

US Healthcare Industry Investment Primer

August 29, 2020

About Us





About this Seminar



• Objective:

 Create a broad awareness of the US healthcare industry, key players, and equity (stock) investment opportunities.

• Exclusion:

- International, Biotech, Life sciences, Consumer tech
- Not about business ventures

• Agenda:

- Birds eye view
- Deep Dive
 - Payers
 - Providers
 - Pharmacy
 - Technology
- Trends: COVID-19
- Summary: Key success factors

Disclaimer:

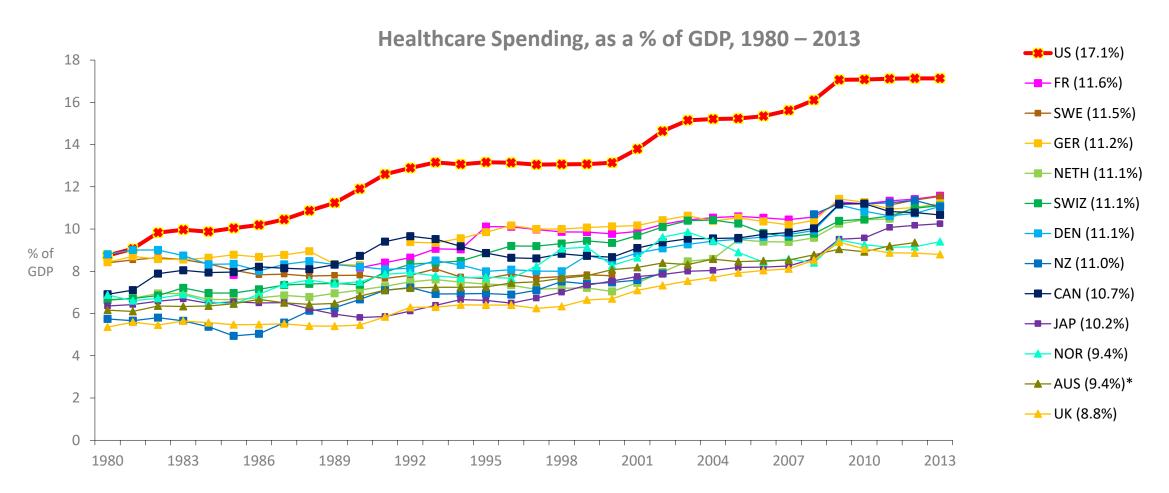
- To avoid any liability issues, this presentation is an informal, non-professional, individual investment analysis shared for information purposes.
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US Healthcare: Birds Eye View

US Healthcare Spend



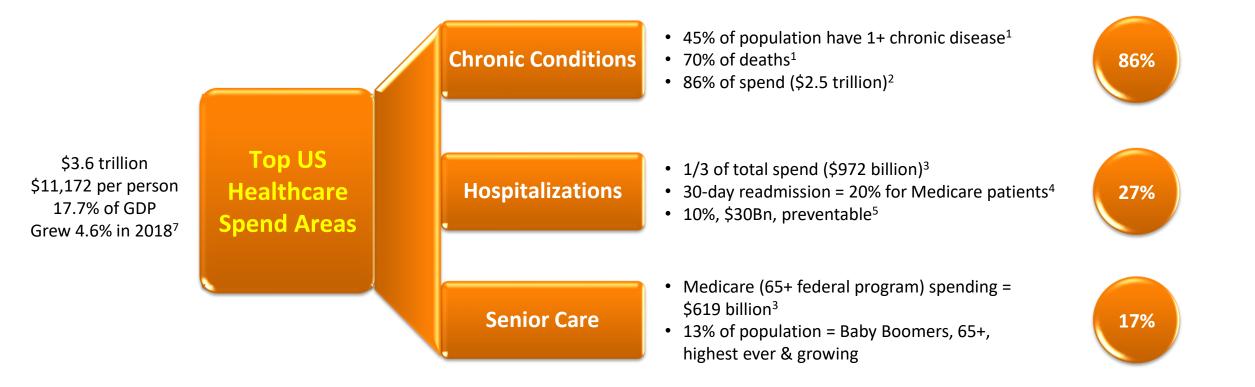
Twice the OECD average, growing at 5% a year, declining quality of health



Notes: GDP refers to gross domestic product. Dutch and Swiss data are for current spending only and exclude spending on capital formation of healthcare providers. Source: OECD Health Data 2015.

