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Industry Overview Fall 2023

Healthcare

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October 25, 2023

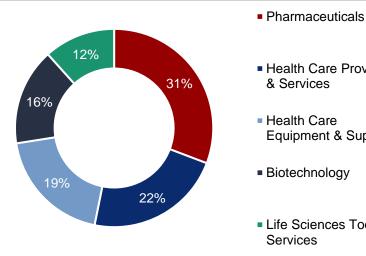




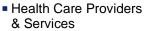


Sector Description

- The Healthcare sector encompasses multiple subsections to group different companies based on their primary activities
- Activities include manufacturing healthcare equipment & services, biotechnology, pharmaceuticals, life science tools, and more



S&P Healthcare Sub-Sector Weighting



- Health Care **Equipment & Supplies**
- Biotechnology
- Life Sciences Tools & Services

Key Healthcare Trends

1

2

3

Inflation Reduction Act

The inflation reduction act is not as impactful to our holdings as it may first seem

GLP-1RA & Weight Loss Drugs

GLP-1RA leads the transformation of the global era of reducing blood sugar and weight loss

Water & Wastewater Treatment

Danaher's spin-off company, Veralto, now focuses on the growing water and wastewater treatment industry

Outline

I. Industry Overview

- a. Healthcare Industry Analysis
- b. Sub-Industries
 - a. Healthcare Services
 - b. Healthcare Equipment
 - c. Healthcare Technology
 - d. Biotechnology
 - e. Pharmaceutical & Generic Drugs

II. Analysis of disruptions

- a. Inflation Reduction Act
- b. Weight Loss Drugs
- c. Water Treatment
- III. Appendix

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Benchmark Analysis



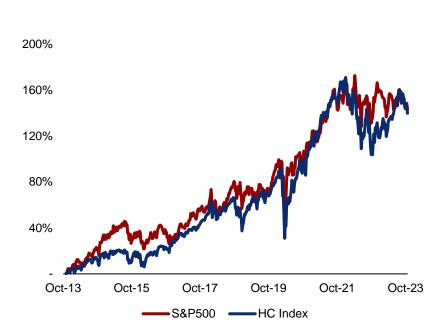




Benchmark Performance & Valuation Since 2008 Crisis



Healthcare Performance vs S&P Performance over 10 years



What's with the broader market?

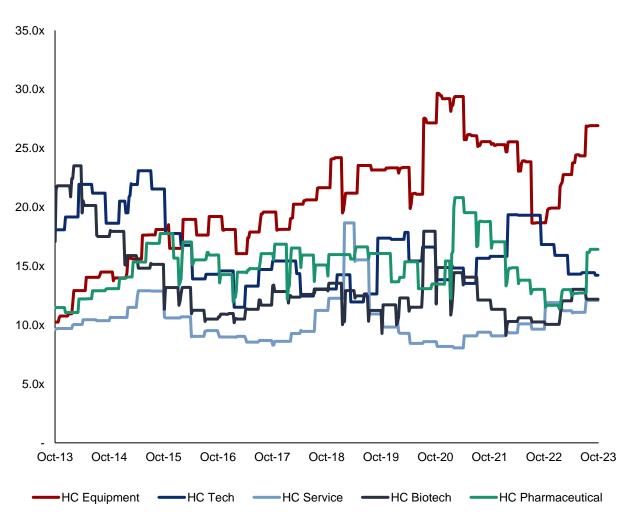
- Higher volatility in multiple valuation
- > Significant drop in multiple valuation post-pandemic
- Implication on overvaluation in 2021 as rates hike / markets becomes more risk-averse
- Higher valuation multiple hike = investor ready to pay more for growth vs. HC being more stable, with harder to predict growth

What's with the HC industry?

- > Lower discount rate given recession-proven industry landscape
- HC has performed relatively in-line with the broader market, lagging during the pandemic where it saw less radical growth, but catching up in 2023
- Most importantly, HC tends to be a long-term performer and requires patience

Source: DCM, CapIQ

EV/LTM EBITDA Evolution Since 2013



Valuation Summary (Oct-23)

Stock

TOS Multiple

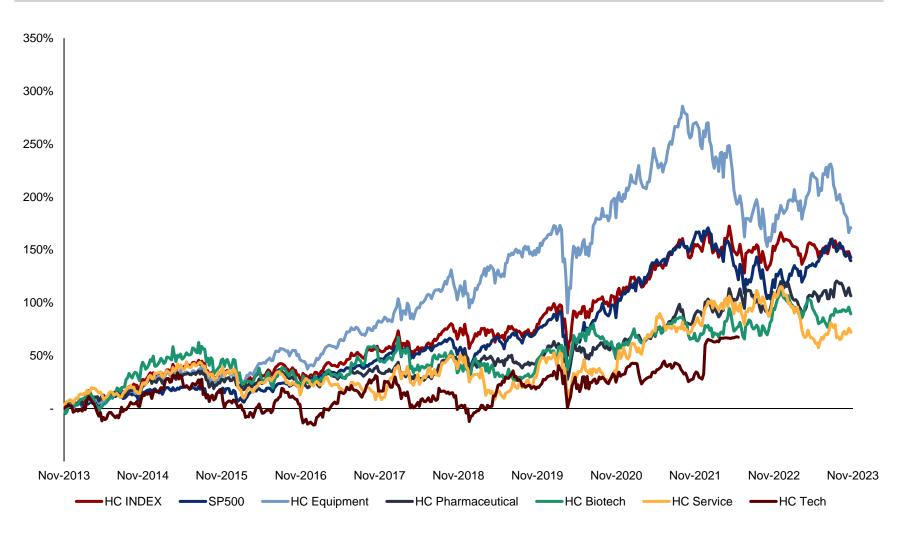
DODO Stock	Reference in the second
General	14.0x
HC Equipment	26.9x
Pharmaceutical	16.4x
HC Technology*	14.2x
Biotech	12.2x
HC Services	12.09x

Key Takeaways on Multiple Evolution

- Market conditions have led to the highest expansion of tech with extremely priced growth value
- High volume of activities in growth equity and capital raising during those times
- Medical equipment benefitting from continuous digitalization and automation of medical support

Note: Tech index taken as S&P 600 given lack of sample companies within S&P500 Source: DCM, CapIQ

Performance of all HC Sub-Sectors over 10 years



Source: Bloomberg

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Sub-Industry Overviews







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Sub-Industry: Healthcare Technology







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Sub-Industry: Healthcare Equipment







Healthcare Sub-Sector Overview: Healthcare Technology

Healthcare Technology Has Underperformed The Broader S&P 500 Healthcare Index YTD

Sector Description: β : 1.314

Healthcare Technology offer a wide range of products and solutions that contribute to a more effective and efficient healthcare infrastructure:

- Enterprise Software
- Data Management & Services
- Administrative and Financial Management
- Drug Discovery & Clinical Research

TELADOC

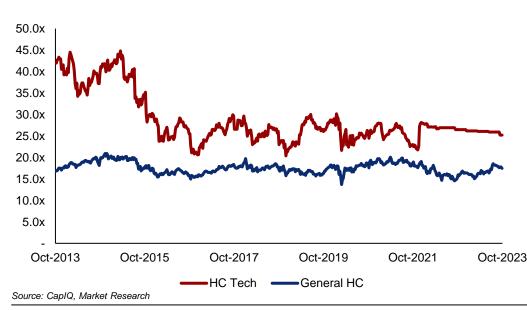
- Virtual Care / Telehealth
- Imaging & Diagnostics



accesshealthcare

💾 Bristol Myers Squibt

P/E Ratio of Healthcare Technology Over time



Sector Dynamics

1

3

4

6

Macro Factors

- Demand for improved quality of care
- Digitalization trend accelerated by COVID
 - More convenient
 - Alleviates staffing issues
- Technological Advances
 - Artificial Intelligence

Suppliers (bargaining power)

- High in specialized sectors
 - Ex: precision surgical tools
- Low in most sectors
 - Ex: Health IT services, CRM

Threat of Entrants

HC is highly regulated with lots of legal compliance

Threat of Substitutes

- Some clear market leaders in spaces
- Constant development and upgrades to solutions

5 Buyers (Bargaining Power)

- Moderate/High
 - Lots of options in most spaces
 - Government reimbursements

Industry Rivalry

 Sub-industries within technology have different levels of rivalry dependent on current adoption levels

