

APPENDIX: White Bagging Dispensing

Assumptions and Methodology For National White Bagging Savings Estimates

A. Projected medical specialty drug expenditures for 2023 and 2023-32

The Centers for Medicare & Medicaid Services (CMS) projects National Prescription Drug Expenditures of approximately \$420 billion in 2023 and approximately \$5.5 trillion for the 10-year period 2023-32.¹ 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 \$230 billion in 2023 and \$3 trillion for 2023-32.² 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 2023-32.

			Medical	Medical		Medical	Medical	Medical	Medical
		Medical Rx	SpecialtyRx	SpecialtyRx	Medical	SpecialtyRx	SpecialtyRx	SpecialtyRx	SpecialtyRx
	Projected	Expenditures (i.e.,	Expenditures	Expenditures	SpecialtyRx	Expenditures	Expenditures	Expenditures	Expenditures
Year	Retail Rx	non-retail,	(i.e., specialty in	Commercial	Expenditures	Commercial	Medicaid	Commercial	Medicaid
(\$ billions)	Expenditures ⁵	medical benefit) 6	medical benefit) 7	Insurance 5	Medicaid 5	HOPD ⁸	HOPD ⁸	MD Office 8	MD Office 8
1 Yr: 2023	\$420	\$227	\$187	\$83	\$20	\$42	\$12	\$30	\$6
10 Yr: 2023-32	\$5,471	\$2,953	\$2,438	\$1,024	\$258	\$520	\$149	\$369	\$75

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.⁶ 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.⁷ A national actuarial firm published data that suggests alternate sites-of-care savings of 45% vs HOPDs.⁸ Another actuarial case study found specialty pharmacy savings of 46% vs HOPDs and 11% vs physician offices.⁹ We used these estimates of 46% and 11% for our analysis, summarized in the table below. This yields a potential 10-year savings of almost \$360 billion of total savings in a scenario of complete movement from MD offices and HOPDs to white bagging.

¹ National Health Expenditure Data Projected. Office of the Actuary in the Centers for Medicare & Medicaid Services.

² Projections of the Non-Retail Prescription Drug Share of NHE. Altarum. September 2020.

³ 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.)

⁴ Magellan Rx Management Medical Pharmacy Trend Report 2020.

⁵ 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.)

⁶ Administering Specialty Drugs Outside Hospitals Can Improve Care and Reduce Costs by \$4 Billion Each Year. UnitedHealth Group 2019.

⁷ Experts Vary on Challenges, Benefits of White Bagging. AIS Health. March 2020.

⁸ 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.

⁹ Site of Service and Cost Dispersion of Infused Drugs, Milliman. December 2019.



Billions \$	White Bag Sav	ings vs HOPD (If	0% => 100%)	White Bag Saving	s vs MD Office	(If 0% => 100%)	Total Savings: HO	OPD & MD Office ((If 0% => 100%)
Savings assumption	ns if zero white b	ag use rose to 1	00% white bag ¹³						
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	TOTAL Savings	Commercial +
(\$ billions)	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid
1 Yr: 2023	\$19.5	\$5.4	\$24.9	\$3.2	\$0.6	\$3.9	\$22.8	\$6.0	\$28.8
10 Yr: 2023-32	\$241	\$69	\$310	\$40	\$8	\$48	\$281	\$77	\$359

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 almost \$120 billion nationally over the next 10 years. Similarly, eliminating or prohibiting the use of white bagging could increase drug expenditures by almost \$120 billion.

What if	White	Ragging	Use	DOUBLES?

Billions \$	White Bag Savi	ngs vs HOPD (If	use doubled)	White Bag Savings	vs MD Office	(If use doubled)	Total Savings: HO	OPD & MD Office (If use doubled)
Savings assumption	ons if current whit	e bag use double	es 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	TOTAL Savings	Commercial +
(\$ billions)	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid	Insurance	w/ Medicaid	Medicaid
1 Yr: 2023	\$6.4	\$1.8	\$8.2	\$1.0	\$0.2	\$1.2	\$7.4	\$2.0	\$9.4
10 Yr: 2023-32	\$80	\$23	\$102	\$12	\$2	\$15	\$92	\$25	\$117

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

¹⁰ Drug Channels Update: Buy and Bill Market Trends, Drug Channels Institute Webinar. September 24, 2021.