Where does the money go?



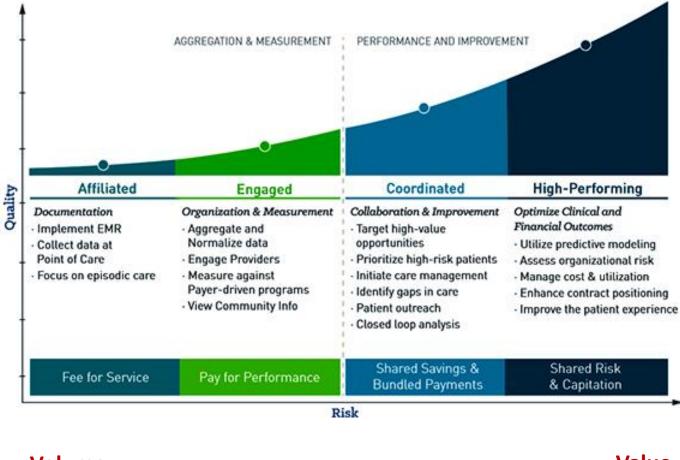


1 "The Growing Crisis of Chronic Disease in the United States", http://www.fightchronicdisease.org/sites/default/files/docs/GrowingCrisisofChronicDiseaseintheUSfactsheet_81009.pdf

- 2 "Chronic Disease Overview", http://www.cdc.gov/chronicdisease/overview/
- 3 "National Health Expenditures 2014 Highlights", https://www.cms.gov/research-statistics-data-and-systems/statistics-trends-and-reports/nationalhealthexpenddata/downloads/highlights.pdf
- 4 Data Shows Reduction in Medicare Hospital Readmission Rates During 2012, https://www.cms.gov/mmrr/Briefs/B2013/mmrr-2013-003-02-b01.html
- 5 http://healthaffairs.org/healthpolicybriefs/brief_pdfs/healthpolicybrief_102.pdf, https://www.hcup-us.ahrq.gov/reports/statbriefs/sb72.pdf
- 6 http://journalistsresource.org/studies/society/public-health/trends-statistics-relating-us-seniors-elderly-census-bureau-2014-report
- 7 https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/NationalHealthAccountsHistorical

So, what are we doing about it?