Healthcare Sub-Sector Overview: Healthcare Equipment

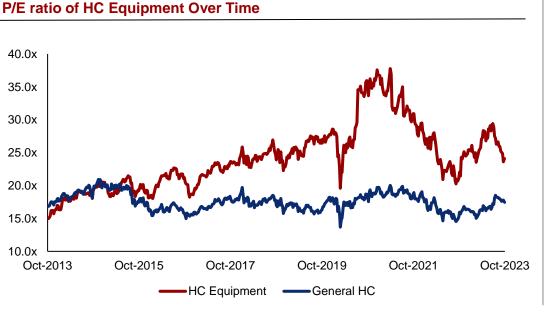
Just like every other healthcare sub-sector, equipment can refer to many different things

Sector Description β : 1.289

Manufacturers of health care equipment and devices, such as:

- Medical instruments
- Drug delivery systems
- Cardiovascular & orthopedic devices
- Diagnostic equipment
- Surgical robots
- And more!
- Reticence to upgrade equipment, but resilience due to servicing model





Sector Dynamics

Macro Factors

- Rising interest rates leading to delay of purchases of new equipment
- Previous supply chain issues have improved.
- Aging population leading to higher volumes

2

Bargaining Power (Suppliers/Buyers)

Depending on size of company, variable amount of bargaining power

3 Threat of Entrants

- High capital requirements
- Regulatory barriers
- Existing economies of scale
- Strong brands and customer loyalty

Threat of substitutes

Companies constantly developing new technology which could create redundancies in the industry

Source: CapIQ, KPMG, JP Morgan

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Sub-Industry: Biotechnology



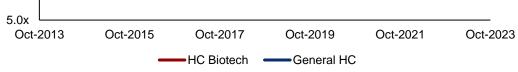




Biotech Sub-Industry has a 5-year Beta of 0.897 vs 0.778 of the S&P 500 Healthcare Index

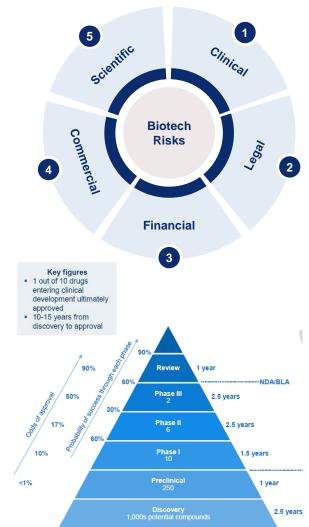
Sector Description β : 0.897

What differentiates Bio from Pharma?	Main Risks
 Biotechnology companies are usually focused on a niche therapeutic area(s) or a specific technology platform Through R&D investment, biotech companies are capable of achieving high revenue growth and margins if successful Unlike most pharma, Biotech drugs are biologics (drugs manufactured using biological processes, i.e. cellular therapies, gene editing, gene, therapies, antibodies, RNA, peptides – thus more complex and expensive) 	 Clinical: Review of NDA/BLA by FDA is gate to approval Legal & Regulatory: Market exclusivity is needed to achieve high ROI and warrant investment Financial: Liquidity and lack of cash runway predictability makes financing info asymptotic Commercial: The commercial environment in biotechnology is driven by payer dynamics and competition & supply chain is complex
P/E ratio of Biotech Over time 35.0x 30.0x 25.0x 20.0x 15.0x 10.0x	m





Sector Dynamics



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Sub-Industry: Pharmaceuticals







Death, taxes, and opioids

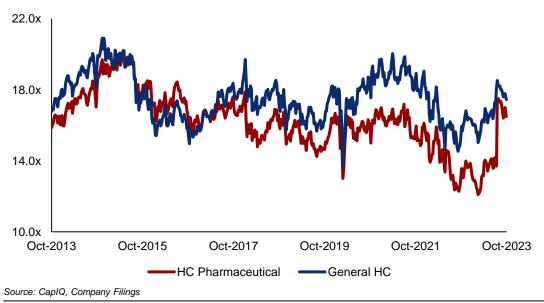
Sector Description β : 0.847

The pharmaceutical industry **discovers**, **develops**, **produces**, **and markets drugs** or pharmaceutical drugs for use as medications to be administered to patients. Categories of pharmaceuticals include:

- Name-brand medications
- Generic drugs
- Vaccines
- Over-the-counter remedies



P/E Ratio of Pharmaceuticals



Sector Dynamics

Macro Factors

- Demand for more affordable medication
- Aging population requiring more medication
- Increasing obesity and disease rates
- Growing societal health trend

2 Threat of Entrants

 Difficult space to enter. Regulatory, financial, and knowledge barriers make it difficult for new players to develop a meaningful presence.

3 Buyers (Bargaining Power)

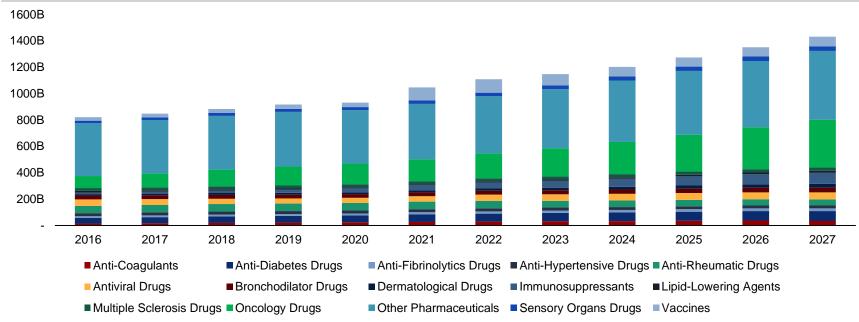
 Dependent on the type of medication, but oftentimes, the product is a necessity for the client.

4 Threat of substitutes

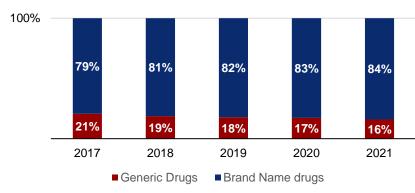
- Generic drugs can often be an attractive substitute when drugs are no longer protected by a patent
- Introduction of biosimilars

Although simpler than Biotech, not simple

Almost all segments of pharmaceuticals are growing, albeit at different rates



Spending on Generic vs Name Brand Drugs



Source: Statista, USC

- 90% of all prescriptions dispensed in the U.S. are for generic drugs
- However, they only represent ~20% of drug spending
- Since 2014, prices for common generic drugs have dropped by 37%, while branded drug prices have increased by 60%

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Sub-Industry: Healthcare Services







DCM is currently exposed to the Managed Care through UNH

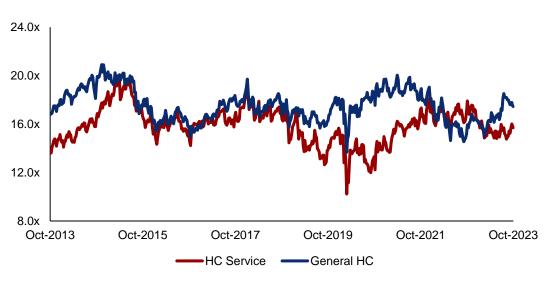
Sector Description β : 1.052

Health services can include any company offering a service related to patients' health

- Adult nursing
- Medically complex patient care
- Rehabilitation centers
- Home Health Hospice
- Speech and language therapy
- And more!
- June 2022: Proposed rate cut to the Home Health industry for 2023



P/E ratio of Healthcare Services over time



Source: CapIQ, KPMG, JP Morgan

Sector Dynamics

2

Macro Factors

- Labour shortage affects the industry heavily
- Increase in chronic disease prevalence
- Aging population leading to higher volumes
- Reimbursement rates play a large role

Suppliers (bargaining power)

Most bargaining takes place with regulators setting reimbursement rates for Medicare & Medicaid, there is lobbying for higher rates but limited bargaining power

3 Threat of Entrants

Companies rely on their large presences to obtain more favourable rates, so it is difficult for companies to enter the space, more so with the current macro climate

4 Threat of substitutes

Industry leaders continue to merge to create larger companies which allow them to better weather the labour shortage

