUR Initiative, MS-DUR **Meeting Location**: Woolfolk Building, 501 North West Street, Conference Room 145 Jackson, MS 39201

Contact Information: Pharmacy Bureau:

Chris Yount, 601-359-5253: <u>Christopher.yount@medicaid.ms.gov</u>, or Jessica Tyson, 601-359-5253; <u>Jessica.Tyson@medicaid.ms.gov</u>

Notice details:

State Agency: MS Division of Medicaid

Public Body: Drug Utilization Board (DUR) Meeting

Subject: Quarterly Meeting

Date and Time: May 31, 2018 at 2PM; Sept. 20, 2018 at 2PM; Dec. 6, 2018 at 2PM.

Description: The Mississippi Division of Medicaid's Drug Utilization Review (DUR) Board is a quality assurance body which seeks to assure appropriate drug therapy to include optimal beneficiary outcomes and appropriate education for physicians, pharmacists, and the beneficiary. The Drug Utilization Review (DUR) Board is composed of twelve participating physicians and pharmacists who are active MS Medicaid providers and in good standing with their representative organizations.

The Board reviews utilization of drug therapy and evaluates the long-term success of the treatments.

The Drug Utilization Review (DUR) Board meets quarterly.

Resource Utilizaton Review

	TABLE 04A: ENROLLMENT STATISTICS FOR LAST 6 MONTHS										
	July 1, 2018 through December 31, 2018										
	Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 D										
То	tal enr	rollment	710,217	707,292	702,072	698,430	692,334	686,824			
Du	ual-elig	ibles	156,749	156,582	156,491	156,261	155,728	153,867			
Ph	narmac	y benefits	601,864	598,756	593,339	589,494	583,393	578,512			
	LTC		17,127	17,248	17,132	17,115	16,970	16,689			
	.0	FFS	26.7%	27.3%	27.4%	27.0%	26.0%	24.6%			
	% N	MSCAN-UHC	34.7%	34.3%	34.2%	33.4%	33.1%	33.0%			
	PLAN	MSCAN-Magnolia	38.6%	38.4%	38.4%	38.1%	37.9%	37.9%			
	-	MSCAN-Molina	0.0%	0.0%	0.0%	1.5%	3.0%	4.5%			

TABLE 04B: PHARMACY UTILIZATION STATISTICS FOR LAST 6 MONTHS

	July 1, 2018 through December 31, 2018											
		Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18					
	FFS	99,459	116,459	105,628	115,056	107,228	100,141					
#	MSCAN-UHC	154,049	182,028	166,036	180,085	172,293	161,822					
Rx Fills	MSCAN-Mag	196,781	232,673	210,902	233,794	222,287	213,302					
	MSCAN-Mol	-	-	-	6,223	10,689	14,454					
#	FFS	0.6	0.7	0.6	0.7	0.7	0.7					
 Rx Fills	MSCAN-UHC	0.7	0.9	0.8	0.9	0.9	0.8					
/ Bene	MSCAN-Mag	0.8	1.0	0.9	1.0	1.0	1.0					
,	MSCAN-Mol	#DIV/0!	#DIV/0!	#DIV/0!	0.7	0.6	0.6					
	FFS	\$12,041,235	\$13,417,980	\$11,811,183	\$13,270,004	\$12,340,775	\$11,483,584					
\$	MSCAN-UHC	\$13,926,083	\$15,353,636	\$14,101,519	\$15,171,792	\$14,536,347	\$13,759,363					
Paid Rx	MSCAN-Mag	\$17,304,445	\$19,721,768	\$17,592,451	\$20,232,724	\$18,923,015	\$18,951,472					
	MSCAN-Mol	\$0	\$0	\$0	\$394,465	\$704,657	\$1,106,369					
	FFS	\$121.07	\$115.22	\$111.82	\$115.34	\$115.09	\$114.67					
\$	MSCAN-UHC	\$90.40	\$84.35	\$84.93	\$84.25	\$84.37	\$85.03					
/Rx Fill	MSCAN-Mag	\$87.94	\$84.76	\$83.42	\$86.54	\$85.13	\$88.85					
	MSCAN-Mol	#DIV/0!	#DIV/0!	#DIV/0!	\$63.39	\$65.92	\$76.54					
	FFS	\$74.93	\$82.09	\$72.65	\$83.37	\$81.36	\$80.69					
\$	MSCAN-UHC	\$66.68	\$74.76	\$69.49	\$77.06	\$75.28	\$72.07					
/Bene	MSCAN-Mag	\$74.49	\$85.78	\$77.21	\$90.08	\$85.58	\$86.44					
	MSCAN-Mol	#DIV/0!	#DIV/0!	#DIV/0!	\$44.61	\$40.26	\$42.50					

NOTE: Paid amounts represent amount reported on claims as paid to the pharmacy. These amounts do not reflect final actual costs after rebates, etc.

TABLE C: TOP 10 DRUG CATEGORIES BY NUMBER OF CLAIMS IN DEC 2018 (FFS AND CCOs)

Category	Month Year	Rank Volume	#RXs	\$ Paid	# Unique Benes
CNS stimulants	Dec 2018	1	23,779	\$4,933,740	20,708
	Nov 2018	1	26,239	\$5,512,842	22,653
	Oct 2018	1	27,997	\$5,967,241	23,970
aminopenicillins	Dec 2018	2	18,644	\$241,953	18,304
	Nov 2018	2	19,887	\$257,393	19,510
	Oct 2018	2	18,507	\$240,724	18,122
adrenergic bronchodilators	Dec 2018	3	16,925	\$928,513	14,956
	Nov 2018	3	17,548	\$996,560	15,343
	Oct 2018	5	17,228	\$1,042,255	14,949
narcotic analgesic combinations	Dec 2018	4	15,265	\$634,184	13,912
	Nov 2018	4	16,177	\$639,798	14,592
	Oct 2018	4	17,337	\$661,033	15,682
nonsteroidal anti-inflammatory agents	Dec 2018	5	14,708	\$196,391	14,047
	Nov 2018	6	15,365	\$209,900	14,640
	Oct 2018	6	16,957	\$244,297	16,122
antihistamines	Dec 2018	6	14,674	\$216,077	14,180
	Nov 2018	5	15,848	\$235,136	15,316
	Oct 2018	3	17,579	\$268,693	16,920
glucocorticoids	Dec 2018	7	13,936	\$260,744	13,422
	Nov 2018	8	14,047	\$231,728	13,535
	Oct 2018	7	13,236	\$243,877	12,727
macrolides	Dec 2018	8	13,930	\$329,632	13,590
	Nov 2018	7	14,361	\$348,401	13,996
	Oct 2018	10	12,840	\$312,278	12,462
atypical antipsychotics	Dec 2018	9	12,608	\$2,906,530	10,954
	Nov 2018	9	12,897	\$2,699,961	11,145
	Oct 2018	8	13,176	\$2,792,099	11,301
SSRI antidepressants	Dec 2018	10	11,127	\$129,277	10,381
	Nov 2018	10	11,691	\$137,217	10,889
	Oct 2018	11	12,067	\$143,893	11,244

TABLE D: TOP 10 DRUG CATEGORIES BY DOLLARS PAID IN DEC 2018 (FFS AND CCOs)

