US Drug Distribution

Distributors play a crucial role in the drug supply chain and improve patient access to healthcare.

Morningstar Equity Research

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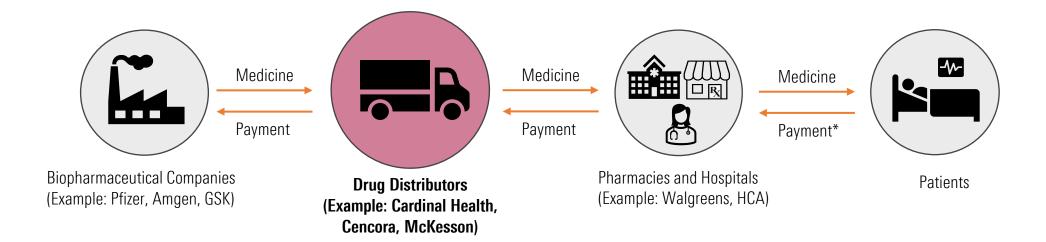
Executive Summary

Three main players dominate the US drug supply chain.

Industry Map

Drug distributors purchase pharmaceuticals from biopharma firms, store them, and safely deliver them to pharmacies, physician offices, clinics, and hospitals. Since distributors purchase and take ownership of pharmaceuticals, they allow manufacturers and healthcare providers to focus on their core competencies. Through scale-driven efficiencies, distributors can increase productivity in the drug supply chain and reduce capital and operating expenses, which can lower overall healthcare spending.

Pharmaceutical Supply Chain in the US

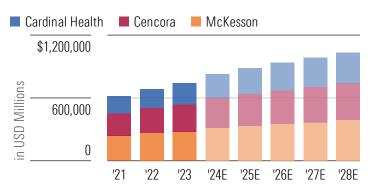


Source: Morningstar.

*Inclusion of pharmacy benefit managers makes this illustration more complex.

Key Industry Themes

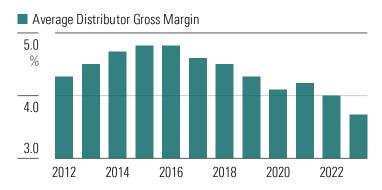
Covid-19 Contributions Ease, but GLP-1s Drive Growth



Source: Morningstar, company filings.

As the US phases out of the covid pandemic and utilization rates for updated vaccines remain soft, contributions from kitting, tests, and vaccines are diminishing. However, sales in recent quarters have shown impressive double-digit year-over-year growth thanks to significant tailwinds from GLP-1s (diabetes and weight-loss drugs). We estimate that about one fourth of the big three distributors' growth in the past 12 months was from GLP-1s. We expect continued strong tailwinds from these drugs in the near and medium term.

Drug Pricing Dynamics Weigh Down Margins



Source: Morningstar, company filings.

While distributors' sales overwhelmingly come from branded drugs, their margins are heavily driven by generic drugs. Since 2015, the decline in generic drug prices has weighed down distributors' margins. The growth of branded and specialty therapies, which both have lower margins than generics, has also played a part in margin compression. While distributors benefited from highmargin covid vaccines in 2021, these contributions started to ease in 2022 and margin shrinkage continued.

Investments in Specialty Assets Bolster Offerings

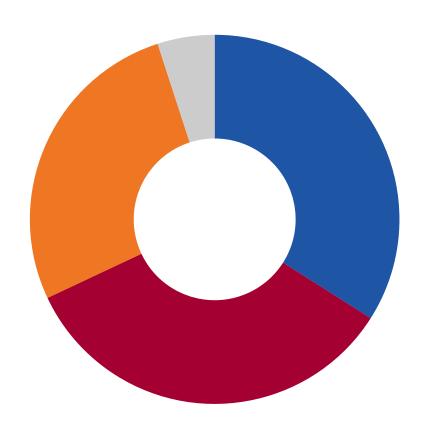


Source: Morningstar.

To combat margin headwinds from generic drug price erosion and growing expenditures on branded drugs, the big three distributors have invested in their specialty assets to offer higher-margin services to manufacturers, pharmacies, clinics, and hospitals. These investments are usually in oncology and other specialty therapeutic areas. The vertical integration of distribution and services positions the big three as not only distributors but also data, business strategy, and insights providers.

Market Share Concentration

Key Industry Players and Market Share by Sales





Nearly all prescription drugs in the US are delivered through drug distributors. The three main players we cover — Cardinal Health, Cencora, and McKesson — have 95% of the overall US drug distribution market, effectively acting as an oligopoly.

The remaining market is managed by smaller distributors that supply independent retail and nonretail customers. The Healthcare Distribution Alliance, a national organization that represents pharmaceutical distributors, has 37 members including Cardinal Health, Cencora, and McKesson, so we estimate that 34 distributors control a majority of the other 5% of the market.

We have not seen any major acquisitions of a competitor by the big three distributors over the last five years, so we do not expect any material market share shift in the near term.

Source: Morningstar, company filings.

Industry Value Drivers

Simplified Financial Statement: McKesson (Fiscal 2023)

Pro Forma Income Statement (\$ Millions)

	FY 2023	% of Sales
Revenue	276,711	
Cost of Goods Sold 2	264,353	95.5%
Gross Profit	12,358	
Selling, Distribution, General and Administrative Costs 3	7,776	2.8%
Operating Income (excl. Charges)	4,582	
Restructuring Related Charges	209	
Claims and Litigation Charges	(8)	
Interest Expense	248	
Other Expense/(Income)	(497)	
Pretax Income	4,630	
Income Tax Expense 4	905	19.5% Tax Rate
Noncontrolling Interest	165	
Net Income	3,560	
Adjustments 5	129	
Adjusted Net Income	3,689	
Discounted Cash Flow (DCF)		
Operating Income	4,582	
Amortization and Other	360	
Earnings Before Interest	4,942	
Depreciation	248	
(Capital Expenditures)	(558)	
(Net Change in Investmets and Other)	(1,795)	
(Net Acquisitions)/Divestments 6	210	
Net New Investment (NNI)	(1,895)	
Free Cash Flow to the Firm (FCFF)	3,047	

Key Income Statement Metrics (Big Three Distributors' Fiscal 2023 Average in Italics)

- [1] Revenue: Drug distributors sell pharmaceuticals, over-the-counter medications, hospital supplies, and surgery instruments to pharmacies, hospitals, and clinics.
- [2] Cost of Goods Sold (96% of sales): Upon getting paid by customers, drug distributors pay manufacturers, net of volume discounts, stocking allowances, and other rebates.
- [3] SDG&A (2% of sales): Large distributors are extremely efficient and can drive down packing, handling, delivery, and personnel costs.
- [4] Tax Rate (30% of operating income): The global tax rate typically benefits from patent placements in low-tax-rate countries.
- [5] Adjustments: Most firms exclude acquisition-related amortization, settlement charges, and restructuring and related charges.
- [6] Acquisitions: Many distributors make acquisitions to bolster their offerings to pharmacies, manufacturers, and healthcare providers.

Source: Morningstar, company filings.

Coverage List and Ratings

Morningstar covers three companies in the US drug distribution industry across mid- and large market capitalizations.

US Drug Distributors Under Our Coverage

Company (Ticker)	Market Cap (Billions)	Moat Rating	Uncertainty Rating	Last Close	Fair Value Estimate	Star Rating	P/FVE	EV/EBITDA	Dividend Yield	1-Year Return
Cardinal Health (CAH)	27 USD	Narrow	Medium	110 USD	93 USD	**	1.18	20.5x	1.9%	44.3%
Cencora (COR)	48 USD	Narrow	Medium	243 USD	183 USD	**	1.33	13.0x	1.0%	49.3%
McKesson (MCK)	71 USD	Narrow	Medium	541 USD	410 USD	**	1.32	13.2x	0.5%	46.5%

Source: Morningstar and PitchBook. Data as of April 5, 2024.

Economic Moat

Switching costs uphold drug distributors' moats.

ECONOMIC MOAT

Summary of Moat Ratings and Sources

US Drug Distributors' Moat Distribution

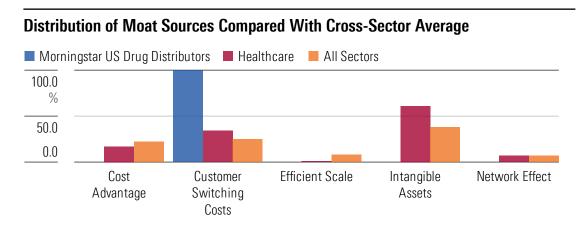
All three US drug distributors in our coverage boast narrow economic moats. We think Cardinal Health, Cencora, and McKesson all are well positioned to enjoy solid returns on invested capital above their weighted average cost of capital over the next 10 years and are highly unlikely to face any material competitive pressures from the market or regulatory actions that could inhibit their ability to generate excess returns. While other players in the drug supply chain, including manufacturers and pharmacy benefit managers, have been in the spotlight for regulatory overhauls, we think drug distributors are somewhat safeguarded from this.