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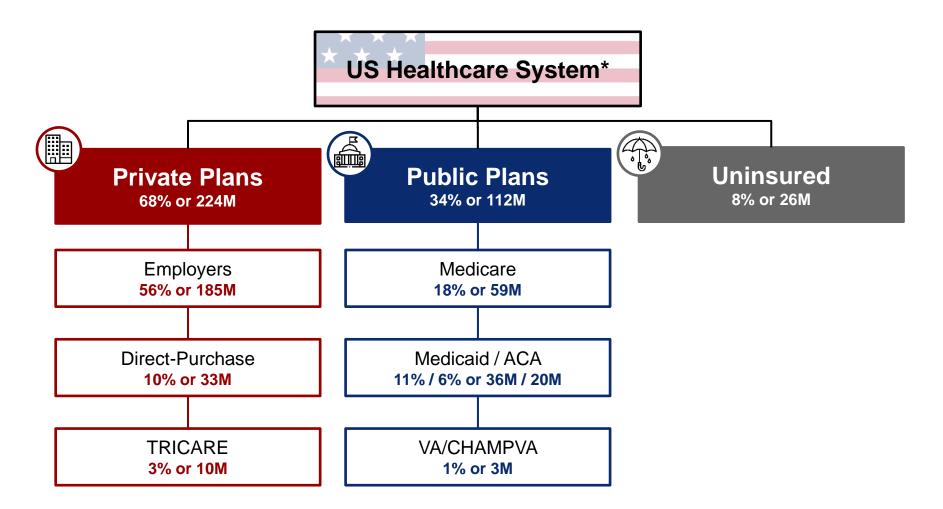
Inflation Reduction Act







Breakdown by key payers (2019)



Source: U.S. Census Bureau *types of coverage are not mutually exclusive

Medicare

Medicare is divided into 4 parts, each with different benefits and structure

Eligibility Criteria



Individuals who are **65 years or older** are eligible for Medicare

Age



Individuals who become totally/ permanently disabled

Disability





End Stage Renal Disease (ESRD) or Amyotrophic Lateral Sclerosis (ALS) patients

Severe Diseases

Part A

Hospital/Hospice

- Covers inpatient hospital stays, skilled nursing and hospice benefits
- No monthly premiums; financed by 2.9% Medicare tax
- Inpatient deductible of \$1.4k and co-insurance ranges from \$350 to \$700 depending on length of stay
- Skilled nursing co-insurance ranges from \$0 to \$168, no costs for hospice benefits

Part D Prescription Drugs

- Covers self-administered prescription drugs
- Provided by private companies
- Each plan has a formulary which tiers drugs based on co-pay
- Medicare cannot negotiate drug prices with drug companies, causing drug prices to increase
 - causing drug prices to increase
- **PBM**'s negotiate drug prices



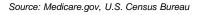


Part B Medical Insurance

- Covers a wide range of outpatient services and professionallyadministered prescription drugs
- Monthly premium of \$148.50, and additional surtax for higher income Annual deductible amount of \$203, and co-insurance is an 80/20 split

Part C Medicare Advantage

- Provides Medicare benefits through private insurer
- Premium paid for benefits in Part A, B and beyond (ex: dental, gym, annual physicals)
- Can create an OOP spending limit from \$1.5k to \$6.7k, but other restrictions also exist (need for a primary physician)



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23

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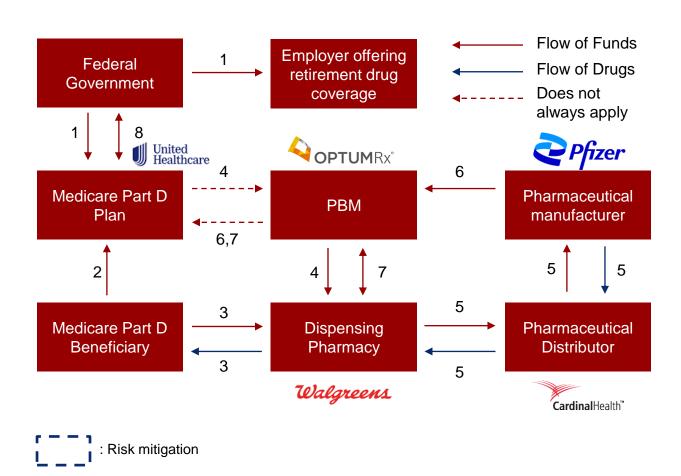


Source: Medicare.gov, U.S. Census Bureau

Medicare part D

Slangin' racks and packs





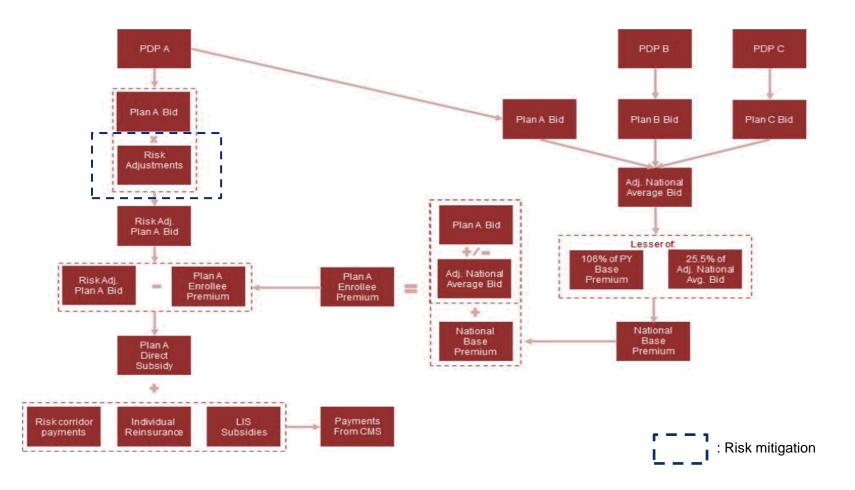
- Federal gov. pays the direct subsidy to the plan and also provides RDS to eligible employers
- 2. The beneficiary pays the plan
- 3. The beneficiary receives their drugs
- 4. PBM reimburses the pharmacy
- Distributors source drugs from manufacturers and supply dispensers
- 6. Manufacturers reimburse PBMs
- Dispensers pay applicable DIR fees to PBM
- 8. Risk corridor payments take place

Source: JPMorgan ER

Medicare Part D

Because universal healthcare is simply too complicated...

Bid and Premium Setting under Medicare Part D

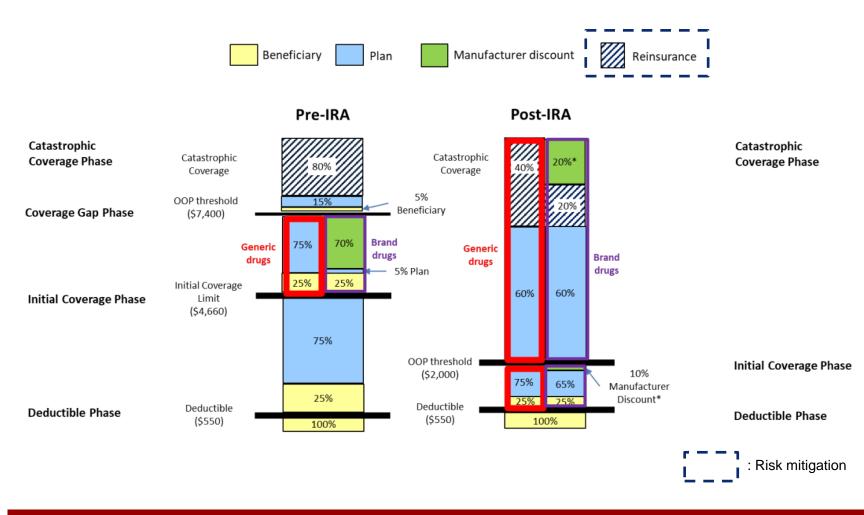


The IRA helps consumers without hitting insurers too hard

Source: HHS & CMS, JPMorgan

IRA Changes to Medicare Part D

No more donut hole!