¹¹ Specialty Pharmacy Keeps Disrupting Buy-and-Bill—and COVID-19 Will Accelerate It. Drug Channels. September 2020.

¹² US Census, State Population Totals and Components of Change.

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

¹⁴ 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.

¹⁵ 2020 employer health benefits survey. Kaiser Family Foundation.

¹⁶ Marketplace Enrollment. Kaiser Family Foundation.

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

¹⁸ Medicaid Enrollment: Monthly Medicaid and CHIP Application, Eligibility Determination, and Enrollment Reports, from Medicaid.gov.

¹⁹ Medicaid Gross Spending for Drugs by Delivery System and Brand or Generic Status, from MACPAC.gov.

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



Table 1: Potential Savings By State If White Bagging DOUBLED, 2023-32 (\$ millions)

	Commercial/		Commercial + Medicaid	
State	Private Insurance	Medicaid		
United States	\$91,816	\$25,290	\$117,106	
Officed States	351,610	\$23,290	\$117,100	
Alabama	\$1,479	\$295	\$1,774	
Alaska	\$160	\$78	\$238	
Arizona	\$1,777	\$643	\$2,420	
Arkansas	\$729	\$281	\$1,010	
California	\$9,971	\$4,004	\$13,976	
Colorado	\$1,627	\$486	\$2,114	
Connecticut	\$1,094	\$253	\$1,347	
Delaware	\$264	\$83	\$347	
District of Columbia	\$181	\$81	\$262	
Florida	\$5,893	\$1,225	\$7,119	
Georgia	\$3,123	\$652	\$3,775	
Hawaii	\$390	\$126	\$516	
Idaho	\$552	\$121	\$673	
Illinois	\$3,600	\$1,056	\$4,656	
Indiana	\$1,824	\$557	\$2,381	
Iowa	\$952	\$236	\$1,188	
Kansas	\$970	\$134	\$1,105	
Kentucky	\$1,078	\$443	\$1,520	
Louisiana	\$977	\$522	\$1,499	
Maine	\$378	\$83	\$462	
Maryland	\$1,921	\$481	\$2,402	
Massachusetts	\$2,231	\$509	\$2,740	
Michigan	\$2,539	\$849	\$3,388	
Minnesota	\$1,806	\$382	\$2,188	
Mississippi	\$801	\$185	\$986	
Missouri	\$1,803	\$368	\$2,170	
Montana	\$286	\$91	\$377	
Nebraska	\$631	\$107	\$738	
Nevada	\$835	\$258	\$1,092	
New Hampshire	\$459	\$66	\$525	
New Jersey	\$2,827	\$613	\$3,440	
New Mexico	\$412	\$250	\$661	
New York	\$5,145	\$2,017	\$7,162	
North Carolina	\$3,020	\$618	\$3,638	
North Dakota	\$259	\$35	\$294	
Ohio	\$3,207	\$929	\$4,136	
Oklahoma	\$909	\$356	\$1,265	
Oregon	\$1,090	\$383	\$1,473	
Pennsylvania	\$3,638	\$999	\$4,636	
Rhode Island	\$302	\$99	\$401	
South Carolina	\$1,383	\$350	\$1,733	
South Dakota	\$271	\$38	\$310	
Tennessee	\$1,957	\$471	\$2,428	
Texas	\$8,358	\$1,533	\$9,891	
Utah	\$1,234	\$137	\$1,371	
Vermont	\$180	\$52	\$231	
Virginia	\$2,630	\$555	\$3,185	
Washington	\$2,270	\$618	\$2,888	
West Virginia	\$408	\$175	\$583	
Wisconsin	\$1,794	\$383	\$2,177	
Wyoming	\$191	\$22	\$213	