Distribution of Moat Ratings Compared With Cross-Sector Average Morningstar US Drug Distributors Healthcare All Sectors 100.0 % None Narrow Wide

Source: Morningstar.

US Drug Distributors' Moat Source Distribution

While intangible assets is the main source among companies with moats in our coverage universe, customer switching costs is the sole moat source for Cardinal Health, Cencora, and McKesson. We think the deep relationships that the big three distributors have established over years of partnership with their customers are unlikely to materially deteriorate over the next decade. We think these relationships are augmented by generic sourcing joint ventures formed between the distributors and their partnering retailers — Red Oak Sourcing, Walgreens Boots Alliance Development, and ClarusONE, respectively — that help drive generic purchasing power for distributors.

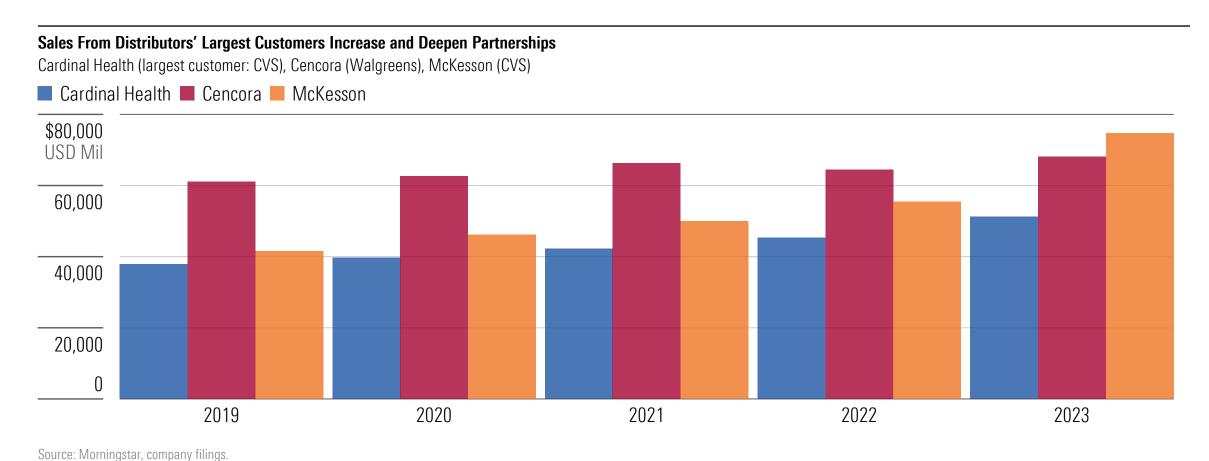


Source: Morningstar.

ECONOMIC MOAT

Increasing Sales From Key Customers Makes Distributors and Retailers Codependent

Key customers play an increasingly large role for their distributors as the portion of sales coming from them increases. On average, the top customer (CVS for both Cardinal Health and McKesson, Walgreens for Cencora) makes up over one fourth of its distributor's total sales. We think an ever-increasing level of dependence between customers and their distributors deepens their relationships and substantiates switching costs.



See Important Disclosures at the end of this report.

Source: Morningstar.

Generic Sourcing Joint Ventures Deepen Partnerships and Make Relationships Stickier

Joint Ventures Combine Purchasing Power of Two Large Entities and Secure Lower Prices for Generics Distributor's experience and relationship with drug manufacturers Combined **ClarusONE** Sourcing purchasing power Walgreens Boots Alliance Retailer's substantial scale, footprint, and wide reach to patients

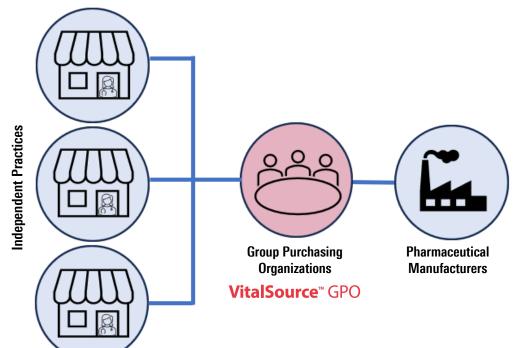
The big three distributors have formed generic drug sourcing joint ventures with major retailer partners to combine the buying volume of both parties. Cardinal Health and Cencora tapped their top customers—CVS and Walgreens, respectively—and McKesson partnered with Walmart. These joint ventures have significantly higher purchasing power than lone wholesalers or retailers, allowing them to secure lower prices for generic drugs. Furthermore, these long-standing joint ventures secure key customers for distributors for the foreseeable future and ensure appropriate inventory levels for retailers.

We think the formation of these purchasing consortiums deepens partnerships and amplifies switching costs between distributors and retailers. Given that generics make up roughly 90% of all prescribed drugs in the US, we think the financial incentive is too great for either party to unravel the joint venture. We also believe the intensive business integration and distribution chain set up between the distributor and retailer inhibits separation, since the operational disruption in finding a new partner can be extensive and costly.

Switching Costs Also Stem From Smaller Customers

Group Purchasing Organizations Reduce Purchasing Costs for Physician Practices

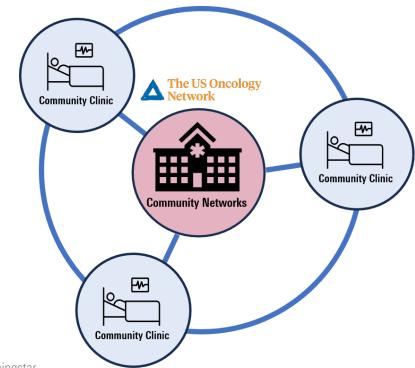
Example: Cardinal Health's VitalSource GPO



Source: Morningstar.

Community Networks Provide Valuable Support to Community Clinics

Example: McKesson's US Oncology



Source: Morningstar

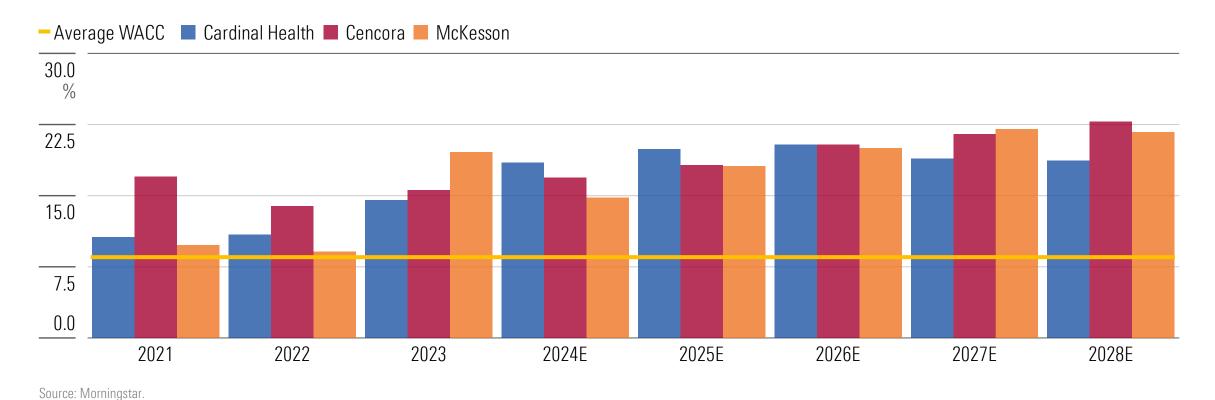
Drug distributors serve a wide base of customers. Although distributors don't have the same level of relationship with smaller and more community-based customers as they do with large retailers, they can still attain moderate switching costs through services like group purchasing organization support or community networks. By offering contract negotiation support, revenue-management services, and data and analytics insights, distributors can deepen relationships with their smaller customers.

ECONOMIC MOAT

Distributors Well Positioned to Outearn Cost of Capital Over the Next Decade

All three distributors have delivered returns on invested capital over their weighted average cost of capital over the past decade, and we expect this trend to continue for at least the next 10 years. While potential regulatory changes and market dynamic shifts in the overall drug supply chain keep us from awarding these three companies wide moat ratings, we think deep switching costs between distributors and their customers afford them narrow moats.





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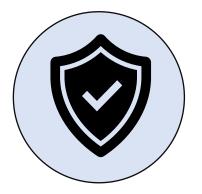
Industry Basics

Distributors play a key role in the drug supply chain by ensuring safe and timely delivery.

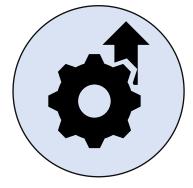
Drug Distributors Do More Than Move Pharmaceuticals From A to B

While the main responsibility of a drug distributor is delivering medicine from a manufacturer to a customer, there is more that distributors do for the overall drug supply chain. Distributors ensure the safety of drugs through proper storage and delivery methods, save money and time for manufacturers and customers, offer extra services to pharmacies and healthcare providers, and simplify and bring efficiency to the overall drug supply chain.

