

## MASSACHUSETTS EXECUTIVE OFFICE OF HEALTH AND HUMAN SERVICES

Survey of the Average Cost of Dispensing a Medicaid Prescription in the State of Massachusetts

February 7, 2017



DEDICATED TO GOVERNMENT HEALTH PROGRAMS



## Table of Contents

Table of Contents	2
Executive Summary	3
Introduction	3
Massachusetts Survey Distribution	3
Table 1.1 Dispensing Cost Survey Response Rate (Massachusetts)	4
Summary of Findings	5
Table 1.2 Dispensing Cost for Massachusetts Medicaid Pharmacies	5
Conclusions	5

#### EXHIBITS

Exhibit 1 Cost of Dispensing Survey Data – Statistical Summary (Massachusetts)



#### DISPENSING COST SURVEY AND ANALYSIS

### Executive Summary

#### Introduction

Under contract to the New England States Consortium Systems Organization (NESCSO), Myers and Stauffer LC performed a study of pharmacy dispensing cost for the member states of NESCSO which include the state of Massachusetts. The cost of dispensing study included pharmacies that participate in the Medicaid programs of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. The cost of dispensing survey followed the methodology and used a survey instrument similar to those used by Myers and Stauffer in Medicaid pharmacy engagements in several other states. The methodology was consistent with guidelines from the Centers for Medicare and Medicaid Services (CMS) in its recently finalized rule for Medicaid pharmacy reimbursement regarding the components of pharmacy cost that are appropriately reimbursed by the professional dispensing survey, see the New England States Consortium Systems Organization Survey of the Average Cost of Dispensing a Medicaid Prescription in the States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont dated February 2, 2017.

#### **Massachusetts Survey Distribution**

Myers and Stauffer obtained from the Massachusetts Executive Office of Health and Human Services a list of pharmacy providers currently enrolled in the Massachusetts Medicaid pharmacy program. According to the provider list for the Massachusetts Medicaid program, there were 1,248 pharmacy providers enrolled in the program. Surveys were mailed to all 1,248 pharmacy providers on September 2, 2016. Each surveyed pharmacy received a copy of the cost survey and a letter of explanation from the Executive Office of Health and Human Services.

Concerted efforts to encourage participation were made to enhance the survey response rate. A survey help desk was provided by Myers and Stauffer. A toll-free telephone number and email address were listed on the survey form and pharmacists were instructed to call or email to resolve any questions they had concerning completion of the survey form. The letter of explanation offered pharmacy owners the option of having Myers and Stauffer complete certain sections of the survey for those that were willing to submit copies of financial statements and/or tax returns. For convenience in completing the cost of dispensing survey, the survey forms were also made available in electronic formats. Pharmacies were provided with options to report data using Excel spreadsheets.

Reminder letters were sent on September 19, 2016 to surveyed pharmacies. Additional letters were sent on October 4, 2016 with a further reminder and an extension of the original due date of October 4, 2016 to October 18, 2016.

Providers were given instructions to report themselves as ineligible for the survey if they met certain criteria. Pharmacies were to be deemed ineligible if they had closed their pharmacy, had a change of ownership, or had less than six months of cost data available (e.g., due to a pharmacy that recently opened, or changed ownership). Of the 1,248 surveyed pharmacies enrolled in the



Massachusetts Medicaid program, 8 pharmacies were determined to be ineligible to participate (based on the returned surveys).

Surveys were accepted through November 18, 2016. As indicated in Table 1.1, 1,006 surveyed pharmacies enrolled in the Massachusetts Medicaid program submitted a usable cost survey for this study resulting in a response rate of 80.6%.

Some of the submitted cost surveys contained errors or did not include complete information necessary for full evaluation. For cost surveys with such errors or omissions, the pharmacy was contacted for clarification. There were limited instances in which issues on the cost survey were not resolved in time for inclusion in the final analysis. There were 6 incomplete surveys received on or before November 18, 2016 that were eventually determined to be unusable because they were substantially incomplete or missing essential information. These issues could not be resolved in a timely manner with the submitting pharmacy. These incomplete surveys were not included in the count of 1,006 usable surveys received.

The following table, 1.1, summarizes the dispensing cost survey response rate for pharmacies enrolled in the Massachusetts Medicaid program.