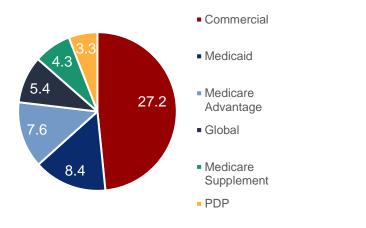
The true danger could lie within the reinsurance decrease in catastrophic coverage

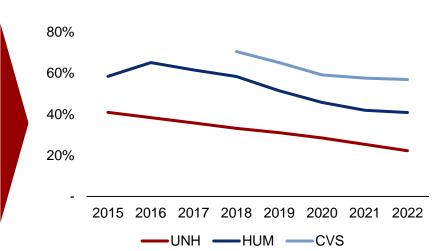
Source: HHS & CMS Research series

UNH's low-exposure

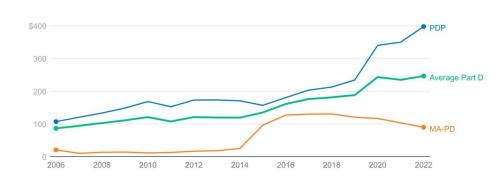
A relatively small portion of beneficiaries actually use PDP

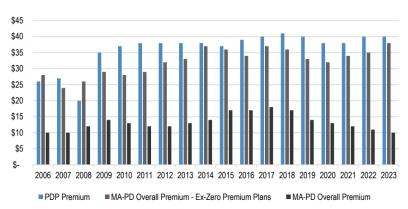
Coverage per UnitedHealthcare segment in 2022





PDP deductibles and premiums are higher than MAPD





UNH will be able to continue converting their PDP beneficiaries to MAPD plans

Source: KFF, UNH financials, DeutscheBank, JPMorgan



PDP as % of Total Medicare Membership per Company

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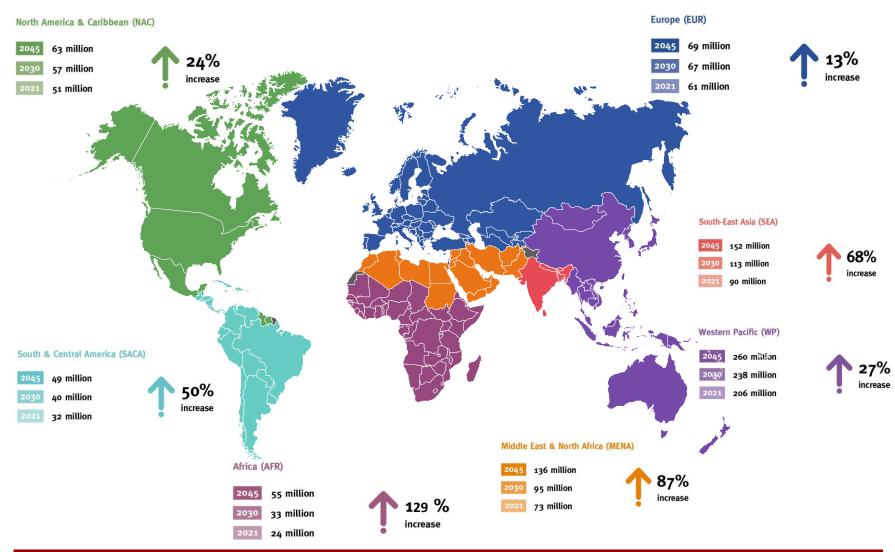
Weight Loss Drugs







The hyperglycemic treatment is long-term and inevitable



The global incidence rate of diabetes continues to rise, and the hypoglycemic treatment has the attributes of long-term and immediate needs

Source: IDF Atlas

The iteration of hypoglycemic drug updates is accelerating

Туре	HBA1c reduction amplitude (%)	Risk of hypoglycemia	Weight change	Weight change	Cardiovasc	ular effects	Common adverse
					ASCVD	HF	reactions
Insulin	1.5-3.5	High	Increase	Neutral	Neutral	hypoglycemia	
GLP-1 RA	1.0-1.5	Low	Decrease	Beneficial	Neutral	Intestinal discomfort	
Biguanide	1.0-1.5	Low	Slightly Decrease	Neutral	Neutral	lactic acidosis	
α glucosidase inhibitor	0.5-1.0	Low	Neutral	Neutral	Neutral	Intestinal discomfort	
Sulfonylurea	1.0-1.5	Medium	Increase	Neutral	Neutral	hypoglycemia	
Glinides	0.5-1.5	Medium	Increase	N/A	Neutral	hypoglycemia	
TZDs	0.7-1.0	Low	Increase	Neutral	Increase	HF	
DPP-4	0.4-0.9	Low	Neutral	Neutral	Increase	Upper respiratory tract infection	
SGLT-2	0.5-1.0	Low	Decrease	Beneficial	Decrease	Urogenital infections	

Sources: Implementation of Good Laboratory Practices (GLP) in basic scientific research: Translating the concept beyond regulatory compliance

GLP-1RA leads the transformation of the global era of reducing blood sugar and weight loss

What are Weight Loss Drugs? How it works?

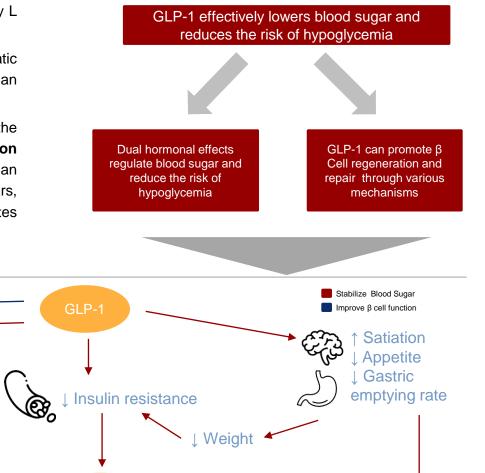
GLP-1RA

- Glucagon like peptide is an intestinal hormone secreted by L cells in the intestinal mucosa during the feeding process
- Help T2DM patients since their contribution of pancreatic stimulating hormone to overall insulin secretion is less than 20%, which normally 60%-70%
- By stimulation β Cell and inhibition α Cells participate in the body's blood glucose regulation in a glucose concentration dependent manner. When blood glucose is lower than 50mg/dL, the insulin stimulating effect of GLP-1 disappears, which can avoid the risk of hypoglycemia caused by diabetes drugs

Glucagon secretion

glucose toxicity

Multiple hypoglycemic mechanisms of GLP-1



Sources: Implementation of Good Laboratory Practices (GLP) in basic scientific research: Translating the concept beyond regulatory compliance

Glycogen Output

DESAUTELS Capital Management Gestion de capitaux

Insulin synthesis

Insulin Release β Cells Growth

Cell Death

↑ β Cell function

🐯 McGill

Postprandial blood glucose

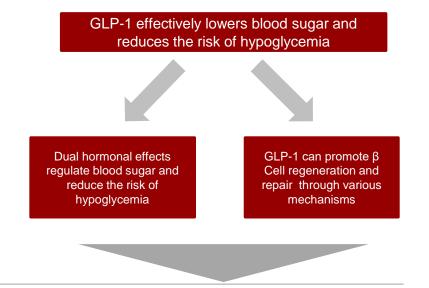
GLP-1RA leads the transformation of the global era of reducing blood sugar and weight loss

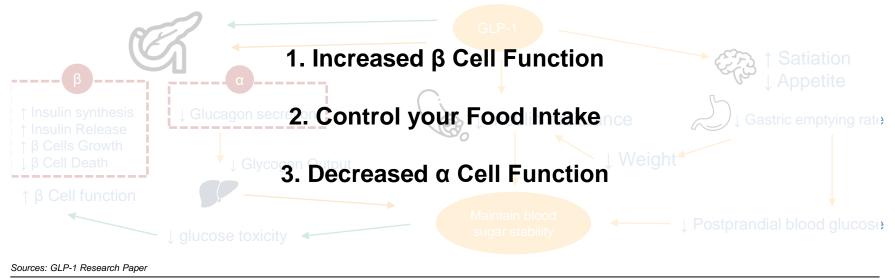
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Multiple hypoglycemic mechanisms of GLP-1





GLP-1RA leads the transformation of the global era of reducing blood sugar and weight loss

GLP-1RA has significant hypoglycemic effects and is ideal for patients with obesity and cardiovascular complications

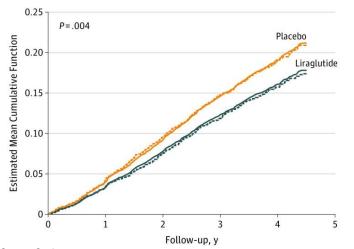
GLP-1 has Cardiovascular benefits

Cardiovascular protection mechanisms

 $\overline{\mathbb{A}}$

- 1. Relax coronary blood vessels
- 2. Increase coronary blood flow
- 3. Increase glucose uptake rate of myocardial cells
- 4. Increase myocardial contractility
- 5. Alleviate inflammatory and superoxide damage to coronary endothelial cells