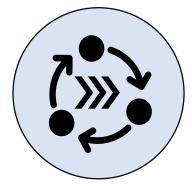
Role of Drug Distributors Spans Wide and Secures a Consistent Flow of Goods



Ensure safe delivery of pharmaceuticals



Drive efficiencies of external parties



Simplify drug supply chain



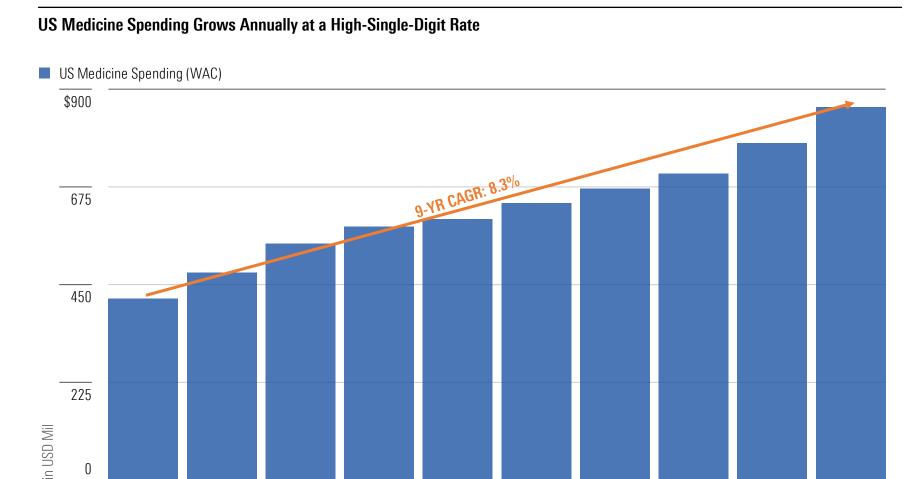
Save money and time for patients



Offer extra services to suppliers/customers

Source: Morningstar, Food and Drug Administration.

Prescription Spending Grows Due to Aging Population and Increasing Access to Healthcare



While the US represents less than 5% of the global population, it accounts for over a third of the global prescription drug market. US spending on medicines has grown consistently year over year as a result of increasing drug utilization rates, rising drug prices, and new treatment launches. We think an aging population and increasing access to healthcare play a pivotal role in increasing drug utilization.

Distributors directly benefit from growing medicine spending because their sales are largely driven by payments from pharmacies, hospitals, and clinics that administer medicines to patients.

Consequently, the big three distributors have grown their sales at a similar rate as the growth of US medicine spending over the same time frame.

Source: IQVIA. WAC = wholesale acquisition costs.

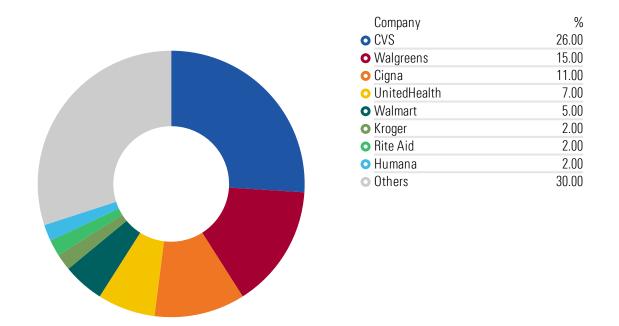
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Distributors Have a Wide Base of Customers, and Their Relationships Are Crucial

The big three distributors serve a varied set of customers, including hospitals, clinics, and long-term-care facilities, but retail, mail, and specialty pharmacies are the largest type of customers they serve. Distributors have had longstanding partnerships with key customers—CVS' partnerships with McKesson and Cardinal Health span over 20 years, and Walgreens' partnership with Cencora spans over 10 years. This helps deepen their relationships and secures a big customer for the near term.

Largest US Pharmacies by Prescription Revenue Market Share (2023)



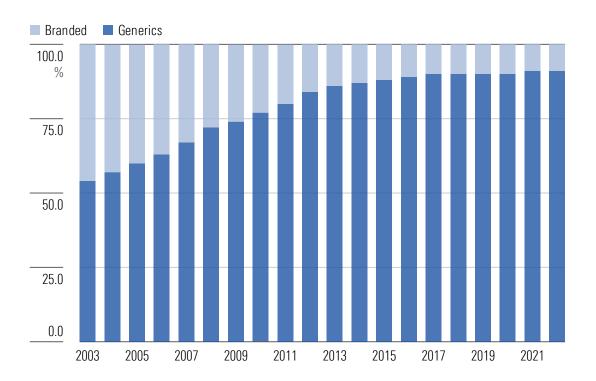
Select Key Customers and Their Distribution Partners

Company	Distributor	Agreement Expiry Date
CVS (Mail and Specialty)	McKesson	2027
CVS (Retail)	Cardinal Health	2027
Walgreens Boots Alliance	Cencora	2029
Cigna	Cencora	2026
UnitedHealth Group	Cardinal Health	2024
Walmart	McKesson	Not Disclosed
Kroger	Cardinal Health	Not Disclosed
Rite Aid	McKesson	2029
Humana	Cencora	Not Disclosed
Alberstons	McKesson	Not Disclosed

Source: Drug Channels Institute. Source: Morningstar.

Generic Drugs Dominate US Prescriptions by Volume but Lag in Spending

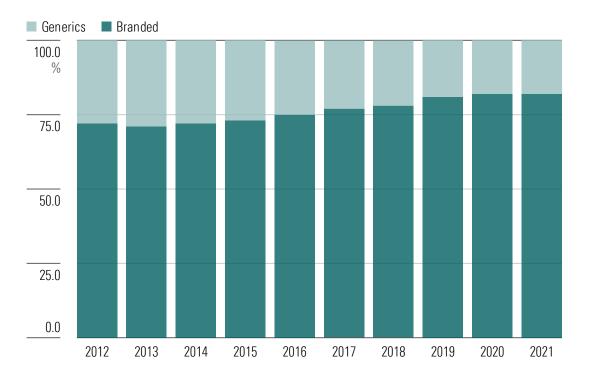
Generic Drugs Make Up 9 Out of 10 Prescriptions Filled in the US



Source: Drug Channels Institute, Food and Drug Administration.

While less than half of prescriptions filled in the US were for generic drugs at the beginning of the century, that number has jumped to over 90% in recent years thanks to efforts from the Food and Drug Administration and manufacturers.

...But Make Up Less Than 20% of Total Medicine Spending



Source: KPMG.

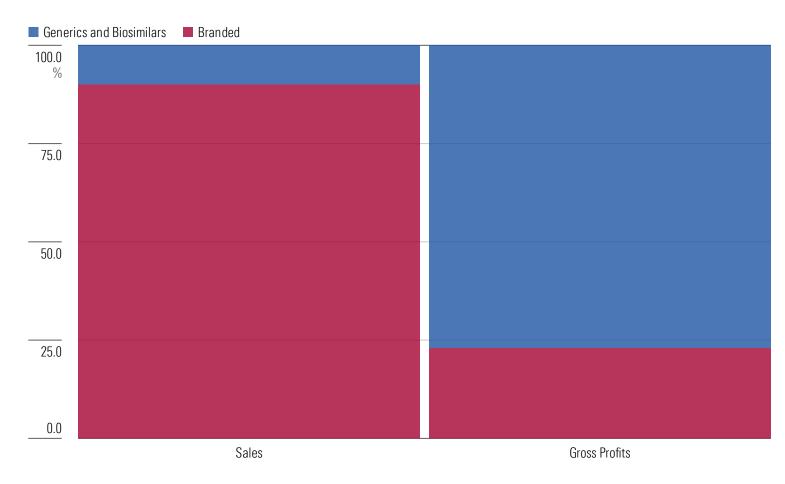
Despite an increasing portion of prescriptions being filled by generics, the portion of total medicine spending in the US on branded drugs has increased. We think this is due to a combination of price erosion in generics and price inflation in branded drugs.

Generic Drugs Play a Vital Role in Margins for Distributors

Despite making up over 90% of filled prescriptions, generic drugs and biosimilars (bioequivalent drugs of biologics) account for less than 20% of sales for distributors. This is due to their significantly lower costs compared with branded counterparts.