Pharmacy Category	Medicaid Enrolled Pharmacies	Pharmacies Exempt or Ineligible from Filing	Eligible Pharmacies	Usable Cost Surveys Received	Response Rate
Chain <sup>1</sup>	996	1	995	881	88.5%
Non-chain	252	7	245	125	49.6%
TOTAL	1,248	8	1,240	1,006	80.6%
In-State Urban <sup>2</sup>	1,193	7	1,186	965	80.9%
In-State Rural	8	0	8	6	75.0%
Out-of-State	47	1	46	35	74.5%
TOTAL	1,248	8	1,240	1,006	80.6%

#### Table 1.1 Dispensing Cost Survey Response Rate (Massachusetts)

Myers and Stauffer performed thorough desk review procedures to test completeness and accuracy of all dispensing cost surveys submitted. As needed, pharmacies were contacted to

<sup>&</sup>lt;sup>1</sup> For purposes of this survey, a chain was defined as an organization having four or more pharmacies under common ownership or control on a national level.

<sup>&</sup>lt;sup>2</sup> For measurements that refer to the urban or rural location of a pharmacy, Myers and Stauffer used the county of the pharmacies' physical location and tables from the U.S. Census Bureau to determine if the pharmacy was located in a Metropolitan Statistical Area (MSA). Pharmacies in an MSA were assigned an "urban" location flag; other pharmacies were assigned a "rural" Location flag.



clarify their survey responses. Pharmacy-specific cost-finding algorithms were used to calculate the average cost of dispensing at each pharmacy and results from these pharmacies were subjected to statistical analysis.

#### **Summary of Findings**

Per the survey, the median cost of dispensing, weighted by Medicaid volume, for all pharmacies participating in the Massachusetts Medicaid program (including specialty pharmacies<sup>3</sup>) was \$10.02 per prescription.

	All Pharmacies Inclusive of Specialty
Pharmacies Included in Analysis	1,006
Unweighted Median <sup>A</sup>	\$11.16
Weighted Median <sup>A, B</sup>	\$10.02

<sup>A</sup> Inflated to common point of June 30, 2016 (midpoint of year ending December 31, 2016).

<sup>B</sup> Weighted by Medicaid volume.

Many additional measures of average pharmacy cost of dispensing and measures of variability are included in Exhibit 1.

#### Conclusions

Changes in the Massachusetts Medicaid pharmacy reimbursement formula should consider both the dispensing and ingredient components of the payment structure. Rates should take into consideration the final rule regarding Medicaid pharmacy services issued by CMS and published in the Federal Register on February 1, 2016.<sup>4</sup> This rule requires state Medicaid programs to change the current basis for ingredient reimbursement from the currently defined "estimated acquisition cost" (EAC) to the concept of "actual acquisition cost" (AAC). The final rule from CMS reiterated the importance of the pharmacy dispensing fee. CMS indicates that state Medicaid programs that make the switch to an AAC methodology will be required to also implement a professional dispensing fee that reflects the pharmacist's professional services and costs associated with the dispensing of drug products to Medicaid members. Changes to the pharmacy reimbursement methodology must consider both the ingredient reimbursement and the professional dispensing fee and must be supported by survey data. The final rule has an effective

<sup>&</sup>lt;sup>3</sup> For purposes of this report, "specialty" pharmacies are those pharmacies that reported sales for intravenous, home infusion, blood factor and/or other specialty services of 10% or more of total prescription sales.

<sup>&</sup>lt;sup>4</sup> See "Medicaid Program; Covered Outpatient Drugs." (CMS-2345-FC) Federal Register, 81: 20 (1 February 2016) p 5170.



date of April 1, 2016. State Medicaid programs must comply with its requirements by submitting a State Plan Amendment (SPA) by June 30, 2017 to be effective no later than April 1, 2017.

Based on the results of the study of pharmacy dispensing cost, a single dispensing fee of \$10.02 would reimburse the weighted median cost of dispensing prescriptions to Massachusetts Medicaid members inclusive of both specialty and non-specialty pharmacies.

The use of a single dispensing fee for all pharmacies represents the simplest reimbursement option and is the most widely used methodology for pharmacy dispensing fees among state Medicaid programs. Despite indications that the cost of dispensing in specialty pharmacies varies from the cost of dispensing in non-specialty pharmacies, the use of a differential dispensing fee for specialty pharmacies has been relatively infrequent among state Medicaid programs, though this may change as Medicaid programs transition to ingredient reimbursement based on acquisition cost. Several states have set dispensing fees for all pharmacies based on the cost of dispensing observed at non-specialty pharmacies. Exhibit 1 of this report includes average cost of dispensing measurements for specialty pharmacies which can be considered in the process of evaluating professional dispensing fees for the Massachusetts Medicaid program.