Incidence of ACVE with Sexanda

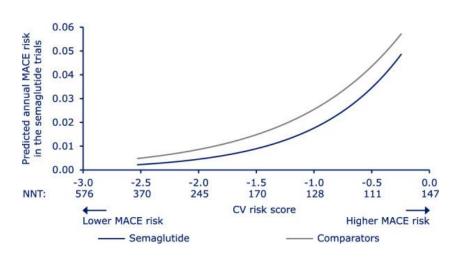


Clinical trials shown a reduction in cardiovascular risk



According to a trial with 9340 type 2 diabetes patients involved, the test results showed that the risk of major cardiovascular events and death in the Sexanda group was 13% lower than placebo group, and the risk of cardiovascular death was 22% lower, similar results for Semaglutide

Incidence of ACVE with Semaglutide

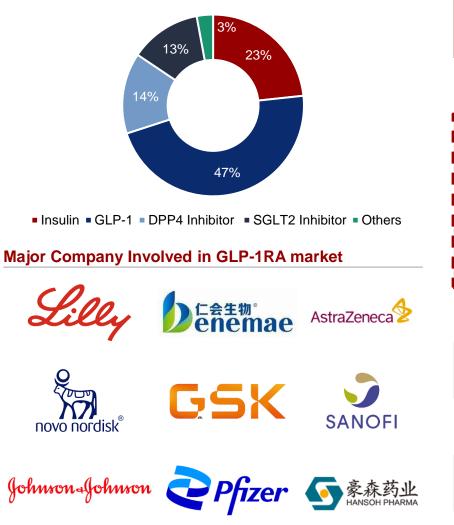


Source: Statista Notes: ACVE: adverse cardiovascular events

The competition in the hypoglycemic market is fierce

Although there are different drugs for diabetes, GLP-1 leads in the market

Global Diabetes Drug Market 2022



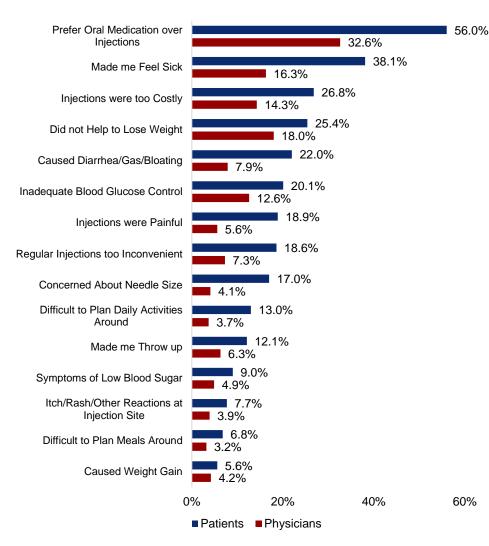
Half-life Weight Phase HBA1c Name period loss FDA Sexanda High Daily Low Semaglutide FDA High weekly High (Injection) Semaglutide FDA Medium Daily High (oral) Tirzepatide FDA High Weekly Best Mazdutide Medium Ш High Weekly Dulaglutide FDA High Weekly Medium Tanzeum FDA Medium Weekly Medium Beinaglutide FDA High 3times/day Neutral

Source: Novo Nordisk filings

Different products of GLP-1RA

The average fee for treatment is too high without Insurance

Major Concerns From Patients





Cost of Different Types of GLP-1 Medicines

Name	Cost with Insurance (monthly)	Cost without Insurance (Monthly)
Ozempic	25\$-35\$	936\$
Wegovy	45\$-60\$	1349\$
Rybelsus	10\$-25\$	995\$
Tirzepatide	25\$-35\$	1023\$
Dulaglutide	10\$-30\$	930\$

Source: Fibit, Health Solution

Ozempic and Weight Loss Drugs

How does it affect other sub-sectors

Major Impacts on HC Insurance Companies

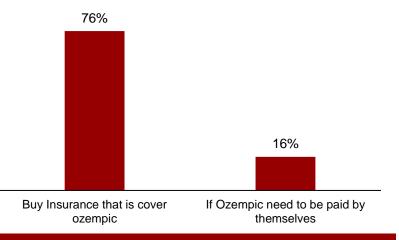
- Hard to capture the trend: The federal health insurance program has been explicitly forbidden by law from providing coverage for weight-loss treatments since 2003
- **Cost remain too high:** People typically need to take the drugs indefinitely to keep weight off
- Customers have low willingness to pay high insurance fees: "You're going to have to pay more for premiums", which will turn some people away

Should HC Insurance include Weight-Loss drugs?

- **Demand boom still needs to be captured:** Weight-Loss drugs may help HC insurance attract more customers
- Potential long cost for long term: Danger for bariatric surgery is higher, Weight-loss drug may potentially work the same as the "Physical Examination Services"
- The "monopoly" of Novo won't exist for too long: More and more emerging GLP-1RA products will gradually compete with each other and drive the cost down

We need the
manufacturers to
move, we are waiting
for new payment
model, it's as simple
as that."Andrew Philip Witty
CEO of UNHMarket Philip Witty
CEO of UNHMarket Philip Witty
CEO of UNH





HC insurance companies are hesitating to cover weight loss drugs, but long-term potential should not be ignored

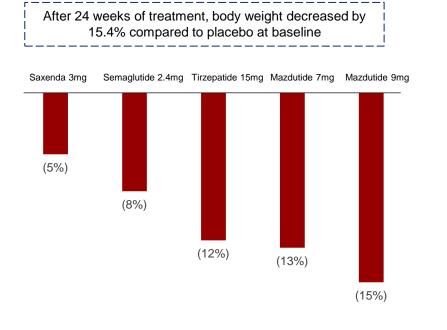
Future Development Trends of GLP-1

Explore the application prospects of multiple indications

Multi target agonists become future research and development priorities

• As of August 2023, multiple dual/multi target agonists have entered clinical practice through research pipelines worldwide, concentrated in combinations such as GLP-1R/GIPR, GLP-1R/GCGR, even triple incentives.

Mazdutide (GLP-1R/GCGR dual agonist) Phase III clinical

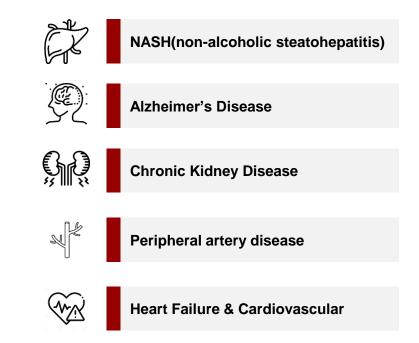


More oral medication are in progress

• Peptide oral formulations are safer and more effective in reducing blood sugar compared to injections

•Small molecule GLP-1RA is more convenient to administer than oral peptide drugs: 1. High bioavailability of oral drugs 2. The production cost of small molecule drugs is much lower than that of biopharmaceuticals

Semaglutide holds a plethora of therapeutic opportunities



Multiple future developments that we can foresee for GLP-1RA

Desautels Capital Management

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Water treatment

Section III







Prominent and Increasing Demand for Water Treatment Solutions

Numerous factors driving the water market, more specifically the wastewater treatment sector.

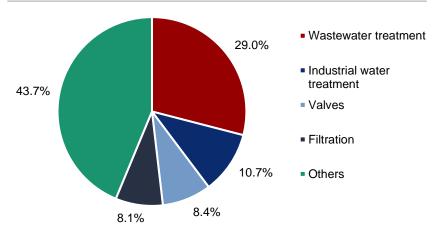
Key Drivers

- Water Scarcity:
 - WWF: 2/3 of world will face water shortages by 2025
 - · Causes: pollution, climate change, overuse

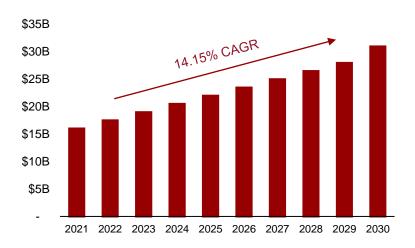
Pollution:

- 44% of all wastewater on Earth currently returns to the environment untreated
- · Caused by industrial, agricultural and sewage discharge
- Tighter Laws and Regulations:
 - Clean Water Act: regulates the discharge and treatment of wastewater → permits required for discharge

Water Markets by Subsector (2021)



Water Recycling and Reuse Market Size



Aging Water Treatment Infrastructure In USA



Estimated costs to replace : \$US 800bn over 20 years

Source: Statista, Environmental Protection Agency, RBC Capital Markets,

Focus on Industrial Water Treatment

Municipal Water Treatment

Treatment of water for consumption:

- Residential & commercial applications
- Includes: sourcing, treating and distributing drinking water

Treatment of wastewater:

 Sewage systems: Collecting, cleaning and discharging wastewater from the public sewage system.