Category	Month Year	Rank Paid Amt	#RXs	\$ Paid	# Unique Benes
CNS stimulants	Dec 2018	1	23,779	\$4,933,740	20,708
	Nov 2018	1	26,239	\$5,512,842	22,653
	Oct 2018	1	27,997	\$5,967,241	23,970
atypical antipsychotics	Dec 2018	2	12,608	\$2,906,530	10,954
	Nov 2018	3	12,897	\$2,699,961	11,145
	Oct 2018	3	13,176	\$2,792,099	11,301
antiviral combinations	Dec 2018	3	811	\$2,890,811	762
	Nov 2018	2	845	\$3,015,889	780
	Oct 2018	2	860	\$3,118,619	801
insulin	Dec 2018	4	4,794	\$2,611,151	3,563
	Nov 2018	4	4,889	\$2,644,943	3,637
	Oct 2018	4	5,047	\$2,761,371	3,737
TNF alpha inhibitors	Dec 2018	5	312	\$1,686,644	287
	Nov 2018	5	316	\$1,712,171	293
	Oct 2018	5	325	\$1,724,012	302
factor for bleeding disorders	Dec 2018	6	83	\$1,405,116	65
	Nov 2018	6	87	\$1,387,193	59
	Oct 2018	6	97	\$1,630,003	70
gamma-aminobutyric acid analogs	Dec 2018	7	8,872	\$1,227,998	8,238
	Nov 2018	7	9,072	\$1,219,196	8,408
	Oct 2018	7	9,376	\$1,330,768	8,700
bronchodilator combinations	Dec 2018	8	3,579	\$1,100,672	3,283
	Nov 2018	8	3,681	\$1,123,675	3,377
	Oct 2018	8	3,815	\$1,175,003	3,520
adrenergic bronchodilators	Dec 2018	9	16,925	\$928,513	14,956
	Nov 2018	9	17,548	\$996,560	15,343
	Oct 2018	9	17,228	\$1,042,255	14,949
selective immunosuppressants	Dec 2018	10	267	\$745,229	242
	Nov 2018	10	281	\$812,375	253
	Oct 2018	10	294	\$813,777	270

TABLE E: TOP 25 DRUG MOLECULES BY NUMBER OF CLAIMS IN DEC 2018 (FFS and CCOs)

Drug Molecule Therapeutic Category	Nov 2018 # Claims	Dec 2018 # Claims	Dec 2018 \$ Paid	Dec 2018 # Unique Benes
amoxicillin / aminopenicillins	19,851	18,616	\$241,456	18,276
albuterol / adrenergic bronchodilators	17,041	16,495	\$799,273	14,632
azithromycin / macrolides	13,626	13,269	\$254,176	12,985
montelukast / leukotriene modifiers	11,651	10,617	\$181,505	10,351
acetaminophen-hydrocodone / narcotic analgesic combinations	10,836	10,109	\$142,674	9,447
cetirizine / antihistamines	10,701	9,645	\$123,236	9,464
prednisolone / glucocorticoids	8,022	8,056	\$122,578	7,769
lisdexamfetamine / CNS stimulants	8,740	7,789	\$2,263,622	7,624
ibuprofen / nonsteroidal anti-inflammatory agents	7,726	7,398	\$89,031	7,237
gabapentin / gamma-aminobutyric acid analogs	7,518	7,380	\$113,784	6,916
amoxicillin-clavulanate / penicillins/beta-lactamase inhibitors	6,844	6,828	\$162,221	6,724
ondansetron / 5HT3 receptor antagonists	6,354	6,706	\$110,191	6,517
cefdinir / third generation cephalosporins	7,112	6,679	\$156,031	6,559
fluticasone nasal / nasal steroids	7,114	6,499	\$99,225	6,414
amlodipine / calcium channel blocking agents	6,488	6,143	\$51,869	5,888
clonidine / antiadrenergic agents, centrally acting	6,074	5,887	\$116,191	5,581
amphetamine-dextroamphetamine / CNS stimulants	6,081	5,631	\$280,586	4,866
methylphenidate / CNS stimulants	6,130	5,607	\$1,220,146	5,052
omeprazole / proton pump inhibitors	5,630	5,402	\$54,441	5,232
guanfacine / antiadrenergic agents, centrally acting	4,396	4,150	\$82,837	3,960
ranitidine / H2 antagonists	4,167	3,995	\$50,759	3,852
ethinyl estradiol-norgestimate / contraceptives	3,801	3,791	\$65,867	3,528
sertraline / SSRI antidepressants	3,985	3,759	\$43,428	3,517
atorvastatin / HMG-CoA reductase inhibitors (statins)	3,891	3,704	\$40,903	3,526
metformin / biguanides	3,758	3,687	\$38,078	3,508

TABLE F: TOP 25 DRUG MOLECULES BY DOLLARS PAID IN DEC 2018 (FFS and CCOs)

Drug Molecule Therapeutic Category	Nov 2018 \$ Paid	Dec 2018 \$ Paid	Dec 2018 # Claims	Dec 2018 # Unique Benes
lisdexamfetamine / CNS stimulants	\$2,532,480	\$2,263,622	7,789	7,624
methylphenidate / CNS stimulants	\$1,335,874	\$1,220,146	5,607	5,052
adalimumab / TNF alpha inhibitors	\$1,224,447	\$1,208,941	205	186
paliperidone / atypical antipsychotics	\$917,985	\$1,070,258	535	473
sofosbuvir-velpatasvir / antiviral combinations	\$1,022,829	\$997,703	41	36
insulin aspart / insulin	\$870,973	\$822,944	1,334	1,266
albuterol / adrenergic bronchodilators	\$844,262	\$799,273	16,495	14,632
dexmethylphenidate / CNS stimulants	\$911,233	\$794,366	3,072	2,553
insulin glargine / insulin	\$773,347	\$755,435	1,720	1,650
pregabalin / gamma-aminobutyric acid analogs	\$740,387	\$709,682	1,456	1,393
anti-inhibitor coagulant complex / factor for bleeding disorders	\$467,179	\$662,517	5	3
aripiprazole / atypical antipsychotics	\$527,236	\$609,382	3,027	2,845
deferasirox / chelating agents	\$797,833	\$582,646	53	46
palivizumab / immune globulins	\$487,043	\$572,181	242	183
cobicistat/elvitegravir/emtricitabine/tenofov / antiviral combinations	\$579,869	\$539,377	191	187
lurasidone / atypical antipsychotics	\$555,576	\$520,468	390	378
corticotropin / corticotropin	\$77,842	\$505,896	5	5
fluticasone-salmeterol / bronchodilator combinations	\$513,694	\$503,396	1,292	1,253
somatropin / growth hormones	\$539,448	\$503,058	114	106
hydroxyprogesterone / progestins	\$467,533	\$454,870	148	138
insulin detemir / insulin	\$424,620	\$431,212	807	767
etanercept / TNF alpha inhibitors	\$462,730	\$424,120	95	91
vigabatrin / gamma-aminobutyric acid analogs	\$363,583	\$404,532	36	34
ivacaftor-lumacaftor / CFTR combinations	\$525,374	\$399,709	22	22
antihemophilic factor / factor for bleeding disorders	\$553,712	\$389,715	22	16

