



Disease & Illness Is Big Business



90% of the nation's \$3.8 trillion in annual health care expenditures are for people with chronic and mental health conditions.



https://www.cdc.gov/chronicdisease/about/costs/index.htm

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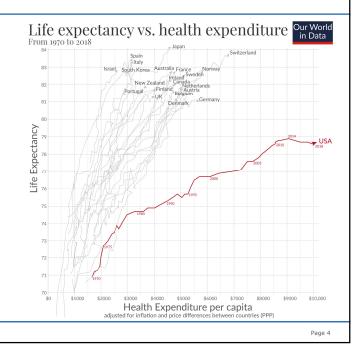
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We Have A Systemic Problem

- The U.S. spends nearly twice as much as the average OECD country — yet has the lowest life expectancy
- The U.S. has the highest chronic disease burden and an obesity rate that is two times higher than the OECD average
- Americans had fewer physician visits than peers in most countries
- Americans use expensive technologies, such as MRIs, and specialized procedures
- Compared to peer nations, the U.S. has among the highest number of hospitalizations from preventable causes and the highest rate of avoidable deaths



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		AGE GROUPS										
2019 US 10 Leading	Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
Causes of Death by Age Group	1	Congenital Anomalies 4,301	Unintentional Injury 1,149	Unintentional Injury 714	Unintentional Injury 778	Unintentional Injury 11,755	Unintentional Injury 24,516	Unintentional Injury 24,070			Heart Disease 531,583	Heart Disease 659,041
	2	Short Gestation 3,445	Congenital Anomalies 416		Suicide 534	Suicide 5,954	Suicide 8,059		Heart Disease 31,138	Heart Disease 80,837	Malignant Neoplasms 435,462	
Total number of COVID United	3	Unintentional Injury 1,149		Congenital Anomalies 192	Malignant Neoplasms 404	Homicide 4,774	Homicide 5,341	Heart Disease 10,499	Unintentional Injury 23,359	Unintentional Injury 24,892	Chronic Low Respiratory Disease 133,246	Unintentional Injury 173,040
States (through January 14, 2022):	4	SIDS 1,248	Homicide 284	Homicide 155	Homicide 191	Malignant Neoplasms 1,388	Malignant Neoplasms 3,577	Suicide 7,525	Liver Disease 8,098	Chronic Low Respiratory Disease 18,743	Cerebro- vascular 129,193	Chronic Low Respiratory Disease 156,979
Cases 64,285,467	5	Maternal Pregnancy Comp. 1,245	Heart Disease 133	Heart Disease 91	Congenital Anomalies 189	Heart Disease 872	Heart Disease 3,495	Homicide 3,446	Suicide 8,012	Diabetes Mellitus 15,508	Alzheimer's Disease 120,090	Chronic Low Respiratory Disease 150,005
Admissions 3,941,648	6	Placenta Cord Membranes 742	Influenza & Pneumonia 122	Chronic Low Respiratory Disease 69	Heart Disease 87	Congenital Anomalies 390	Liver Disease 1,112	Liver Disease 3,417	Diabetes Mellitus 6,348	Liver Disease 14,385	Diabetes Mellitus 62,397	Alzheimer's Disease 121,489
	7	Bacterial Sepsis 603	Perinatal Period 57	Influenza & Pneumonia 52	Chronic Low Respiratory Disease 81	Diabetes Mellitus 248	Diabetes Mellitus 887	Diabetes Mellitus 2,228	Cerebro- vascular 5,153	Cerebro- vascular 12,931	Unintentional Injury 60,527	Diabetes Mellitus 87,647
COVID Deaths 844,841	8	Respiratory Distress 424	Septicemia 53	Cerebro- vascular 37	Influenza & Pneumonia 71	Influenza & Pneumonia 175	Cerebro- vascular 585	Cerebro- vascular 1,741	Chronic Low Respiratory Disease 3,592	Suicide 8,238	Nephritis 42,230	Nephritis 51,565
General excess	9	Circulatory System Disease 406	Cerebro- vascular 52	Septicemia 36	Cerebro- vascular 48	Chronic Low Respiratory Disease 168	Complicated Pregnancy 532	Influenza & Pneumonia 951	Nephritis 2,269	Nephritis 5,857	Influenza & Pneumonia 40,399	Influenza & Pneumonia 40,399
deaths 952,707	10	Necrotizing Enterocolitis 354	Benign Neoplasms 49	Benign Neoplasms 31	Benign Neoplasms 35	Cerebro- vascular 158	HIV 486	Septicemia 812	Septicemia 2,176	Septicemia 5,672	Parkinson's Disease 34,435	Suicide 47,511
COVID DEATH TOTAL (2021) ALL CAUSE DEATH TOTAL (2021)		124	53	1	51	1,534	6,517	16,408	37,695	76,062	308,278	446,824
		18,379	3,562	5,1	618	36,736	78,827	119,584	207,570	460,366	2,420,609	3,351,251