Heavy governmental participation:

- Most facilities = owned/ran by local governments
- Private markets → supplying machinery/equipment through contracts

Industrial Water Treatment

Pre-Treatment of water:

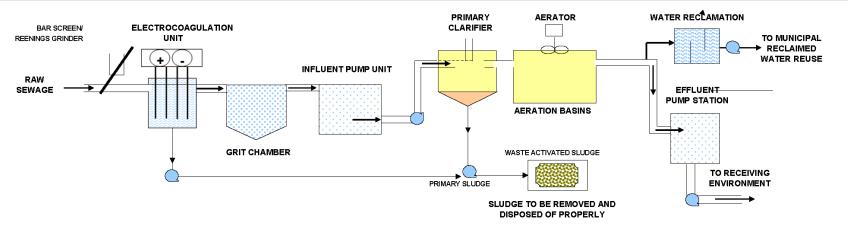
- Remove corrosive salts and contaminants from water
- Can cause harm to equipment & compromise quality control

Treatment of Industrial wastewater:

- Purifies water after industrial use for safe discharge
- Heavily polluted with metals, debris chemicals etc..
- Treat water according to regulation before disposing.

Disposal / Reuse

After treatment, water is disposed in sewers, bodies of water or reused



Process of Wastewater Treatment

Veralto

Danaher Spun Off Veralto

Business Description

- Veralto separated from its former parent, Danaher Corporation, on September 30, 2023
- Veralto is a global leader in essential water and product quality solutions dedicated to safeguarding the World's most vital resources
- Operates 13 companies that:
 - Aid in the treatment and recycling of 12 trillion gallons of water annually
 - Help ensure 3.4 billion people (40% of the world's population) have **safe drinking water** every day

Business Segments

 Water Quality: Provides water analytics and differentiated water treatment solutions that enable reliable delivery of safe drinking water by public and private utilities



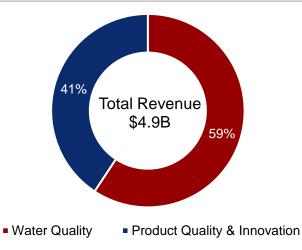
 Product Quality & Innovation: Provides solutions for brand owners and consumer packaged goods companies that enable speed to market, traceability and quality control of their products



Key Financial Information

Ticker	NYSE: VLTO
Share Price (20-Oct-23)	\$69.93
52 Week High-Low	\$89.00 - \$68.90
Market Capitalization	\$17.2B
Enterprise Value	\$17.4B
LTM Revenue	\$4.9B
LTM EV/Revenue	3.5x
LTM EV/EBITDA	13.3x

FY 2022 Segmented Revenue Breakdown



Source: Company filings

Veralto

A global leader in water analytics and water treatment

Water Analytics



 A global leader in water analytics with deep expertise in applied chemistry & biology

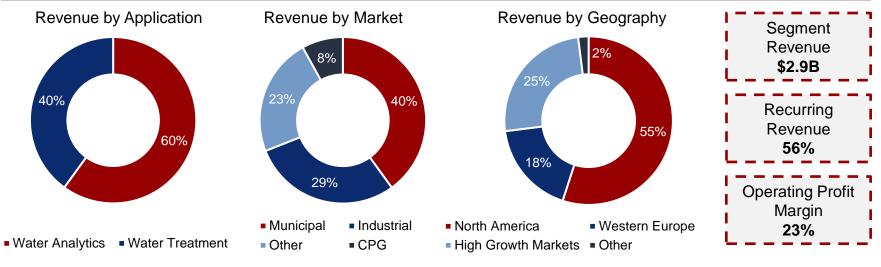
Water Treatment



 A leader in industrial water treatment in North America

ChemTreat • A global leader in UV disinfection & membrane filtration

Key Water Quality 2022 Revenue Breakdowns

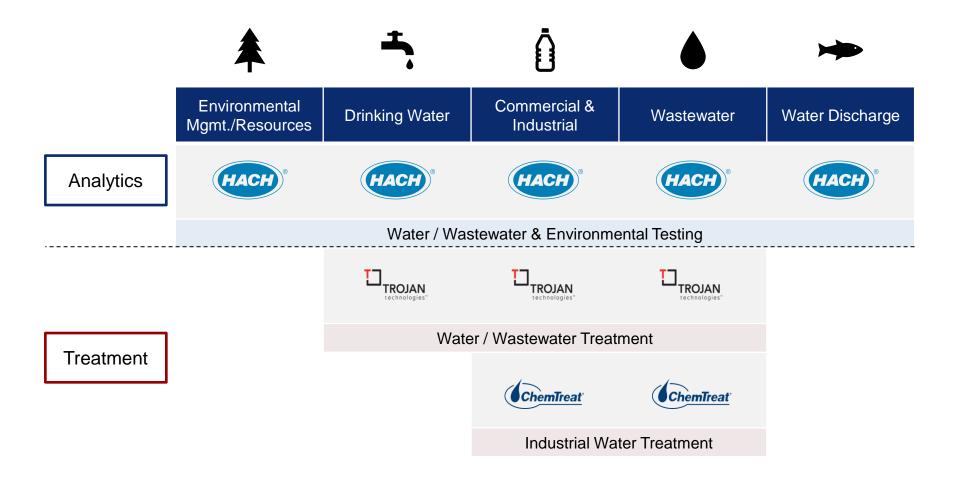


Source: Company filings

Water Quality

Veralto

Well-positioned in the most attractive areas of water quality



Water analytics and treatment solutions across the value chain

Source: Company filings

Strong Historical Growth

20-Year Growth Strategy

2002 Financials		2022 Financi	ials
 Revenue: \$0.5B Operating Profit Margin: ~17% 	~10% CAGR >20% ROIC	 Revenue: \$2.9B Adj. Operating Profit Marg 	gin: 23%
]	L	,
		BiéTector	AQUATIC Informatics
	ABIRD HEXT ADCON	aguasin: LPESA AppliT	ek
Pre-2002 2004 2006	2008 2010 2	2012 2014 2016	2022

Strong Position

HACH	ChemTreat	Veralto
2-4x consumable sales vs value of original equipment sale	2-10x cost of facility downtime versus cost of annual treatment	AAA MSCI ESG Rating

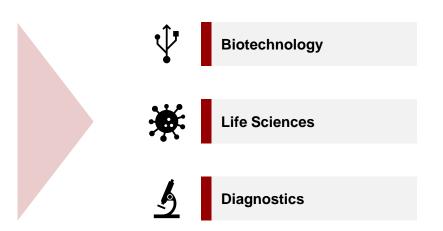
Durable business model with 56% recurring revenue

Source: Company filings

Veralto

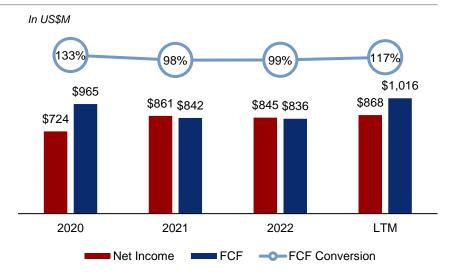
Danaher's Investment Thesis

- Acquisition Investment Thesis Holds
- Danaher prioritized M&A in Healthcare the last several years with very few deals in the EAS segment, now Veralto
- Strong Cash Flow Generation
- Experience management team
- Diversifying Danaher's portfolio of companies



Veralto's Potential

- Veralto has generated \$800-1,000 million of FCF annually for capital deployment
- FCF Conversion ~100% allowing for M&A opportunities
- Executive team has >100 years of combined Danaher experience and >50 for CEO and Water and Product; will ensure continuity of DBS operating principles optimized for new organizational structure
- Risk with a new team as only 60% from Danaher



Source: Company filings, DCM

Desautels Capital Management

Honours in Investment Management

Appendix

Section IIII

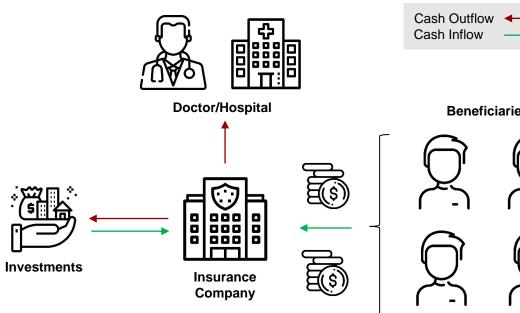






Business Model

Risk diversification forms the basis of the insurance business model

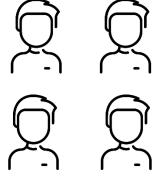


How do insurance companies assess risk?