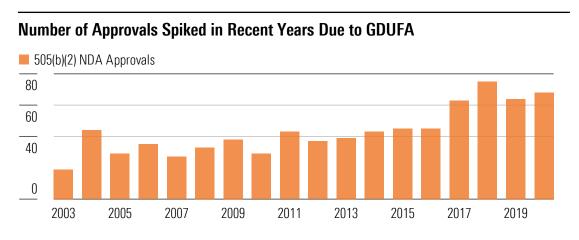
However, generics and biosimilars remain vital for distributors since they account for most of the firms' margins. Unlike the branded drug market, in which distributors have a single manufacturer for a specific branded drug and are price-takers, the generic drug market has several manufacturers all supplying essentially identical products, and they must compete to win distribution contracts, which allows distributors to be price-setters. Because of this, distributors can earn a significantly higher gross margin on generic drugs compared with branded drugs; S&P Global estimates that distributors make 11 times as much on generic drugs as they do on branded drugs. Since gross profits earned on generic drugs are somewhat tied to their list prices, declining prices — while they might not affect the top line due to inflating branded drug prices — have had a considerable impact on distributors' margins.

Branded Drugs Drive Sales, but Generics and Biosimilars Drive Gross Profits



Source: Morningstar, Drug Channels Institute, Healthcare Distribution Alliance.

Increased Number of Approvals and High Utilization Rates Led to Declining Generics Prices



Source: Premier Consulting.

While generic drugs have been prevalent in the US since the early 20th century, they experienced significant growth when Congress enacted the Generic Drug User Fee Amendments (the first one passed in 2012, the second in 2017, and the latest in 2022). This allowed the Food and Drug Administration to collect fees from abbreviated new drug applications, via which US generic applicants can expedite the approval process. The fees (the ANDA fee rate for 2023 was around \$240,000) are not meaningful enough to sway big generic manufacturers. They also provide additional revenue streams and financial support to the FDA, allowing applications to be approved more quickly and efficiently.

Average Generics Price Through Medicare/Medicaid Falls



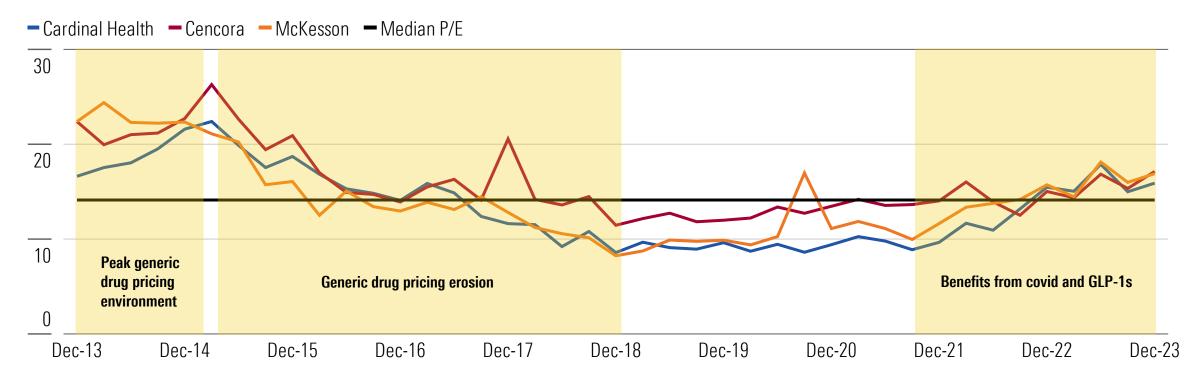
Source: Congressional Budget Office.

As generic drug utilization trended up and more ANDAs were approved, we saw more generic drugs enter the market. But since a large number of manufacturers are all fighting for a fixed set of customers with essentially identical products, a simple function of supply and demand kicks in and results in falling prices for generic drugs. Additionally, the interchangeability between generics has facilitated the establishment of generic formularies, in which wholesalers can use their purchasing scale to negotiate deeper concessions for placement in the generic sourcing joint ventures that they formed with their partner retailers. In recent years, price erosion for generics has stabilized to a low- to mid-single-digit annual decrease.

Falling Generic Prices Weighed Down Margins and Overall Distributor Valuations

While Morningstar uses discounted cash flows to determine fair value estimates, price/earnings metrics provide some historical valuation perspective. As distributors' margins got squeezed from falling generic prices and an increasing portion of sales going to their largest customers (which can negotiate larger discounts compared with smaller pharmacies), we saw their valuations drop accordingly. Valuations have rebounded in recent quarters, and the big three distributors now trade above their 10-year median P/E.

After Years of Trading Below 10-Year Median P/E, Distributors Now Trade at a Slight Premium



Source: Morningstar, PitchBook.

Distributors Partner With Major Customers to Boost Purchasing Power

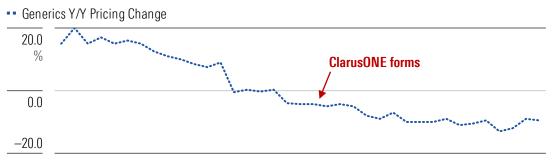
Big Three Distributors and Their Partners Purchased 80% of Generics in 2022



Source: Drug Channels Institute.

In an environment of decreasing generic drug prices and margin headwinds, the big three distributors have partnered with their major customers to boost their purchasing power. Red Oak Sourcing (Cardinal Health and CVS, formed in 2014), Walgreens Boots Alliance Development (Cencora and Walgreens, 2012), and ClarusONE (McKesson and Walmart, 2016) are generic sourcing joint ventures that combine the buying volume of major players in the industry. By doing so, they can negotiate higher discounts from generic drug manufacturers, which can help distributors capture higher profits. Distributors' partners are motivated to maintain their joint ventures because they can benefit from reduced costs if distributors share some savings with them. The three generic sourcing giants purchase roughly 80% of all generics sold in the US, but by value, they capture over 90%.

Generic Sourcing Consortiums Contributed to Generics Price Erosion



Oct-14 Jan-15 Apr-15 Jul-15 Oct-15 Jan-16 Apr-16 Jul-16 Oct-16 Jan-17 Apr-17 Jul-17 Oct-17

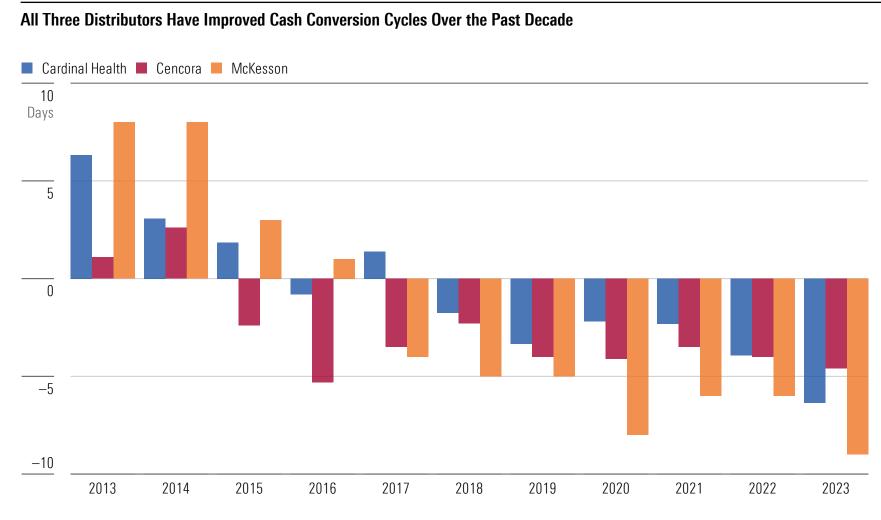
Source: Nephron Research. Red Oak Sourcing and WBAD formed before October 2014.

As the three main generic sourcing consortiums continue to make up a larger portion of the market, they also contribute to generic price erosion. While the pricing trend for injectable generics has been not as drastic as the graph to the left, oral solids, which account for the majority of sourced generics by wholesalers, have trended worse than the overall market. While price erosion in recent quarters has recovered and stabilized in the low to mid-single digits, we don't anticipate a scenario in our five-year model forecast period where the trend fully reverses. We see instances of prices for certain generic drugs dropping to a point where they generate little to no profit for manufacturers, which has caused shortages, but we do not expect any serious regulatory actions to remedy the situation in the near future.

Cash Conversion Cycle Benefits From Increased Generic Dispensing Rates

The cash conversion cycle (receivable days + inventory days - payable days) measures how quickly firms convert inventory into cash. While this metric varies widely among industries, a low or negative cash conversion cycle usually indicates effective inventory and working capital management.

For drug distributors, a negative conversion cycle means they receive and sell drugs before they need to pay manufacturers. This can have a positive impact on their cash flows. Over the past decade, distributors have improved their conversion cycles mainly by lengthening payable days. We think increasing generic drug utilization benefits this because distributors have more negotiation leverage with generic manufacturers than branded manufacturers, which allows them to pay back more slowly.

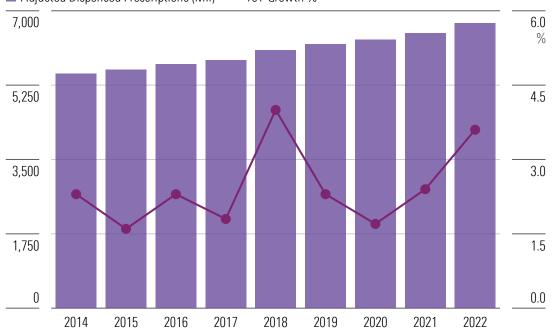


Source: Morningstar, company filings.