Crisis Can Bring Rapid	Change	S			
Pandemic	% of population	Death toll (Millions)	Population Billions	Year of Pop. Est.	
BLACK DEATH	51%	200	0.39	1300¹	
PLAGUE OF JUSTINIAN	19%	40	0.21	500	
SMALL POX	12%	56	0.46	1500	
ANTONINE PLAGUE	2.6%	5	0.20	200	
SPANISH FLU	2.5%	45	1.82	1919	
THE THIRD PLAGUE	1.0%	12	1.26	1850	
HIV/AIDS	0.7%	30	4.46	1981	
COVID-19	0.07%	5.5	7.90	2022 (January)	
SOURCE: CDC, WHO, BBC, Wikipedia, Historical records, Encyclopaedia Br	itannica, Our world in data	a			
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Improvements In Disease & Illness Have Come From Public Health

- Vaccination
- · Motor-vehicle safety
- · Safer workplaces
- · Control of infectious diseases
- · Decline in deaths from coronary heart disease and stroke
- · Safer and healthier foods
- · Healthier mothers and babies
- · Family planning
- · Fluoridation of drinking water
- · Recognition of tobacco use as a health hazard

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Agenda

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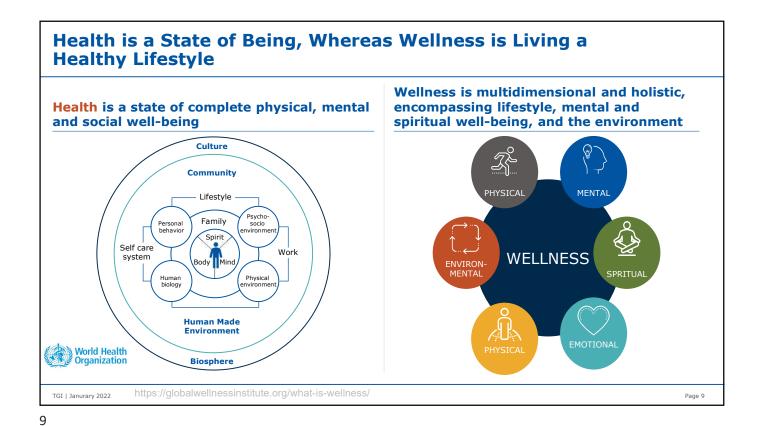
Disease & Illness