TABLE G: TOP 25 DRUG MOLECULES BY CHANGE IN NUMBER OF CLAIMS FROM OCT 2018 TO DEC 2018 (FFS and CCOs)

Drug Molecule	Oct 2018 # Claims	Nov 2018 # Claims	Dec 2018 # Claims	Dec 2018 \$ Paid	Dec 2018 # Unique Benes
oseltamivir / neuraminidase inhibitors	1,156	1,450	3,015	\$348,600	2,994
azithromycin / macrolides	12,219	13,626	13,269	\$254,176	12,985
prednisolone / glucocorticoids	7,286	8,022	8,056	\$122,578	7,769
amoxicillin-clavulanate / penicillins/beta-lactamase inhibitors	6,369	6,844	6,828	\$162,221	6,724
cefdinir / third generation cephalosporins	6,262	7,112	6,679	\$156,031	6,559
dextromethorphan-promethazine / upper respiratory combinations	825	1,136	1,191	\$12,292	1,154
benzonatate / antitussives	998	1,277	1,291	\$16,852	1,264
brompheniramine/dextromethorphan/pse / upper respiratory combinations	751	910	919	\$18,234	904
amoxicillin / aminopenicillins	18,476	19,851	18,616	\$241,456	18,276
codeine-guaifenesin / upper respiratory combinations	324	451	445	\$5,614	434
levofloxacin / quinolones	543	646	663	\$7,253	640
prednisone / glucocorticoids	3,401	3,533	3,507	\$37,366	3,410
chlorpheniramine/dextromethorp/phenylephrine / upper respiratory combinations	192	319	296	\$5,010	292
cefprozil / second generation cephalosporins	899	951	975	\$35,390	952
palivizumab / immune globulins	167	207	242	\$572,181	183
ondansetron / 5HT3 receptor antagonists	6,645	6,354	6,706	\$110,191	6,517
paliperidone / atypical antipsychotics	489	471	535	\$1,070,258	473
clarithromycin / macrolides	553	668	589	\$41,704	582
sacubitril-valsartan / angiotensin receptor blockers and neprilysin inhibitors	201	220	236	\$104,278	225
bictegravir/emtricitabine/tenofovir / antiviral combinations	102	116	133	\$367,784	126
polymyxin b-trimethoprim ophthalmic / ophthalmic anti-infectives	814	815	845	\$13,486	843
warfarin / coumarins and indanediones	622	632	648	\$7,826	522
buprenorphine-naloxone / narcotic analgesic combinations	979	978	1,003	\$365,460	837
hydroxychloroquine / antirheumatics	389	362	412	\$11,550	400
cariprazine / atypical antipsychotics	93	102	113	\$134,512	108

TABLE H: TOP 25 DRUG MOLECULES BY CHANGE IN AMOUNT PAID FROM OCT 2018 TO DEC 2018 (FFS and CCOs)

	Oct 2018	Nov 2018	Dec 2018	Dec 2018	Dec 2018 # Unique
Drug Molecule	\$ Paid	\$ Paid	\$ Paid	# Claims	Benes
corticotropin / corticotropin	\$194,634	\$77,842	\$505,896	5	5
oseltamivir / neuraminidase inhibitors	\$146,709	\$183,328	\$348,600	3,015	2,994
palivizumab / immune globulins	\$410,715	\$487,043	\$572,181	242	183
paliperidone / atypical antipsychotics	\$953,393	\$917,985	\$1,070,258	535	473
icatibant / miscellaneous cardiovascular agents	\$0	\$0	\$97,580	3	2
emicizumab / factor for bleeding disorders	\$23,870	\$107,322	\$119,349	5	4
bictegravir/emtricitabine/tenofovir / antiviral combinations	\$276,966	\$313,243	\$367,784	133	126
aripiprazole / atypical antipsychotics	\$540,673	\$527,236	\$609,382	3,027	2,845
ibrutinib / multikinase inhibitors	\$50,526	\$107,532	\$107,532	6	6
asfotase alfa / miscellaneous metabolic agents	\$0	\$48,109	\$48,109	1	1
lomitapide / miscellaneous antihyperlipidemic agents	\$0	\$0	\$39,692	1	1
valbenazine / VMAT2 inhibitors	\$74,839	\$124,629	\$110,484	19	17
abemaciclib / CDK 4/6 inhibitors	\$22,679	\$19,495	\$50,302	5	4
tipiracil-trifluridine / antineoplastic combinations	\$13,683	\$30,438	\$40,931	4	3
sofosbuvir/velpatasvir/voxilaprevir / antiviral combinations	\$0	\$0	\$24,928	1	1
selexipag / agents for pulmonary hypertension	\$16,504	\$41,237	\$41,237	2	2
cariprazine / atypical antipsychotics	\$109,860	\$120,904	\$134,512	113	108
regorafenib / multikinase inhibitors	\$17,844	\$34,762	\$40,934	3	3
azithromycin / macrolides	\$233,512	\$262,445	\$254,176	13,269	12,985
deutetrabenazine / VMAT2 inhibitors	\$43,093	\$46,227	\$63,033	13	11
niraparib / PARP inhibitors	\$0	\$0	\$19,810	1	1
pegfilgrastim / colony stimulating factors	\$0	\$12,106	\$18,160	3	2
cabozantinib / multikinase inhibitors	\$0	\$17,549	\$17,549	1	1
aztreonam / miscellaneous antibiotics	\$17,210	\$43,015	\$34,416	4	4
sunitinib / VEGF/VEGFR inhibitors	\$39,161	\$70,995	\$56,322	4	4

TABLE I: TOP 15 DRUG SOLID DOSAGE FORM HIGH VOLUME (100+ RX FILLS LAST MONTH) PRODUCTS WITH UNIT COST > \$1 BY PERCENT CHANGE IN AMOUNT PAID PER UNIT OCT 2018 TO DEC 2018 (FFS and CCOs)