By assessing the proportion of unhealthy people in the risk pool. The lower the risk, the lower the chance of making a potential payout to the beneficiary, and hence, lower the premiums.







Average Age: 65 vs 30



Key Principles

1 **Risk Diversification**

By charging a premium to several beneficiaries. the insurance company diversifies the already low risk of payout



Overcharging



Insurance will always be priced higher than needed to pay out due to overheads. SG&A, etc.

Investments

3

The premiums are invested mostly into safe assets such as bonds, and a small portion into riskier assets

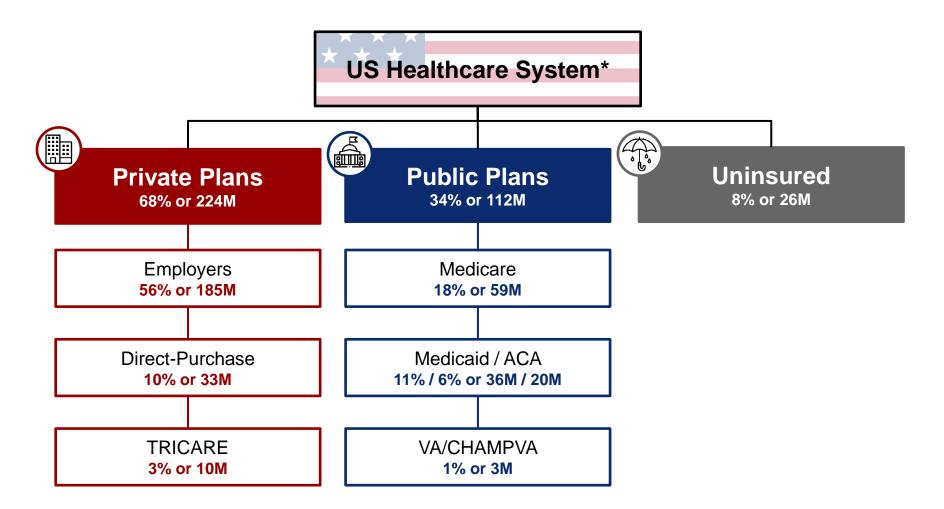


Insurance companies generate revenue through risk diversification and overcharging, investing the premiums to generate returns

Source: Investopedia, Thomson One



Breakdown by key payers (2019)



Source: U.S. Census Bureau *types of coverage are not mutually exclusive

Medicare

Medicare is divided into 4 parts, each with different benefits and structure

Eligibility Criteria



Individuals who are **65 years or older** are eligible for Medicare

Age



Individuals who become totally/ permanently disabled

Disability



End Stage Renal Disease (ESRD) or Amyotrophic Lateral Sclerosis (ALS) patients

Severe Diseases

Part A

Hospital/Hospice

- Covers inpatient hospital stays, skilled nursing and hospice benefits
- No monthly premiums; financed by 2.9% Medicare tax
- Inpatient deductible of \$1.4k and co-insurance ranges from \$350 to \$700 depending on length of stay
- Skilled nursing co-insurance ranges from \$0 to \$168, no costs for hospice benefits

Part D Prescription Drugs

- Covers self-administered prescription drugs
- Provided by private companies
- Each plan has a formulary which tiers drugs based on co-pay
- Medicare cannot negotiate drug prices with drug companies, causing drug prices to increase
 - causing drug prices to increase
- **PBM**'s negotiate drug prices





Part B Medical Insurance

- Covers a wide range of outpatient services and professionallyadministered prescription drugs
- Monthly premium of \$148.50, and additional surtax for higher income Annual deductible amount of \$203, and co-insurance is an 80/20 split

Part C Medicare Advantage

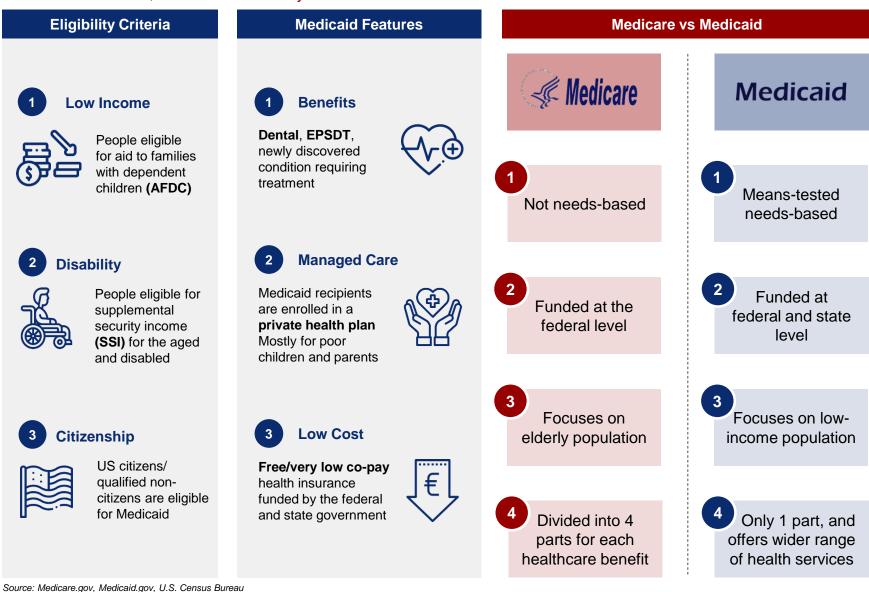
- Provides Medicare benefits through private insurer
- Premium paid for benefits in Part A, B and beyond (ex: dental, gym, annual physicals)
- Can create an OOP spending limit from \$1.5k to \$6.7k, but other restrictions also exist (need for a primary physician)



Source: Medicare.gov, U.S. Census Bureau

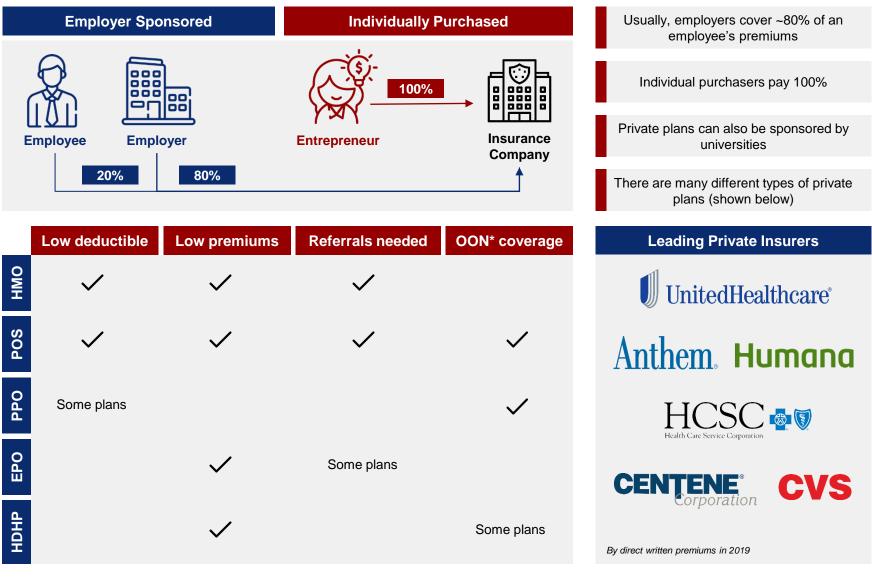
Medicaid

Medicaid ≠ Medicare, the former is for very low-income individuals



Private Plans

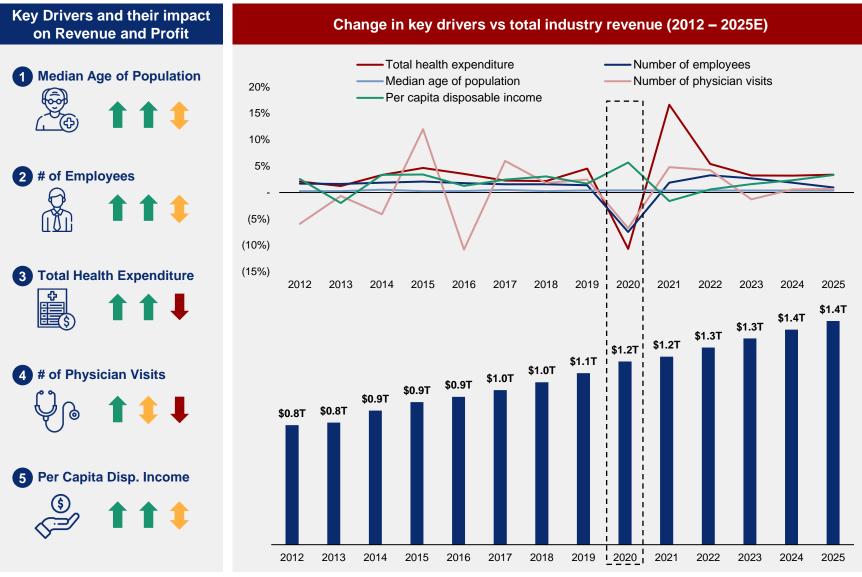
Private plans are mostly employer sponsored, and more beneficial than public options