Prescription Volume and Branded Drug Prices Continue to Grow Year Over Year

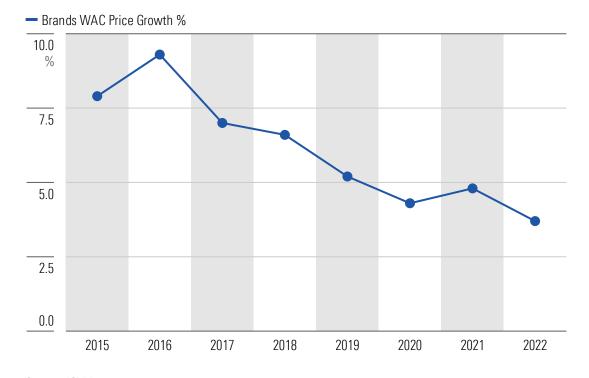
We see a similar trend for the branded side of the equation as for the generic side. Drug distributors' top lines enjoy tailwinds when list prices for drugs rise; this has been the case year over year for the past decade. While the slowdown in list price hikes in recent years could temper growth for distributors, we think this will be offset by the growth in prescription volume driven by an aging population, new available treatment options, and increasing access to healthcare.

Prescription Volume Consistently Grows by Low Single Digits Adjusted Dispensed Prescriptions (Mil) — YoY Growth %



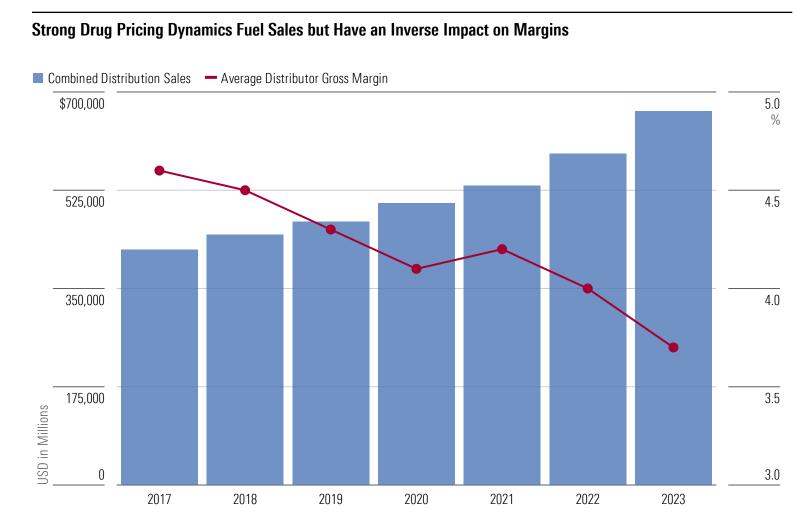
Source: IQVIA. Prescriptions are adjusted for length.

Wholesale Acquisition Cost Growth Has Slowed Recently but Is Still Rising



Source: IQVIA.

Rising Branded Drug Prices Boost Sales but Hurt Margins

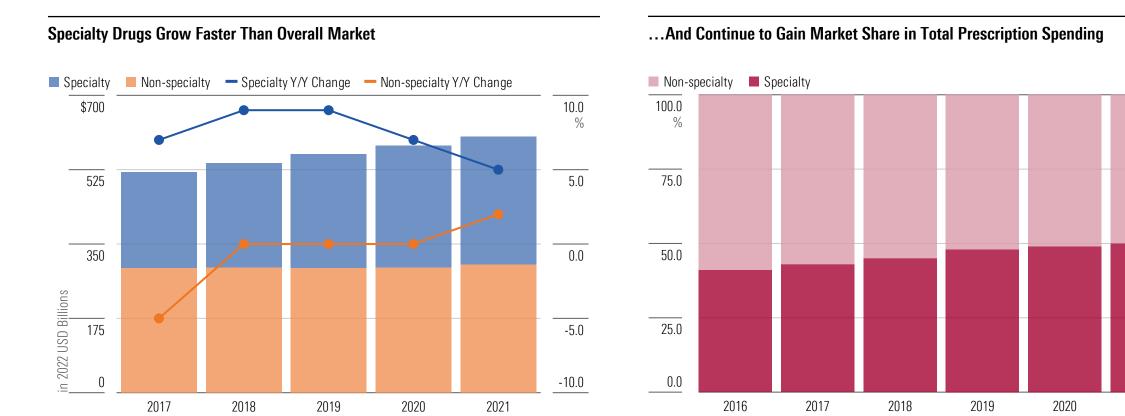


Unlike their generic counterparts, branded drugs have seen their list prices increase year over year as manufacturers work to offset rebate pressures from pharmacy benefit managers. Since branded drug prices are directly tied to distributors' top lines, this price inflation has helped drive sales growth.

This has had an inverse impact on margins. Profit per prescription for branded drugs that distributors receive used to be closely tied to prices, so an increasing branded drug price somewhat protected distributors' margins. But now all three distributors see very minimal gross profit impact from rising prices because most branded drug buy-side dollars are fee for service. This means that despite an increase in drug prices, the fees that distributors receive largely remain the same. This dynamic compresses distributors' margins. We have seen this at play over the past several years with no signs of the trend reversing. If branded drug prices keep rising and generic drug prices keep falling, distributors will continue to face margin headwinds.

Source: Morningstar, company filings.

Specialty Drugs Make Up More Than Half of US Prescription Drug Expenditures



Source: Assistant Secretary for Planning and Evaluation.

Source: Assistant Secretary for Planning and Evaluation.

2021

Specialty drugs (drugs for rare or complex health conditions) make up a low-single-digit percentage of overall US prescription volume but represent over half of total drug spending. This is caused by significantly higher price tags that specialty drugs carry compared with branded and generic drugs. Specialty drugs are also growing much faster than their generic and branded counterparts and have made up most of the total pharmaceutical expenditure growth in recent years.

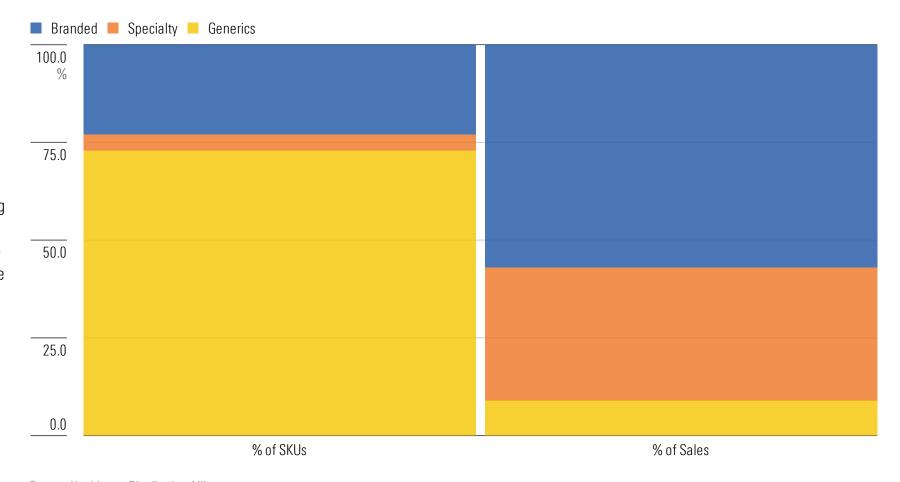
Specialty Drugs Have an Outsize Impact on Distributors Compared With Other Drug Types

Like branded drugs, specialty drugs have an outsize impact on drug expenditures and distributors' sales due to their high price tags. But distributors also see margin pressures from specialty drug distribution since their profits are narrowly tied to price and largely driven by fee for service.

Specialty distributors serve a wide network of healthcare providers, including independent physicians, hospitals, pharmacies, and homecare providers. We believe this offers opportunities to provide additional high-margin services.

Distributors can unlock better economics from customers by offering services like third-party logistics, consulting, claims collection, and inventory management. We have seen the big three distributors expand their presence in this space in recent years.