Drug Product Therapeutic Category	Dec 2018 # Claims	Dec 2018 \$ Paid	Dec 2018 Avr. Paid Per Rx	Dec 2018 Avr. Units Per Rx	Oct 2018 Paid Per Unit	Nov 2018 Paid Per Unit	Dec 2018 Paid Per Unit	Percent Change
Biktarvy (bictegravir/emtricitabine/tenofovir) 50 mg-200 mg-25 mg tablet / antiviral combinations (P)	133	\$367,784	\$2,765.29	30	\$88.28	\$89.64	\$91.80	4.0%
cefprozil 500 mg tablet / second generation cephalosporins (P)	127	\$4,468	\$35.18	19	\$1.22	\$1.01	\$1.24	1.8%
Zetia (ezetimibe) 10 mg tablet / cholesterol absorption inhibitors (P)	137	\$46,362	\$338.41	30	\$10.91	\$10.96	\$10.96	0.5%
Lyrica (pregabalin) 75 mg capsule / gamma-aminobutyric acid analogs (P)	358	\$165,437	\$462.12	64	\$7.04	\$7.08	\$7.07	0.4%
Vyvanse (lisdexamfetamine) 20 mg tablet, chewable / CNS stimulants (P)	190	\$55,112	\$290.06	30	\$9.37	\$9.34	\$9.40	0.4%
Lyrica (pregabalin) 50 mg capsule / gamma-aminobutyric acid analogs (P)	156	\$76,032	\$487.38	67	\$7.03	\$7.05	\$7.05	0.3%
Vimpat (lacosamide) 200 mg tablet / miscellaneous anticonvulsants (P)	162	\$132,050	\$815.12	60	\$13.46	\$13.26	\$13.48	0.2%
Renagel (sevelamer) 800 mg tablet / phosphate binders (P)	104	\$158,074	\$1,519.94	219	\$6.69	\$6.73	\$6.70	0.1%
Focalin XR (dexmethylphenidate) 5 mg capsule, extended release / CNS stimulants (P)	128	\$45,235	\$353.40	30	\$11.47	\$11.48	\$11.48	0.1%
Lyrica (pregabalin) 200 mg capsule / gamma-aminobutyric acid analogs (P)	129	\$68,057	\$527.58	73	\$7.09	\$7.09	\$7.09	0.0%
Focalin XR (dexmethylphenidate) 15 mg capsule, extended release / CNS stimulants (P)	364	\$134,472	\$369.43	30	\$11.96	\$12.00	\$11.96	(0.0%)
Focalin XR (dexmethylphenidate) 30 mg capsule, extended release / CNS stimulants (P)	264	\$91,696	\$347.33	30	\$11.48	\$11.50	\$11.47	(0.0%)
Trintellix (vortioxetine) 20 mg tablet / miscellaneous antidepressants (P)	171	\$64,469	\$377.01	30	\$11.93	\$11.92	\$11.93	(0.1%)

Products are only included if 100 or more fills in last month and average cost per unit in reference month was >= \$1.

TABLE I: TOP 15 DRUG SOLID DOSAGE FORM HIGH VOLUME (100+ RX FILLS LAST MONTH) PRODUCTS WITH UNIT COST > \$1 BY PERCENT CHANGE IN AMOUNT PAID PER UNIT OCT 2018 TO DEC 2018 (FFS and CCOs)

Drug Product Therapeutic Category	Dec 2018 # Claims	Dec 2018 \$ Paid	Dec 2018 Avr. Paid Per Rx	Dec 2018 Avr. Units Per Rx	Oct 2018 Paid Per Unit	Nov 2018 Paid Per Unit	Dec 2018 Paid Per Unit	Percent Change
Xulane (ethinyl estradiol-norelgestromin) 35 mcg-150 mcg/24 hr film, extended release / contraceptives (P)	955	\$129,403	\$135.50	4	\$38.31	\$38.35	\$38.28	(0.1%)
Focalin XR (dexmethylphenidate) 10 mg capsule, extended release / CNS stimulants (P)	397	\$141,760	\$357.08	30	\$11.60	\$11.57	\$11.58	(0.2%)

Products are only included if 100 or more fills in last month and average cost per unit in reference month was >= \$1.

New Business

Special Analysis Projects

MISSISSIPPI DIVISION OF MEDICAID

MS-DUR INTERVENTION / EDUCATIONAL MAILING UPDATE

DECEMBER 2018 – JANUARY 2019

Ongoing Mailings:

HIGH MEDD (≥90 MEDD) MAILING			BENZODIA OPIOI	MITANT AZEPINE / D USE	PROVIDER SHOPPING FOR OPIOIDS (>4 Prescribers AND >4 Pharmacies)		
Ini	tiated Sept 20	016	Initiated	Feb 2017	Ini	tiated Nov 20	17
Month	Prescribers	Benes	Prescribers	Benes	Prescribers	Pharms	Benes
Wonth	Mailed	Addressed	Mailed	Addressed	Mailed	Mailed	Addressed
17-Dec	-	-	150	485	56	44	105
18-Jan	46	50	150	380	54	32	95
18-Feb	54	71	150	485	54	42	107
18-Mar	46	49	150	368	51	39	100
18-Apr	53	68	150	412	54	44	105
18-May	*20	*21	150	*187	48	34	85
18-Jun	*31	*40	150	*283	*31	*18	*53
18-Jul	48	56	150	323	*33	*26	*65
18-Aug	35	53	150	405	48	34	83
18-Sep	41	50	150	292	36	31	67
18-Oct	33	45	150	321	39	30	74
18-Nov	*19	*25	150	*232	43	31	77
18-Dec	-	-	150	338	*21	*17	38
19-Jan	37	48	150	276	28	22	50

* Data for CCOs was incomplete at the time the mailing was run

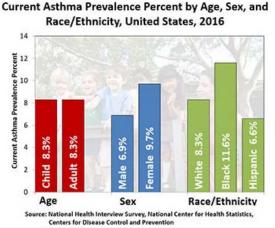
** Began excluding sickle cell diagnosis in Oct 2018

ASTHMA OVERVIEW AND MISSISSIPPI MEDICAID PERFORMANCE ON RELATED QUALTIY MEASURES

BACKGROUND

Asthma, a heterogeneous disease typically characterized by chronic airway inflammation, is defined by repeated episodes of respiratory symptoms such as wheezing, shortness of breath, chest tightness, and cough together with variable expiratory airflow limitations.¹ According to the Centers for Disease Control and Prevention (CDC) data, over 25 million Americans (8.3%) are impacted by asthma. In Mississippi it is estimated that over 175,000 (7.8%) of individuals have asthma.² The World Health Organization (WHO) reports that asthma is the most common chronic disease among children.³ Figure 1 displays asthma prevalence statistics in the United States as reported by the CDC in 2016. ⁴ It is estimated the economic burden of asthma associated with medical expenses, missed days of work and school, and deaths is more than \$80 billion annually in the U.S.⁵

FIGURE 1:



Asthma severity is broadly classified as either intermittent or persistent. Within the persistent asthma classification there are three subtypes: mild, moderate and severe. Multiple factors determine severity classification such as symptom frequency, nighttime awakenings, use of short-acting beta agonist, interference with normal activities, lung function and use of oral corticosteroids. (Figure 2) ⁶

⁶ Asthma Care Quick Reference: Guidelines from the National Asthma Education and Prevention Program. National Heart, Lung, and Blood Institute. June 2002. Revised September 2012 https://www.nhlbi.nih.gov/files/docs/guidelines/asthma_grg.pdf

¹ Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2018. <u>https://ginasthma.org/gina-reports/</u>

² Centers for Disease Control and Prevention: Asthma Surveillance Data. <u>https://www.cdc.gov/asthma/most_recent_data.htm</u>

³ World Health Organization: Chronic Respiratory Diseases – Asthma. <u>https://www.who.int/respiratory/asthma/en/</u>

⁴ Centers for Disease Control and Prevention: Asthma Data. <u>https://www.cdc.gov/asthma/asthmadata.htm</u>

⁵ Nurmagambetov T, Kuwahara R, Garbe P. The economic burden of asthma in the United States, 2008-2013. Ann Am Thorac Soc. 2018;15(3):348–56.

Figure 2: Asthma Severity Classification

INITIAL VISIT: CLASSIFYING ASTHMA SEVERITY AND INITIATING THERAPY (in patients who are not currently taking long-term control medications)

Level of severity (Columns 2-5) is determined by events listed in Column 1 for both impairment (frequency and intensity of symptoms and functional limitations) and risk (of exacerbations). Assess impairment by patient's or caregiver's recall of events during the previous 2-4 weeks; assess risk over the last year. Recommendations for initiating therapy based on level of severity are presented in the last row.