Health & Wellness

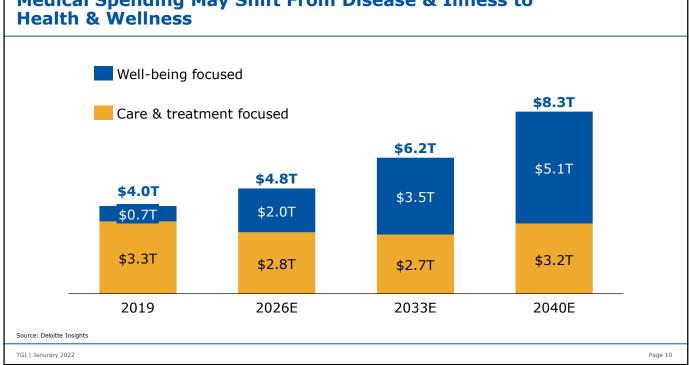
Business Models

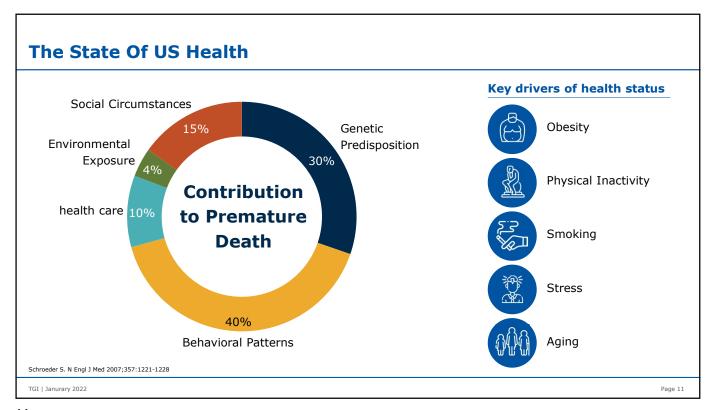
Next Steps

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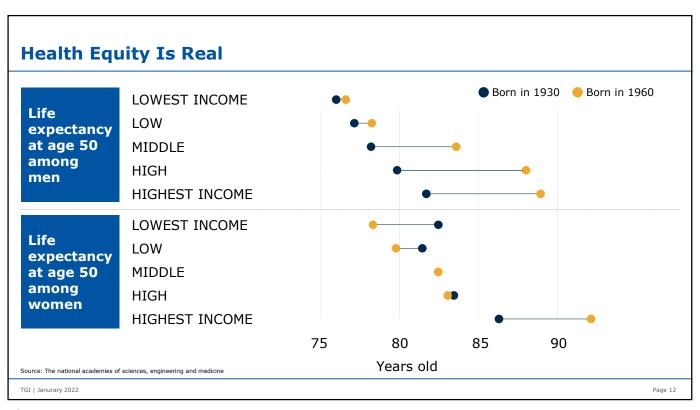


Medical Spending May Shift From Disease & Illness to









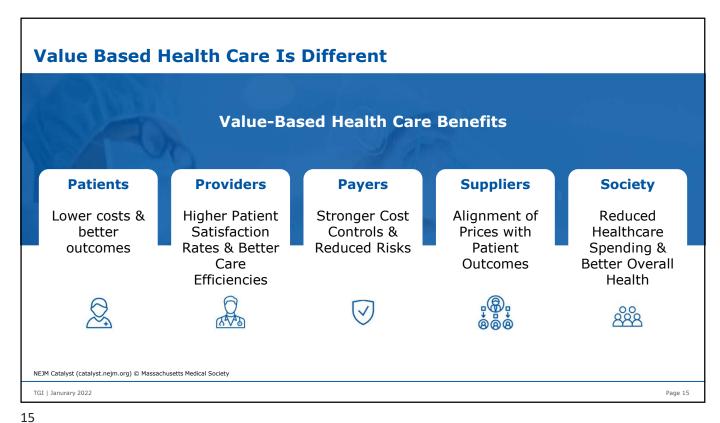
Adverse Childhood Experiences Matter ACE-related odds of having a physical **Neglect Household Dysfunction Abuse** health condition 2 4+ Health condition ACEs ACEs ACEs ACEs 100% 130% 145% 155% Physical Physical Mental Illness Incarcerated Asthma 100% 115% 118% 160% **231%** Relative Cancer 100% 112% 101% 111% 157% COPD 100% 120% 161% 220% 399% Diabetes 100% 128% 132% 115% **201%** Emotional Emotional Mother treated Substance Heart Attack 100% 148% 144% 287% 232% violently Abuse Heart Disease 100% 123% 149% 250% 285% Kidney Disease 100% 83% 164% 179% **263%** 100% 114% 117% 180% **281%** Stroke Sexual Divorce Vision 100% 167% 181% 199% **354%**

