

# **APPENDIX: White Bagging Dispensing**

## **Assumptions and Methodology For National White Bagging Savings Estimates**

## A. Projected medical specialty drug expenditures for 2022 and 2022-31

The Centers for Medicare & Medicaid Services (CMS) projects National Prescription Drug Expenditures of approximately \$400 billion in 2022 and approximately \$5.2 trillion for the 10-year period 2022-31.¹ However, since these CMS projections do not include drugs administered in hospital outpatient departments (HOPDs) or physician offices (MD offices), other analysts have projected non-retail drug expenditures (i.e., drugs administered in HOPDs and MD offices) of about \$200 billion in 2022 and \$2.8 trillion for 2022-31.² Various sources indicate that "specialty drugs" (i.e., complex and high-cost drugs typically handled by specialty pharmacies) account for about 83% of these non-retail/medical drug expenditures.³ CMS projects a break-down of Rx drug expenditures for commercial/private insurance and Medicaid, which we extrapolated to non-retail drug spend.⁵ The majority of medical specialty Rx expenditures occur in two primary sites of care: HOPDs and MD offices.⁴ We do not include Medicare in the analysis because typical specialty pharmacy contract rates are not significantly lower than Medicare reimbursement rates for Part B drugs.⁵ These assumptions yield the following projected medical specialty Rx drug expenditures for 2022-31.

			Medical	Medical		Medical	Medical	Medical	Medical
		Medical Rx	SpecialtyRx	SpecialtyRx	Medical	SpecialtyRx	SpecialtyRx	SpecialtyRx	SpecialtyRx
	Projected	Expenditures	Expenditures	Expenditures	SpecialtyRx	Expenditures	Expenditures	Expenditures	Expenditures
Year	Retail Rx	(i.e., non-retail,	(i.e., specialty in	Commercial	Expenditures	Commercial	Medicaid	Commercial	Medicaid
(\$ billions)	Expenditures <sup>5</sup>	medical benefit) <sup>6</sup>	medical benefit) <sup>7</sup>	Insurance 5	Medicaid <sup>5</sup>	HOPD <sup>8</sup>	HOPD <sup>8</sup>	MD Office 8	MD Office 8
1 Yr: 2022	\$397	\$214	\$177	\$80	\$19	\$40	\$11	\$29	\$5
10 Yr: 2022-31	\$5,186	\$2,799	\$2,311	\$981	\$245	\$498	\$142	\$354	\$71

## B. Projected white bagging savings: "Zero white bagging vs 100% white bagging"

A number of sources have cited significant cost savings associated with medical specialty drugs administered in alternate sites-of-care. One national payer states that alternate sites-of-care can save 33-52% vs HOPDs.<sup>6</sup> Another regional health plan says its employer customers will see an average savings of 20% on provider-administered specialty drugs via its new white bagging program.<sup>7</sup> A national actuarial firm published data that suggests alternate sites-of-care savings of 45% vs HOPDs.<sup>8</sup> Another actuarial case study found specialty pharmacy savings of 46% vs HOPDs and 11% vs physician offices.<sup>9</sup> We used these estimates of 46% and 11% for our analysis, summarized in the table below. This yields a potential 10-year savings of more than \$340 billion of total savings in a scenario of complete movement from MD offices and HOPDs to white bagging.

<sup>&</sup>lt;sup>1</sup> National Health Expenditure Data Projected. Office of the Actuary in the Centers for Medicare & Medicaid Services.

<sup>&</sup>lt;sup>2</sup> Projections of the Non-Retail Prescription Drug Share of NHE. Altarum. September 2020.

<sup>&</sup>lt;sup>3</sup> Average of three sources = 83%. Specialty medical costs will comprise about 63% of total medication costs under the medical benefit and about 40% of total pharmacy costs in 2019. (Source: Commercial specialty medication research 2019 benchmark projections. Milliman. January 2020.) Analysis of Medicare Part B utilization for 2019 indicates approximately 89% specialty. (Source: Medicare Part B Drug Spending Dashboard 2019. CMS.) Specialty comprised 96% of total Medical Pharmacy Spend in 2019. (Source: Magellan Rx Management Medical Pharmacy Trend Report 2020.)

<sup>&</sup>lt;sup>4</sup> Magellan Rx Management Medical Pharmacy Trend Report 2020.