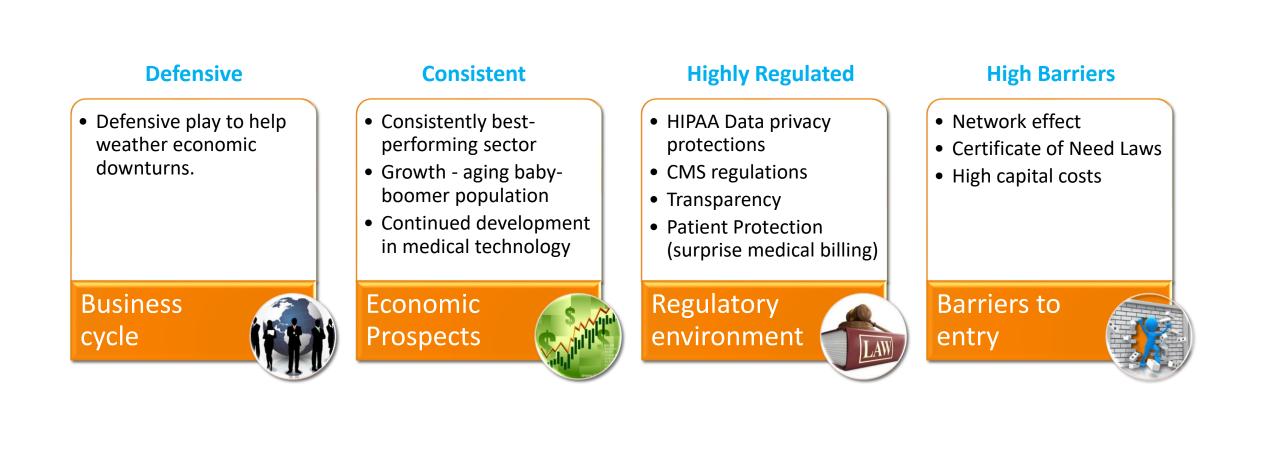


Volume Treatment



Sector Analysis - Health Care





Fundamental Analysis



Business Analysis:

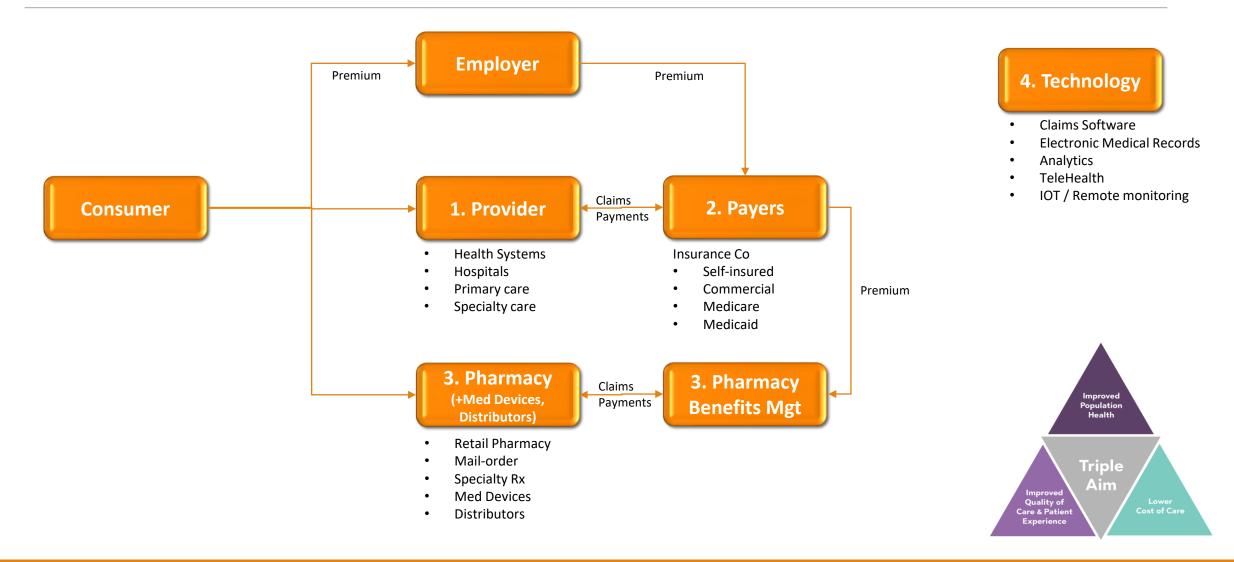
- Business model
- High quality financial reports
- Income statement
- Balance Sheet
- Cash flow statement
- Company's Earnings
- Unusual/extraordinary items

Financial Ratio Analysis:

<u>Category</u>	<u>Ratio</u>	<u>Measure</u>
Liquidity	Current Ratio	Measures Ability to meet Short term Obligation
Solvency	Debt to Equity	Measures ability to meet long term obligations
Valuation	Price to Earnings	Measures performance on a per share basis
Profitability	Gross Profit Margin	Measures profitability related to assets