		1							Persistent								
	Components of		Intermitten			Mild			Moderate			Severe					
	Severity	Ages Ages Ages 0-4 years 5-11 years ≥12 years		Ages 0-4 years	Ages 5-11 years	Ages ≥12 years	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years					
	Symptoms		≤2 days/week		>2 day	/s/week but not	t daily		Daily		Tł	roughout the c	lay				
	Nighttime awakenings	0	≤2x/I	month	1-2x/month	3-4x/r	month	3-4x/month	>1x/week b	ut not nightly	>1x/week	Often 7	/x/week				
ant	SABA [*] use for symptom control (not to prevent EIB [*])		≤2 days/week		>2 days/week but not daily			Daily		Several times per day		day					
Impairment	Interference with normal activity		None		Minor limitation Some limitation		Minor limitation		Minor limitation Some limitation		Minor limitation Some limitation		Some limitation		Extremely limited		d
цщ	Lung function		Normal FEV, between exacerbations	Normal FEV, between exacerbations													
	FEV [*] ₁ (% predicted)	Not applicable	>80%	>80%	Not applicable	>80%	>80%	Not applicable	60-80%	60-80%	Not applicable	<60%	<60%				
	FEV₁/FVC*		>85%	Normal [†]		>80%	Normal†		75-80%	Reduced 5% [†]		<75%	Reduced >5% ^{\dagger}				
					≥2 exacerb. in 6 months, or wheezing Generally, more frequent and			nd intense events indicate greater severity.									
Risk	Asthma exacerbations requiring oral systemic corticosteroids [‡]		0-1/year		≥4x per year lasting >1 day AND risk factors for	≥2/∖	/ear	Generally, more	frequent and i	ntense events ind	dicate greater se	everity.					
			Consider s	everity and interv	persistent asthma val since last ast	hma exacerbati	on. Frequency	and severity ma	av fluctuate ove	er time for patier	nts in anv severi	v category.	_				
							, .	ations may be re				,					

Although asthma cannot be cured, asthma is a treatable condition. A stepwise approach for managing asthma based on severity classification is recommended. This approach is a continuous cycle of assessing symptoms, adjusting therapy, and reviewing outcomes. As the understanding of the pathologic mechanisms of asthma continues to evolve, new therapies are being introduced. Due to this fast pace in innovation, treatment guidelines need continuous updating. One constant is the recommendation for controller medication for any patient classified as persistent, therefore, managing patients classified as having persistent asthma is vital. Below is a summary of treatment recommendations from the Global Initiative for Asthma (GINA) 2018 report (Figures 3 and 4).⁷

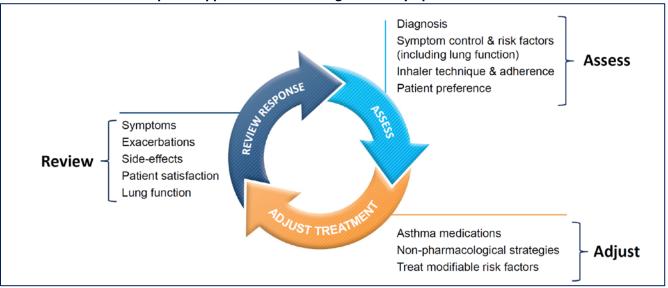


FIGURE 3: 2018-GINA Stepwise Approach to Controlling Asthma Symptoms

⁷ Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2018. <u>https://ginasthma.org/gina-reports/</u>

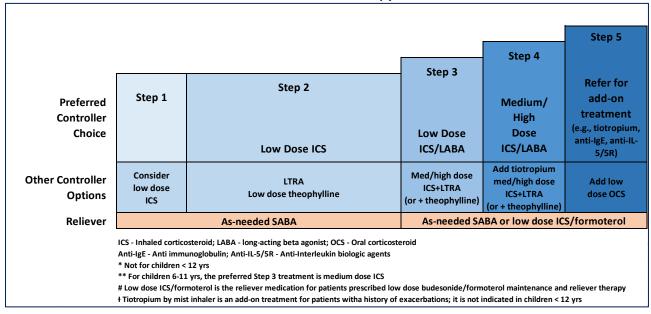


FIGURE 4: 2018 GINA-Recommended Asthma Pharmacotherapy

When appropriately managed, asthma treatment can result in billions of dollars of savings in U.S. healthcare costs. Conversely the under-treatment of asthma creates substantial quality of life burdens on individuals and families. The CDC's National Asthma Control Program reports uncontrolled asthma among persons with current asthma. From 2006-2010, the report found that an average of 38.4% of children and 50.0% of adults with asthma in the U.S. were uncontrolled. Specifically, Mississippi ranked either at or near the bottom in uncontrolled asthma in both children (53.1%) and adults (58.4%).⁸

The need for improved management of asthma is evident, and healthcare quality measures have been developed to help address this need. The Centers for Medicare and Medicaid's Core Set Measures were developed to support states' efforts to measure and improve the quality of health care for children and adults enrolled in Medicaid. The Asthma Medication Ratio (AMR) measure is part of CMS' Medicaid Adult and Child Core Sets for FFY-2018 reporting.

In order to assess how well asthma is being managed in the Mississippi Medicaid population, MS-DUR examined performance on the CMS Core Set Measure AMR and on the Pharmacy Quality Alliance (PQA) measures for Medication Therapy for Person with Asthma. MS-DUR recently assisted DOM in reporting the AMR core measures for Federal fiscal year (FFY) 2018. Additionally, MS-DUR added the PQA measures to this data set in order to provide a more thorough examination of asthma management.

⁸ Centers for Disease Control and Prevention: Uncontrolled Asthma among Persons with Current Asthma. <u>https://www.cdc.gov/asthma/asthma_stats/uncontrolled_asthma.htm</u>

METHODS

The "Asthma Medication Ratio" is included in both the Medicaid Adult and Child Core Sets for FYY-2018 reporting (AMR-AD, AMR-CH). The AMR assesses the appropriate use of controller medications for beneficiaries with persistent asthma. The AMR measure is defined as the percentage of beneficiaries having persistent asthma and a ratio of controller medications to total asthma medications of 0.50 or greater during the measurement year. This measure was developed by the National Collaborative for Innovation in Quality Measurement, and is included in HEDIS® 2018. The measurement specifications are summarized in Table 1⁹.

TABLE 1	TABLE 1: AMR-AD and AMR-CH Measurement Specifications							
Measurement Year	January 1, 2017 - December 31, 2017							
Denominator	 Medicaid enrollees 5 - 18 for children and 19 - 64 for adults identified as having persistent asthma. Beneficiaries are identified as having persistent asthma if they meet at least one of the following criteria during both the measurement year and the year prior to the measurement year. At least one emergency department (ED) visit with a principal diagnosis of asthma. At least one acute inpatient encounter with a principal diagnosis of asthma. At least four outpatient visits or observation visits on different dates of service with any diagnosis of asthma and at least two asthma medication dispensing events. At least four asthma medication dispensing events. If all medication dispensing events are for leukotriene modifiers or antibody inhibitors, must also have at least one diagnosis of asthma, in any setting, during the same year as the medication dispensing events. 							
Numerator	Beneficiaries with a ratio of controller medications units to total asthma medication units of 0.50 or greater.							
Continuous Enrollment	Beneficiary must be enrolled for entire measurement year and the prior year. No more than one gap in continuous enrollment of up to 45 days is allowed during each year.							
Exclusions	Beneficiaires are excluded from the denominator if they had no asthma medications dispensed during the measure year of if they had any diagnosis, in any setting, during the observation year or prior year for emphysema, COPD, obstructive chronic bronchitis, chronic respiratory conditions due to fumes/vapors, cystic fibrosis, or acute respiratory failure.							
Anchor Date	The anchor date for determining age is December 31 of the measurement year.							

