

# **US Pharmaceutical Trends, Issues**& Outlook for NACDS Regional Chain

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January 30, 2023



#### **Agenda**

- + Covid, Flu, RSV, Colds, Etc.
- + Market Trends: Utilization
- + Where are we now?
- + Retail Class of Trade and Method of Payment Performance
- + Opioids
- + Generics and Biosimilars
- + Product Launches
- + Outlook

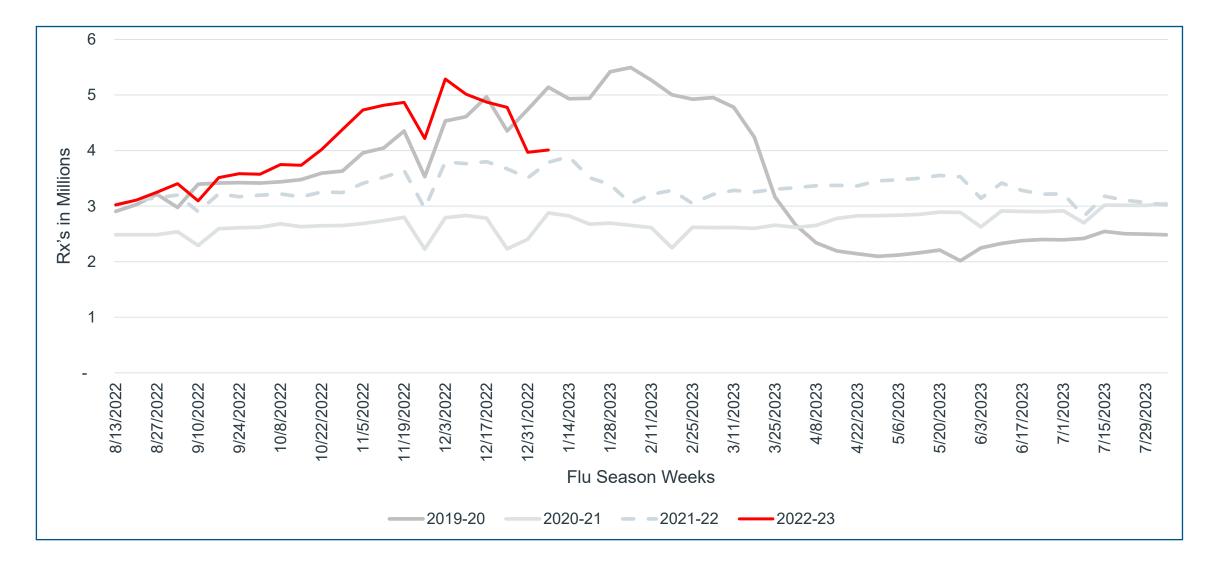




COVID, Flu, RSV, Colds, Etc.



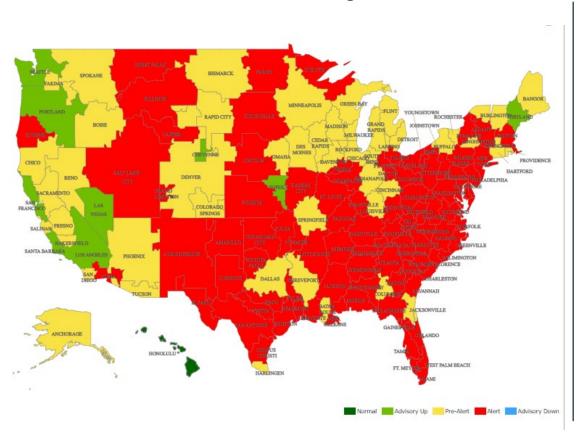
#### Cough, Cold and Flu Rx's are slowing as symptoms are slowing



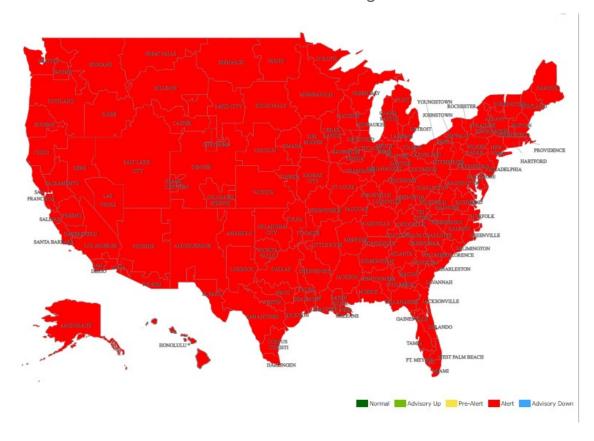


# FAN® reports are showing the entire country is in Alert status, a much different picture than this time last year



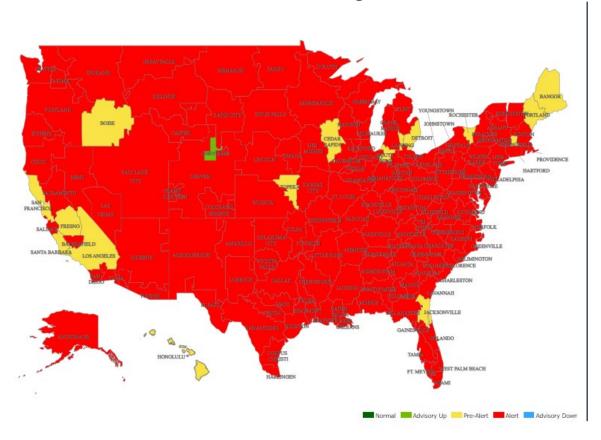


Current Season – Week-ending 12/31/22

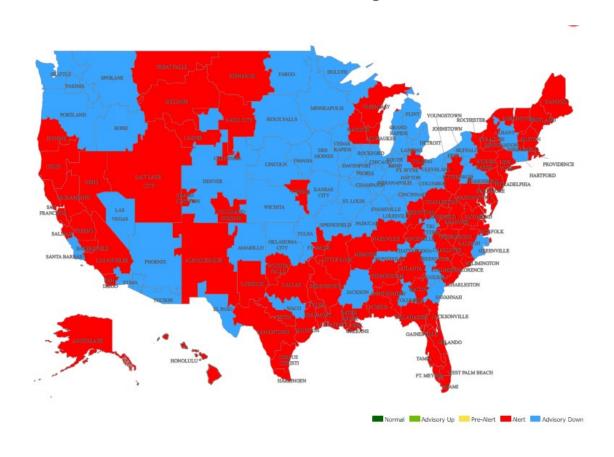


# FAN® reports reflect that much of the country is in "Advisory Down" status, a much different picture than this time last year

Last Season – Week-ending 1/14/22



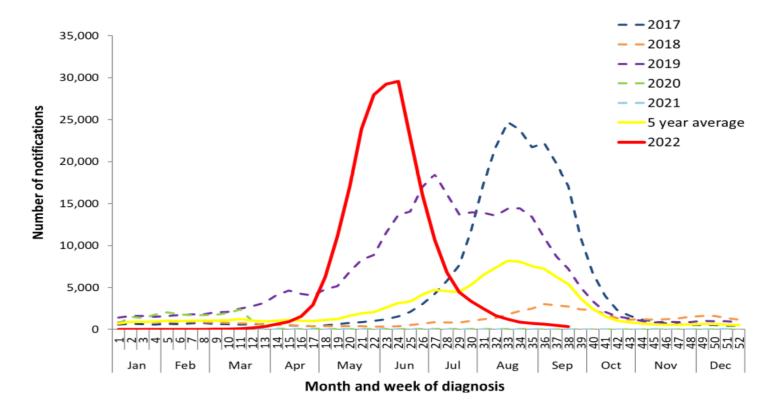
Current Season – Week-ending 1/14/22



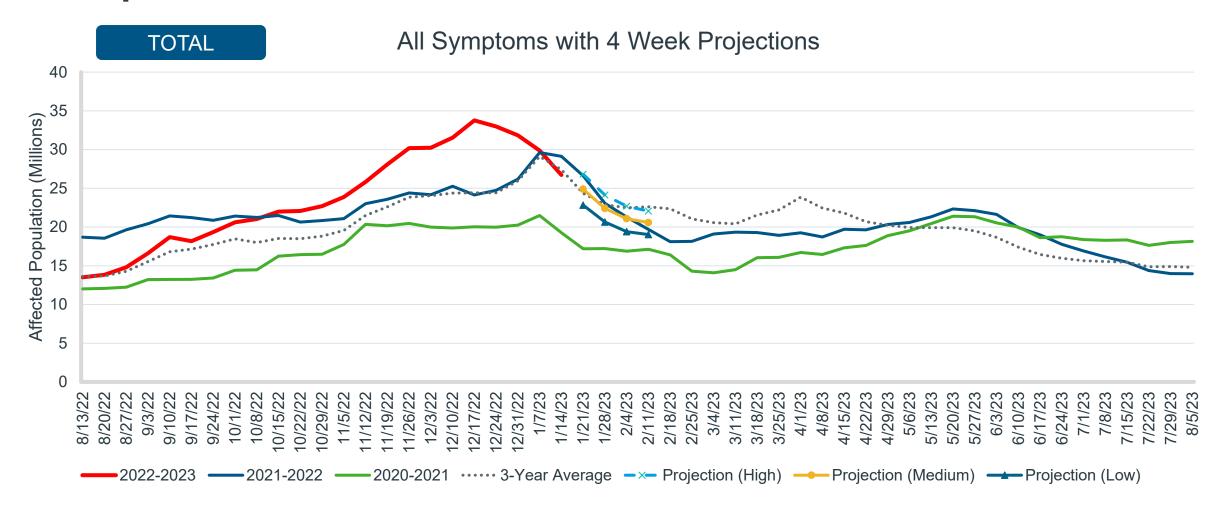


### The Australia Flu Season can be a predictor of the US season; trends are showed a strong season

Figure 4. Notifications of laboratory-confirmed influenza, Australia, 01 January 2017 to 25 September 2022, by month and week of diagnosis\*



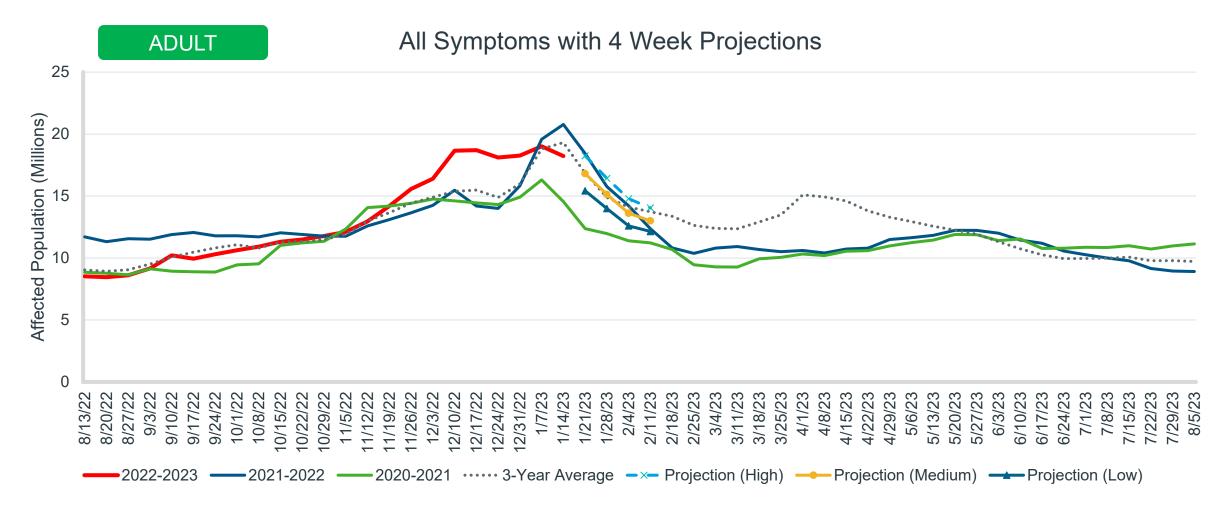
### All symptoms run above historical trends and projections anticipate declines



Updated through January 14, 2023



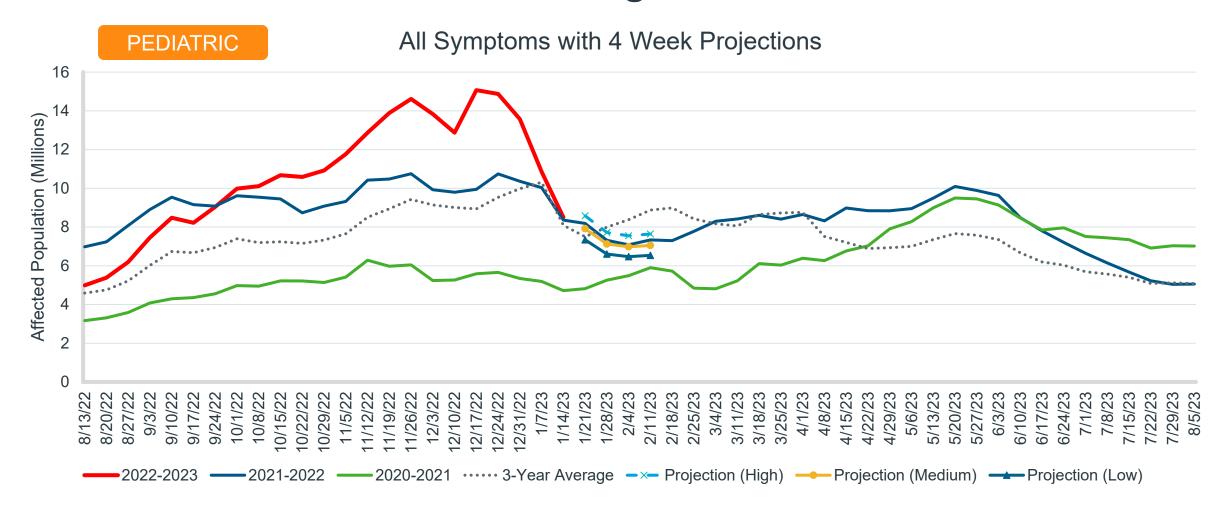
#### Adults ran above historical trends but are in decline



Updated through January 14, 2023



#### Pediatrics numbers are decreasing

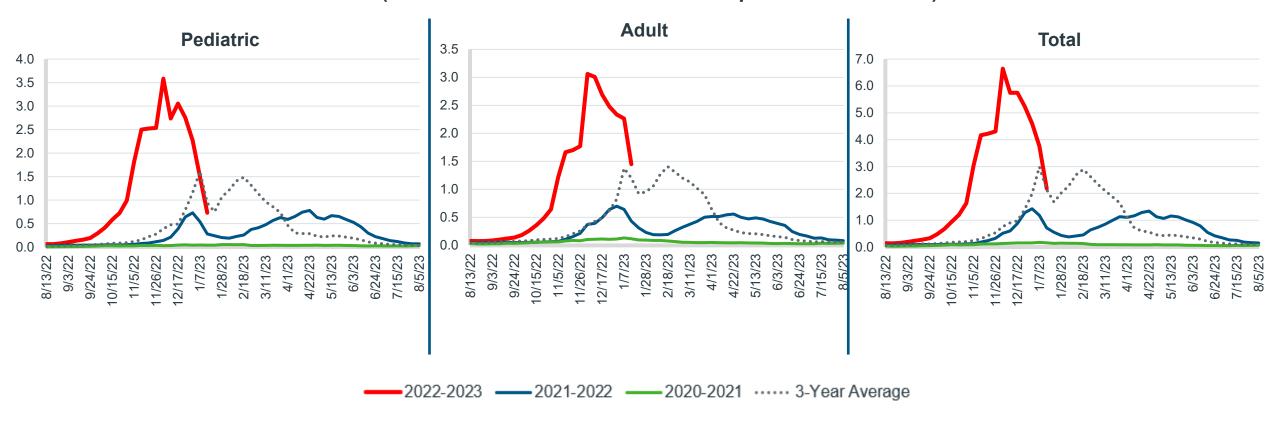


**Updated through December 31, 2022** 



# ILI: Cases peaked in early December 2022 but are declining rapidly

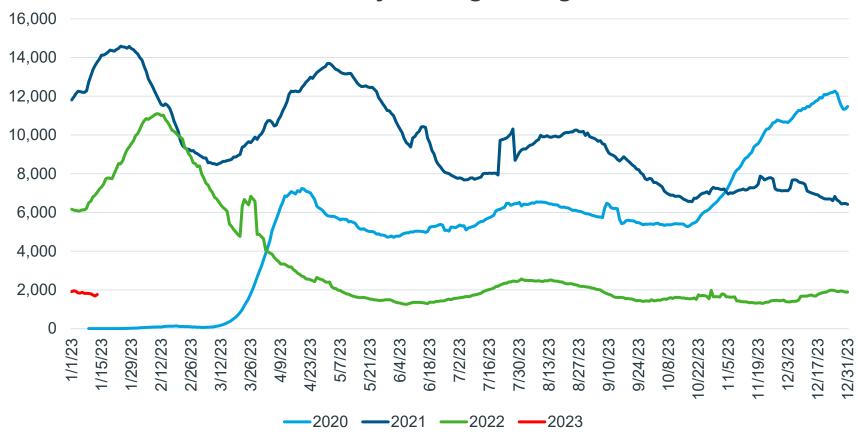
#### **ILI (Influenza Like Illness - Affected Population in Millions)**



**Updated through January 14, 2023** 

#### According to the WHO, global deaths continue to decline



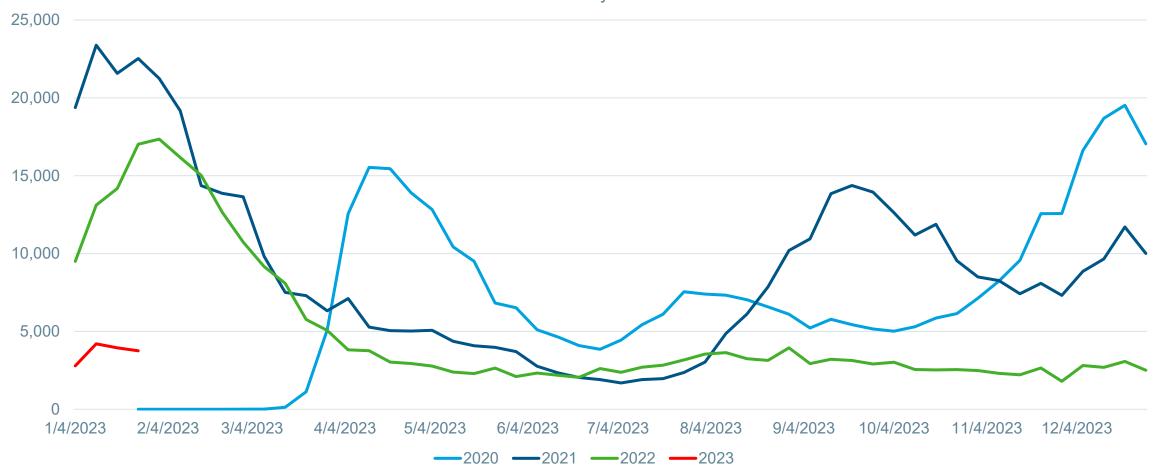


Data Source: https://covid19.who.int/WHO-COVID-19-global-data.csv, updated through 1/13/23



### Weekly COVID death cases in the U.S. continue to decline, mirroring global trends

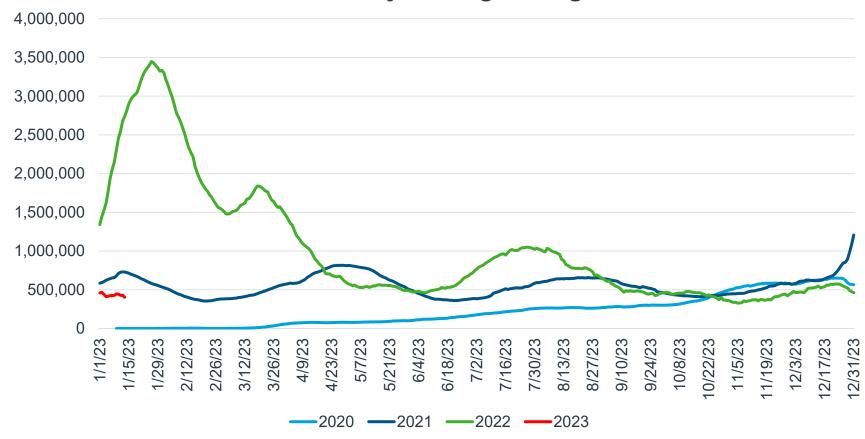




Data Source: <a href="https://covid.cdc.gov/covid-data-tracker/#trends">https://covid.cdc.gov/covid-data-tracker/#trends</a> weeklydeaths select 00