Specialty Drugs Make Up Less Than 5% of Stock-Keeping Units but More Than a Third of Sales for Distributors

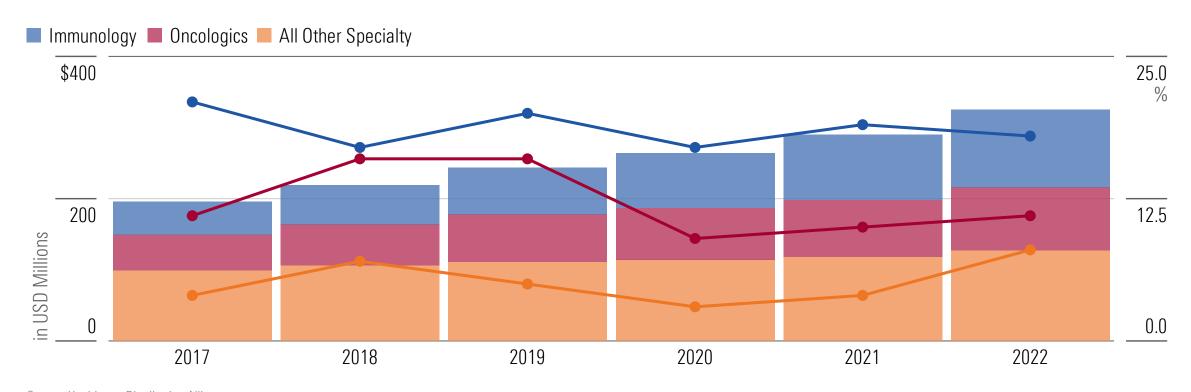


Source: Healthcare Distribution Alliance.

Immunology and Oncology Remain the Biggest Specialty Opportunities for Distributors

Spending on immunology and oncology collectively made up less than half of the specialty market in 2017 but is now over 60%. Both therapeutic areas have delivered faster growth over the last five years compared with the overall market, and we think this trend is likely to continue. New treatment launches should spur growth, and emerging biosimilars can offset some losses from key biologics going off patent. We believe this is a catalyst for the big three distributors focusing on these two therapeutic areas for recent investments.

Immunology and Oncology Grow Faster Than Overall Specialty Market



Source: Healthcare Distribution Alliance.

Distributors Have Bundled Services for Customers, Which Helps With Switching Costs

Distributors have acquired assets or organically invested to create vertically integrated specialty pharmaceutical businesses. The big three distributors own both specialty distribution businesses and group purchasing organizations. This is a significant barrier for healthcare providers that want to purchase specialty drugs directly from manufacturers because they will not have the purchasing power to negotiate similar discounts as GPOs.

By acting as both a distributor and a GPO service provider, distributors have a close relationship with customers, which can help when offering additional services. Businesses like data insights, revenue cycle management, and reimbursement strategy support are higher-margin and offer opportunities for distributors to deepen relationships.

Each of the Big Three Distributors Has Unique Assets for Clinics, Hospitals, and Patients

	Cardinal Health	Cencora	McKesson
Specialty Distribution	Cardinal Health Specialty Pharmaceutical Distribution, Metro Medical Distribution	AmerisourceBergen Specialty Distribution, Besse Medical, Oncology Supply	McKesson Specialty Distribution
Specialty GPOs	VitalSource, Cornerstone Rheumatology, Acuity, Renal Purchasing Group, MosaicGPO Solutions	ION Oncology Practice Network, Nephrology Practice Network, Specialty Practice Network, Specialty Advancement Network	Onmark, PlasmaRx
Specialty Pharmacy	MMS Solutions Specialty Pharmacy	TheraCom	Biologics
Community Networks	Navista Network	OneOncology	US Oncology
Analytics and Insights Business	NavistaTS, Advanced Practice Analytics	IntrinsiΩ Specialty Solutions	Ontada
Inventory Management	RxID Select	OrderInsite (partner)	Lynx

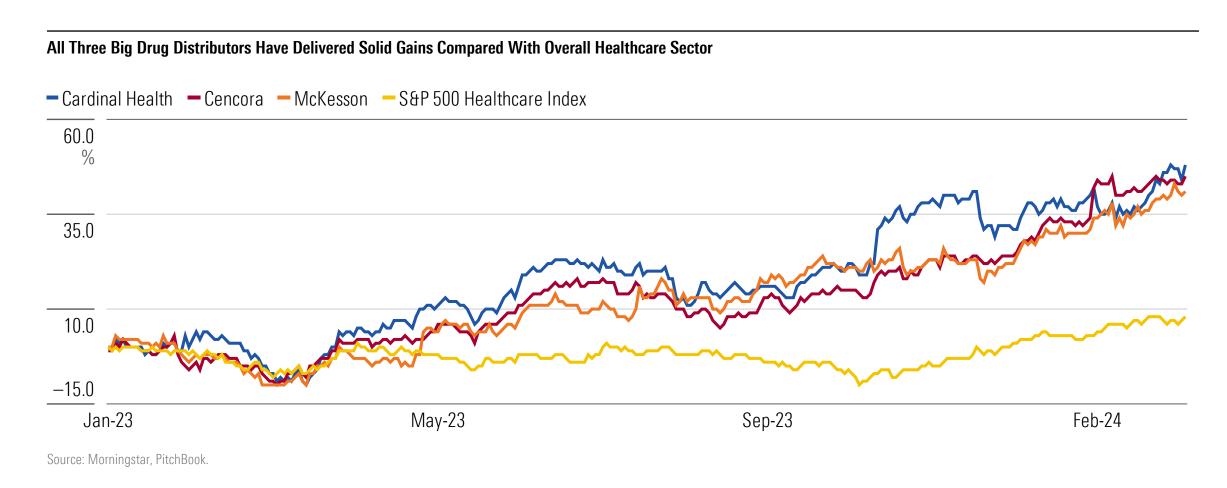
Source: Morningstar. Peach for manufacturers; blue for clinics; yellow for providers and patients; purple for manufacturers and clinics.

Outlook

New therapies boost sales, and biosimilars and specialty assets promote margin expansion.

Drug Distributors Have Significantly Outperformed the US Healthcare Index

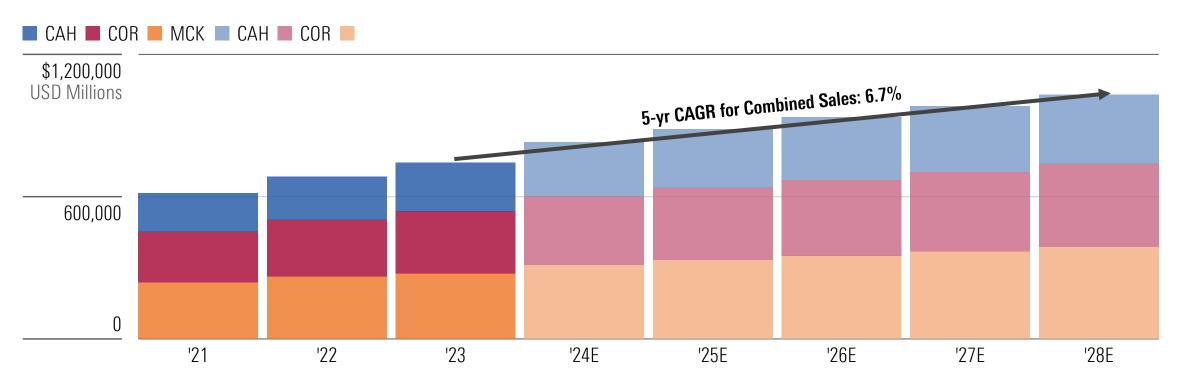
We think the market has rallied behind the US drug distribution industry recently due to the popularity of GLP-1s, easing generic drug deflation, and an increase in specialty asset investments. Since the beginning of 2023, the big three distributors have delivered on average a 45% gain compared with the S&P 500 Health Care index's 8% gain.



We Expect All Three Distributors to Enjoy Mid-Single-Digit Growth Through 2028

We forecast the big three distributors will continue to control the market over the next five years. We think they are all well positioned to enjoy macro trends including an aging population, growth in prescription expenditures, and increasing access to healthcare. These drivers should provide a nice tailwind to distributors' top lines and help them achieve mid-single-digit compound annual growth rates over the next five years.



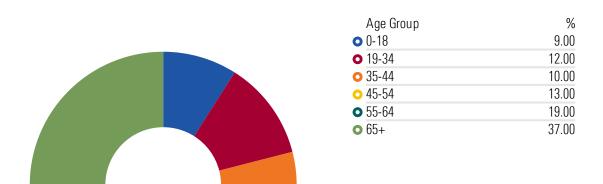


Source: Morningstar.

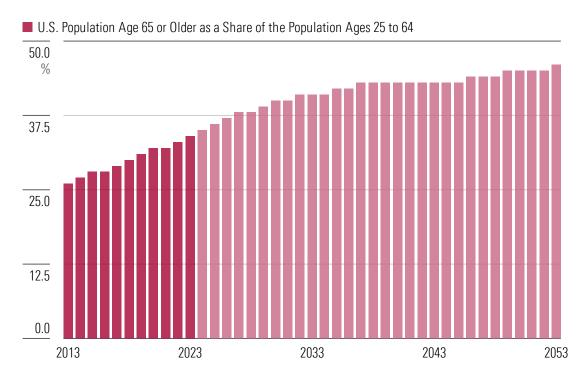
Aging Population Should Drive Demand for Pharmaceuticals and Boost Distributors' Sales

The US population has been aging for decades, and this trend shows no sign of reversal in either the near or long term. While Americans 65 and older make up less than 20% of the population today, they account for over a third of total drug expenditures. As the US population continues to age, we believe prescription volume is likely to rise accordingly, since this age group ranks highest in drug utilization. This could provide a solid tailwind for distributors' sales.