US Healthcare Industry Overview



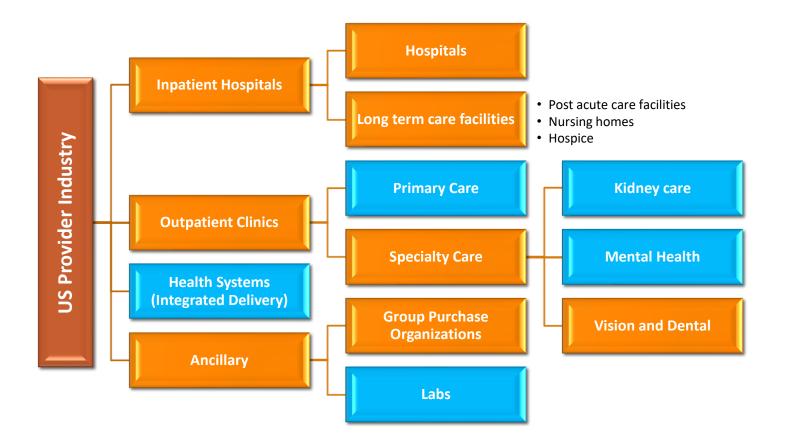


Section 1: Providers

Provide healthcare services.

Eg: hospitals, doctors, specialists, and everything in-between

Providing the healthcare services





- Health Systems
 - Hospital, Primary, Specialty, Post acute
 - Brand, Financial stability, ACO
 - Eg: Mayo Clinic, Partners Healthcare, Geisinger
- Labs:
 - 80Bn industry
 - Labs Labcorp and Quest command 15%, outside Hospitals (68%)
- Primary Care
 - Better health at lower cost
 - Not institutionalized
 - Direct primary care different model
 - Eg: One Medical, Oak St Health
- Kidney Care
 - ESRD need for ongoing dialysis
 - \$25Bn industry
 - Eg: Da Vita, Fresenius
- Mental Health
 - 20% of US: Depression, anxiety, SUD
 - Therapists not covered by insurance
 - Eg: AbleTo (acquired by Optum)

Financial Ratios - Providers



Name	Industry	Ticker	Stock Price	Market Cap (M)	Current Ratio	Debt / Equity	P/E	P/E (Fwd)	Gross Profit Margin	Revenue Growth	Comments
Mednax	Health System	NYSE:MD	19.31	1,617	1.79	219.8%	-1.32	14.19	24.2%	22.5%	NeoNatal Care.
НСА	Health System	NYSE:HCA	135.99	45,969	1.09	-1821.8%	13.56	12.65	36.8%	2.7%	Large Cap , High debt
Lab Corp	Lab	DB:LAB	174.85	14,527	1.12	96.8%	45.62	12.68	27.2%	1.6%	
Quest	Lab	NYSE:DGX	110.75	14,874	1.29	88.1%	21.22	13.93	34.2%	-0.5%	
One Medical	Primary Care	NASDAQGS:ON EM	29.14	3,678	7.50	76.5%	-37.26	-35.24	35.7%	28.1%	
Cardinal Health	Group Purchase Organization	NYSE:CAH	50.50	14,768	1.10	404.5%	-4.00	9.10	4.5%	5.1%	
McKesson	Group Purchase Organization	NYSE:MCK	153.87	24,956	1.00	173.7%	26.74	9.88	5.2%	6.2%	
DaVita	Kidney Care	NYSE:DVA	86.94	10,606	1.35	597.6%	12.99	12.80	31.0%	2.4%	37% market share. Executive order to shift dialysis patients from high-cost clinics to home care. Buffet investment.
Fresenius	Kidney Care	NYSE:FMS	42.25	24,694	1.01	111.1%	16.39	16.53	31.3%	7.2%	38% market share. German based. Executive order to shift dialysis patients from high-cost clinics to home care

New IPO: Oak St Health (Medicare)

Other Health Systems: Community Health Systems, Select Medical Holdings Corporation, Surgery Partners, Tenet Healthcare Corporation, Universal Health Services https://www.beckershospitalreview.com/hospital-management-administration/7-largest-group-purchasing-organizations-for-hospitals.html