# Exhibit 1

## Cost of Dispensing Survey Data Statistical Summary

	Pharmacy Dispensing Cost per Prescription <sup>1</sup>												
		Measurements of Central Tendency										tatistics	
	_			Means		Medians				95% Confidence Interval for Mean (based on Student t)			
Characteristic	n: Number of Pharmacies	Average Total Prescription Volume	Average Medicaid Prescription Volume	Mean	Weighted by Total Rx Volume	Weighted by Medicaid Rx Volume	Median	Weighted by Total Rx Volume	Weighted by Medicaid Rx Volume	Standard Deviation	Lower Bound	Upper Bound	<i>t</i> Value (with n- 1 degrees of freedom)
All Pharmacies in Sample	1,006	98,346	10,493	\$15.87	\$11.39	\$11.03	\$11.16	\$10.31	\$10.02	\$56.36	\$12.39	\$19.36	1.96
Non Specialty Pharmacies <sup>2</sup> Specialty Pharmacies <sup>2</sup>	979 27	98,408 96,101	10,559 8,115	\$12.64 \$133.26	\$10.85 \$31.20	\$10.70 \$26.80	\$11.10 \$30.94	\$10.21 \$22.39	\$9.98 \$16.66	\$6.63 \$326.25	\$12.22 \$4.20	\$13.05 \$262.32	1.96 2.06
Specialty Pharmacy Breakdown <sup>3</sup> Blood Factor Compounded Infusion / Intravenous Other Other (340B Pharmacies only) Non Specialty Pharmacies Only	3 6 18 3	11,557 172,298 84,793 41,578	1,145 12,125 7,940 5,204	\$640.56 \$72.05 \$69.11 \$47.50	\$100.17 \$26.74 \$32.66 \$25.85	\$128.83 \$16.30 \$29.69 \$35.27	\$126.22 \$58.58 \$29.68 \$25.06	\$77.32 \$13.56 \$30.40 \$25.06	\$126.22 \$13.56 \$16.66 \$25.06	\$933.53 \$66.02 \$88.80 \$49.41	(\$1,678.00) \$2.76 \$24.95 (\$75.24)	\$2,959.60 \$141.34 \$113.27 \$170.23	4.30 2.57 2.11 4.30
Affiliation: Chain Non-chain	872 107	99,549 89,109	10,006 15,061	\$12.30 \$15.37	\$10.71 \$12.10	\$10.51 \$11.74	\$11.00 \$12.66	\$10.16 \$11.48	\$9.90 \$11.40	\$5.44 \$12.38	\$11.94 \$13.00	\$12.66 \$17.75	1.96 1.98
Affiliation (In State Only): Chain (In State) Non-chain (In State)	843 104	98,150 88,291	10,318 15,492	\$12.37 \$15.44	\$10.81 \$12.17	\$10.51 \$11.74	\$11.02 \$12.74	\$10.23 \$11.61	\$9.90 \$11.40	\$5.48 \$12.53	\$12.00 \$13.00	\$12.74 \$17.88	1.96 1.98
Location (Urban vs. Rural): <sup>4</sup> In State Urban In State Rural All In State (Urban and Rural) Out of State	941 6 947 32	97,384 47,458 97,067 138,076	10,944 1,832 10,886 871	\$12.71 \$13.11 \$12.71 \$10.43	\$10.94 \$12.80 \$10.94 \$8.93	\$10.70 \$12.29 \$10.70 \$8.99	\$11.12 \$12.57 \$11.14 \$9.18	\$10.35 \$12.33 \$10.35 \$8.23	\$9.98 \$12.33 \$9.98 \$7.90	\$6.70 \$3.09 \$6.69 \$4.00	\$12.28 \$9.86 \$12.28 \$8.99	\$13.14 \$16.35 \$13.14 \$11.87	1.96 2.57 1.96 2.04
Annual Rx Volume: 0 to 49,999 50,000 to 89,999 90,000 and Higher	246 334 399	68,031	3,187 7,085 18,011	\$18.00 \$11.86 \$9.98	\$16.20 \$11.74 \$9.87	\$16.08 \$11.67 \$9.79	\$15.27 \$11.25 \$9.63	\$14.14 \$11.12 \$9.63	\$14.04 \$11.04 \$9.43	\$10.62 \$3.02 \$2.36	\$16.66 \$11.54 \$9.75	\$19.33 \$12.19 \$10.21	1.97 1.97 1.97
Annual Medicaid Rx Volume: <sup>5</sup> 0 to 3,999 4,000 to 9,999 10,000 and Higher	343 311 325	85,047	2,008 6,548 23,422	\$15.67 \$11.73 \$10.30	\$12.85 \$11.15 \$9.95	\$14.96 \$11.61 \$10.07	\$13.23 \$11.11 \$9.78	\$11.68 \$10.78 \$9.69	\$12.79 \$11.05 \$9.63	\$9.66 \$3.18 \$2.88	\$14.64 \$11.38 \$9.98	\$16.70 \$12.09 \$10.61	1.97 1.97 1.97
Medicaid Utilization Ratio: <sup>5</sup> 0.00% to 5.99% 6.00% to 13.99% 14.00% and Higher	355 387 237	91,473 102,814 101,601	3,495 9,381 23,063	\$13.24 \$12.08 \$12.62	\$11.24 \$10.81 \$10.40	\$11.34 \$10.80 \$10.49	\$11.66 \$11.01 \$10.43	\$10.63 \$10.31 \$9.70	\$10.63 \$10.23 \$9.72	\$5.57 \$4.78 \$9.85	\$12.66 \$11.61 \$11.36	\$13.83 \$12.56 \$13.88	1.97 1.97 1.97