*A higher rate indicates better performance on AMR measures.

⁹ Centers for Medicare and Medicaid Services, Core Set of Adult Health Care Quality Measures for Medicaid: Technical Specifications and Resource Manual for Federal Fiscal Year 2018 Reporting. https://www.medicaid.gov/medicaid/quality-ofcare/downloads/medicaid-adult-core-set-manual.pdf

The PQA Medication Therapy for Persons with Asthma (MTPA) measure was developed for use by programs where only pharmacy data are available. The MTPA measures the percentage of individuals who received prescriptions for medications used to treat asthma with >3 canisters of a short-acting beta2 agonist inhaler over a 90-day period and who did not receive controller therapy during the same 90-day period. The denominator for the measure includes beneficiaries meeting the following criteria:

- Continuously enrolled
- ≥ 2 prescription claims for medications used to treat asthma with different dates of service and within 120 days of one another.
- No prescription claims for medications used to treat COPD.

Two rates are reported:

- Rate 1: Suboptimal Asthma Control: The percentage of individuals with prescription claims for medication used to treat asthma with >3 canisters of a short-acting beta2 agonist inhaler over a 90-day period.
- Rate 2: Absence of Controller Therapy: The percentage of individuals with prescription claims for >3 canisters of short acting beta2 agonist inhalers over a 90-day period and who did not receive controller therapy during the same 90-day period.

*A lower rate indicates better performance for both PQA MTPA measure rates.

RESULTS

Table 2 shows the AMR-CH quality measure rates for CY 2017 for all Mississippi Medicaid beneficiaries meeting the inclusion criteria for the denominator.

- The overall rate within Mississippi Medicaid was 61.8%.
- The rate for FFS was significantly higher than the rate for the two CCOs.
- Rates varied considerably for different racial groups.

Table 3 shows the AMR-AD quality measure rates for CY 2017 for all Mississippi Medicaid beneficiaries meeting the inclusion criteria for the denominator.

- The overall rate within Mississippi Medicaid was 43.6% and was considerably lower than for that for children.
- The rate for FFS was significantly higher than the rate for the two CCOs.
- Rates varied for different racial groups but there was less
 variability across race
 than there was for children.

TABLE 2: Mississippi Medicaid Performance on CMS/HEDIS Asthma Medication Ratio (AMR-CH)

* Children Only * (January 1, 2017 - December 31, 2017 Reporting Period)

Includes Medic	aid ONLY - No CHIP

Beneficiary			Numerator	
Cha	racteristics	Denominator	(AMR ≥0.50)	Rate*
	TOTAL	8,924	5,516	61.8%
٨٣٥	5 - 11	5,190	3,458	66.6%
Age	12 - 18	3,734	2,058	55.1%
Gender	Female	3,673	2,280	62.1%
Gender	Male	5,251	3,236	61.6%
	Caucasian	2,785	2,098	75.3%
	Afr. Amer.	5,762	3,148	54.6%
Race	Amer. Indian	21	19	90.5%
	Hispanic	152	93	61.2%
	Other	204	158	77.5%
Dharmany	FFS	879	780	88.7%
Pharmacy	UHC	3,837	2,263	59.0%
Program	MAG	4,208	2,473	58.8%

* Rate is percentage of beneficiaries with ratio of controller medication units to total asthma medication units of 0.50 or greater.

CMS	TABLE 3: Mississippi Medicaid Performance on CMS/HEDIS Asthma Medication Ratio (AMR-AD) * Adults Only * (January 1, 2017 - December 31, 2017 Reporting Period) Includes Medicaid ONLY - No CHIP								
	eneficiary		Numerator						
Cha	racteristics	Denominator	(AMR ≥0.50)	Rate					
	TOTAL	1,896	827	43.6%					
٨٥٥	19 - 50	1,337	575	43.0%					
Age	51 - 64	559	252	45.1%					
Gender	Female	1,416	594	41.9%					
Gender	Male	480	233	48.5%					
	Caucasian	535	257	48.0%					
Daca	Afr. Amer.	1,182	478	40.4%					
Race	Hispanic	4	2	50.0%					
	Other	175	90	51.4%					
Dharmag	FFS	155	122	78.7%					
Pharmacy UHC 664 262 39.									

* Rate is percentage of beneficiaries with ratio of conroller medication units to total asthma medciation units of 0.50 or greater.

1,077

443

41.1%

* A higher rate indicates better performance on AMR measures.

Program

MAG

Table 4 shows the MTPA rates for Mississippi Medicaid in 2017.

- Overall, 9.1% of the beneficiaries taking asthma medications were classified as having suboptimal asthma control (prescription fills for 3 or more rescue inhaler canisters within a 90-day period).
- Among the beneficiaries with sub-optimal asthma control, 43% did not have a prescription for a controller medication during the same 90-day period.
- This rate varied only slightly among the three pharmacy programs.

*A lower rate indicates better performance for both PQA MTPA measure rates.

TABLE 4: Mississippi Medicaid Performance on PQA Medication Therapy for Persons With Asthma (MTPA) (January 1, 2017 - December 31, 2017 Reporting Period) Includes Medicaid ONLY - No CHIP					
		Denor	ninator	Numerator	Rate
PQA Suboptimal Asthma Control*		34,775		> 3 canisters of SA inhaler over 90-day period 3,154	9.1%
Total PQA Absence of Controller Therapy		3,:	154	Suboptimal control and no controller therapy during same 90-day period 1,356	43.0%
	Pharmacy Program		336 1,239 1,579	138 545 673	41.1% 44.0% 42.6%

* PQA overall denominator includes all beneficiaries continuously enrolled, having ≥ 2 asthma medications prescription fills in 120 days and not taking medications indicated for COPD.

Table 5 shows the relationship between performance on the CMS/HEDIS AMR measure and the PQA Absence of Controller measure and asthma related visits to the emergency department (ED).

- For both measures, poor performance on the measure was significantly related to having asthma related ED visits during the year.
- Beneficiaries with asthma and having < 0.5 on the AMR were twice as likely to have asthma related ED visits (21.6% vs. 10.5%).
- Beneficiaries having 3 or more rescue inhalers in a 90-day period without a controller medication were almost twice as likely to have asthma related ED visits as were those taking controller medications (15.5% vs. 8.4%).