#### Global cases of COVID are in decline

#### WHO Global 7 Day Moving Average - Cases

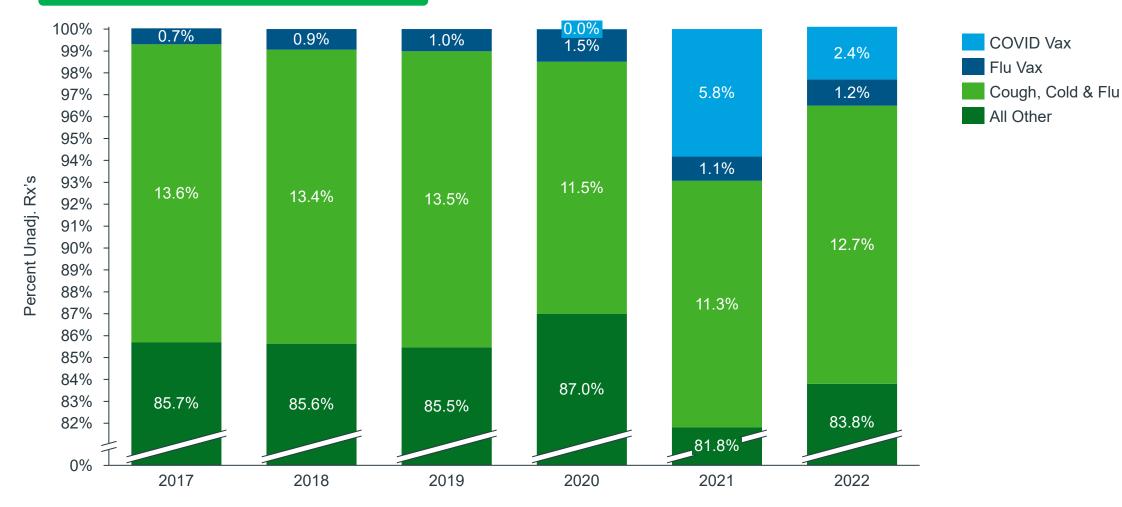


Data Source: https://covid19.who.int/WHO-COVID-19-global-data.csv, updated through 1/13/23



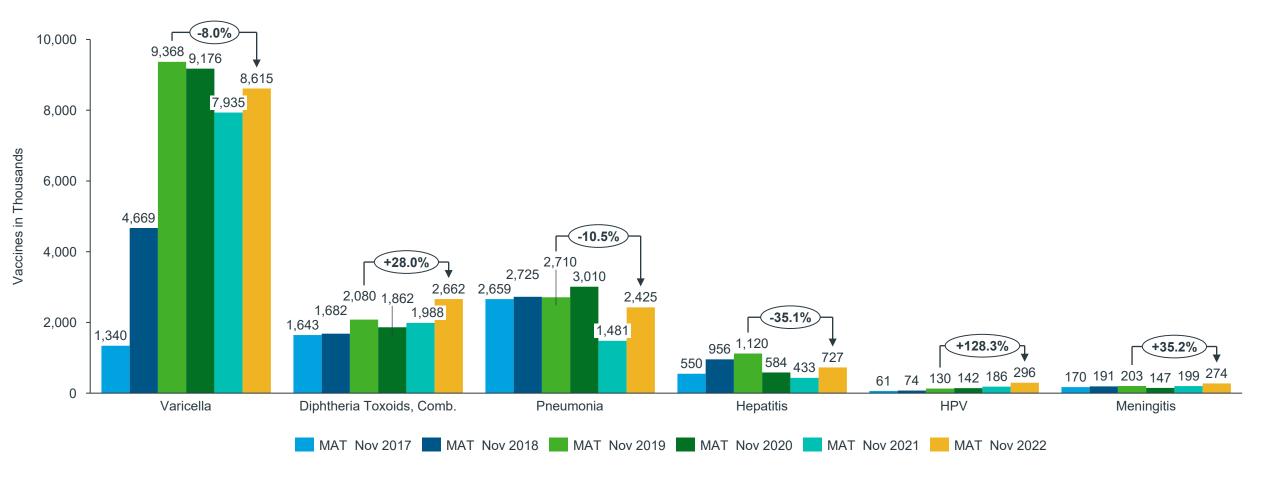
#### In 2022, COVID-19 vaccines make up two of every 100 Retail Rx's, down from six in 2021

#### TOTAL RETAIL – UNADJUSTED RX's





# Varicella and Pneumonia vaccinations at Retail are recovering but have yet to return to pre-COVID levels





#### A large majority of vaccine administration took place at the pharmacy level compared to a non-pharmacy medical setting



- Overall, across all vaccines for adults inscope, a large majority of the administration took place at the pharmacy level compared to medical offices.
- As a result, 2020 and 2021 saw a steep increase in vaccine administration at pharmacies due to the COVID-19 vaccine



The shingles
 vaccine also saw
 a similar trend,
 with a large
 majority of
 administration
 taking place at the
 pharmacy level
 across all of the
 years analyzed



- Pharmacies serve as an important part of the overall flu vaccination process.
- Notably, 60–70% of vaccination during flu season (third and fourth
- quarters) takes place at pharmacies.
- The trends in flu vaccine administration at pharmacies also indicate a 30–40% increase in claims for flu vaccines between 2018/19 and 2020



- A large proportion of pneumococcal vaccine administration also took place at pharmacies and the proportion. In the third and fourth quarters of any given year, around 40–50% of the administration occurs in a pharmacy setting.
- The overall number of claims also consistently increases in these quarters compared to the first and second quarters



- Previous studies have found that the median number of visits to community pharmacies was significantly higher than encounters with primary care physicians for Medicare patients
- A recent study noted that there were 15.1% more pharmacy locations within low-income communities than the availability of physician practices

Data Source: IQVIA Institute Report, "Trends in Vaccine Administration in the United States





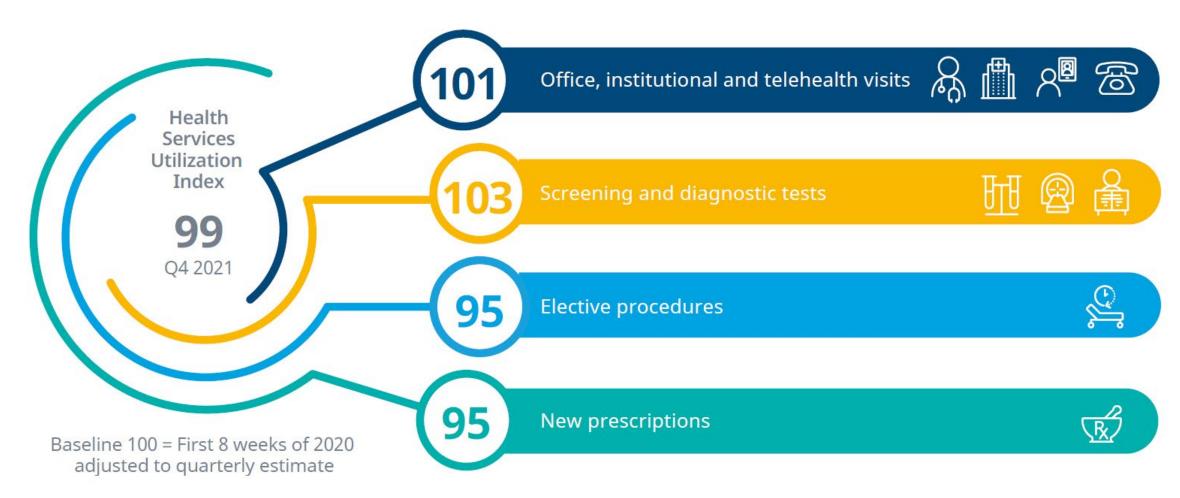
# **Market Trends: Utilization**

Medical claims/activity



# The Health Services Utilization Index indicates the U.S. is operating at nearly pre-COVID-19 levels

Overview of Health Services Utilization Index

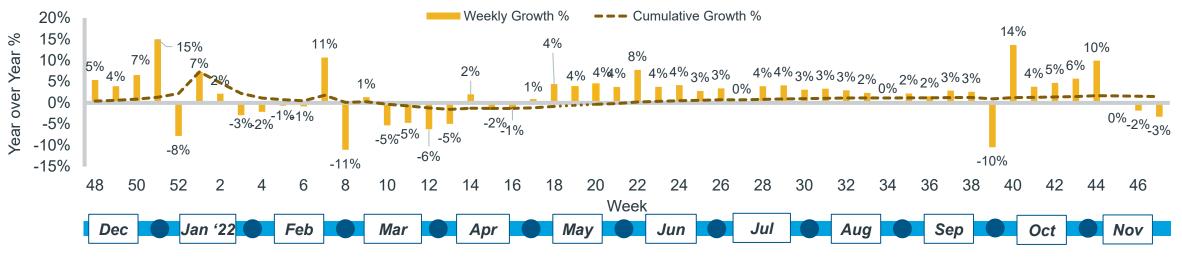




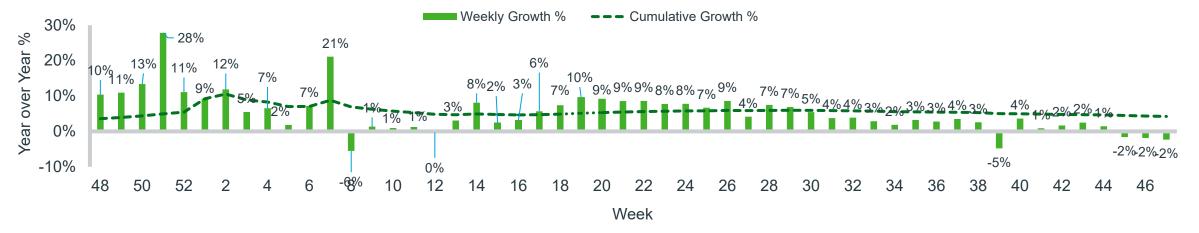


### Cumulative institutional claim trend is flat in 2022 compared to 2021, while office claims increase over 2021





#### Year over Year Growth\* - Office Claims Across Time Aligned Weeks



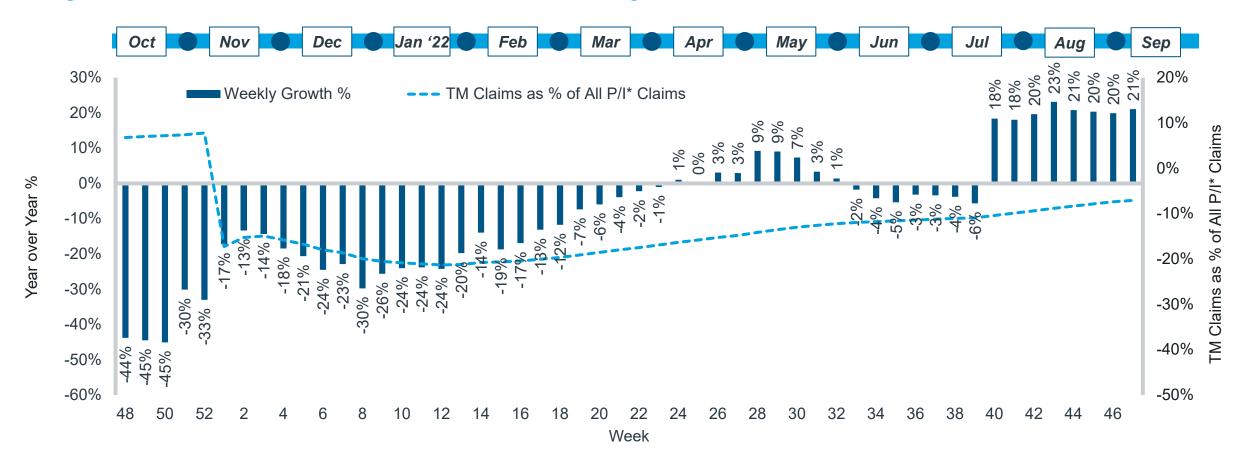
Source: IQVIA: Medical Claims Data Analysis, 2022

Notes: Week 52 2021 = 12/31/2021; Week 47 2022 = 11/25/2022



# After a dramatic entrance, telemedicine use slows overall, though a slight increase in usage in Nov 2022 compared to Nov 2021

Slight increases in telemedicine visits occurs in August and November 2022

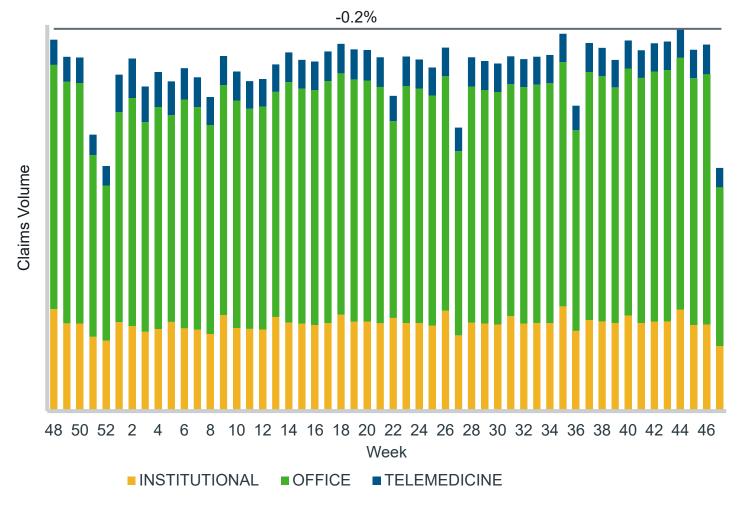


Source: IQVIA: Medical Claims Data Analysis, 2022 Week 47 2022 = 11/25/2022; Week 52 2021 = 12/31/2021 \*All P/I Claims total indicates Telemedicine, Office, and Institutional claims



# Telemedicine contribution to weekly medical claims growth continues to diminish, settling on 7% of total claims through 2022





Potential Implications

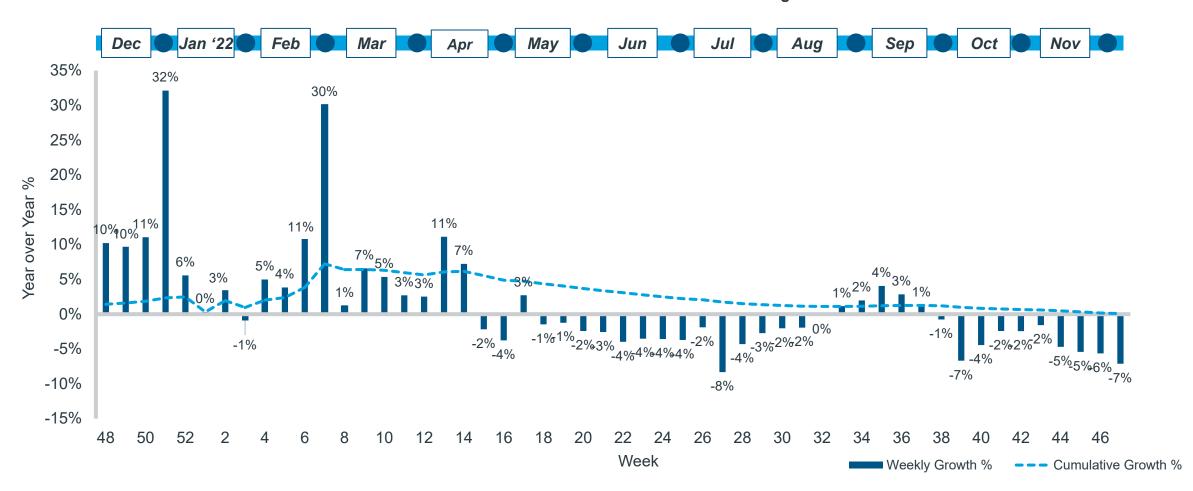


- Overall, claims volume saw an average -0.2% weekly increase over the last 52 weeks.
- Throughout 2022, telemedicine claims dropped by an average -0.7% per week, while Institutional and Office claims remain largely stable.

Source: IQVIA: Medical Claims Data Analysis, 2022 Week 47 2022 = 11/25/2022; Week 52 2021 = 12/31/2021

# Elective procedures in 2022 are declining in recent weeks, but cumulatively 2022 is flat compared to 2021

Year over Year Growth - Elective Procedure Across Time Aligned Weeks



Source: IQVIA: Medical Claims Data Analysis, 2022

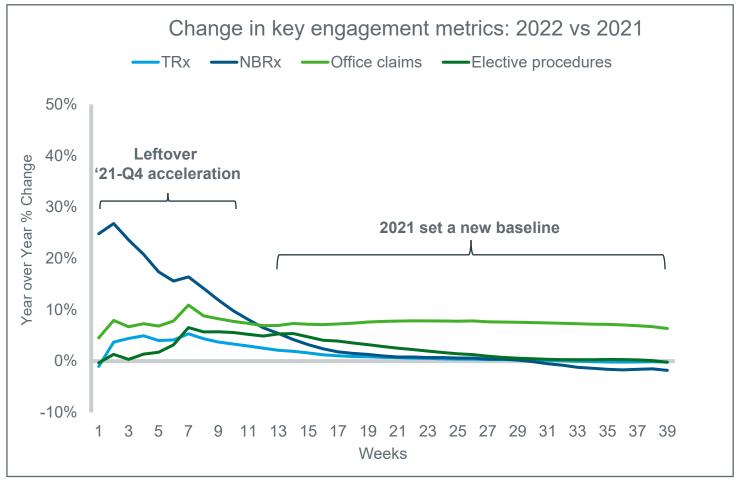
Notes: Week 47 2022 = 11/25/2022; Week 52 2021 = 12/31/2021; Elective procedures based on IQVIA custom analysis; Data includes claims from inpatient and outpatient sites of care. Trend break occurs at the beginning of 2022 as the cumulative calculations are performed on the beginning of the year period.



#### Reluctant patient engagement signals space for change

Economic factors can impact choice to seek care, but a new normal has arrived

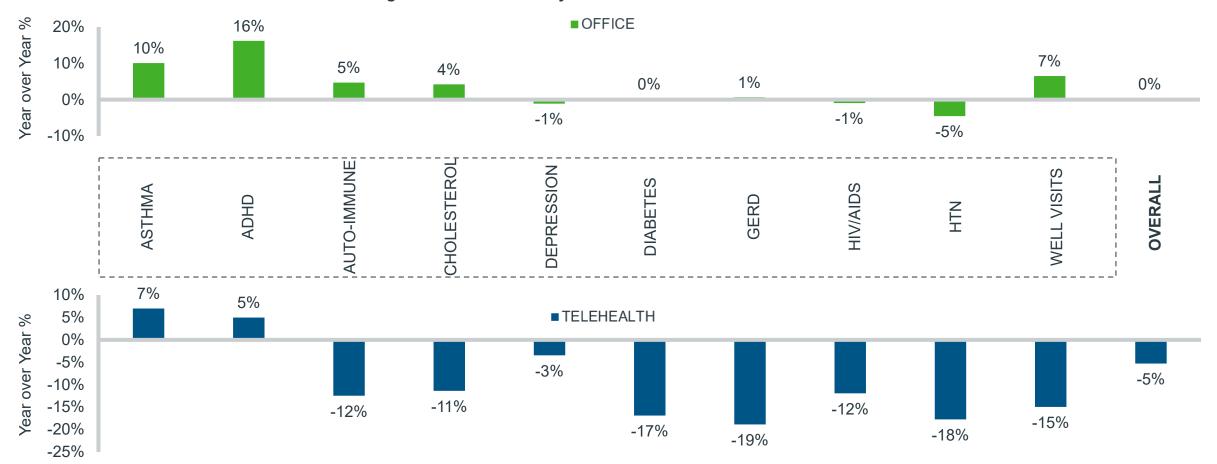






### Compared to 2021, diagnosis visits have shifted from telemedicine to in-office as COVID-19 becomes endemic

Diagnosis visit YoY Weekly YTD Growth\* - W/E 6/4/2021 vs. 05/27/2022



Source: IQVIA: Medical Claims Data Analysis, 2022; Week 52 2021 = 12/31/2021; Week 21 2022 = 05/27/2022