<sup>&</sup>lt;sup>5</sup> PBM reimbursement rates for specialty pharmacy average AWP-19%. (Source: Trends In Drug Benefit Design. PBMI 2019). Medicare reimburses Part B drugs ASP-22.5% if 340B, or ASP+6% if non-340B (Source: Hospital Outpatient Prospective Payment System Final Rule CY 2021 - Issue Brief, ASHP December 2020). Median ASP = AWP-21%. (Source: Medicaid Drug Price Comparison: ASP to AWP. HHS Office of Inspector General 2005.)

<sup>&</sup>lt;sup>6</sup> Administering Specialty Drugs Outside Hospitals Can Improve Care and Reduce Costs by \$4 Billion Each Year. UnitedHealth Group 2019.

Experts Vary on Challenges, Benefits of White Bagging. AIS Health. March 2020.

<sup>&</sup>lt;sup>8</sup> Analysis of data on top 10 medical specialty drugs shows alternate site-of-care savings of 45% vs HOPD. Commercial specialty medication research 2019 benchmark projections. Milliman. January 2020.

Site of Service and Cost Dispersion of Infused Drugs, Milliman. December 2019.



M/hat	if	\A/hita	Ragging	Goos	from	Zoro	to 100%?	,
vvnat	ш	wnite	DUSFILIS	does	mom	zero	TO TOOM!	

Billions \$	White Bag Sav	ings vs HOPD (If	0% => 100%)	White Bag Saving	s vs MD Office	(If 0% => 100%)	<b>Total Savings: HO</b>	OPD & MD Office (	(If 0% => 100%)
Savings assumpti	ons if zero white	bag use rose to							
Savings =	46%	46%	46%	11%	11%	11%			
	Savings vs		Savings vs	Savings vs		Savings vs			
	HOPD w/	Savings vs	HOPD	MD Office	Savings vs	MD Office	TOTAL Savings		TOTAL Savings
Year	Commercial	HOPD	Commercial +	w/ Commercial	MD Office	Commercial +	w/ Commercial	<b>TOTAL Savings</b>	Commercial +
(\$ billions)	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid
1 Yr: 2022	\$18.7	\$5.1	\$23.8	\$3.1	\$0.6	\$3.7	\$21.9	\$5.7	\$27.5
10 Yr: 2022-31	\$231	\$66	\$297	\$38	\$8	\$46	\$269	\$73	\$343

## C. Projected white bagging savings "if current use of white bagging DOUBLES"

The analysis above estimates hypothetical savings for 100% white bagging vs zero white bagging. But what if we estimate "incremental savings" associated with an increase in the current level of white bagging that is in the market today? One market analyst estimates that white bagging is currently being done for 35% of oncology HOPDs, 18% of oncology MD offices, 10 31% of non-oncology HOPDs and 43% of non-oncology MD offices patients. 11 Based on these estimates of current levels of white bagging, we project that a DOUBLING of white bagging could save more than \$100 billion nationally over the next 10 years. Similarly, eliminating or prohibiting the use of white bagging could increase drug expenditures by more than \$100 billion.

What if White	Bagging	Use	DOUBLES?
---------------	---------	-----	----------

Billions \$	White Bag Savi	ngs vs HOPD (If	use doubled)	White Bag Saving	s vs MD Office	(If use doubled)	<b>Total Savings: HC</b>	PD & MD Office (	If use doubled)
Savings assumpti	ons if current wh	ite bag use doul	bles 14						
Savings =	15%	15%	15%	3%	3%	3%			
	Savings vs		Savings vs	Savings vs		Savings vs			
	HOPD w/	Savings vs	HOPD	MD Office	Savings vs	MD Office	TOTAL Savings		TOTAL Savings
Year	Commercial	HOPD	Commercial +	w/ Commercial	MD Office	Commercial +	w/ Commercial	<b>TOTAL Savings</b>	Commercial +
(\$ billions)	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid
1 Yr: 2022	\$6.2	\$1.7	\$7.9	\$1.0	\$0.2	\$1.1	\$7.1	\$1.9	\$9.0
10 Yr: 2022-31	\$76	\$22	\$98	\$12	\$2	\$14	\$88	\$24	\$112

#### D. Savings estimates for individual states

Table 1 lists state-by-state breakdowns for the potential savings if white bagging were DOUBLED in the commercial/private insurance and Medicaid populations. Projected national outpatient drug expenditures were calculated for each state based on state-by-state enrollment estimates for commercial fully insured, commercial self-insured, direct purchase, Medicare, and Medicaid based on a number of published references. 12,13,14,15,16,17,18,19,20

<sup>&</sup>lt;sup>10</sup> Drug Channels Update: Buy and Bill Market Trends, Drug Channels Institute Webinar. September 24, 2021.