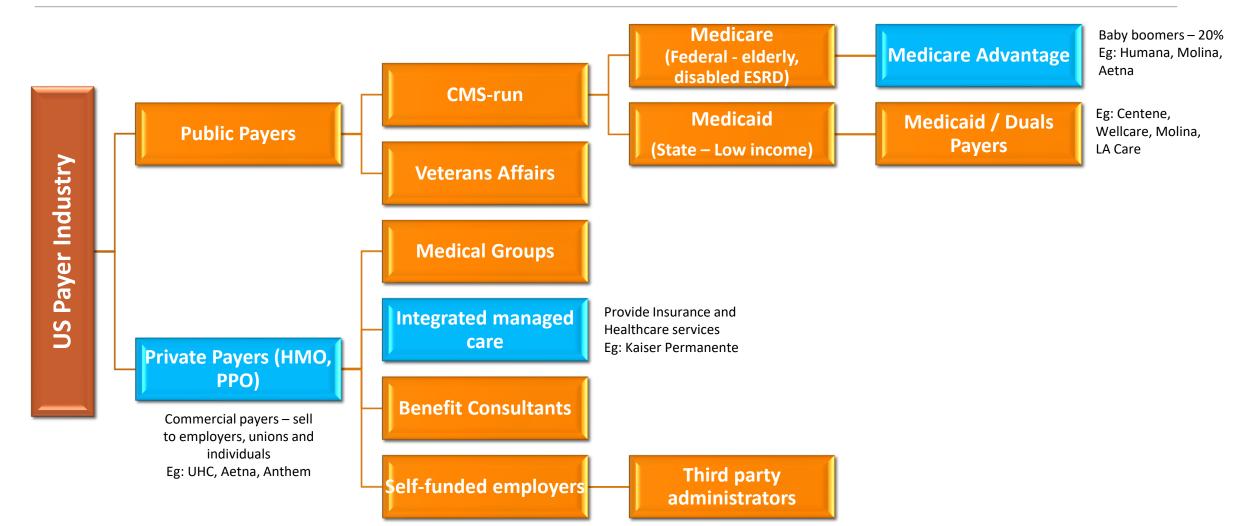
Section 2: Payers

Insurance companies

Business model: Manage healthcare risk. Profit from Premium vs claims.

Making healthcare affordable





Financial Ratios - Payers



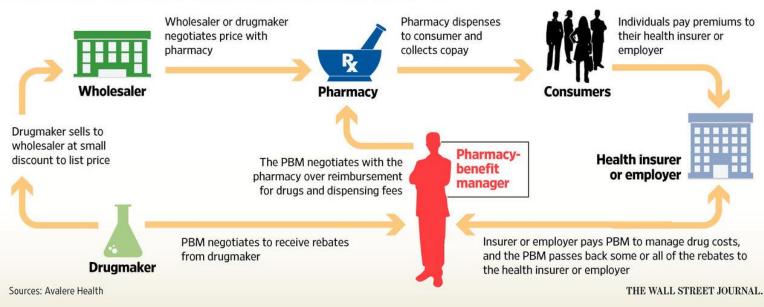
Name	Industry	Member ship (M)	Ticker	Stock Price	Market Cap (M)	Current Ratio	Debt / Equity	P/E	P/E (Fwd)	Gross Profit Margin	Revenue Growth	Comments
UnitedHealth Group	Commercial, Government	49.5	NYSE:UNH	314.37	298,757	0.79	72.4%	17.35	18.56	26.4%	5.1%	Optum – Healthcare Services/tech, OptumRx (PBM)
Anthem	Commercial, Government	40.2	NYSE:ANTM	277.28	69,738	1.64	68.5%	11.75	12.29	26.4%	16.8%	Anthem acquired WellPoint
CVS Health (Aetna)	Commercial, Government	22.2	NYSE:CVS	63.21	82,723	0.98	135.3%	10.02	8.79	18.2%	16.3%	CVS (Pharmacy) acquired Aetna (Payor)
Cigna	Commercial, Government	17	NYSE:CI	181.15	66,518	0.83	78.5%	12.38	9.47	16.2%	50.8%	Acquired ESI (PBM), which acquired Medco (PBM)
Centene	Government	23	NYSE:CNC	60.48	35,046	1.22	71.2%	22.64	12.32	17.5%	32.1%	Centene acquired Wellcare
Humana	Government	16.6	NYSE:HUM	408.04	53,981	1.69	56.1%	15.41	21.66	19.4%	16.2%	
Molina Healthcare	Government	3.3	NYSE:MOH	183.82	10,901	1.88	102.3%	13.56	15.25	15.4%	-0.3%	Recent exits of CEO and CFO.