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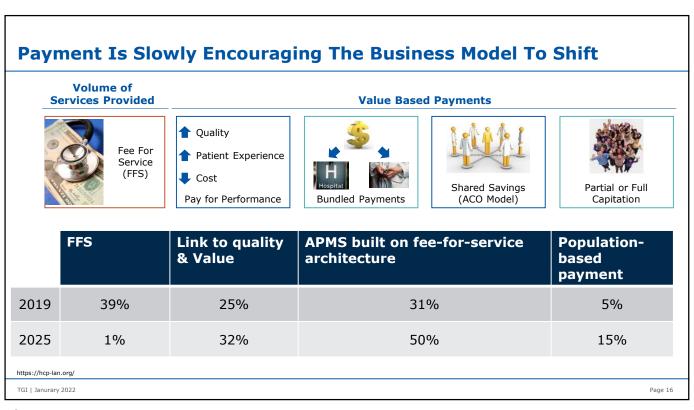
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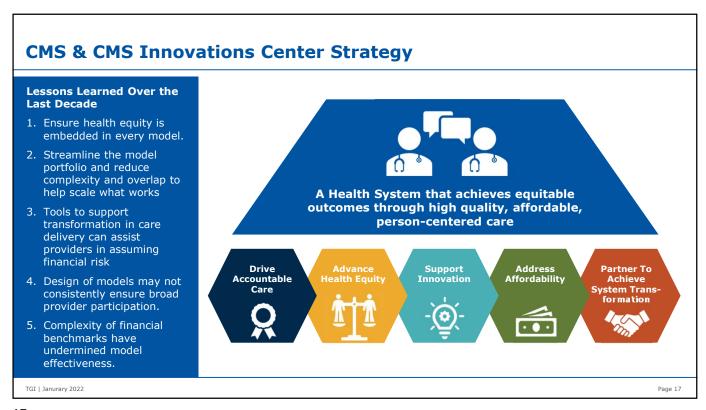
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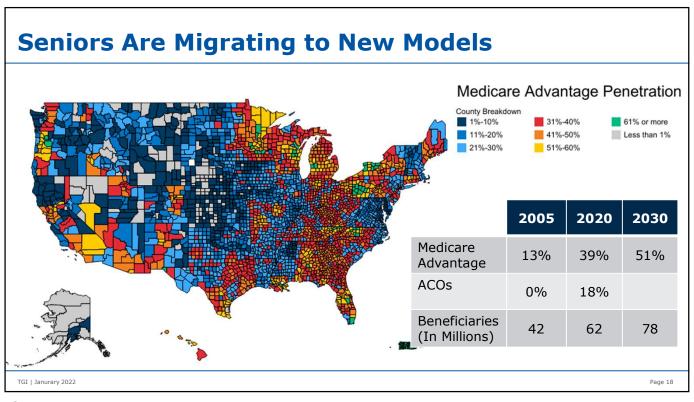