TABLE 5: Relationship Between Performance on AMR and PQA Measures and Asthma Related Emergency Department Visits					
	Asthma Related ED Visits During Year				
Measur	е	N	0	Y	es
CMS/HEDIS	AMR < 0.5	2097	78.4%	577	21.6%
AMR Measure*	AMR ≥ 0.5	7465	89.5%	879	10.5%
PQA Absence of	No controller	1,520	84.5%	278	15.5%
Controller Measure*	Controller	1242	91.6%	114	8.4%

* Significant relationship (p<0.001)

CONCLUSIONS AND RECOMMENDATIONS

Both of these measures indicate there is room for improvement with respect to the management of asthma in Mississippi Medicaid. Only 62% of children and 44% of adults included in the CMS/HEDIS AMR measure had an acceptable ratio of controller units to rescue units. On the PQA measure, 9% of beneficiaries taking asthma medications had prescription fills for 3 or more rescue inhalers in a 90-day period of time, and of these, 43% did not receive a controller medication during the 90-day period. Both quality measures provide criteria that can easily be used to identify beneficiaries for inclusion in quality improvement efforts.

Recommendations:

- 1. MS-DUR should design and implement an educational intervention program to educate providers about performance on asthma medication management and to identify beneficiaries who are not meeting quality measure criteria.
- 2. DOM and the CCOs should identify beneficiaries failing to meet the quality measures' criteria enrolling these identified beneficiaries in management programs designed to educate patients on the importance of proper treatment for asthma and encourage greater utilization of controller medications.

Mississippi Division of Medicaid DUR Board Packet (Ver 1) - March 2019 - Page 31

TRANSIENT OPIOID USE AND SHORT-TERM ACUTE COPD EXACERBATIONS IN MS MEDICAID

BACKGROUND

Chronic obstructive pulmonary disease (COPD) impacts over 15 million Americans annually and is among the leading causes of death in the United States.¹ COPD patients are prone to repeated exacerbations resulting in acute worsening of respiratory symptoms leading to increased mortality, reduced quality of life and increased healthcare utilization costs.^{2,3,4,5,6} Many factors such as smoking, infection, poor medication adherence and other environmental factors are known to increase the risk of COPD exacerbations.^{7,8,9} The use of narcotic analgesics or opioids is also a factor associated with increased risk of COPD exacerbation.¹⁰ Previous research into the association between opioid use and COPD exacerbations has been limited to periods of historical use ranging from 30 to 180 days. There is little research examining the risk of COPD exacerbation and short-term opioid exposure duration. The objective of this study is to examine the association of transient opioid use and acute respiratory exacerbations among adults with COPD enrolled in the Mississippi Division of Medicaid (DOM).

METHODS

MS-DUR recently completed a special study to examine the impact of opioid use among beneficiaries with COPD. This study utilized a case-crossover design to examine the association between transient opioid use and acute COPD exacerbations with the DOM's claims data from 2013 to 2017. The use of a case-crossover design helps evaluate the impact of transient risk factors on abrupt outcomes with each subject serving as their own control. This means that each

¹ National Center for Chronic Disease Prevention and Health Promotion. Chronic Obstructive Pulmonary Disease. June 5, 2018. <u>https://www.cdc.gov/copd/maps/index.htm</u>. Accessed February 1, 2019.

² Wedzicha JA, Seemungal TA. COPD exacerbations: defining their cause and prevention. *The Lancet*. 2007; 370(9589):786-796.

³ National Heart, Lung, And Blood Institute. Morbidity and Mortality: 2012 Chart Book on Cardiovascular, Lung, and Blood Diseases. 2012. Available: http://www.nhlbi.nih.gov/files/docs/research/2012_ChartBook_508.pdf, 2013.

⁴ Burt L, Corbridge S. COPD exacerbations. *The American Journal of Nursing*, 2013; 113(2): p. 34-43.

⁵ Shah T, Press VG, Huisingh-Scheetz M, White SR. COPD Readmissions: Addressing COPD in the Era of Value-based Health Care. *Chest*, 2016; 150(4): p. 916-926.

 ⁶ Seemungal TA, Donaldson GC, Paul EA, et al. Effect of exacerbation on quality of life in patients with chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*. 1998; 157(5):1418-1422
 ⁷ Pavord ID, Jones PW, Burgel PR, Rabe KF. Exacerbations of COPD. *International Journal of Chronic Obstructive Pulmonary Disease*. 2016;11(Spec Iss):21.

⁸ Seemungal TA, Hurst JR, Wedzicha JA. Exacerbation rate, health status and mortality in COPD–a review of potential interventions. *International Journal of Chronic Obstructive Pulmonary Disease*. 2009; *4*: 203.

⁹ Halpin DM, Miravitlles M, Metzdorf N, Celli B. Impact and prevention of severe exacerbations of COPD: a review of the evidence. *International Journal of Chronic Obstructive Pulmonary Disease*. 2017; 12:2891.

¹⁰ Samp JC, Joo MJ, Schumock GT, et al. Predicting Acute Exacerbations in Chronic Obstructive Pulmonary Disease. *Journal of Managed Care & Specialty Pharmacy.* 2018; 24(3): 265-279.

subject's short-term exposure just before an event of interest is compared with their exposure within the one or more control periods which are more remote from the case event. ^{11,12} In this study opioid use within a 7-day case window immediately before each COPD exacerbation was compared to the same individual's opioid use in ten 7-day control windows. These successive 70 days before the case window are shown in Figure 1. A statistically significant result would represent transient exposure of opioid in 7 days increases the risk of acute COPD exacerbation.

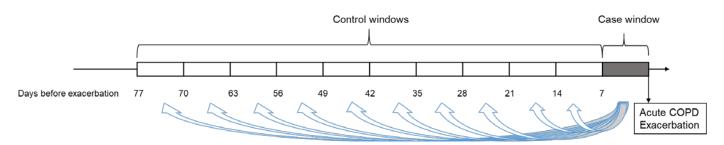


Figure 1 Conceptual Framework of the Study Design

Both 2018 medical and pharmacy claims were used to determine the number of currently enrolled beneficiaries with COPD and any associated use of opioids during that year. This analysis provides data on the number of Medicaid beneficiaries diagnosed with COPD and potential opioid use impact on this disease in 2018.

¹¹ Maclure M, Mittleman AM. Should we use a case-crossover design? *Annual review of public health*. 2000;21(1):193-221.

¹² Maclure M. The case-crossover design: a method for studying transient effects on the risk of acute events. *American journal of epidemiology.* 1991; 133(2): 144-153.

RESULTS

A total of 1,354 Medicaid beneficiaries and 1,972 COPD exacerbation events met the study inclusion criteria.

- 62.3% of the COPD exacerbations had an opioid prescription claim during the seven-day period preceding the occurrence.
- Transient opioid exposure was found to be associated with an 80.8% increase in the odds of an acute respiratory exacerbation (Table 1).
- When opioid exposure was measured as a continuous variable, each 25mg increase in MEDD was found to be associated with an 11.2% increase in the odds of an acute respiratory exacerbation.
- Other medications, such as benzodiazepines and β-blockers were also significantly associated with an increased risk of a COPD exacerbation.

TABLE 1: Conditional Logistic Regression of Opioid and Other Medication Use and Respiratory Exacerbation of COPD (FFS and CCOs, 2013-2017)							
	Use wthin 7-days of respiratory exacerbation						
	Odds Ratio	95% Confide	ence Interval	P-value			
Use of Opioid	1.81	1.60	2.05	< 0.001*			
Use of Benzodiazepines ^a	2.22	1.72 2.86 < 0.001*					
Use of β-blockers ^a	2.18	1.56	3.05	< 0.001*			

^a Use was defined as prescence of a prescription claim resulting in possession of the medication during the case or the control windows preceding each exacerbation event.