Americans 65 and Older Make Up Largest Portion of US Drug Expenditures



US Population Poised to Grow Older Over the Long Term

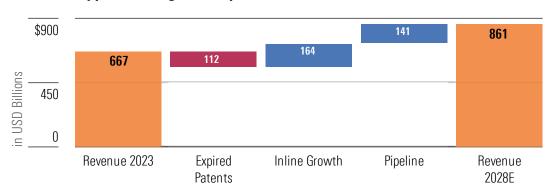


Source: Congressional Budget Office.

Source: KFF analysis of 2021 Medical Expenditure Panel Survey data.

Branded Drug Sales Growth and Continued List Price Hikes Propel Growth for Distributors

Growth of Approved Drugs and Pipeline Assets to Offset Patent Losses



Source: Morningstar. Includes branded drug sales at AbbVie, Amgen, AstraZeneca, Bayer, Biogen, BioMarin, Bristol, Gilead, GSK, J&J, Eli Lilly, Merck, Novartis, Novo Nordisk, Pfizer, Regeneron, Roche, and Sanofi.

List Price Growth Is Slowing but Still Rising



Source: IQVIA.

Plenty of Tailwinds to Negate Headwinds From Expiring Patents

Patent losses are one of the biggest hurdles for biopharma manufacturers, but they also affect distributors, which will likely lose certain top-line contributions as branded drugs expire and go generic. Key blockbuster drugs that are likely to go generic in the next five years include Stelara, Eylea, and Tysabri.

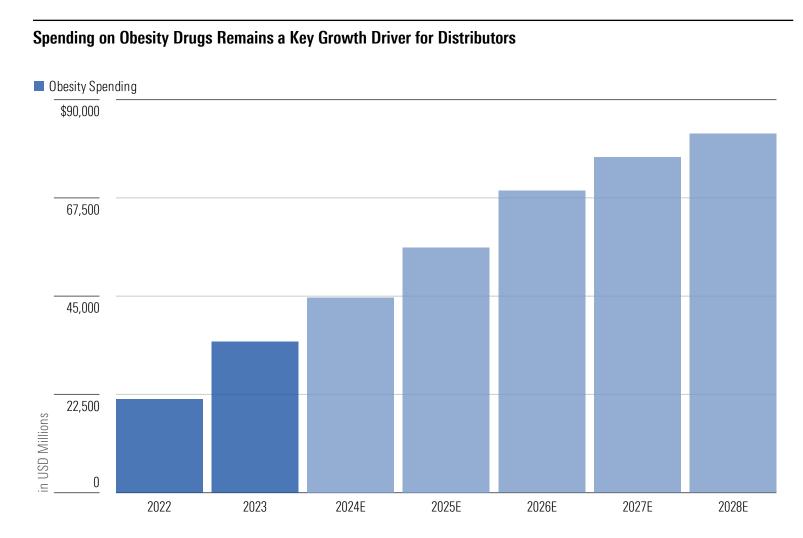
Nevertheless, we expect manufacturers and distributors to offset these losses through growth of other already-approved therapies and through pipeline assets. Areas like oncology, rare diseases, and neurology remain pivotal for near-term pipeline assets to drive growth in the industry.

Drug Pricing on Close Watch but Not a Material Worry for Distributors

Rising healthcare costs for Americans have put a spotlight on drug price inflation and were a major driver behind the Inflation Reduction Act. This regulation caps price increases across Medicare channels, or manufacturers must pay rebates for price increases above rate of inflation. It also significantly reduces prices on older blockbuster drugs. While this creates certain headwinds for distributors' sales, we think new drug launches will be more than enough to drive mid-single-digit growth for the three big distributors over the next five years.

0 U T L O O K

Continued Adoption of Obesity Drugs Will Fuel Distribution Sales, but It Comes With Costs



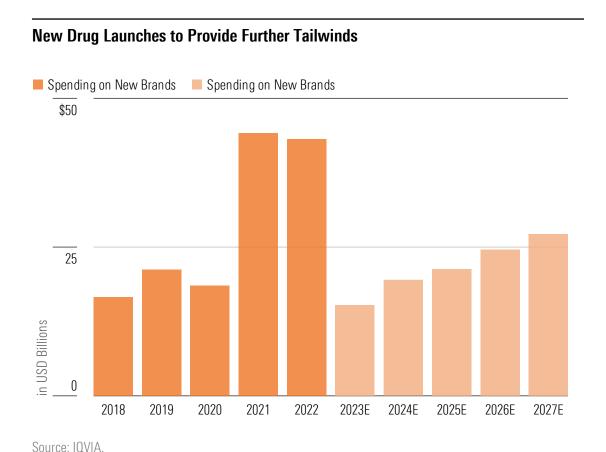
GLP-1s were first approved to treat diabetes but are now seeing stellar growth as a novel obesity therapy. They have been one of the main recipients of attention in the biopharma market since 2022, and their impact has trickled down nicely to drug distributors. All three big distributors have delivered double-digit growth in their distribution businesses in recent quarters, and we estimate that GLP-1s collectively contributed to about one fourth of the growth. This is extremely impressive, given that spending on obesity drugs in 2023 made up less than 5% of US prescription spending.

One downside of GLP-1s is their margin headwinds. Since they are branded drugs and require special delivery methods like cold chain handling, they carrying lower margins than generics. Segment operating margins have declined sequentially for all three distributors, reaching their lowest level of the last three years. However, we still view GLP-1s as a net positive to distributors since they boost the top line and offer opportunities for distributors to sell other high-margin services like prior authorization solutions.

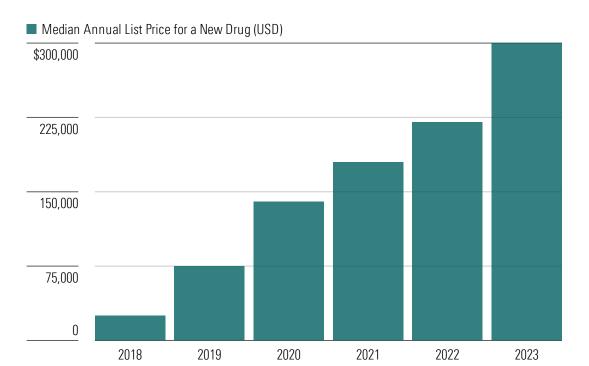
Source: Morningstar.

Novel Therapies and Rising Launch Prices Support End-Market Expansion

Thanks to continued innovation and the strong pipelines at life sciences firms, we expect tailwinds from new drug launches to remain stable and growing. 2021 and 2022 saw an unusually high level of spending on new brands from covid vaccines and therapies. While we expect a year-over-year decline in spending from 2022 to 2023, given easing covid contributions, we still think new brands will provide solid growth thanks to rising launch prices.



New Drugs Enter Market With Rising Price Tags



Source: JAMA Network, Reuters. New drugs are categorized as drugs first marketed in each year.

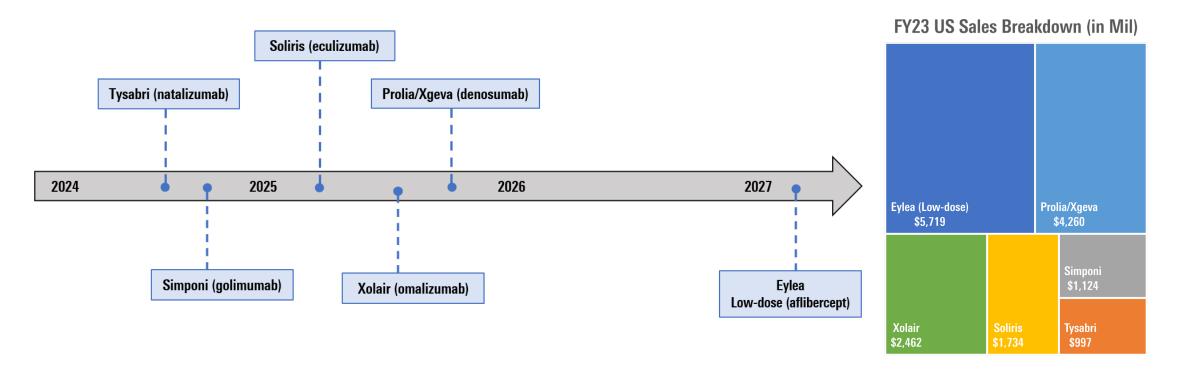
See Important Disclosures at the end of this report.

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Patent Losses in Blockbuster Branded Drugs and Biologics Should Spur Generic and Biosimilar Growth

We believe several blockbuster biologics will go off patent and see biosimilar substitution over the next five years. While biosimilar adoption varies by therapeutic area and has been poor for certain drugs (Humira, for example), biosimilars on average make up over 50% of the market within three years after their initial launch. Since biosimilars generally show better margins for distributors compared with biologics, we think future biosimilar launches could provide tailwinds to the top and bottom lines of the big three distributors.