<sup>&</sup>lt;sup>11</sup> Specialty Pharmacy Keeps Disrupting Buy-and-Bill—and COVID-19 Will Accelerate It. Drug Channels. September 2020.

<sup>&</sup>lt;sup>12</sup> US Census, State Population Totals and Components of Change.

<sup>13</sup> US Census - Health Insurance in the United States: Number and Percentage of People Without Health Insurance Coverage by State

<sup>14</sup> Percent of private-sector enrollees that are enrolled in self-insured plans at establishments that offer health insurance by firm size and state. AHRQ Medical Expenditure Panel Survey.

<sup>&</sup>lt;sup>15</sup> 2020 employer health benefits survey. Kaiser Family Foundation.

<sup>&</sup>lt;sup>16</sup> Marketplace Enrollment. Kaiser Family Foundation.

<sup>17</sup> Medicare Advantage/Part D Contract and Enrollment Data - Monthly Enrollment By State. Kaiser Family Foundation.

<sup>&</sup>lt;sup>18</sup> Medicaid Enrollment: Monthly Medicaid and CHIP Application, Eligibility Determination, and Enrollment Reports, from Medicaid.gov.

<sup>&</sup>lt;sup>19</sup> Medicaid Gross Spending for Drugs by Delivery System and Brand or Generic Status, from MACPAC.gov.

<sup>&</sup>lt;sup>20</sup> <u>Dual Eligibles as a Percent of Total Medicare Beneficiaries</u>. Kaiser Family Foundation.



Table 1: Potential Savings By State If White Bagging DOUBLED, 2022-31 (\$ millions)

a	Commercial/		Commercial +	
State	Private Insurance	Medicaid	Medicaid	
United States	\$87,917	\$24,019	\$111,936	
Alabana	Ć1 270	6276	Ć4 C4C	
Alabama	\$1,370	\$276	\$1,646	
Alaska	\$157	\$77	\$234	
Arizona	\$1,769	\$606	\$2,375	
Arkansas	\$728	\$263	\$991	
California	\$10,014	\$3,811	\$13,824	
Colorado	\$1,517	\$482	\$1,999	
Connecticut	\$1,006	\$257	\$1,264	
Delaware	\$245	\$79	\$323	
District of Columbia	\$195	\$79	\$274	
Florida	\$5,632	\$1,132	\$6,764	
Georgia	\$2,962	\$603	\$3,566	
Hawaii	\$370	\$122	\$492	
Idaho	\$486	\$116	\$603	
Illinois	\$3,537	\$989	\$4,527	
Indiana	\$1,722	\$547	\$2,269	
Iowa	\$889	\$230	\$1,120	
Kansas	\$917	\$127	\$1,044	
Kentucky	\$969	\$472	\$1,441	
Louisiana	\$982	\$513	\$1,495	
Maine	\$357	\$78	\$435	
Maryland	\$1,806	\$457	\$2,263	
Massachusetts	\$2,091	\$494	\$2,585	
Michigan	\$2,463	\$812	\$3,274	
Minnesota	\$1,719	\$358	\$2,077	
Mississippi	\$785	\$180	\$965	
Missouri	\$1,803	\$297	\$2,101	
Montana	\$269	\$87	\$356	
Nebraska	\$608	\$94	\$701	
Nevada	\$796	\$240	\$1,035	
New Hampshire	\$427	\$63	\$489	
New Jersey	\$2,538	\$586	\$3,123	
New Mexico	\$396	\$249	\$645	
New York	\$4,791	\$1,997	\$6,787	
North Carolina	\$2,915	\$577	\$3,493	
North Dakota	\$245	\$32	\$278	
Ohio	\$3,070	\$897	\$3,967	
Oklahoma	\$1,023	\$258	\$1,280	
Oregon	\$1,079	\$354	\$1,433	
Pennsylvania	\$3,424	\$966	\$4,390	
Rhode Island	\$272	\$98	\$370	
South Carolina	\$1,342	\$329	\$1,671	
South Dakota	\$263	\$36	\$299	
Tennessee	\$1,824	\$450	\$2,275	
Texas	\$7,900	\$1,428	\$9,328	
Utah	\$1,120	\$125	\$1,244	
Vermont	\$164	\$50	\$214	
Virginia	\$2,514	\$504	\$3,018	
Washington	\$2,150	\$594	\$2,743	
West Virginia	\$406	\$167	\$574	
Wisconsin	\$1,704	\$364	\$2,068	
Wyoming	\$1,704	\$19	\$2,008	