Section 3: Pharmacy and Medical Devices

Pharmacy

A complex supply chain determines how prescription drugs are paid for in the U.S.

How Drug Distribution Works



Related industries:

- Medical devices (eg: Medtronics)
- Distributors (eg: AmeriSource Bergen)
- Mail Order pharmacies (eg: GoodRx, Walmart)
- Specialty Pharmacies (CVS, Walgreens)



Financial Ratios - Pharmacy & Med Devices



Name	Industry	Ticker	Stock Price	Market Cap (M)	Current Ratio	Debt / Equity	P/E	P/E (Fwd)	Gross Profit Margin	Revenue Growth	Comments
CVS Health	Insurance, Pharmacy, Provider, PBM	NYSE:CVS	63.21	82,723	0.98	135.3%	10.02	8.79	18.2%	16.3%	CVS (Retail Pharmacy) acquired Caremark (PBM), Aetna (Payor)
Walgreens Boots Alliance	Pharmacy, PBM, Provider	NASDAQGS:W BA	38.76	33,587	0.69	201.5%	44.09	8.33	20.5%	1.8%	Acquired Boots Alliance (UK)
UnitedHealth	Insurance, Provider, PBM, Health care services, Analytics	NYSE:UNH	314.37	298,757	0.79	72.4%	17.35	18.56	26.4%	5.1%	Optum – Healthcare Services/tech, OptumRx (PBM)
Cigna	Insurance, PBM	NYSE:CI	181.15	66,518	0.83	78.5%	12.38	9.47	16.2%	50.8%	Acquired ESI (PBM), which acquired Medco (PBM)
Medtronic	Medical devices	NYSE:MDT	107.86	144,887	1.87	54.1%	28.78	27.46	66.3%	-8.9%	
AmerisourceBergen	Drug distribution	NYSE:ABC	97.55	19,914	0.98	120.9%	12.68	12.26	2.7%	5.1%	

Section 4: Healthcare Tech

Healthcare Tech - Traditional



• Claims Software:

- Used by insurance companies
- Cognizant acquired TriZetto, which owns Facets, QNXT contribute to 80% of market share.
- Health Edge
- Electronic Medical Records System (EMR):
 - EPIC, All scripts, Cerner, Nextgen, eClinicalWorks, Athena, Kareo
 - Epic (Private) holds 28% market share of US hospital industry. Monop
 - Upcoming vendors: Kareo (Private), Elation (Private).

• Interoperability:

- Ability to exchange info between systems. Continuity of care.
- Eg: Salesforce acquired Mulesoft, Redox Engine (Private), Bridge Connector (Private)
- Analytics:
 - Population health, predictive analytics, risk stratification
 - Eg: Health Catalyst







Healthcare Analytics Adoption Model

Level 8	Personalized Medicine & Prescriptive Analytics	
Level 7	Clinical Risk Intervention & Predictive Analytics	
Level 6	Population Health Management & Suggestive Analytics	
Level 5	Waste & Care Variability Reduction	

Healthcare Tech - Innovation



Mobility

- Consumerism: appt scheduling, meds, education
- Eg: Spruce, CirrusMD, Wellframe, Welltok

• Tele visit

- Video visit with provider, On demand healthare
- Eg: TeleDoc, Amwell, DrOnDemand, 98point6

Remote Monitoring

- IOT, Chronic condition management
- Eg: Livongo, Vivify, Amada





By 2018, the worldwide market for mobile health technology will reach \$11.8 billion in comparison to just \$1.2 billion in 2011