Anticipated Biosimilar Launches Look to Be Fruitful for Distributors



Source: Cardinal Health, Morningstar.

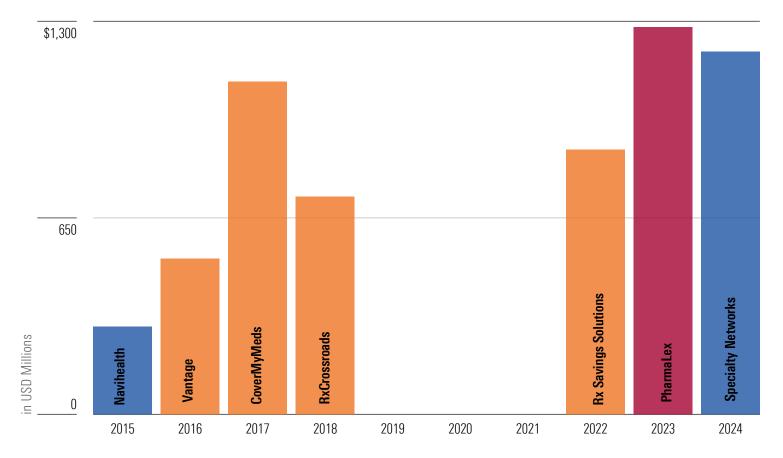
Distributors Have Invested to Bolster Their Portfolios of High-Margin Services

Due to adverse drug pricing dynamics that have weighed down margins over the past eight years, the big three distributors have focused on building up their portfolios of high-margin services through acquisitions. Since they have close and longstanding relationships with a diverse network of customers, distributors are well positioned to offer services that go beyond simple distribution; they can extract higher margins through offerings like insights and analytics, data, and workflow management.

In recent quarters, the big three distributors have utilized the growth of GLP-1s and benefited from their high-margin assets. A surge of new patients wanting GLP-1 prescriptions has driven demand for electronic prior authorization, a technology that makes the process of medication prior authorizations more efficient. This business drives higher margins than distribution of GLP-1s and has offset certain margin headwinds for the big three distributors.

Notable Acquisitions of Technology and Insights Service Assets in the Past Decade

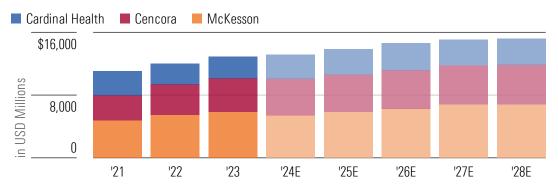
Cardinal Health in Blue, Cencora in Red, McKesson in Orange



Source: Morningstar.

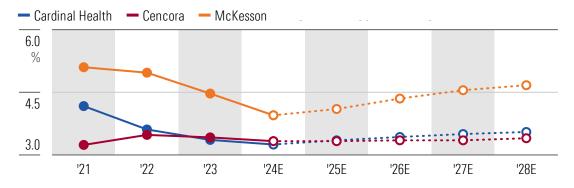
We Forecast Slightly Improving Margins From Biosimilar and Specialty Asset Uptake





Source: Morningstar.

Gross Margins to Improve but Unlikely to Recover to 2021 Levels



Source: Morningstar.

Against the backdrop of adverse drug pricing dynamics, distributors have seen their margins diminish year over year since the mid-2010s. However, we are starting to see conditions improve in the marketplace and anticipate certain tailwinds that could reverse the trend in the near term.

New Biosimilar Launches Provide Favorable Mix

As many blockbuster biologics go off patent and their volume is replaced by biosimilars, we think distributors will see margins improve. Like generic drugs, many versions of biosimilars for one reference drug are usually manufactured by different companies (Amgen, Sandoz, Teva). This affords more pricing power to distributors compared with a branded drug marketplace; distributors can ask for higher discounts from manufacturers and extract better margins. But we don't anticipate gross margins to rebound to 2021 levels, since biosimilars deliver lower gross margins than generics and new specialty and branded therapies continue to pose headwinds.

Investments in Specialty Assets to Pay Off

We think the vertically integrated specialty asset portfolios that the three big distributors have amassed can provide tailwinds to their margins. We think distributors are well positioned to offer higher-margin services like revenue cycle management, payer negotiation support, and inventory management, especially as their oncology networks grow via additions of new community clinics.

ESG Snapshot

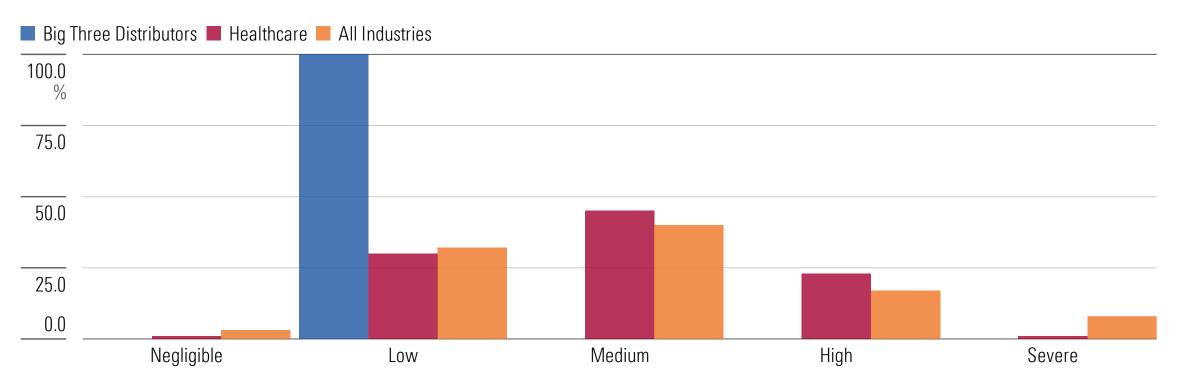
Distributors face lower ESG risks compared with other healthcare firms.

ESG SNAPSHOT

All Three Big Drug Distributors Have Low ESG Risk Ratings

We think Cardinal Health, Cencora, and McKesson are relatively exempt from material environmental, social, and governance risks. The only noteworthy risk is in product governance, since the products they transport must meet strict safety and quality guidelines. Besides the major opioid litigation (see next slide), there have not been any material events in the past five years that suggest the big three distributors have violated regulatory guidelines surrounding pharmaceutical delivery.

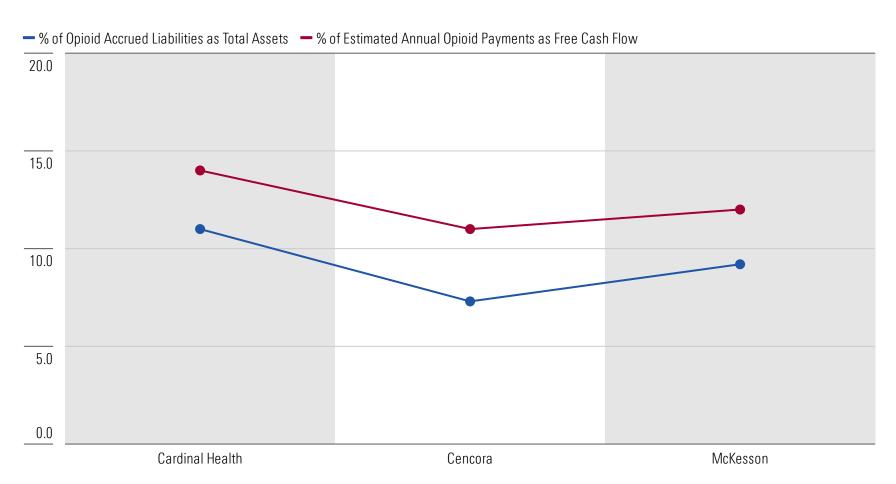




Source: Morningstar Sustainalytics. Data of October 2023.

Uncertainty Around Opioid Lawsuits Largely Behind Us, and Future Risks Manageable

Estimated Annual Payments Related to Opioid Lawsuits Make Up Less Than 15% of Expected 2024 Free Cash Flow to the Firm



Lawsuits against the big three distributors related to the distribution of opioid pain medications started to be filed in 2017. In April 2022, the distributors settled with 48 out of 49 eligible states as well as the District of Columbia to resolve all opioid litigation. This resulted in the distributors having to pay a combined \$20.3 billion over the next 18 years: approximately \$6.0 billion for Cardinal Health, \$6.4 billion for Cencora, and \$7.8 billion for McKesson.

Since there is no more outstanding litigation related to this issue and the distributors already took the litigation charges in their income statements, we do not expect any additional risks from this going forward.

Source: Company filings, Morningstar. Data as of Dec 31, 2023.

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