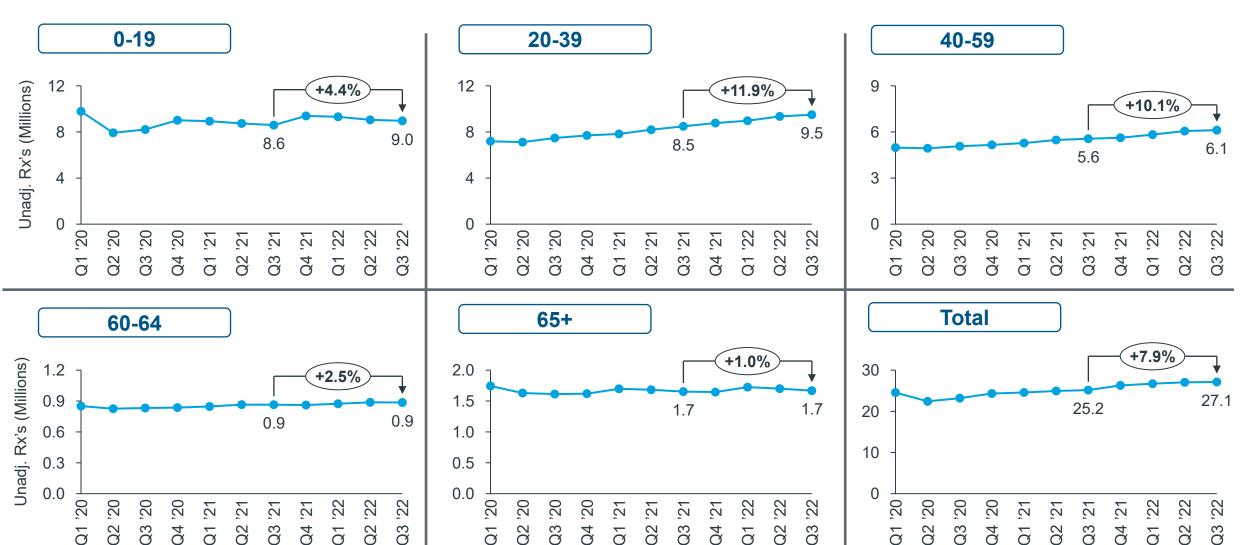


### ADHD dispensing has increased since the beginning of the pandemic





#### Age Groups 20-59 increase ADHD usage over 10%, driving total market increases

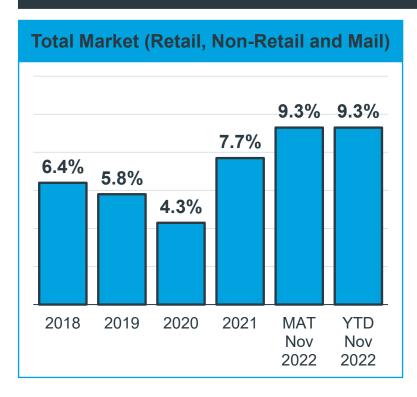


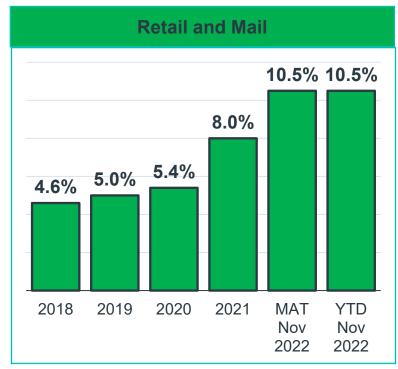


#### Where Are We Now?

#### The Non-Retail channel is recovering from effects of COVID-19

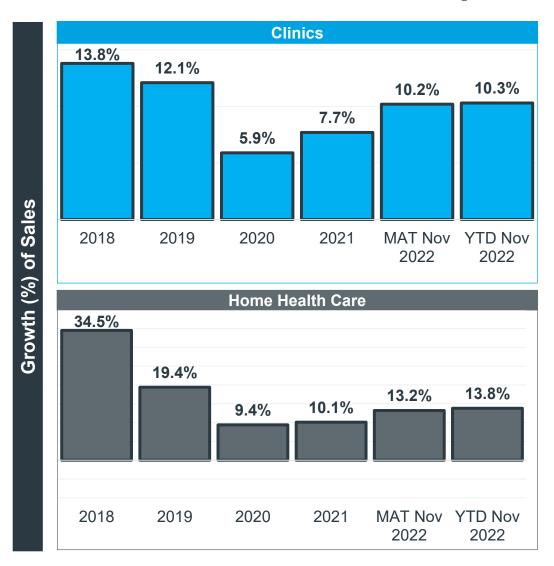
#### Growth (%) of Sales

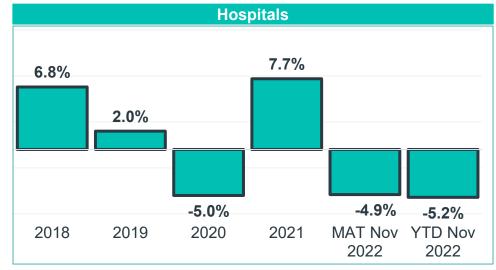


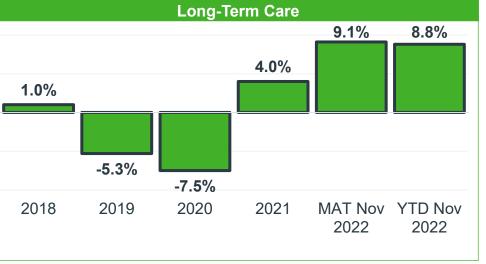




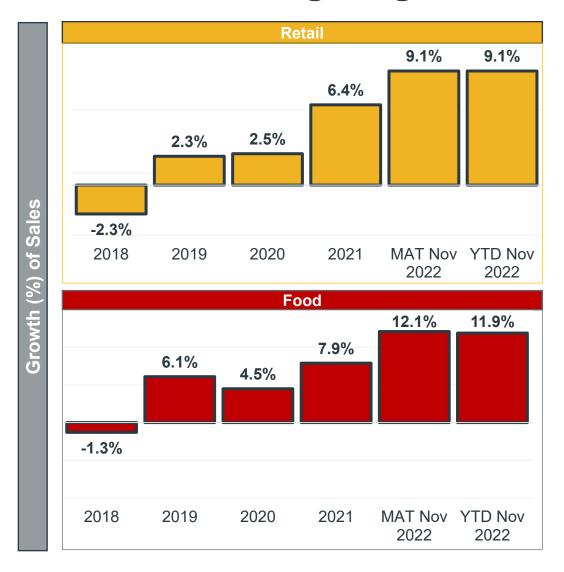
#### COVID-19 has affected Hospital sales more than other Non-Retail

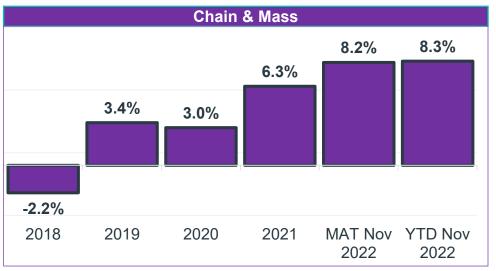


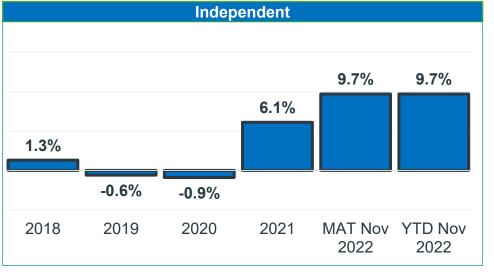




#### Food shows strongest growth

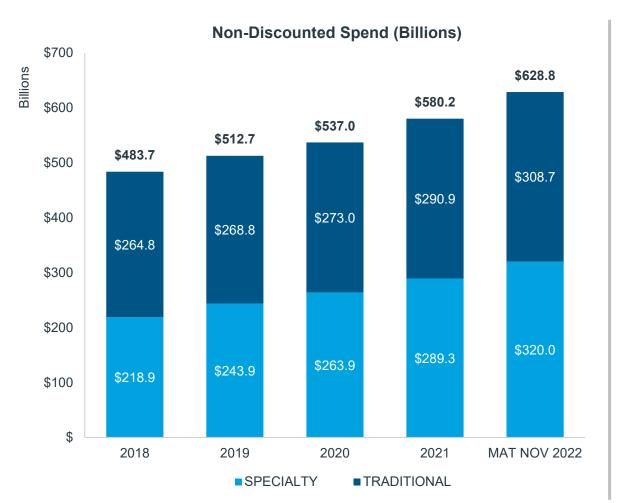




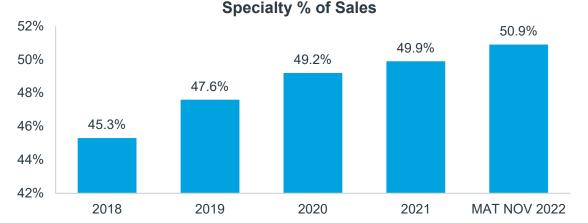


# For the total market, specialty growth outpaces traditional growth and now has ~51% share of total non-discounted spend

In MAT November 2022, specialty spend grew by 11.6% while traditional growth grew 6.9%



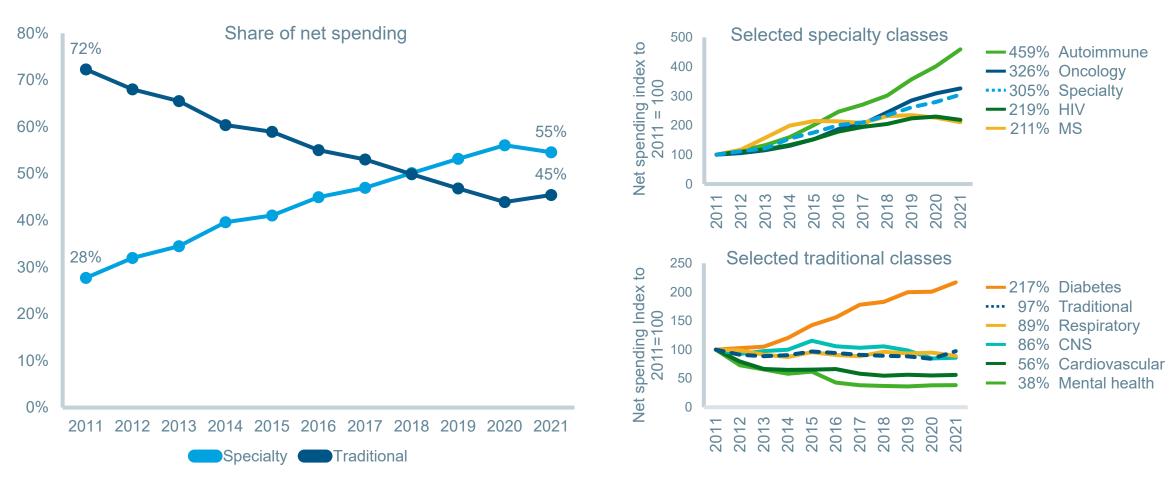






# Specialty medicines now account for 55% of net spending, up from 28% in 2011, driven by growth in auto-immune and oncology

Share of spending at estimated net manufacturer prices

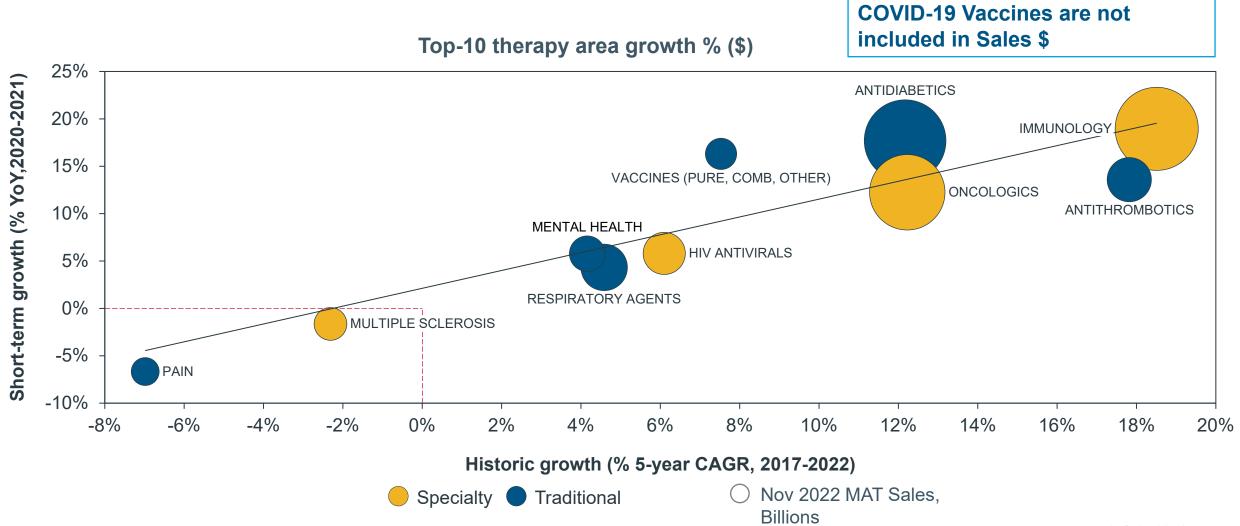




The Use of Medicines in the U.S.: Usage and Spending Trends and Outlook to 2026. Report by the IQVIA Institute for Human Data Science.

#### Immunology and Antithrombotics lead short and long-term growth

Slowing growth was occurring prior to COVID-19, and is not the sole contributor



#### The top 10 therapy areas are growing at 12.2% and account for 71.2% market share

Rank	Therapy Area	Non-Discounted Spend (US\$ BNs)				
		MAT SEP 2022	Market Share	ABS Growth	Growth	
1	IMMUNOLOGY	\$104.7	16.9%	\$16.7	19.0%	
2	ANTIDIABETICS	\$97.2	15.7%	\$14.5	17.6%	
3	ONCOLOGICS	\$87.0	14.1%	\$9.4	12.1%	
4	RESPIRATORY AGENTS	\$33.1	5.4%	\$1.3	4.1%	
5	ANTITHROMBOTICS	\$29.6	4.8%	\$3.8	14.6%	
6	HIV ANTIVIRALS	\$27.1	4.4%	\$1.1	4.1%	
7	MENTAL HEALTH	\$19.3	3.1%	\$0.9	4.7%	
8	MULTIPLE SCLEROSIS	\$16.7	2.7%	-\$0.3	-1.9%	
9	VACCINES (PURE, COMB, OTHER)	\$14.9	2.4%	\$1.6	11.9%	
10	PAIN	\$11.1	1.8%	-\$1.0	-8.2%	
TOP 10		\$440.6	71.2%	\$47.9	12.2%	

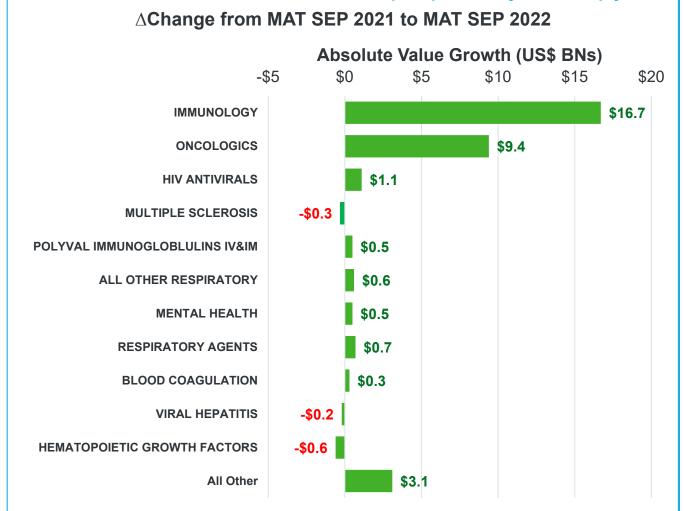
#### The top 20 therapy areas are growing at 10.5% and account for 84.0% market share

Rank	Therapy Area	Non-Discounted Spend (US\$ BNs)				
		MAT SEP 2022	Market Share	ABS Growth	Growth	
11	ADHD	\$9.7	1.6%	\$0.8	9.1%	
12	GI PRODUCTS	\$9.3	1.5%	\$0.1	0.7%	
13	OTHER CARDIOVASCULARS	\$8.8	1.4%	-\$2.3	-20.4%	
14	NERVOUS SYSTEM DISORDERS	\$8.8	1.4%	-\$0.7	-7.3%	
15	ANTIHYPERTENSIVES, PLAIN & COMBO	\$8.7	1.4%	\$0.2	1.9%	
16	OTHER CNS	\$8.6	1.4%	\$1.2	16.3%	
17	MIGRAINE	\$7.5	1.2%	\$2.2	42.2%	
18	DERMATOLOGICS	\$6.2	1.0%	-\$0.3	-4.5%	
19	OPHTHALMOLOGY, GENERAL	\$5.8	0.9%	-\$0.1	-1.1%	
20	POLYVAL IMMUNOGLOBLULINS IV&IM	\$5.8	0.9%	\$0.5	8.6%	
TOP 20		\$519.7	84.0%	\$49.5	10.5%	



#### Immunology and Oncologics contributed the most absolute value growth for specialty therapy areas

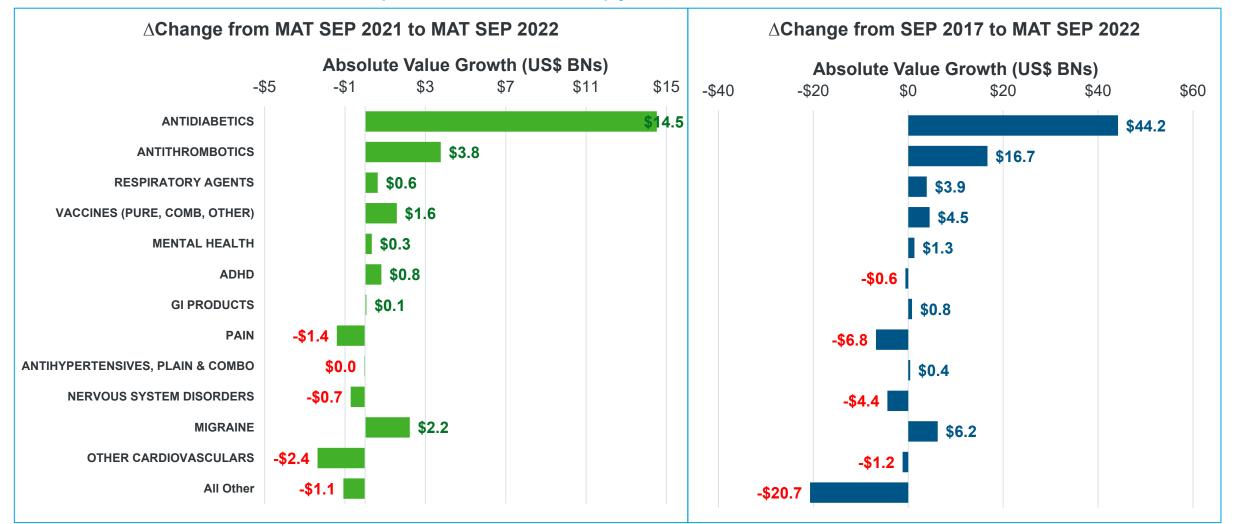
Absolute Value Growth for Top Specialty Therapy Areas





#### Antidiabetics and Antithrombotics lead absolute value growth for traditional therapy areas

Absolute Value Growth for Top Traditional Therapy Areas



#### The top 10 products are growing at 26.2% and account for 22.7% market share

Donk	Dundunt	Non-Discounted Spend (US\$ BNs)							
Rank	Product	MAT SEP 2022	Market Share	ABS Growth	Growth				
1	HUMIRA	\$30.3	4.9%	\$4.0	15.2%				
2	ELIQUIS	\$18.1	2.9%	\$3.0	20.3%				
3	TRULICITY	\$15.0	2.4%	\$3.7	32.6%				
4	OZEMPIC	\$13.3	2.2%	\$5.8	76.9%				
5	STELARA	\$13.1	2.1%	\$3.0	29.8%				
6	KEYTRUDA	\$12.1	2.0%	\$2.7	29.0%				
7	BIKTARVY	\$11.0	1.8%	\$1.9	20.5%				
8	JARDIANCE	\$10.8	1.7%	\$3.5	47.3%				
9	ENBREL	\$8.7	1.4%	\$0.7	8.9%				
10	XARELTO	\$7.9	1.3%	\$0.9	12.5%				
TOP 10		\$140.1	22.7%	\$29.1	26.2%				

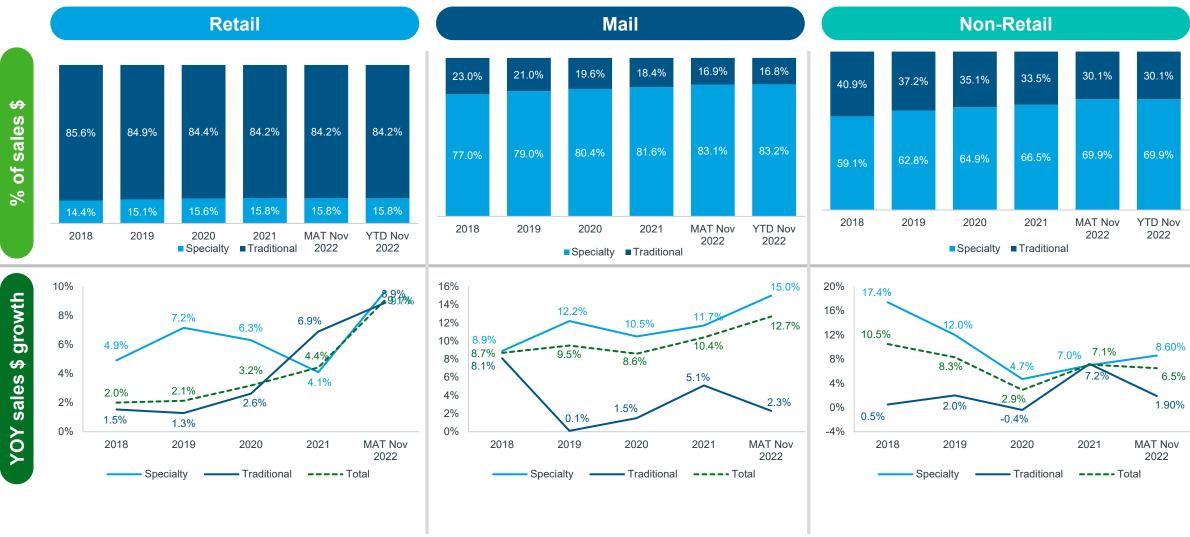


#### The top 20 products are growing at 24.6% and account for 30.7% market share

Donk	Product	Non-Discounted Spend (US\$ BNs)								
Rank	Product	MAT SEP 2022	Market Share	ABS Growth	Growth					
11	DUPIXENT	\$7.3	1.2%	\$2.2	43.7%					
12	JANUVIA	\$6.4	1.0%	\$0.0	-0.1%					
13	FARXIGA	\$5.1	0.8%	\$1.8	55.0%					
14	OPDIVO	\$4.7	0.8%	\$0.6	15.8%					
15	LANTUS SOLOSTAR	\$4.6	0.8%	-\$0.4	-8.6%					
16	OCREVUS	\$4.6	0.7%	\$0.7	16.6%					
17	VYVANSE	\$4.5	0.7%	\$0.5	13.4%					
18	TALTZ	\$4.5	0.7%	\$0.9	26.1%					
19	LATUDA	\$4.2	0.7%	\$0.2	5.7%					
20	SKYRIZI	\$4.2	0.7%	\$1.9	82.3%					
<b>TOP 20</b>		\$190.2	30.7%	\$38.5	24.6%					