Connected Devices BP, weight, blood glucose, pulse

Financial Ratios – Health Care tech



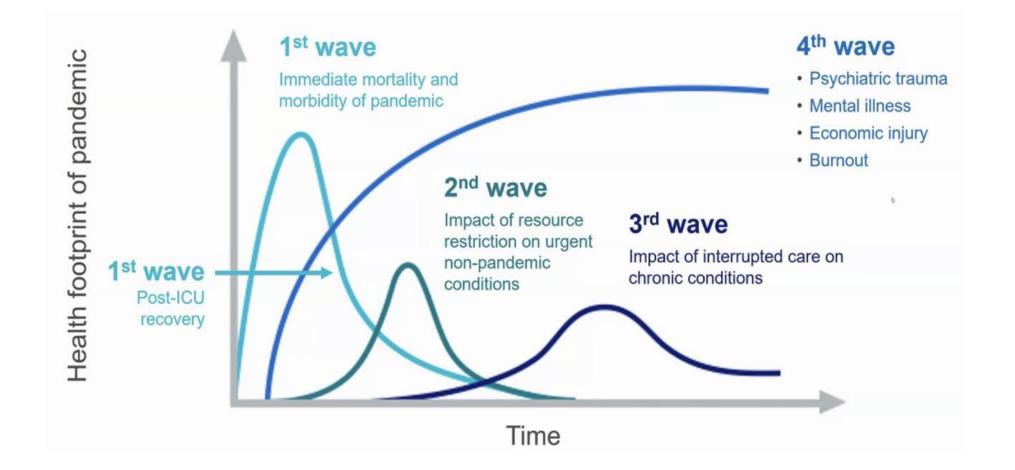
Name	Industry	Ticker	Stock Price	Market Cap (M)	Current Ratio	Debt / Equity	P/E	P/E (Fwd)	Gross Profit Margin	Revenue Growth	Comments
Cerner	Provider software (EMR)	NASDAQGS:CERN	72.80	22,232	2.04	37.7%	42.07	25.26	81.9%	1.6%	Has some primary care clinics
Cognizant	Claims Mgt, IT Services	NASDAQGS:CTSH	67.69	36,704	2.66	31.6%	22.68	19.02	35.8%	1.8%	New CEO; Sr mgt exit Claims software; IT services
Health Catalyst	Analytics	NASDAQGS:HCAT	30.59	1,215	7.91	76.7%	-12.46	-41.90	48.9%	21.5%	SaaS
Livongo	Remote monitoring	NASDAQGS:LVGO	132.96	13,337	19.88	71.8%	-386.76	2130.11	75.2%	128.3%	
Teladoc	Tele Medicine	NYSE:TDOC	208.57	16,942	11.36	75.8%	-181.90	-153.31	63.5%	45.4%	Teladoc acquired Livongo
Nuance	Communications	NASDAQGS:NUAN	29.67	8,376	1.28	144.0%	46.24	34.60	60.6%	12.5%	

Other Companies: All scripts , Health Equity, Accolade, Inovalan, HMS, Amwell

Section 5: Healthcare Trends

COVID-19





Impact of COVID-19 on Healthcare Industry

Hospital Systems are in the red

- Elective procedures postponed (50% of inpatient surgeries and 80% of outpatient procedures)
- Job losses employer-sponsored coverage to Medicaid, insurance exchanges, or self-pay.

• High growth of Virtual care

Video visits and Remote monitoring (Zoom, TeleDoc, Livongo)

• Subscription business persists

- Business that relied on Fee for service (volume) are impacted.
- Businesses with Subscription (Per member per month) fee saw minimal impact

Summary: Key Success Factors



- Business Model
 - Subscription revenue (not Fee-for-service)
- Technology
 - Digital Experience (Mobility, Virtual Care, Remote monitoring)
- Focus areas
 - Medicare
 - Chronic condition management (Kidney, Diabetes, Mental Health)
- Financial ratios
 - Revenue growth
 - Gross profit margin > 40%, Net profit margin > 20%
 - Debt equity ratio < 100%
 - Low P/E

Thank You