	Pharmacy Dispensing Cost per Prescription <sup>1</sup>												
	Measurements of Central Tendency									Other Statistics			
					Means Medians					95% Confidence Interval for Mean (based on Student t)			
Characteristic	n: Number of Pharmacies	Average Total Prescription Volume	Average Medicaid Prescription Volume	Mean	Weighted by Total Rx Volume	Weighted by Medicaid Rx Volume	Median	Weighted by Total Rx Volume	Weighted by Medicaid Rx Volume	Standard Deviation	Lower Bound	Upper Bound	<i>t</i> Value (with n- 1 degrees of freedom)
Total Rx Volume and Location In State Urban Only 0 to 49,999 50,000 to 89,999 90,000 and Higher	239 322 380	68,074	7,322	\$11.89	\$16.22 \$11.77 \$9.96	\$16.10 \$11.67 \$9.80	\$15.23 \$11.27 \$9.69	\$14.14 \$11.16 \$9.70	\$14.13 \$11.04 \$9.43	\$10.74 \$3.05 \$2.37	\$16.67 \$11.56 \$9.81	\$19.41 \$12.23 \$10.29	1.97 1.97 1.97
In State Rural only 0 to 49,999 50,000 to 89,999 90,000 and Higher	4 2 #N/A	38,064 66,246 #N/A	1,426 2,646 #N/A		\$13.59 \$11.89 #N/A	\$12.67 \$11.88 #N/A	\$12.57 \$11.85 #N/A	\$12.33 \$14.66 #N/A	\$12.33 \$14.66 #N/A	\$3.01 \$3.98 #N/A	\$8.95 (\$23.92) #N/A	\$18.52 \$47.61 #N/A	3.18 12.71 #N/A
Institutional: LTC Institutional Pharmacies <sup>6</sup> Non-LTC Institutional Pharmacies <sup>6</sup>	35 944	312,188 90,482	- / -	\$11.79 \$12.67	\$10.80 \$10.86	\$12.21 \$10.54	\$11.20 \$11.09	\$10.63 \$10.11	\$11.53 \$9.84	\$3.27 \$6.72	\$10.66 \$12.24	\$12.91 \$13.10	2.03 1.96
Unit Dose: Does dispense unit dose Does not dispense unit dose	31 948	305,960 91,621	29,570 9,937		\$10.76 \$10.86	\$12.06 \$10.57	\$11.20 \$11.09	\$10.63 \$10.13	\$11.40 \$9.85	\$4.16 \$6.69	\$10.36 \$12.23	\$13.41 \$13.09	2.04 1.96
340B Pharmacy Status Participates in 340B and provides 340B pricing to Medicaid Does not participate in 340B or does not provide 340B pricing to Medicaid	155 824	134,452 91,628	- /	• • •	\$9.86 \$11.13	\$9.62 \$11.14	\$9.67 \$11.25	\$9.15 \$10.55	\$9.10 \$10.44	\$5.43 \$6.81	\$10.53 \$12.40	\$12.25 \$13.34	1.98 1.96

 Notes:

 1) All pharmacy dispensing costs are inflated to the common point of 6/30/2016 (i.e., midpoint of a fiscal year ending 12/31/2016).

 2) For purposes of this report a "specialty pharmacy" is one that reported sales for intravenous, home influsion, blood factor and/or other specialty services of 10% or more of total prescription sales.

 3) For purposes of this report specialty pharmacies were divided into three categories. Blood factor specialty, influsion specialty, and other specialty.

 4) Myers and Staufer used the pharmacies' zip code and tables from the U.S. Census Bureau to determine if the pharmacy was located in a Metropolitan Statistical Area. Pharmacies not in a Metropolitan Statistical Area are considered "rural" for purposes of this report.

 2) Lat fiscid uniques in based on the time period of hith 1 2015 to lune 30 2016.

5) Medicaid volume is based on the time period of July 1, 2015 to June 30, 2016. 6) For purposes of this report an "LTC Institutional Pharmacy" is one that reported dispensing 25% or more of prescriptions to long-term care facilities.