#### Specialty sales increase in all channels over time



Data is based on Rx and OTC Insulins only

#### HIV Antivirals is the largest specialty category in Retail

Top 10 Specialty Therapies for Retail, Mail, and Non-Retail MAT November 2022 (in \$ Billions)

RETAIL								
Therapy	MAT Nov 2022	YoY Growth						
HIV ANTIVIRALS	17.0	4.4%						
IMMUNOLOGY	9.5	17.8%						
MENTAL HEALTH	2.5	8.5%						
ONCOLOGICS	2.5	3.0%						
ANTI-INFLAMMATORY AND DIGESTIVE ENZYMES AND MODULA	2.3	11.3%						
LIPID REGULATORS	1.6	40.9%						
VIRAL HEPATITIS	1.3	3.8%						
OTHER CNS	0.8	51.1%						
SEX HORMONES (ANDROGENS, OESTROGENS, PROGESTOGENS)	0.7	1.4%						
MULTIPLE SCLEROSIS	0.6	-7.6%						

MAIL								
Therapy	MAT Nov 2022	YoY Growth						
IMMUNOLOGY	79.5	21.5%						
ONCOLOGICS	24.1	14.6%						
MULTIPLE SCLEROSIS	10.0	-6.3%						
HIV ANTIVIRALS	5.4	5.6%						
ALL OTHER RESPIRATORY	4.4	8.7%						
RESPIRATORY AGENTS	2.8	22.0%						
OTHER CARDIOVASCULARS	2.4	5.8%						
GROWTH HORMONES	2.4	2.8%						
BLOOD COAGULATION	2.2	10.4%						
VIRAL HEPATITIS	2.0	-5.5%						

NON-RETAIL							
Therapy	MAT Nov 2022	YoY Growth					
ONCOLOGICS	61.7	11.9%					
IMMUNOLOGY	18.4	9.6%					
MULTIPLE SCLEROSIS	6.0	9.1%					
POLYVAL IMMUNOGLOBLULINS	5.2	8.5%					
HIV ANTIVIRALS	5.2	10.9%					
HEMATOPOIETIC GROWTH FACTORS	3.1	-13.2%					
ERYTHROPOIETINS	2.6	-4.1%					
MENTAL HEALTH	2.6	16.7%					
IMMUNOSUPPRESSANTS	2.3	24.3%					
RESPIRATORY AGENTS	2.1	8.2%					

Source: IQVIA, National Sales Perspectives, 2022. Limited to Rx and OTC Insulins

#### Biktarvy and Descovy show strong retail growth in Specialty

#### **Specialty Retail Market**

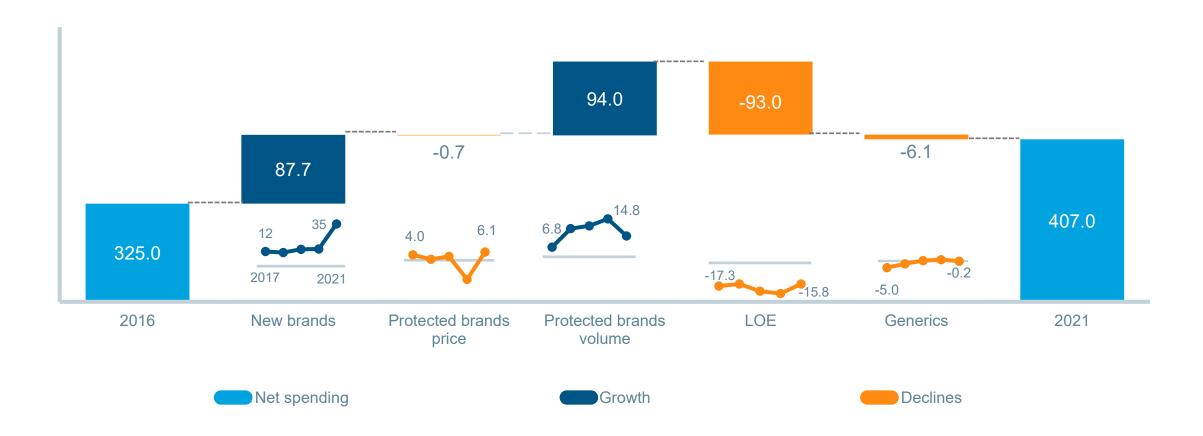
Donk	Thousan Auga	Sales (\$) in Billions							
Rank	Therapy Area	MAT JUN 2022	Market Share	ABS Growth	Growth				
1	BIKTARVY	6.4	16.0%	1.2	21.9%				
2	HUMIRA	3.2	8.0%	0.3	11.8%				
3	DESCOVY	2.2	5.4%	0.4	20.7%				
4	GENVOYA	1.7	4.3%	-0.2	-10.1%				
5	TRIUMEQ	1.2	3.1%	-0.1	-9.2%				
6	ENBREL	1.2	2.9%	0.0	2.8%				
7	INVEGA SUSTENNA	1.1	2.8%	0.1	4.9%				
8	CREON 36	1.0	2.4%	0.2	18.6%				
9	STELARA	0.9	2.3%	0.2	33.3%				
10	TIVICAY	0.9	2.1%	0.0	-3.3%				
TOP 10		19.8	49.3%	2.0	11.1%				

Sales in Billions



# Spending increased by \$82Bn over the past five years driven by new products and brand volume, offset by expiries

Spending and growth at estimated net manufacturer prices 2015–2020, all channels, US\$Bn

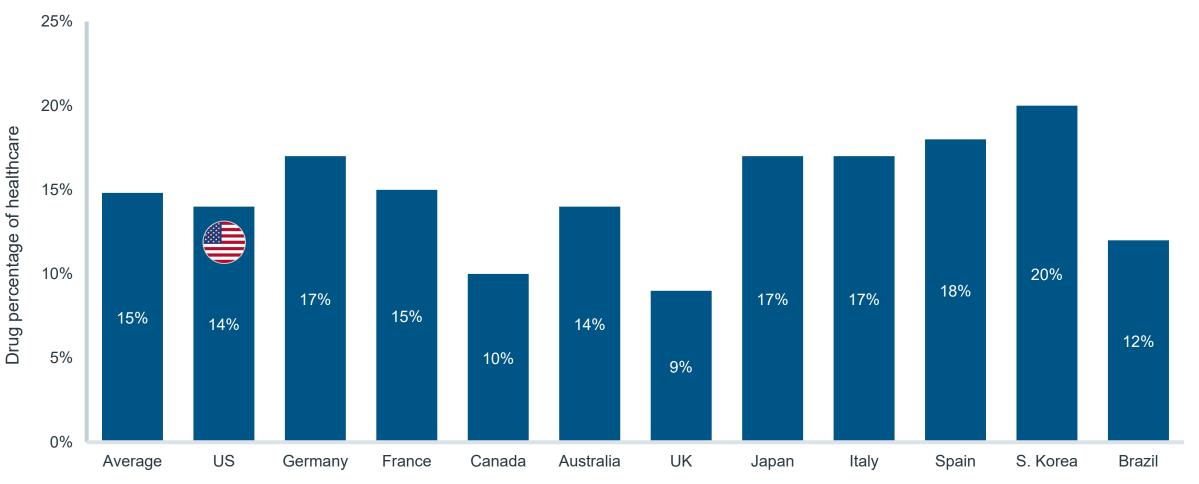




Source: IQVIA Institute, Mar 2022.

# Total drug spending averages 15% of healthcare with countries ranging from 9-20%

Real net drug percentage of healthcare, 2018



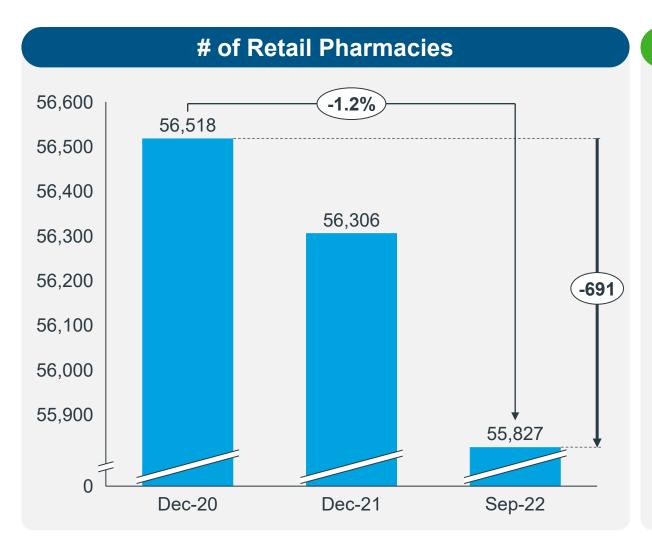
Source: IQVIA Institute for Human Data Science, Sep 2021





# Retail Class of Trade and Method of Payment Performance

#### Almost 700 pharmacies have disappeared within the last 2 years



#### The number of store fronts will continue to decrease

#### Rite Aid, CVS and Walgreens are still closing store fronts



- CVS is 1 year into their announcement to close 900 over 3 years
- Rite Aid and Walgreens announced more store closings in the last 12 months

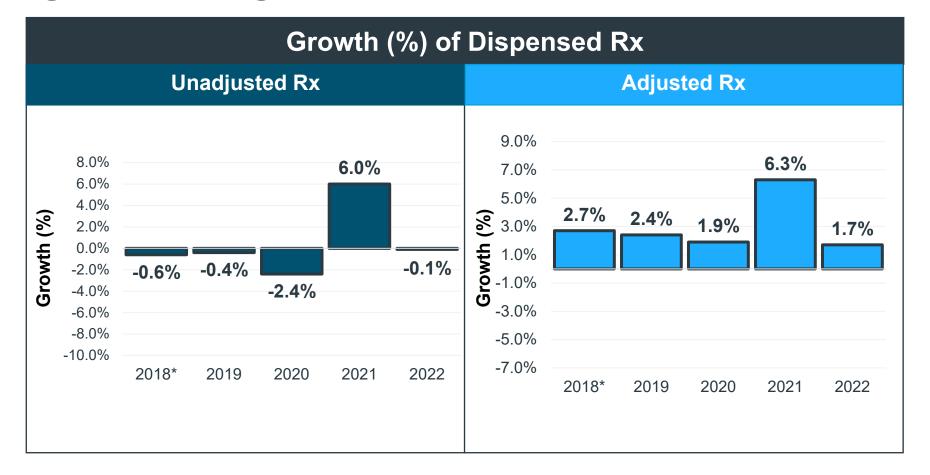
#### Headlines that could be impactful to Retail



- Kroger and Albertsons announced their planned merger
- Amazon Pharmacy rolls out service for unlimited generic drug prescriptions for \$5 a month
- CVS, Walmart article in WSJ references reduced store hours



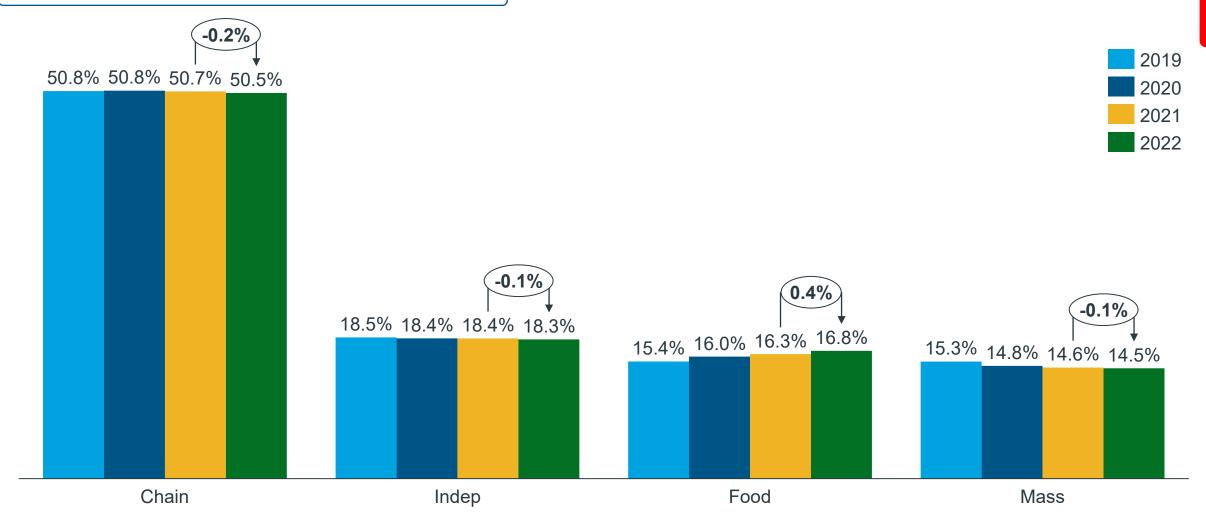
### Unadjusted Rx growth for MAT and YTD December is negative, but Adjusted growth is higher





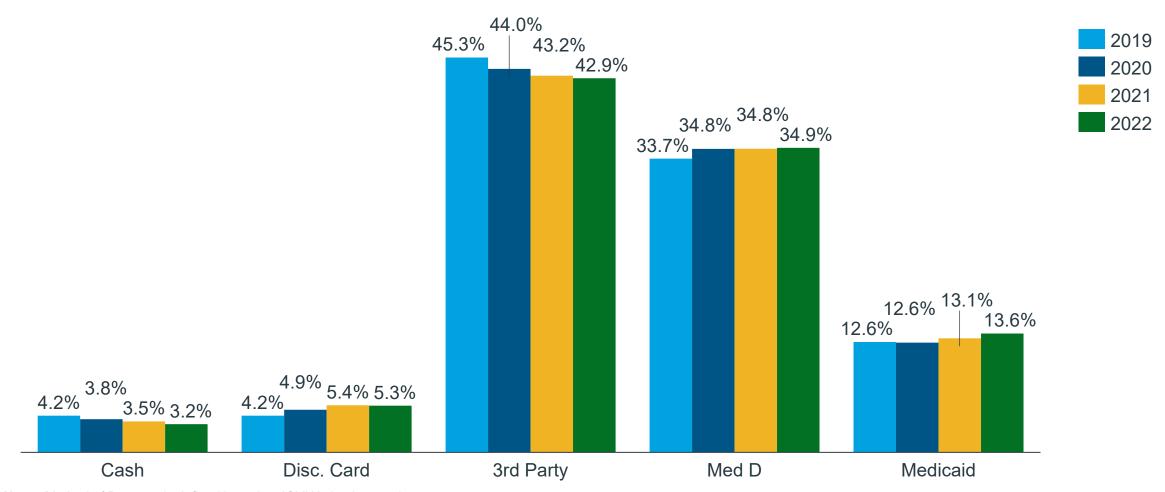
### Food gained YoY again while Chain lost slightly, and Independents and Mass were relatively unchanged

Market Share - Class of Trade - Total Retail

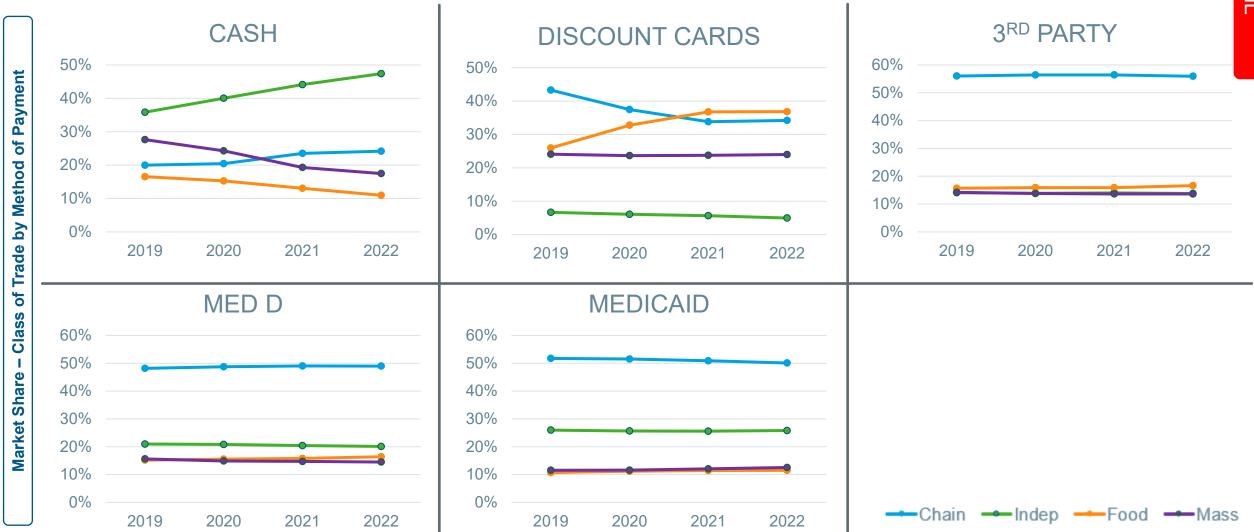


# 3<sup>rd</sup> Party still has the largest market share but that has been diminishing in recent years as Med D grows

**Market Share - Method of Payment - Total Retail** 

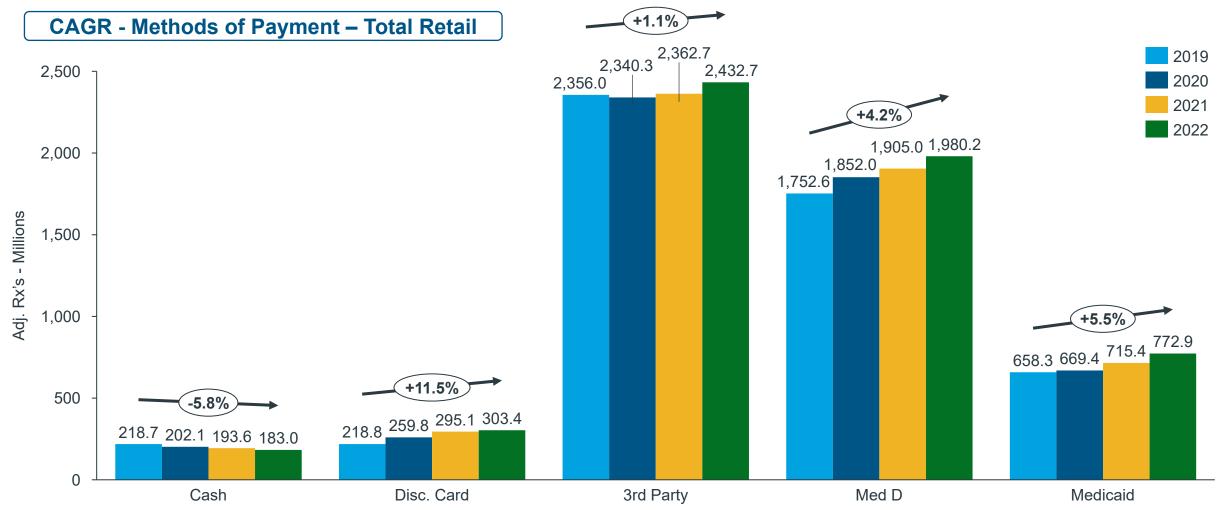


#### While Chain has the largest share of 3<sup>rd</sup> Party, Med D and Medicaid, Food has the largest Discount Card And Independents have the largest Cash shares