Source: Aetna, Statista, Washington Post *Out-of-network

Key Drivers of Profit

2020 was a great year for insurance companies despite the negative impact on key drivers



Source: IBISWorld

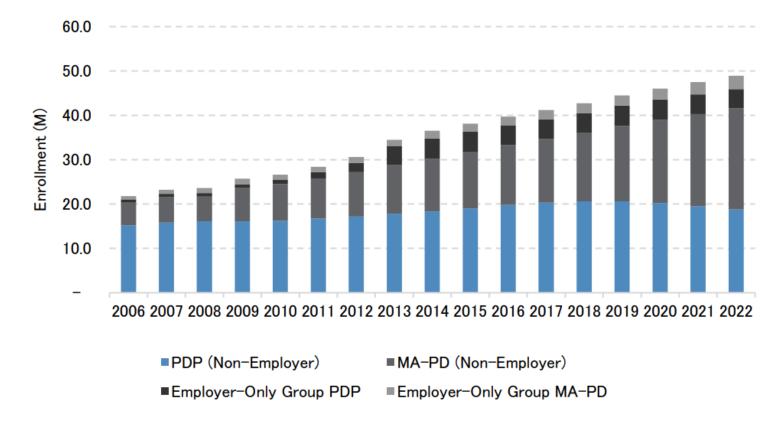


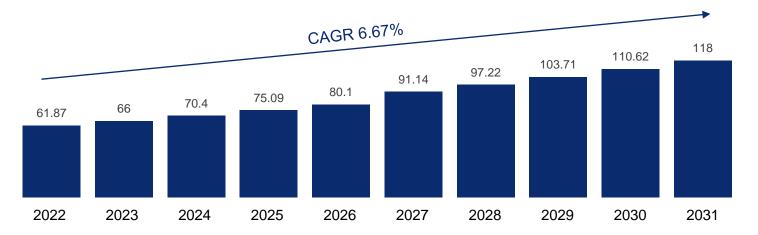
Figure 2: Medicare Part D enrollment by plan type

DESAUTELS Capital Management Gestion de capitaux

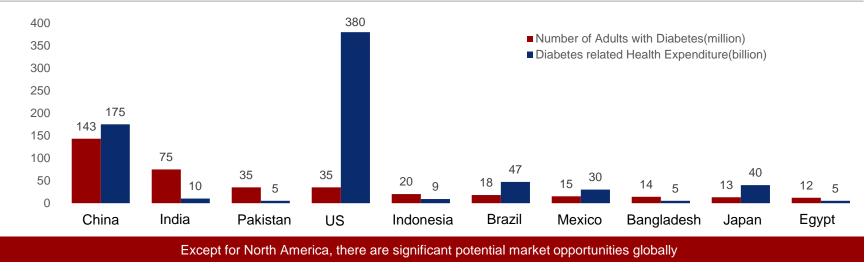
The global market of GLP-1

Global market is increasing, demand overweight the supply

Diabetes Drug Market Estimation(billion)

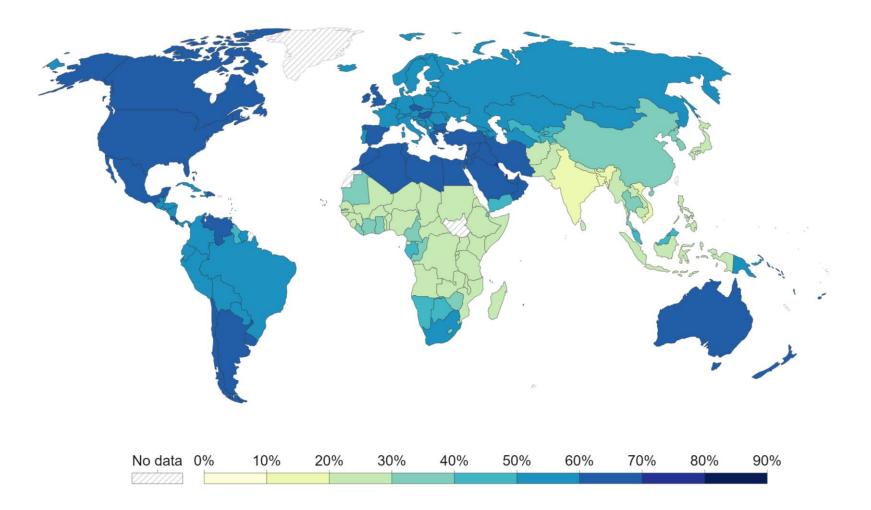


Key Water Top ten countries with Diabetes



Obesity rate globally

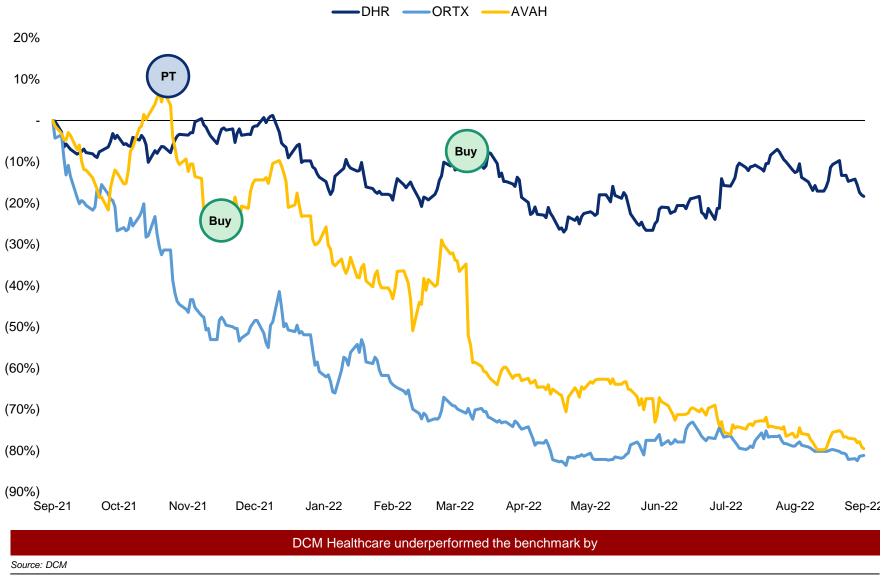
The hyperglycemic treatment is long-term and inevitable



The global incidence rate of diabetes continues to rise, and the hypoglycemic treatment has the attributes of long-term and immediate needs

LTM Sector Performance

DCM Healthcare returned xxx in 2021 compared to the benchmark return of xxx

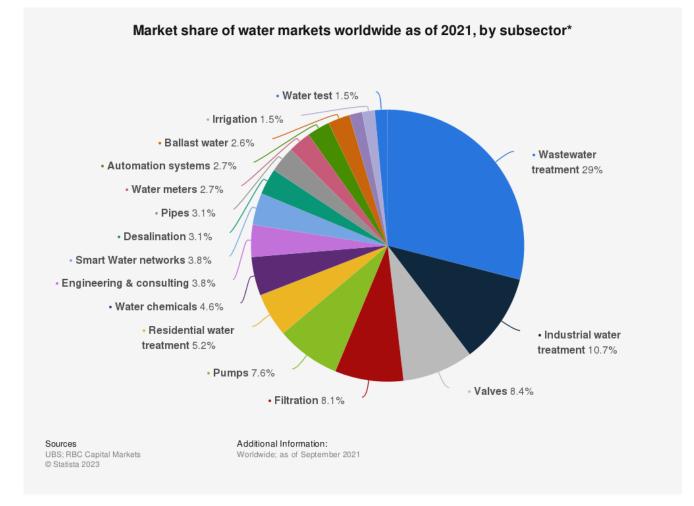


Appendix – Benchmark Analysis



Veralto







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