As of December, 2018, there were a total of 14,596 beneficiaries enrolled in Mississippi Medicaid who had diagnoses of COPD (Table 2).

- Beneficiaries with COPD were almost twice as likely to be female.
- Beneficiaries with COPD were more likely to be \geq 45 years of age.
- Although COPD was more prevalent in the FFS program, there were also a large number of COPD patients in the Coordinated Care Organizations (CCOs).

	TABLE 2: CHARACTERISTICS OF BENFICIARIES WITH COPD DIAGNOSES ENROLLED IN DECEMBER 2018 (Excludes Nursing Home Residents and Dual-Eligibles)								
					Pharmacy	/ Program			
		FI	S	UI	HC	M	AG	M	OL
	TOTAL 5,951 3,752 4,717 17						76		
	Caucasian	3,127	52.5%	1,820	48.5%	2,255	47.8%	90	51.1%
Race	African American	2,288	38.4%	1,285	34.2%	1,695	35.9%	64	36.4%
	Other	536	9.0%	647	17.2%	767	16.3%	22	12.5%
Gender	Female	3,876	65.1%	2,343	62.4%	2,983	63.2%	108	61.4%
Gender	Male	2,075	34.9%	1,409	37.6%	1,734	36.8%	68	38.6%
	Less than 18	90	1.5%	183	4.9%	232	4.9%	13	7.4%
A = =	18 - 44	317	5.3%	615	16.4%	675	14.3%	54	30.7%
Age	45 - 64	2,807	47.2%	2,943	78.4%	3,791	80.4%	109	61.9%
	65+	2,737	46.0%	11	0.3%	19	0.4%	0	0.0%

Table 3 provides information on opioid use among beneficiaries with COPD who were enrolled in Medicaid as of December 2018 for that calendar year.

- Overall, 58% of beneficiaries with COPD had one or more opioid prescriptions during 2018. The percentage of beneficiaries with COPD having opioid prescriptions was much higher in the CCOs than in FFS.
- Of this 58%, about three-fourths of beneficiaries with opioid prescriptions had a maximum morphine equivalent daily dose (MEDD) < 50.
- Although few patients received high opioid doses, analyses in the study conducted by MS-DUR indicated that any dose of opioid significantly increases the likelihood of an exacerbation event.

	TABLE 3: OPIOID PRESCRIPTION USE								
AN	AMONG BENFICIARIES WITH COPD DIAGNOSES ENROLLED IN DECEMBER 2018								
	(Exc	ludes Nurs	ing Home	Residents d	and Dual-E	ligibles)			
					Pharmacy	/ Program			
		FI	FS	UI	HC	M	AG	Μ	OL
	TOTAL 5,951 3,752 4,717 17					76			
Number of	0	4,742	79.7%	1,480	39.4%	2,071	43.9%	100	56.8%
Opioid	1	331	5.6%	470	12.5%	615	13.0%	29	16.5%
•	2	171	2.9%	273	7.3%	381	8.1%	14	8.0%
Prescription Fills	3	135	2.3%	183	4.9%	197	4.2%	9	5.1%
FIIIS	4+	572	9.6%	1,346	35.9%	1,453	30.8%	24	13.6%
	< 50 MEDD	965	79.8%	1,672	73.6%	1,993	75.3%	56	73.7%
Maximum	50 - 89 MEDD	156	12.9%	419	18.4%	467	17.6%	15	19.7%
MEDD	90 - 119 MEDD	33	2.7%	83	3.7%	95	3.6%	2	2.6%
	120 + MEDD	55	4.5%	98	4.3%	91	3.4%	3	3.9%

CONCLUSIONS AND RECOMMENDATIONS

Opioid use is fairly common among beneficiaries with a diagnosis of COPD. Even at lower doses, opioid use increases the likelihood of an exacerbation event. The DOM is implementing an opioid edit to require a manual prior authorization (PA) when the cumulative MEDD exceeds 90. As noted in the yellow highlighted area in table 3, this edit requiring a subsequent manual PA will have minimal impact on the quantity of manual PAs required for opioid prescriptions written for beneficiaries with COPD. The results of these analyses highlight a need to educate providers on the increased risk of exacerbation events in COPD patients associated with short-term opioid use.

Recommendations:

1. MS-DUR should implement a provider education initiative to address the risk associated with short-term opioid use among beneficiaries with COPD.

FDA DRUG SAFETY COMMUNICATIONS

December 2018 – February 2019

• FDA warns about increased risk of ruptures or tears in the aorta blood vessel with fluoroquinolone antibiotics in certain patients 12/20/2018

APPENDIX

MS-DUR BOARD COMMON ABBREVIATIONS

AWP	Any Willing Provider, Average
	Wholesale Price
BENE	Beneficiary
CAH	Critical Access Hospital
CCO	Coordinated Care Organization
CDC	Centers for Disease Control
CHIP	Children's Health Insurance
	Program
CMS	Center for Medicare and Medicaid
	Services
СОВ	Coordination of Benefits
CPC	Complex Pharmaceutical Care
DME	Durable Medical Equipment
DOC	Department of Corrections
DOM	Division of Medicaid
DUR	Drug Utilization Review
EOB	Explanation of Benefits
EPSDT	Early and Periodic Screening,
	Diagnosis and Treatment
FA	Fiscal Agent
FFS	Fee For Service
FPW	Family Planning Waiver
FQHC	Federally Qualified Health Clinic
FY	Fiscal Year
HB	House Bill
HCPCS/	Health Plan Employer Data and
HEIDIS	Information Set
HHS	Department of Health and Human
	Services
HIPAA	Health Insurance Portability and
	Accountability
IDD	Intellectual and Developmental
	Disabilities
LTC	Long Term Care
MAG	Magnolia Health
MEDD	Morphine Equivalent Daily Dose
MSCAN	Mississippi Coordinated Access
	Network
MSDH	Mississippi State Department of
	Health
NADAC	National Average Drug Acquisition
	Cost
NDC	National Drug Code
P&T	Pharmacy and Therapeutics
PA	Prior Authorization
PBM	Pharmacy Benefit Manager

PDLPreferred Drug ListPIProgram IntegrityPIPPerformance ImprovementProgramPOSPOSPoint of Sale, Place of Service, Point of ServicePro-DURProspective Drug Use ReviewOTCOver the CounterQIQuality IndicatorQIOQuality Improvement OrganizationQMQuality ManagementRARemittance AdviseREOMBRecipient's Explanation of Medicaid BenefitsRetro-Retrospective Drug UtilizationDURReviewRFIRequest for InformationRFPRequest for ProposalRHCRural Health ClinicSBSenate BillSCHIPState Child Health Insurance ProgramSMARTConduent's Pharmacy Application system used for Medicaid fee for service claimsSPAState Plan AmendmentUHCUnited HealthcareUM/QIOUtilization ReviewVFCVaccines for ChildrenWACWholesale Acquisition CostWICWomen, Infants, Children340BFederal Drug Discount Program		0115
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	WAC	Wholesale Acquisition Cost
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	340B	Federal Drug Discount Program