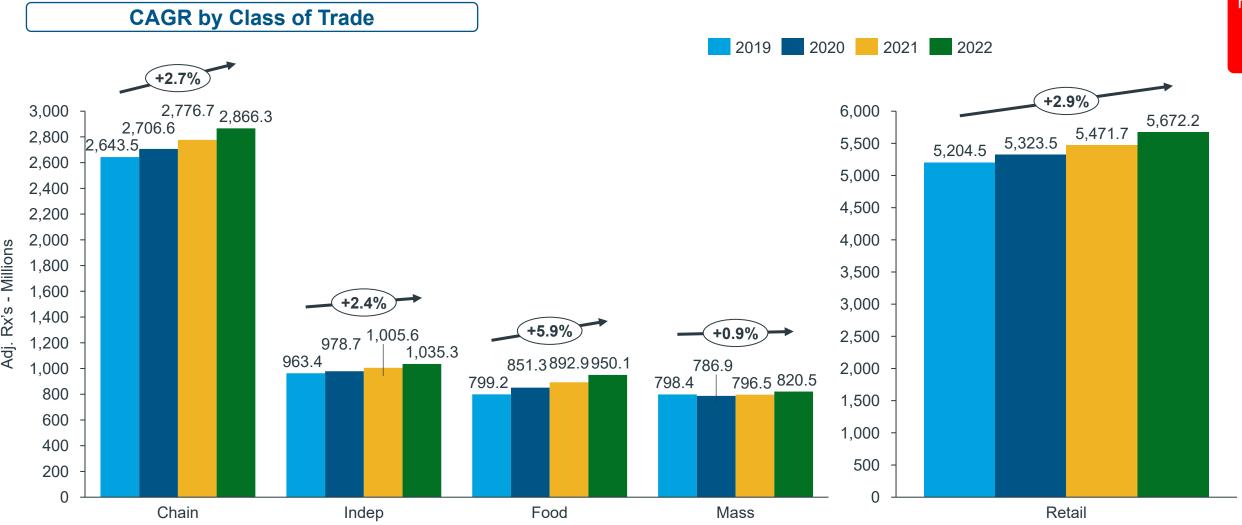




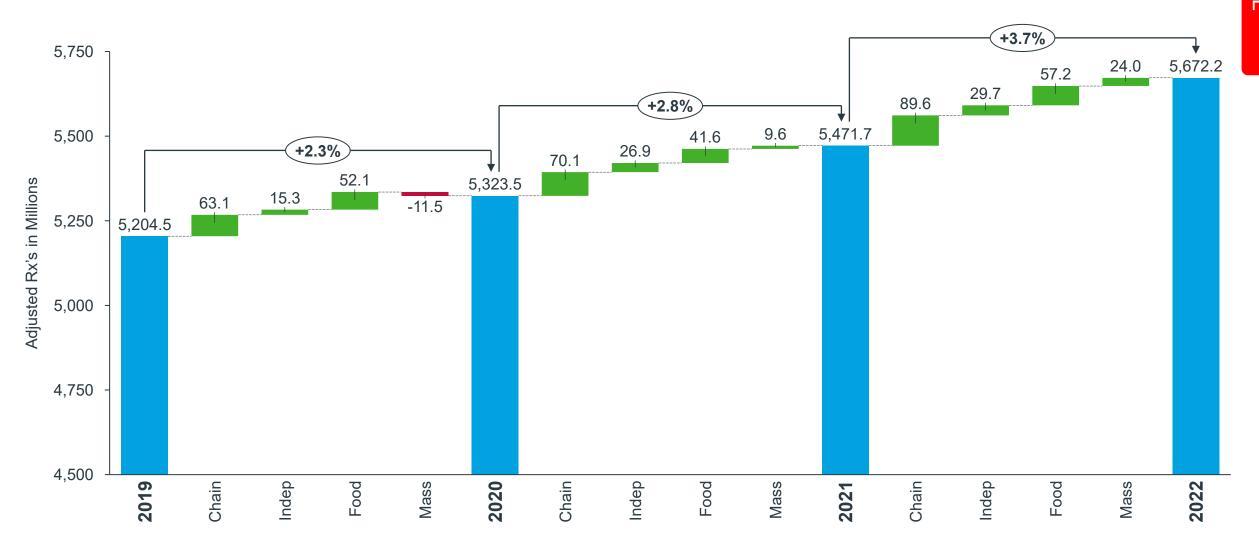
# Med D has the largest volume growth over the last 4 years while Discount Cards have the largest CAGR during this time



#### Food has the largest CAGR at 5.9% while Mass has the lowest at 0.9%



# Growth in Retail is being driven by Chain and Food in recent years

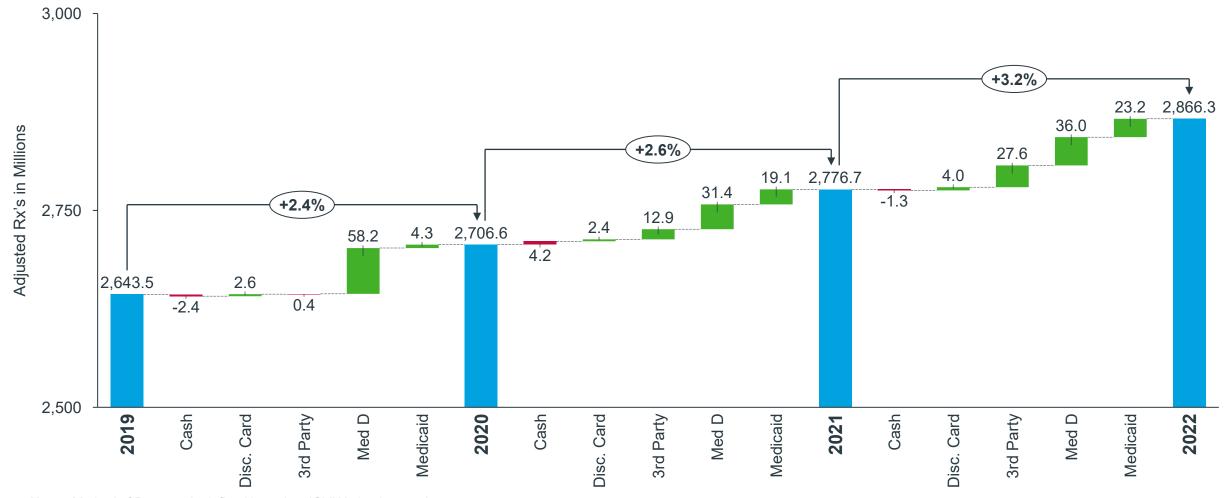


# Med D has consistently been the largest growth driver in retail in recent years



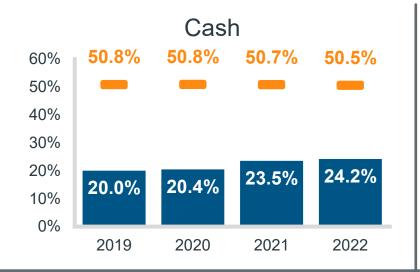


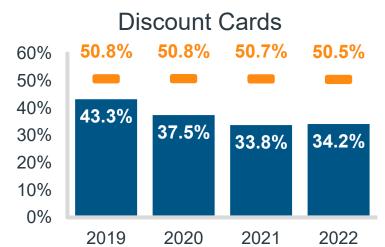
#### Med D has also consistently driven growth in Chain

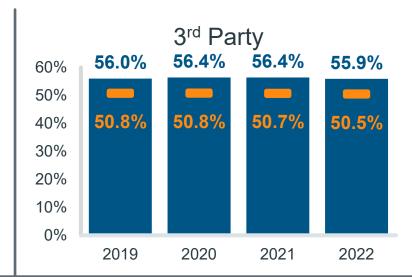


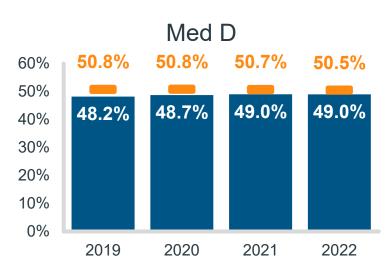


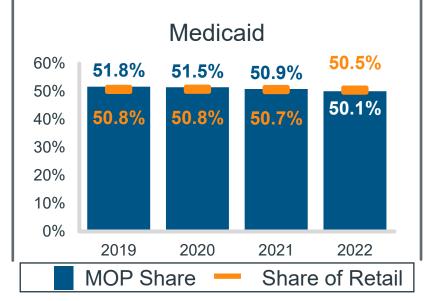
#### Chain under-indexes with Cash and Discount Cards while over-indexing with 3<sup>rd</sup> Party





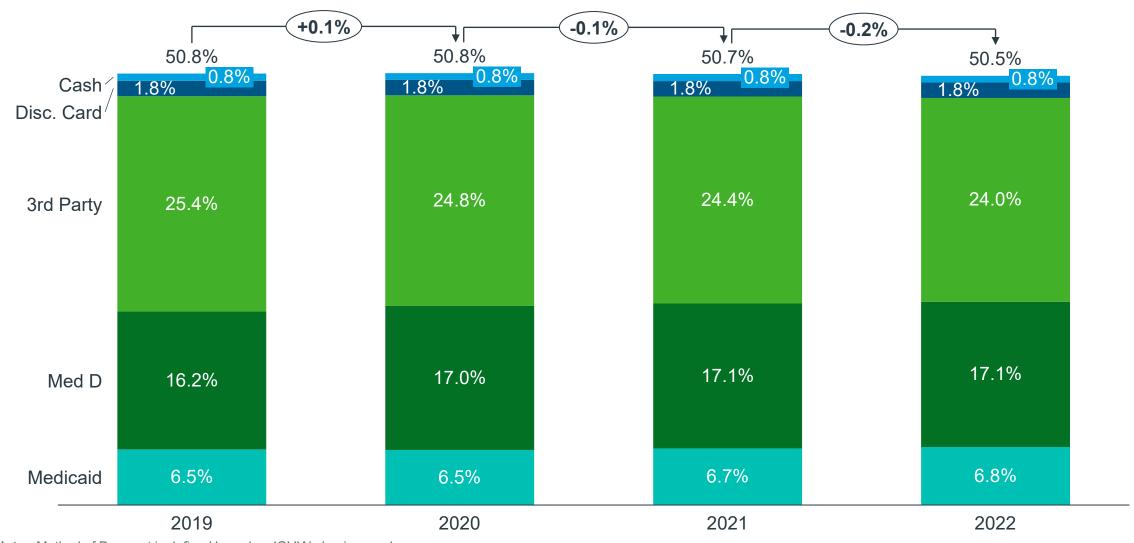




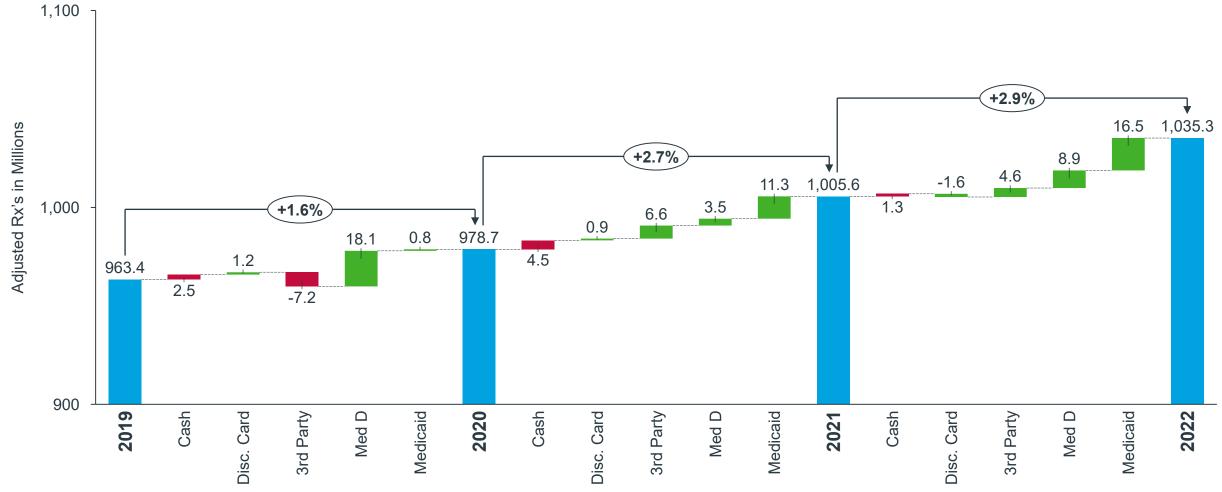




#### Chain shares have not shifted significantly; however, the contribution of 3<sup>rd</sup> Party has declined while Med D has increased

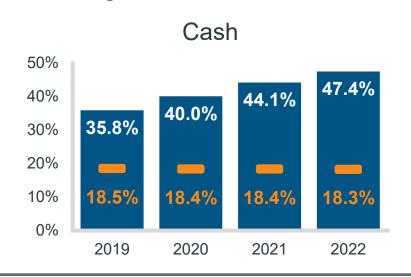


# Growth in Independents has been driven by Medicaid over the last two years



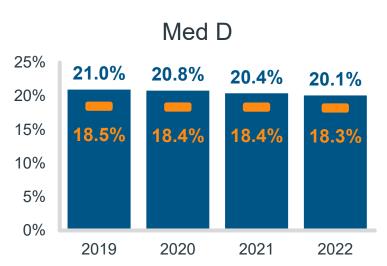


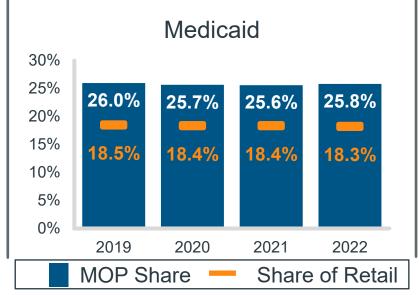
#### Independents over-index with Cash, Med D and Medicaid





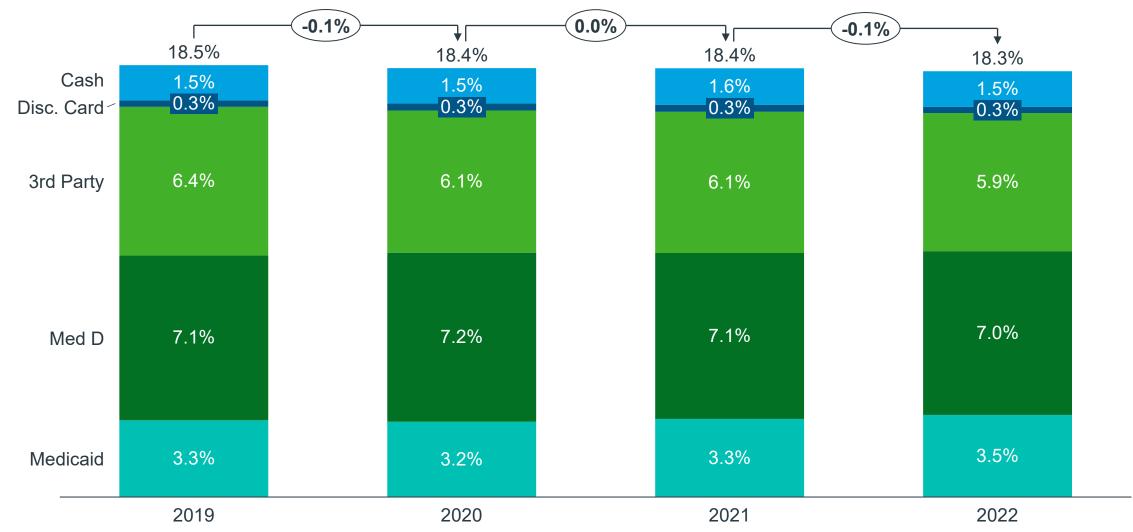




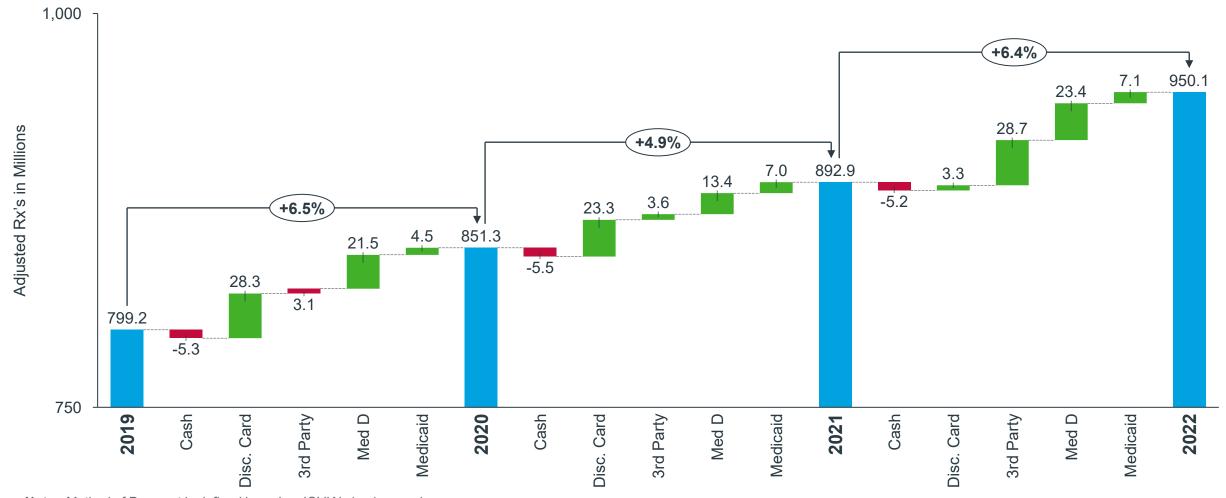




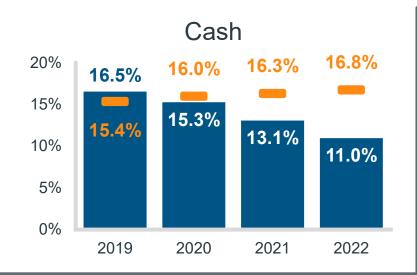
#### Independents share declined slightly with the largest impacts coming from 3<sup>rd</sup> Party



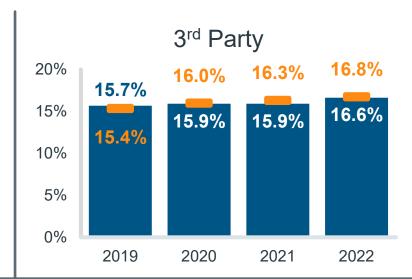
# In 2020 and 2021 Discount Cards drove growth at Food and then in 2022 it was driven by 3<sup>rd</sup> Party

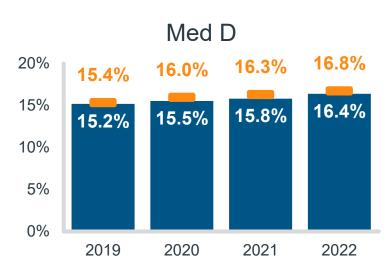


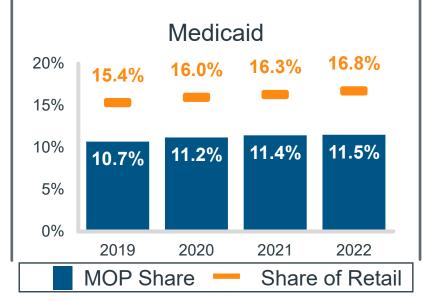
#### Food over-indexes with Discount Cards while under-indexing with Medicaid





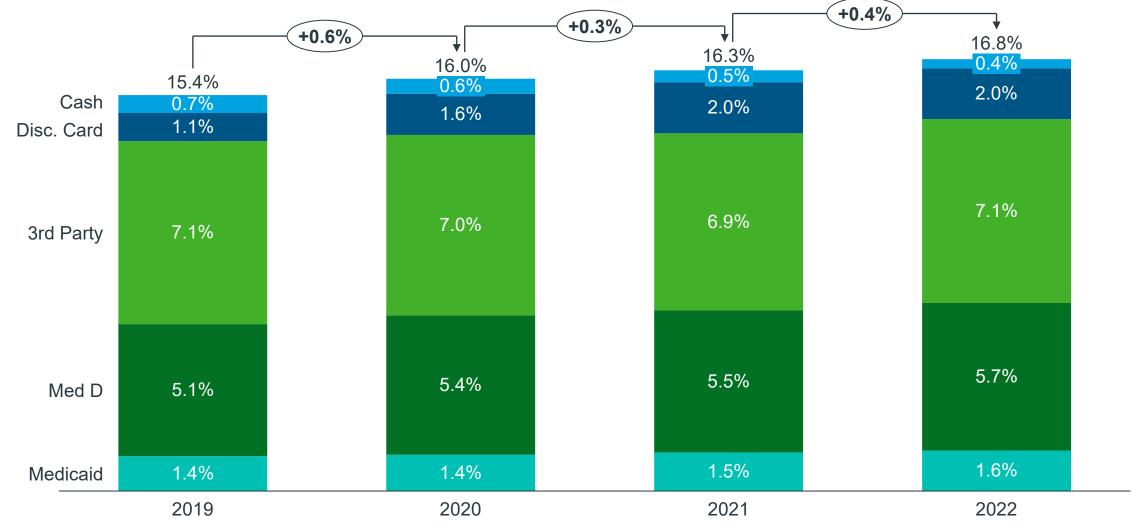




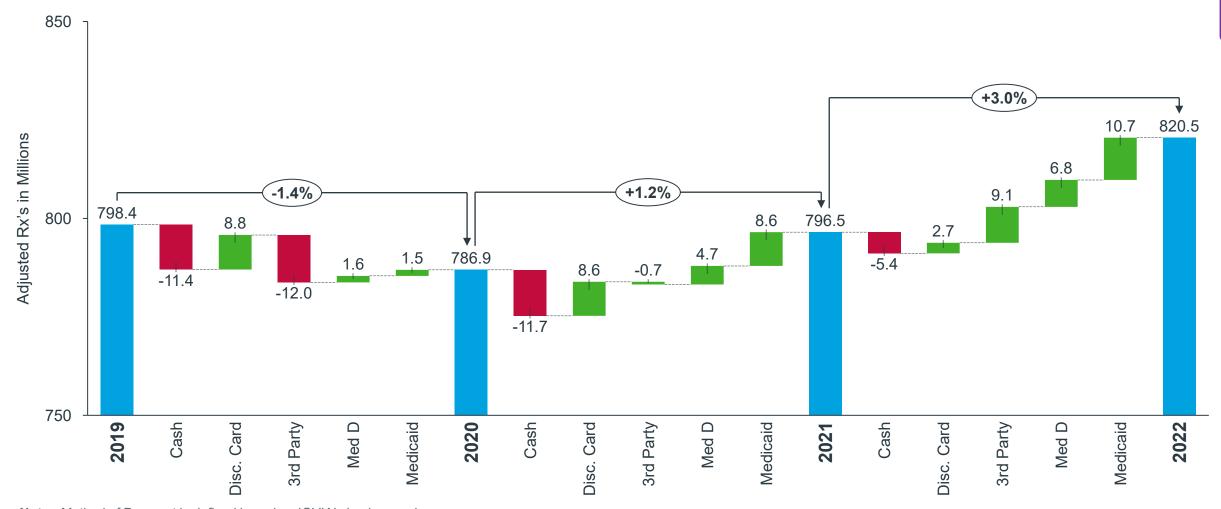




#### In Food Discount Cards have driven share gains, but so has Med D



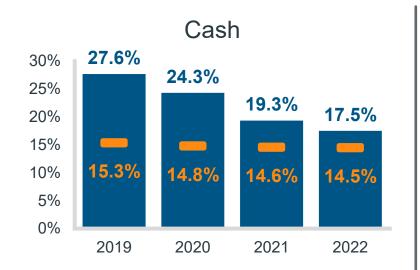
#### After two rough years Mass is regaining volumes through Medicaid



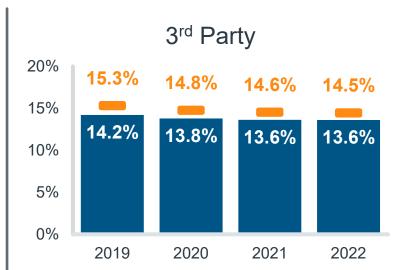
 $\underline{\textbf{Note:}}$  Method of Payment is defined based on IQVIA's business rules

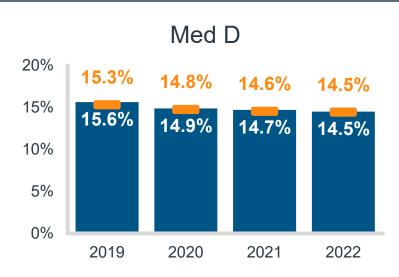


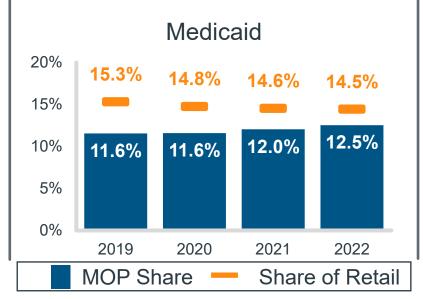
#### Mass over-indexing with Cash has changed in recent years while they under-index with Medicaid





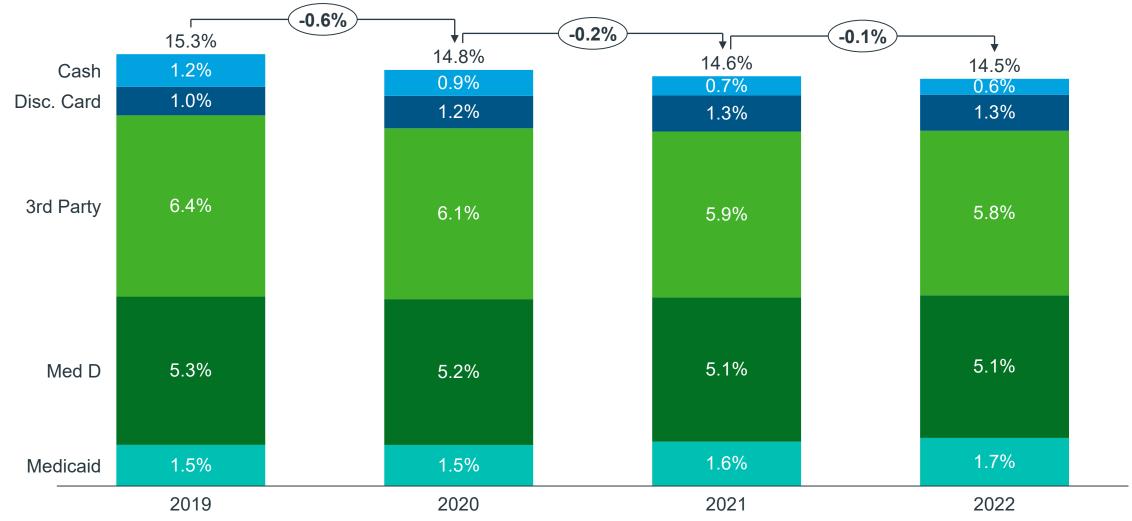








# Share in Mass has been negatively impacted by Cash and 3<sup>rd</sup> Party



### On a script basis, the top 10 therapy areas are growing at 3.2% adjusted and at 1.9% unadjusted

		Adjusted Scripts (MNs)				Unadjusted Scripts (MNs)				
Rank	Therapy Area	MAT DEC 2022	Market Share	ABS Growth	Growth	MAT DEC 2022	Market Share	ABS Growth	Growth	
1	ANTIHYPERTENSIVES, PLAIN & COMBO	1,288.6	19.8%	22.3	1.8%	634.2	14.6%	-2.4	-0.4%	
2	MENTAL HEALTH	632.9	9.7%	25.1	4.1%	420.1	9.7%	8.4	2.0%	
3	LIPID REGULATORS	556.1	8.5%	25.2	4.8%	257.4	5.9%	6.1	2.4%	
4	ANTIDIABETICS	403.9	6.2%	23.5	6.2%	230.5	5.3%	11.4	5.2%	
5	PAIN	378.1	5.8%	-3.8	-1.0%	343.6	7.9%	-4.6	-1.3%	
6	ANTI-ULCERANTS	273.1	4.2%	10.0	3.8%	154.8	3.6%	1.7	1.1%	
7	NERVOUS SYSTEM DISORDERS	265.8	4.1%	4.9	1.9%	199.1	4.6%	1.5	0.8%	
8	ANTIBACTERIALS	233.4	3.6%	24.7	11.8%	229.7	5.3%	24.5	12.0%	
9	THYROID ANTI-THYROID AND IODINE PREPS	231.7	3.6%	1.3	0.5%	115.4	2.7%	-2.6	-2.2%	
10	RESPIRATORY AGENTS	225.7	3.5%	7.5	3.5%	177.1	4.1%	6.6	3.9%	
TOP 10	)	4,489.3	68.9%	140.8	3.2%	2,762.0	63.8%	50.6	1.9%	

### On a script basis, the top 20 therapy areas are growing at 0.8% adjusted and declining at 1.4% unadjusted

		Adjusted Scripts (MNs)				Unadjusted Scripts (MNs)			
Rank	Therapy Area	MAT DEC 2022	Market Share	ABS Growt	h Growth	MAT DEC 2022	Market Share	ABS Growt	h Growth
11	OTHER CNS	194.4	3.0%	3.3	1.7%	174.2	4.0%	1.7	1.0%
12	VACCINES (PURE, COMB, OTHER)	156.7	2.4%	-117.6	-42.9%	155.2	3.6%	-119.0	-43.4%
13	DERMATOLOGICS	127.5	2.0%	4.7	3.9%	121.8	2.8%	4.2	3.6%
14	ANTITHROMBOTICS	123.5	1.9%	1.3	1.1%	73.1	1.7%	-0.2	-0.3%
15	ADHD	120.0	1.8%	8.1	7.3%	108.7	2.5%	7.3	7.2%
16	HORMONAL CONTRACEPTION, SYSTEMIC&TOPICAL	117.3	1.8%	-7.6	-6.1%	61.4	1.4%	-5.7	-8.5%
17	VITAMINS & MINERALS	105.8	1.6%	-3.0	-2.7%	62.4	1.4%	-3.3	-5.1%
18	BPH (BENIGN PROSTATIC HYPERTROPHY)	93.4	1.4%	4.9	5.5%	46.0	1.1%	1.4	3.1%
19	CORTICOSTEROIDS, PLAIN & COMBO	83.9	1.3%	8.0	10.6%	78.3	1.8%	7.9	11.3%
20	GI PRODUCTS	68.7	1.1%	3.1	4.7%	58.5	1.4%	2.2	4.0%
TOP 20	)	5,680.5	87.2%	46.0	0.8%	3,701.5	85.5%	-52.8	-1.4%

### On a script basis, the top 10 products are growing at 3.8% adjusted and growing at 1.4% unadjusted

			Adjusted Scrip	Unadjusted Scripts (MNs)					
Rank	Product	MAT DEC 2022	Market Share	ABS Growth	Growth	MAT DEC 2022	Market Share	ABS Growth	Growth
1	ATORVASTATIN CA	274.8	4.2%	14.0	5.4%	128.9	3.0%	3.6	2.9%
2	AMLODIPINE BESY	189.1	2.9%	6.8	3.7%	91.1	2.1%	1.0	1.2%
3	LISINOPRIL	176.7	2.7%	-3.1	-1.7%	84.6	2.0%	-3.8	-4.3%
4	LEVOTHYROXINE SOD	166.7	2.6%	3.7	2.2%	83.2	1.9%	-0.2	-0.2%
5	LOSARTAN POT	132.3	2.0%	6.9	5.5%	62.4	1.4%	2.3	3.8%
6	METFORMIN HCL	114.3	1.8%	-0.3	-0.3%	56.6	1.3%	-1.6	-2.8%
7	METOPROLOL SUCCIN	110.3	1.7%	5.6	5.3%	52.4	1.2%	1.6	3.1%
8	ROSUVASTATIN CAL	104.3	1.6%	17.2	19.7%	46.9	1.1%	6.8	16.9%
9	GABAPENTIN	97.2	1.5%	2.8	3.0%	72.2	1.7%	1.5	2.2%
10	HYDROCHLOROTHIAZIDE	95.0	1.5%	-0.4	-0.4%	44.1	1.0%	-1.5	-3.3%
TOP 10	)	1,460.7	22.4%	53.1	3.8%	722.4	16.7%	9.7	1.4%

#### On a script basis, the top 20 products are declining at 0.6% adjusted and at 5.4% unadjusted

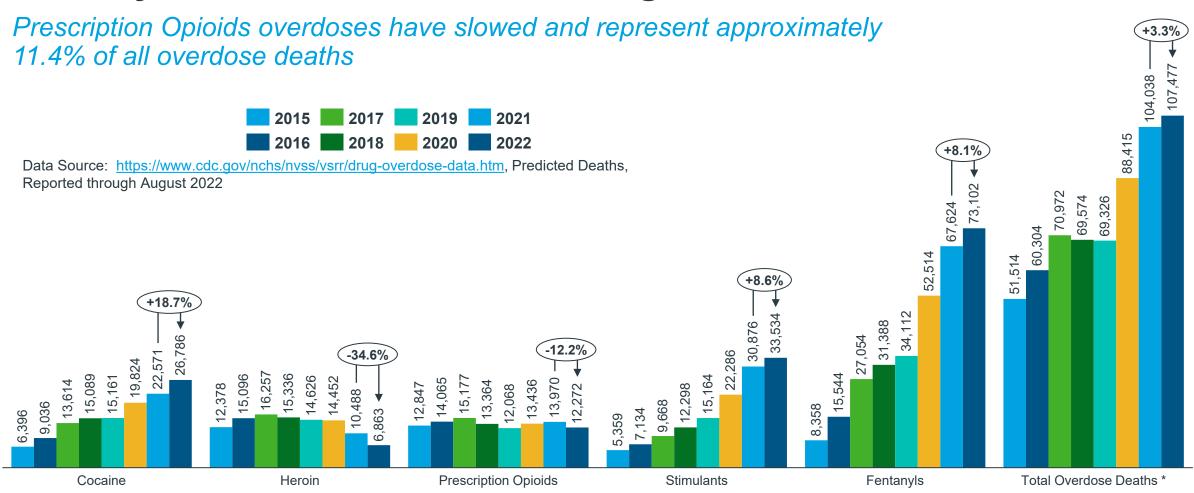
		Adjusted Scripts (MNs)				Unadjusted Scripts (MNs)			
Rank	Product	MAT DEC 2022	Market Share	ABS Growth	Growth	MAT DEC 2022	Market Share	ABS Growth	Growth
11	SERTRALINE HCL	87.6	1.3%	4.2	5.0%	55.0	1.3%	1.4	2.6%
12	OMEPRAZOLE (RX)	85.6	1.3%	-11.1	-11.5%	46.9	1.1%	-7.3	-13.5%
13	PANTOPRAZOLE SOD	83.9	1.3%	5.2	6.6%	47.2	1.1%	1.7	3.8%
14	ESCITALOPRAM OXAL	76.5	1.2%	5.4	7.6%	46.9	1.1%	2.0	4.5%
15	MONTELUKAST SOD	65.3	1.0%	0.5	0.8%	36.0	0.8%	-0.9	-2.5%
16	SIMVASTATIN	63.8	1.0%	-6.3	-8.9%	27.9	0.6%	-3.4	-10.8%
17	FUROSEMIDE	62.7	1.0%	-1.0	-1.6%	36.1	0.8%	-1.1	-3.0%
18	TAMSULOSIN HCL	60.7	0.9%	3.7	6.5%	30.8	0.7%	1.1	3.9%
19	TRAZODONE HCL	60.6	0.9%	3.2	5.6%	40.6	0.9%	1.3	3.4%
20	COMIRNATY	58.8	0.9%	-70.0	-54.3%	58.8	1.4%	-70.0	-54.4%
TOP 20		2,166.0	33.3%	-13.1	-0.6%	1,148.6	26.5%	-65.4	-5.4%



#### **Opioids**



### Fentanyls continue to be the leading cause of overdose deaths

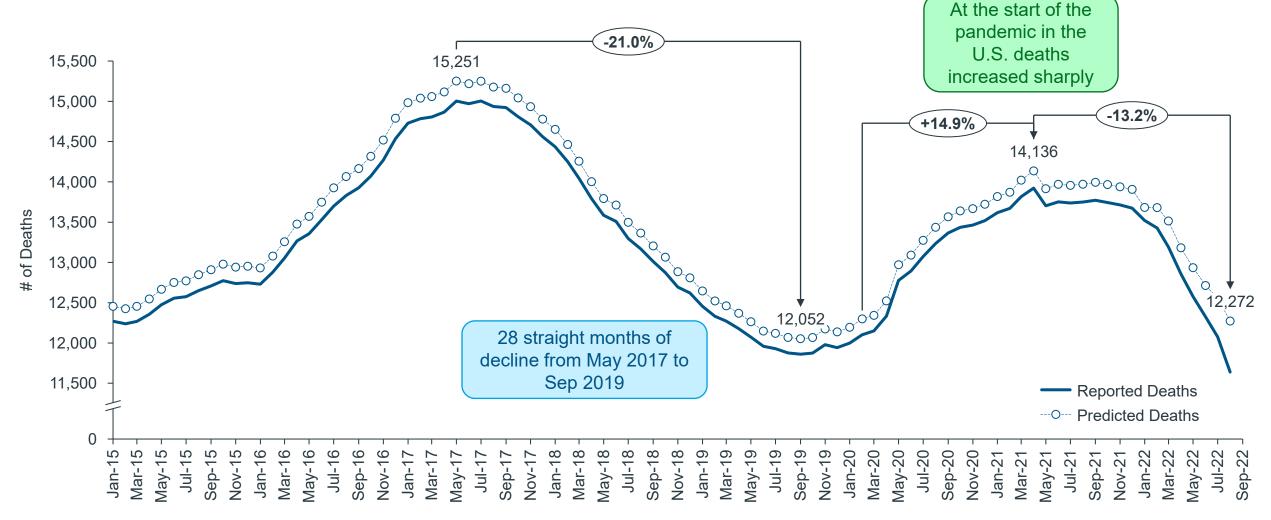


Notes: Data is based on 12 months ending August 2022, Cocaine = Cocaine (T40.5), Heroin = Heroin (T40.1), Prescription Opioids = Natural & Semi-synthetic Opioids (T40.2), Stimulants = Psychostimulants with abuse potential (T43.6) and Fentanyls = Synthetic Opioids, Excl. Methadone (T40.4)

<sup>\* -</sup> Drug overdose deaths may involve multiple drugs; therefore, a single death might be included in more than one category when describing the number of drug overdose deaths involving specific drugs

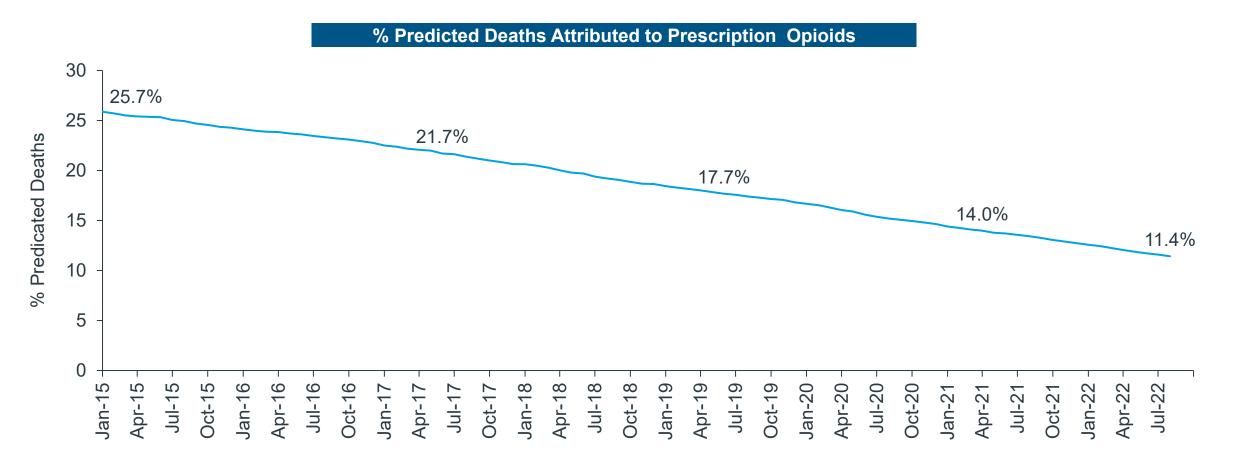


## Prescription Opioid overdose deaths have begun to decline once again



Data Source: <a href="https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm">https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm</a>, data reported as of August 2022

## The percentage of prescription opioids attributed to predicted deaths continues to decline

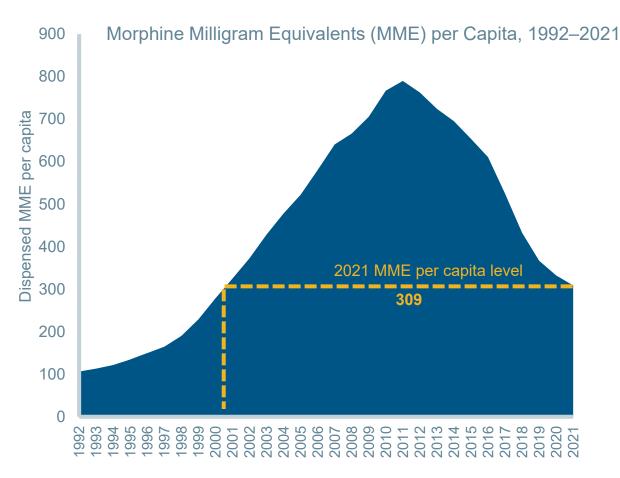


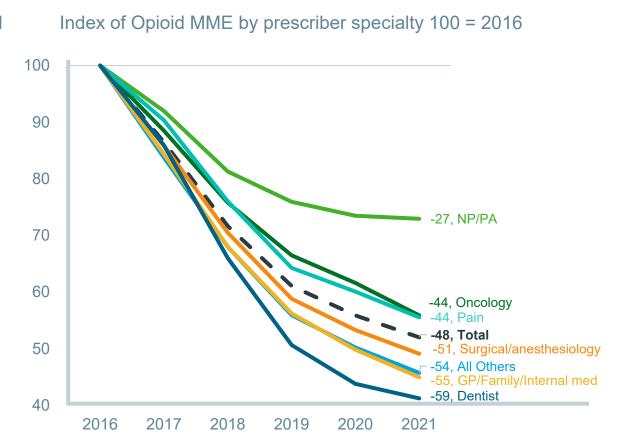
Data Source: <a href="https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm">https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm</a>, data reported as of February 2022



## Per capita prescription opioid use continues to decline to levels seen in 2000, with varying decreases across specialties

Prescription opioid use overall and by prescriber specialty





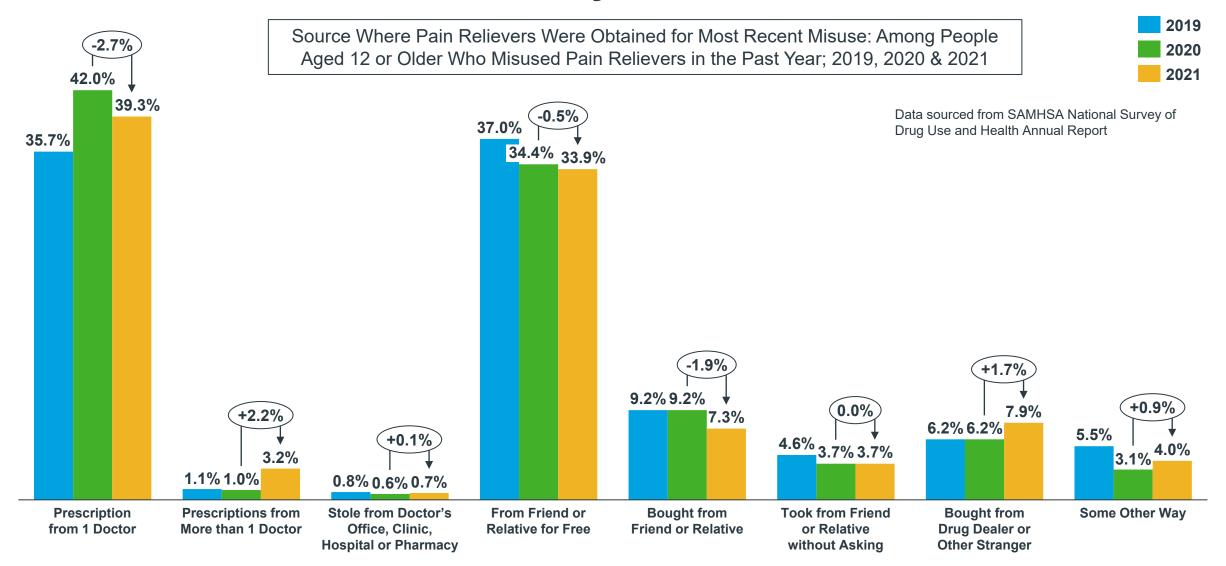


Source: IQVIA Xponent, Feb 2022; IQVIA National Prescription Audit, IQVIA Institute, Mar 2022.

The Use of Medicines in the U.S.: Usage and Spending Trends and Outlook to 2026. Report by the IQVIA Institute for Human Data Science.



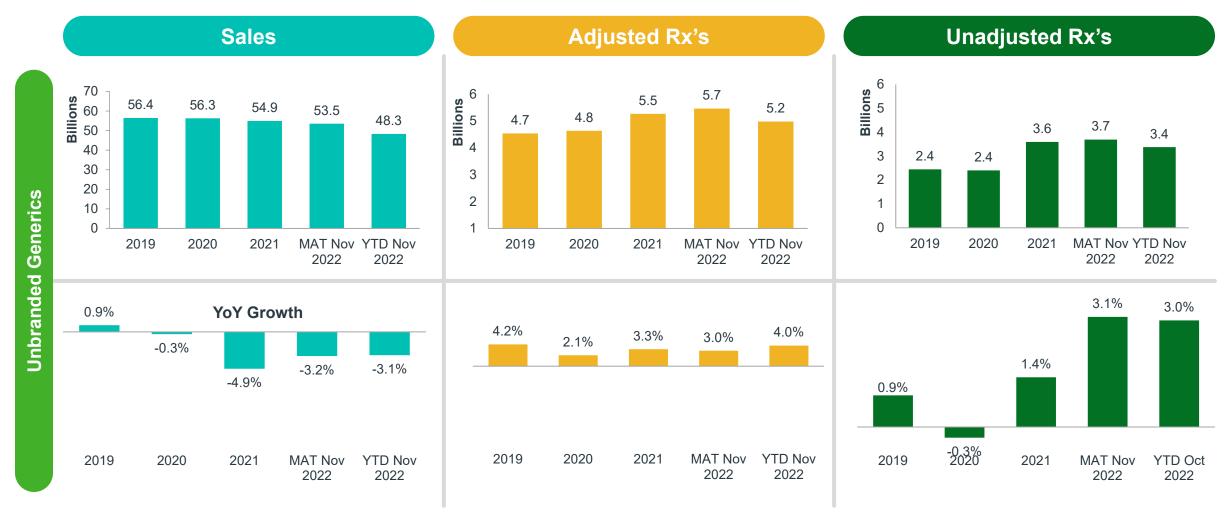
## 39% of individuals who use pain relievers got them from one doctor in SAMHSA's 2021 survey





### **Generics & Biosimilars**

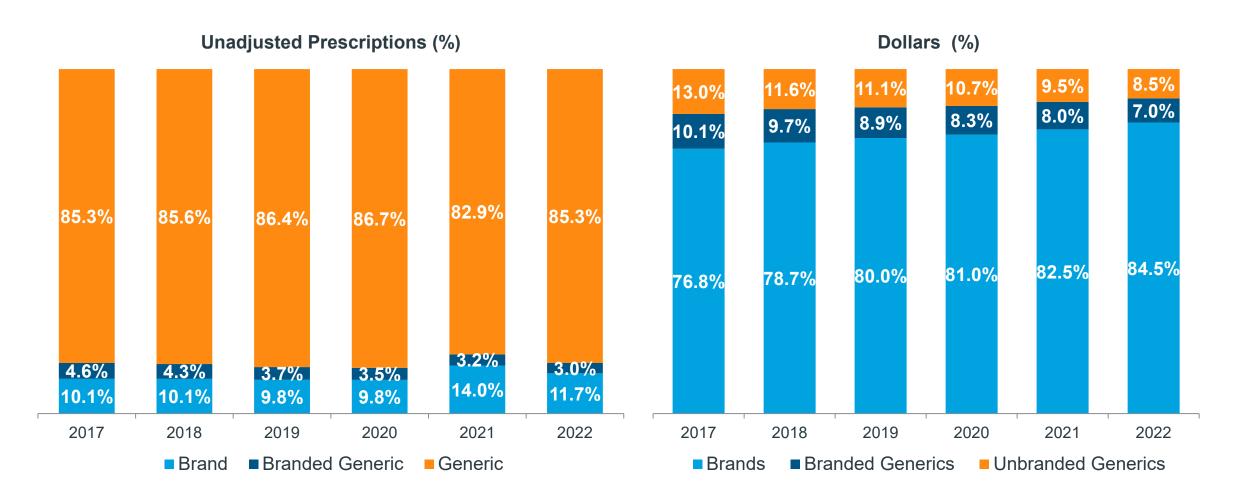
### Unbranded Generics sales are negative by Rx's are positive



Source: IQVIA, National Sales Perspectives and RxInsights, 2022 Note: Limited to Rx and OTC Insulins; Includes Retail, Non-Retail and Mail



## 85.3% of prescriptions are dispensed as unbranded generics for 2022 (unadjusted)



## The impact of exclusivity losses will drop to \$56Bn over five years including significant biosimilars impact through the period

U.S. impact of brand losses of exclusivity 2017–2026, US\$Bn







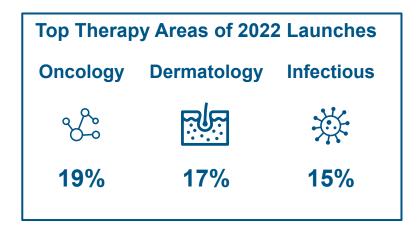
### **Product Launches**

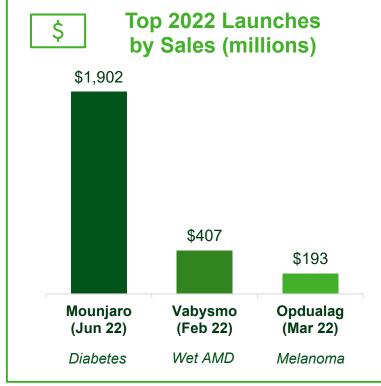


### **Executive summary**

Through December, there have been 54 launches in 2022 which is down compared to 76 launches for the same period in 2021; Oncology is the top therapy area in 2022, accounting for 19% of the product launches







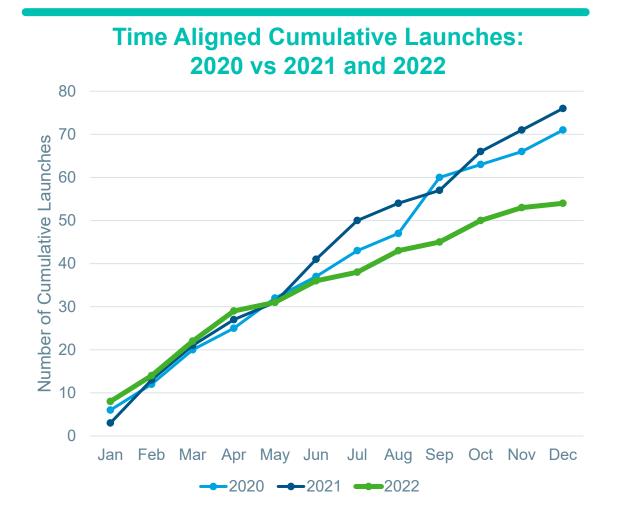
33

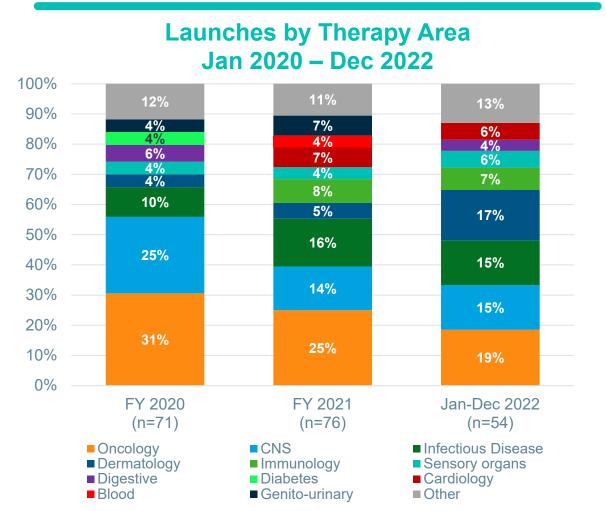


Of the 36 FDA approved New Molecular Entities (NMEs) in 2022 show evidence of launch based on supply in channel or active websites

In 2021, the FDA approved 49 New Molecular Entities (NMEs). Of those 48 show evidence of launch.

## Through December, the number of launches in 2022 is down compared to previous years

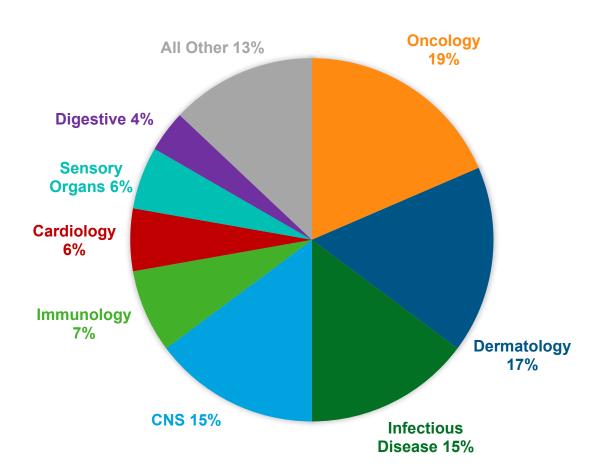






## Lilly's Mounjaro for diabetes leads the 2022 launches in sales followed by Genentech's Vabysmo for wet AMD and diabetic macular edema





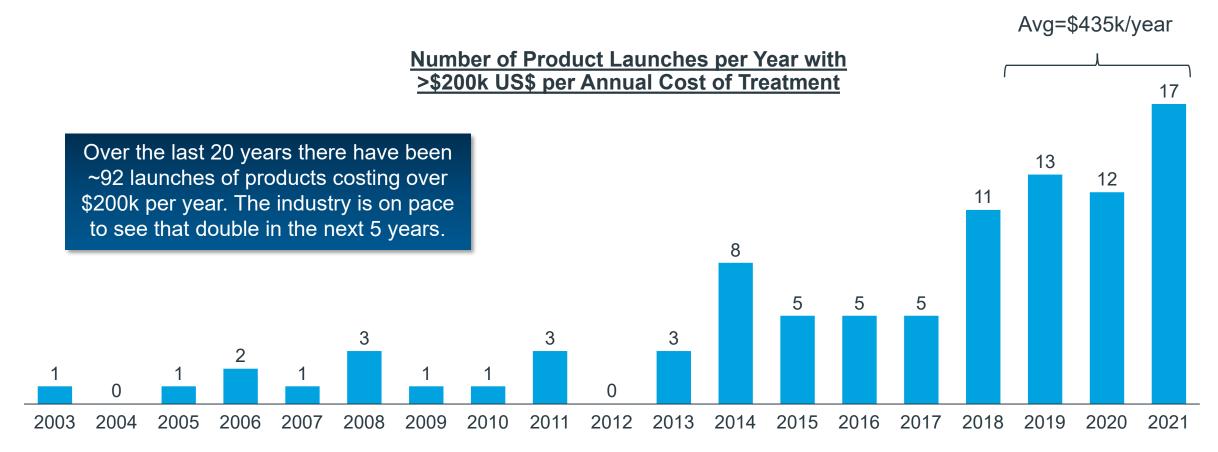
2022 – Top 10 Performers					
Product	Company	Indication	Launch	Yr 1 Sales to 11/2022	Yr 1 NBRx to 1/6/23
Mounjaro	Lilly	Diabetes	Jun-22	\$1.9B	923.6K
Vabysmo	Genentech	Wet AMD	Feb-22	\$407.2M	N/A
Opdualag	BMS	Metastatic melanoma	Mar-22	\$192.6M	N/A
Bebtelovimab	Lilly	COVID	Aug-22	\$152.5M	N/A
Vyvgart	Argenx	gMG	Jan-22	\$139.3M	N/A
Tezspire	Amgen	Severe asthma	Jan-22	\$123.1M	3.8K
Adbry	Leo Pharma	Atopic dermatitis	Feb-22	\$97.2M	4.8K
Kimmtrak	Immunocore	Uveal melanoma	Feb-22	\$78.0M	N/A
Radicava	Mitsubishi Tanabe	ALS	Jun-22	\$58.8M	1.9K
Leqvio	Novartis	Atherosclerosis	Jan-22	\$46.8M	N/A

N/A: NBRx unavailable or likely understated owing to non-retail and non-mail channel distribution



## As the frequency of high-cost treatment launches accelerates, pressure is put on the rest of the market to contain cost



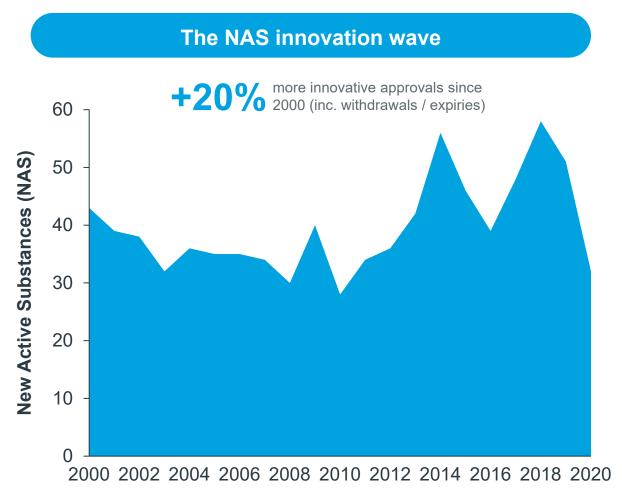


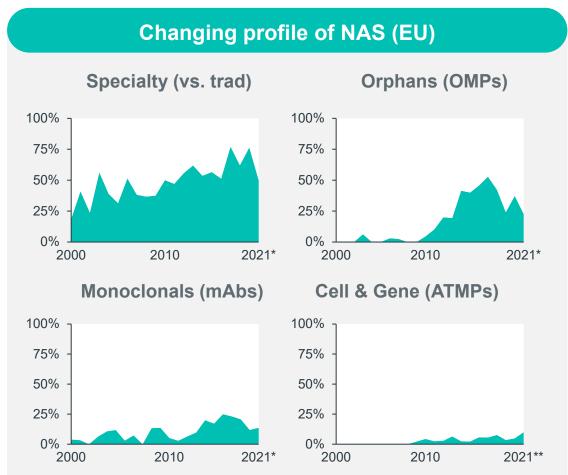
Notes: Annual costs based on invoice prices, with overall invoice-level spending divided by estimated numbers of patients. Patient estimates are based on audited volumes assuming all patients use the drug according to the approved label. Products are included in medians based on segment assignments. Oncology includes both orphan and non-orphan products. All other products which have orphan indications are grouped together and some products have both orphan and non-orphan indications in this group. Specialty and Traditional products exclude orphan or oncology products but are otherwise defined according to IQVIA definitions.



### Innovation is at an all-time high and is increasingly complex

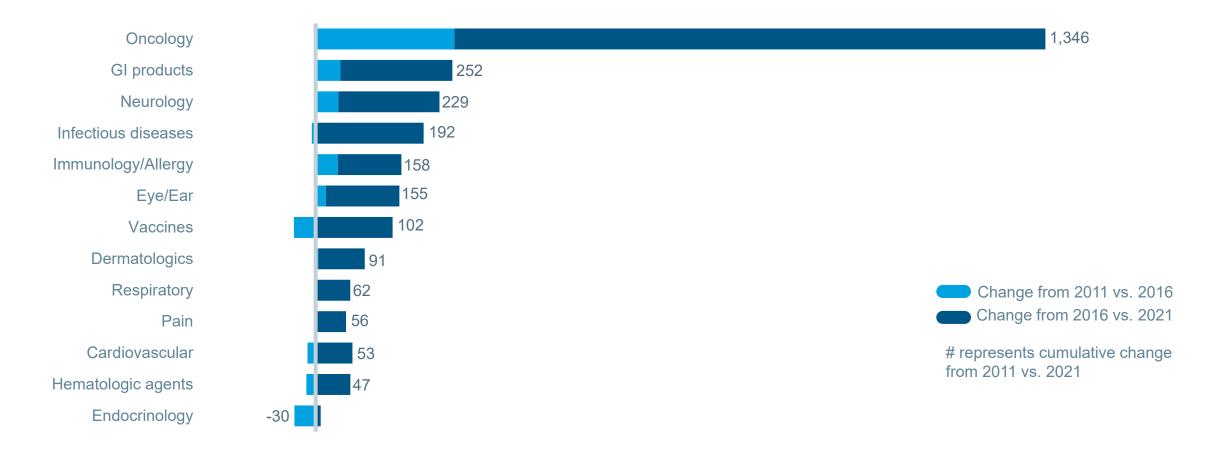
Medicines with immature data play a larger role, creating issues for all stakeholders





## The pipeline has grown across therapy areas in the last decade, with significant growth in oncology in the past 5 years

Pipeline product changes Phase I to regulatory submission in selected classes, 2011 vs. 2021







### Outlook



### Things to Remember

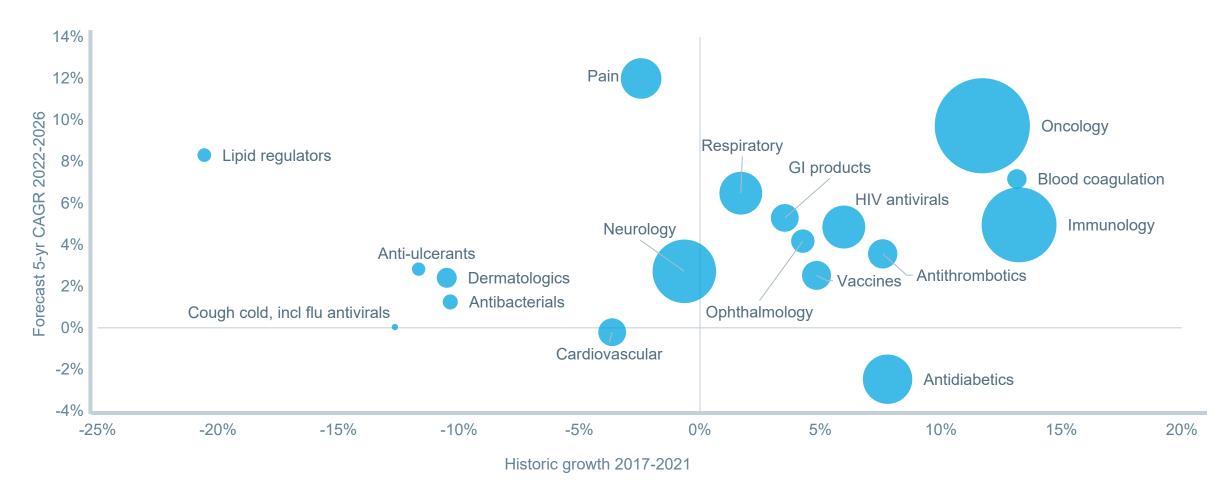
- Global COVID deaths continue to decline
- <sup>2</sup> Flu and RSV were big
- Retail Pharmacies are establishing themselves as vaccine centers
- Telehealth has settled at 7% of medical claims
- Elective procedures still have not recovered but new prescriptions have
- Generic prescriptions are growing but dollars are not due to price deflation

- Prescription opioids are about 11.4% of the overdose deaths
- B Discount Card growth has moderated
- Food stores gained the most through the pandemic while Mass Merchandisers lost
- Retail pharmacy store counts continue to decline due to mergers, acquisitions and closures
- Pharmacists see patients 10x more often than other healthcare providers
- Role of the pharmacist has expanded



## Immunology, oncology, neurology drive growth through 2026 along with COVID-19 vaccines

Historic and forecast net spending growth for leading therapy areas







## Dates to remember as CMS readies its new program for lowering drug costs

#### Now thru May 31, 2023

 CMS will comb through Medicare Part D drug expenditures and make a list of drugs that meet the criteria for negotiation

#### Oct 1, 2023

- Companies with drugs selected for negotiation must submit signed agreements to participate in the negotiation program.
- The following day those same companies must submit manufacturerspecific data to help the CMS determine the maximum fair price (MFP) for the drug.

#### Sep 1, 2024

 CMS will announce the final maximum fair price for drugs on the 2026 list

2023

#### Sep 1, 2023

 CMS will announce its list of 10 drugs targeted for negotiation in 2026

#### Feb 1, 2024

- CMS will inform companies about the maximum fair price selected for the drug
- From this point until Aug. 1, 2024, companies can either accept the price set by the CMS or submit a counteroffer and negotiate changes

2026

 These prices will go into effect

Jan 1, 2026

Source: https://tinyurl.com/5acf4d66, PharmaVoice, Drug Price Negotiations: 5 key dates to watch

### **U.S Progress Point**

https://www.iqvia.com/progresspoint



#### **Market insights**

- The IQVIA U.S. Launch Quarterly
- The IQVIA Monthly Launch Tracker
- Pharmaceutical Market and MedTech Trends
- Next Generation Payor Segmentation



#### Person-centric health

- Impact of Medicare Part D Cost Sharing
- Health Equity in the Time of COVID-19
- Advancing Outcomes with Home Healthcare

A curation of **IQVIA's best thinking** on **topics** and **trends** driving change, disruption, and **progress** in the United States healthcare market.



#### **Engagement innovation**

- HCP Consent at Scale
- Hidden Peer-to-Peer Learning Communities
- Importance of End-to-End Data in Physician Marketing



#### Thank you

#### Disclaimer:

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Doug Long is Vice President of Industry Relations at IQVIA (formerly QuintilesIMS), the world's largest pharmaceutical information company. IQVIA offers services to the pharmaceutical industry in over 100 countries around the globe. Doug has been with IQVIA since 1989.

His fundamental task is to help secure data for all existing and new databases supported by IQVIA, manage supplier, manufacturer & association relationships, and develop information for data partners. As direct consequence of his involvement in these areas, Doug has considerable experience with, and a unique perspective on, the changing U.S. and global healthcare marketplace and pharmaceutical distribution.

Doug is a frequent industry speaker and the recipient of many awards from trade groups. Before joining IQVIA Doug held positions at Nielsen Market Research for 16 years in various sales and marketing capacities. A native of Illinois, Doug received a BA from DePauw University and holds an MBA in management from Fairleigh Dickinson University.

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#### Scott Biggs, Director, Supplier Services

Scott Biggs is Director of Supplier Services at IQVIA (previously known as QuintilesIMS), the world's largest pharmaceutical information company, serving over 101 countries. He has been with IQVIA since 2011.

Prior to IQVIA Scott worked for other pharmaceutical information companies for several years and worked at Rite Aid Corporation in multiple roles for over 10 years. Scott received a BS degree from Penn State University in Accounting and has been working with pharmacy data for over 25 years.

In his role at IQVIA Scott has worked with retailers, software vendors and other data suppliers where he has helped them to understand their performance in the marketplace through business reviews and market analysis.



## APPENDIX

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96

### **IQVIA** Definition of a Specialty Drug

Specialty drugs at IQVIA are classified as products that meet the following criteria



Treats chronic, rare and/or complex diseases



Expensive (USD \$6K annual cost of therapy)



Initiated and maintained by a specialist



Unique distribution



Generally injectable and/or not self-administered



Requires extensive or in-depth monitoring/patient counseling



Products that require an additional level of care in their chain of custody



Requires reimbursement assistance



### Darzalex Faspro shows tremendous growth

#### **Specialty Non-Retail Market**

Donk	Therapy Area	Sales (\$) in Billions			
Rank		MAT JUN 2022	Market Share	ABS Growth	Growth
1	KEYTRUDA	11.2	8.9%	2.3	25.9%
2	OPDIVO	4.5	3.6%	0.6	14.5%
3	OCREVUS	4.0	3.2%	0.5	14.9%
4	ENTYVIO	3.4	2.7%	0.5	16.9%
5	VEKLURY	3.2	2.5%	0.6	21.4%
6	DARZALEX FASPRO	2.9	2.3%	1.5	112.3%
7	BIKTARVY	2.2	1.8%	0.5	27.5%
8	REMICADE	2.1	1.6%	-0.8	-27.8%
9	HUMIRA	2.0	1.6%	0.4	26.0%
10	TECENTRIQ	2.0	1.6%	0.2	10.9%
TOP 10		37.5	29.8%	6.3	20.1%

### Tremfya and Dupixent show strong growth

#### **Specialty Mail Market**

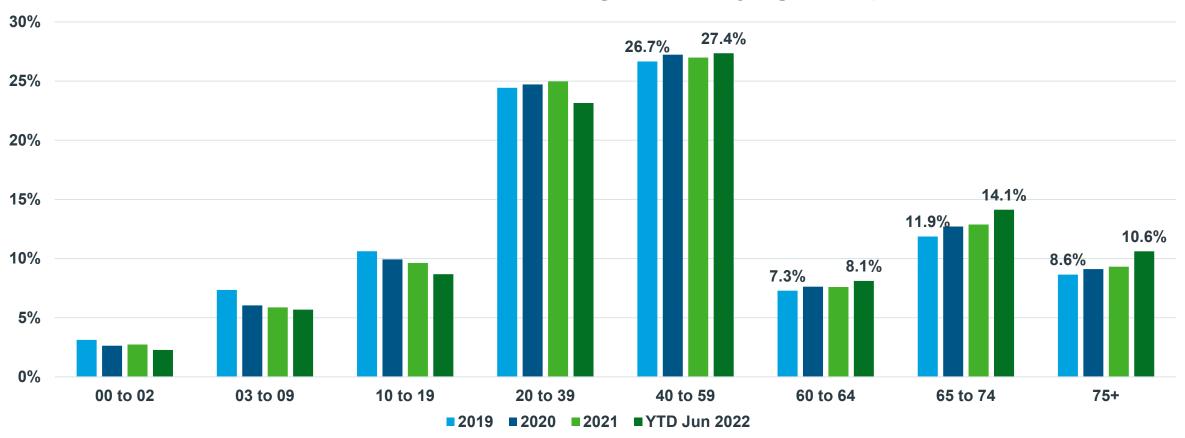
Rank	Therapy Area	Sales (\$) in Billions			
		MAT JUN 2022	Market Share	ABS Growth	Growth
1	HUMIRA	23.9	17.1%	2.8	13.4%
2	STELARA	9.6	6.8%	2.0	26.2%
3	ENBREL	6.8	4.8%	0.4	7.0%
4	DUPIXENT	5.6	4.0%	1.8	45.3%
5	TALTZ	4.0	2.8%	0.9	31.1%
6	COSENTYX 2 PEN	3.4	2.4%	0.2	7.8%
7	SKYRIZI	3.1	2.2%	1.3	75.9%
8	TREMFYA	3.1	2.2%	1.2	66.1%
9	OTEZLA	2.8	2.0%	0.3	11.8%
10	IMBRUVICA	2.6	1.8%	0.0	0.7%
<b>TOP 10</b>		64.6	46.3%	11.0	20.6%



### **Patients & Adherence**

### For 40 and above, percent of Rx's is increasing





#### Adherence declines as IQVIA's Risk Score increases

Diabetes Adherence by Number of Risk Score – Med D Rx's Only July 2021 – June 2022



Source: IQVIA, Longitudinal Patient Data, MAT June 2022

## Patient behavior for Adherence in STAR therapy requires an understanding of socio-demographic characteristics risk factors

Applying IQVIA's knowledge of risk factors (identified through Census Data) to standard adherence performance metrics reveals insights to those patients at greatest risk

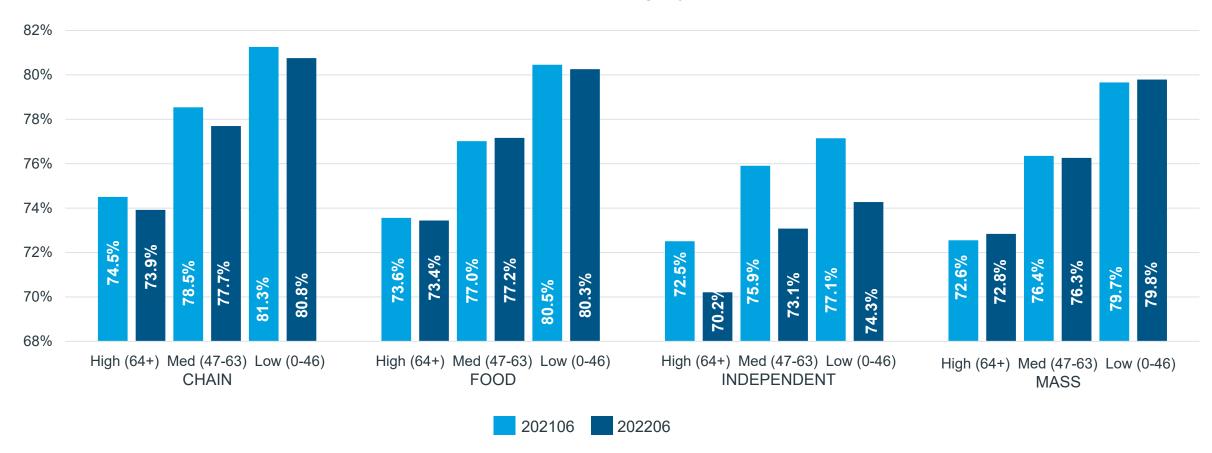
Risk Factor Dimension	Socio-Demographic Risk factors (sample)	Contribution to Risk Score*
Unmet needs groups	Proportion of population with disability, elderly, children	Low
Cost of medication / affordability	Uninsured, type of coverage	Mid
Cultural and Literacy Elements	Ancestry, highest education level, internet access	High
Food Security and Income	Unemployed, occupation, income	High
Housing	Year built, occupied units, renters	Low
Social Isolation	Recently moved, single parents, living alone	Mid
Transportation	Access to a car, drives alone, no-vehicle households	Mid

<sup>\*</sup> Risk Scores are assigned to patients by ZIP code, these are based on all socio-demographic variables analyzed. 0 = No risk identified, 100 = Maximum risk for Adherence identified.



# Med D Diabetes adherence decreased year-over-year for Chain (slightly) and Independents (significantly) and stayed flat for Food and Mass across most risk categories



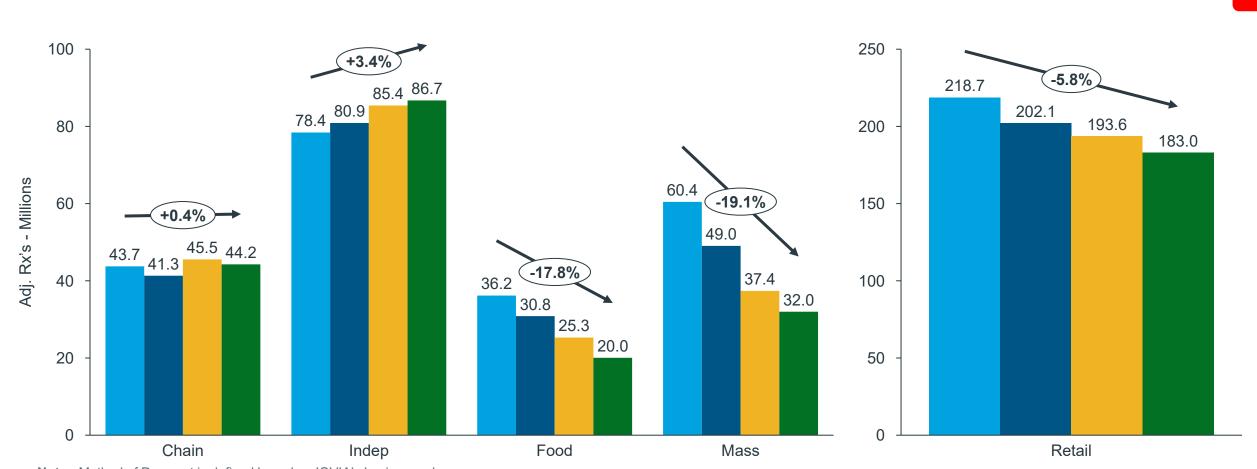


Source: IQVIA, Longitudinal Patient Data, MAT June 2022

## Independents are the only class of trade with positive CAGR for Cash

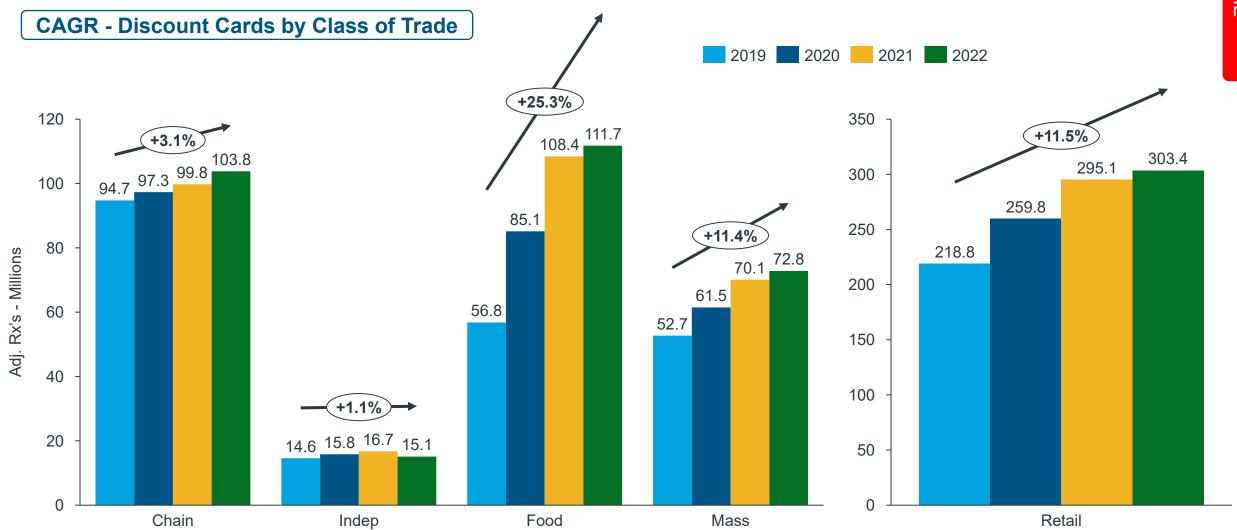
2020 2021

**CAGR – Cash by Class of Trade** 



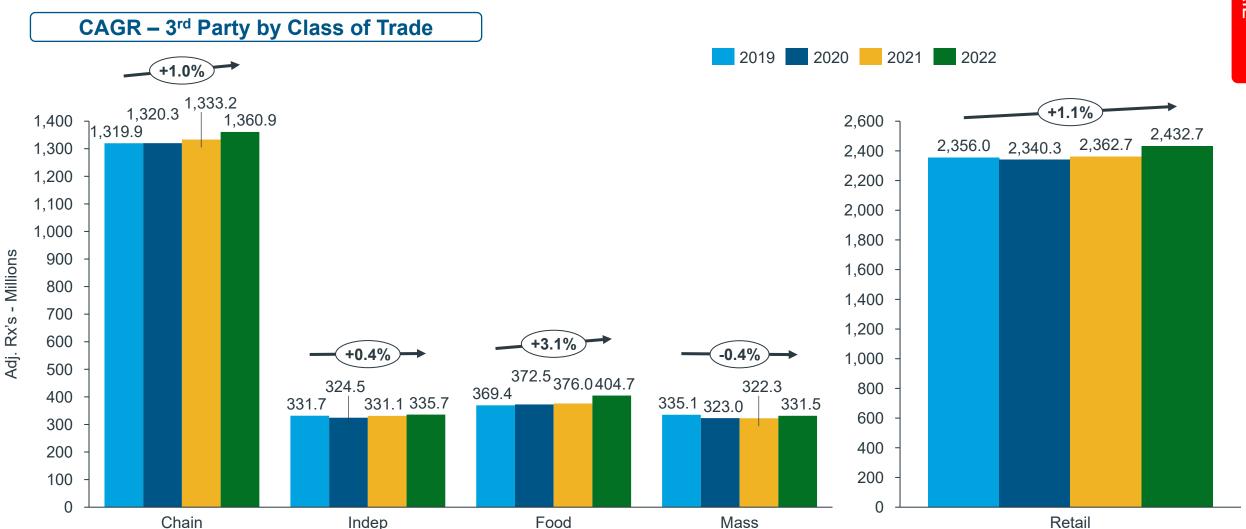
 $\underline{\textbf{Note:}}$  Method of Payment is defined based on IQVIA's business rules

## Food has the largest volume of Discount Cards with a 25.3% CAGR while the overall Retail CAGR is 11.5%



**Note:** Method of Payment is defined based on IQVIA's business rules

### Food shows the highest CAGR with 3<sup>rd</sup> Party

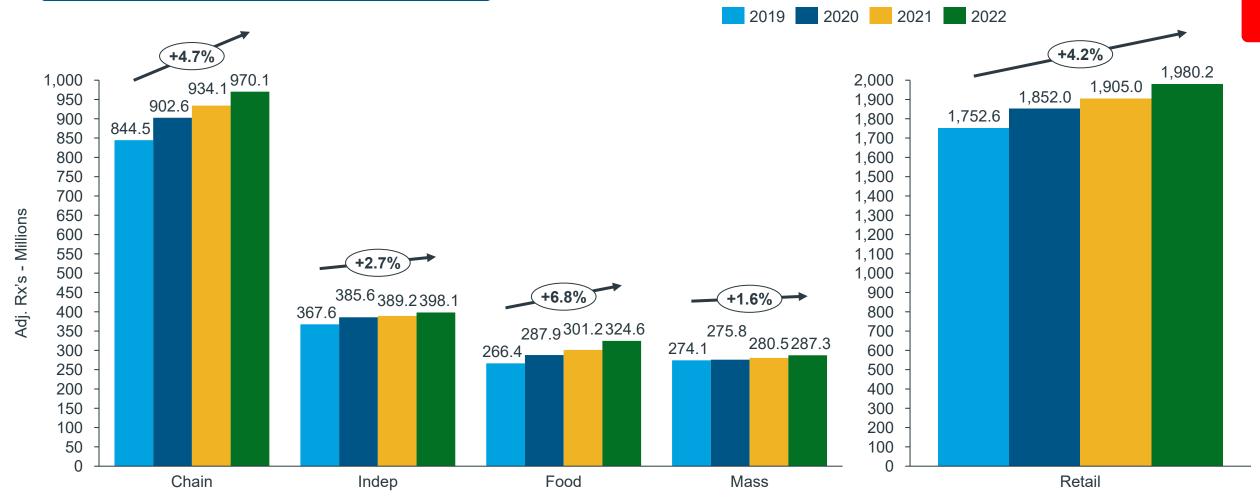


 $\underline{\textbf{Note:}}$  Method of Payment is defined based on IQVIA's business rules



### Food has the highest CAGR for Med D followed by Chain

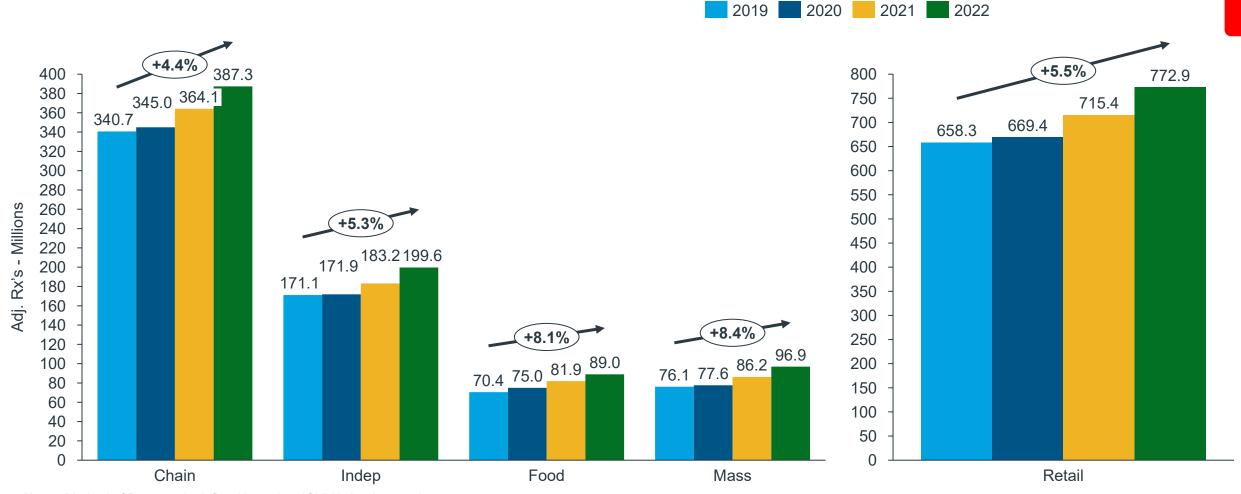
**CAGR – Med D by Class of Trade** 



 ${\underline{\hbox{\bf Note:}}}$  Method of Payment is defined based on IQVIA's business rules

## Mass and Food have the highest CAGR with Medicaid while Chain has the highest volume gains

**CAGR – Medicaid by Class of Trade** 



**Note:** Method of Payment is defined based on IQVIA's business rules