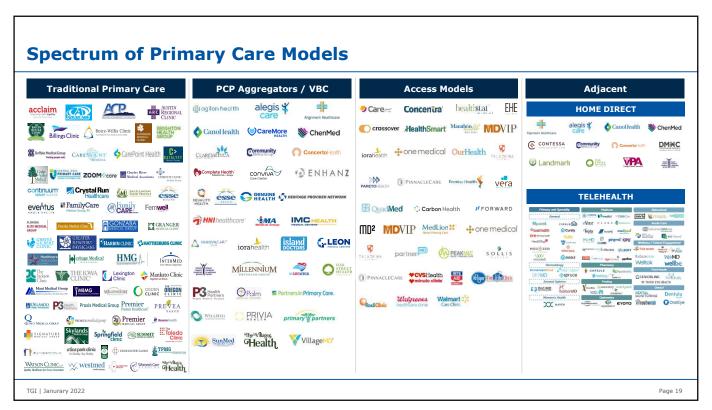


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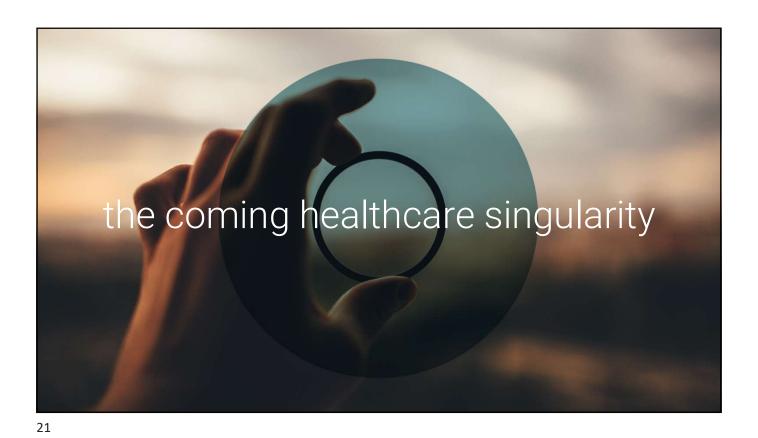


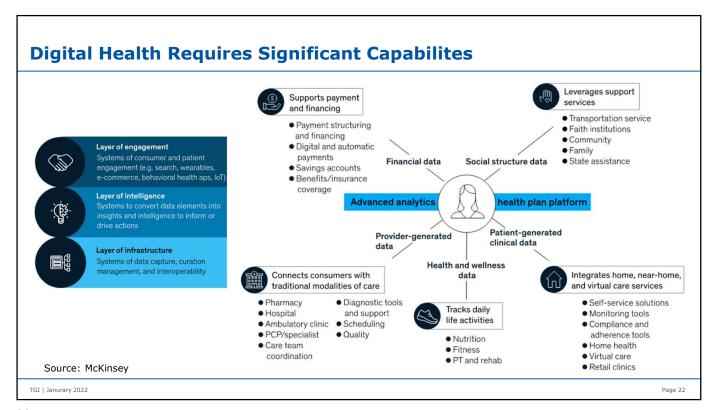




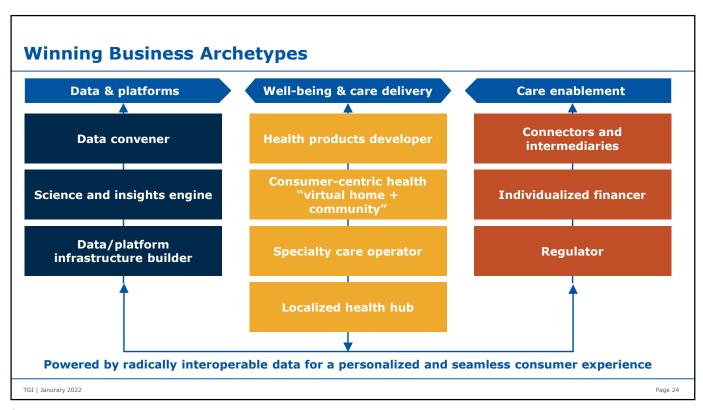












Entities		Type of entity	Est. # of patients	Valuation	\$/Person
Oak Street Medical	OAK STREET HEALTH	PCP Group	90,000	\$13B	\$196,000
Agilon Health	ుస్టో agilon health	PCP MSO	170,000	\$11.4B	\$67,000
Clover Health	Clover Health	MA Insurer	57,000	\$3.5B	\$61,000
Alignment Health	Alignment Healthcare	MA Insurer	81,000	\$4.2B	\$52,000
Iora Health	iora health	PCP Group	38,000	\$2.1B	\$55,000
Village MD	VillageMD	ACO PCP Company	500,000	\$10 Billion - Target	\$20,000
Devoted Health	■ Devoted Health	MA Insurer	17,000	\$3B	\$176,000
CANO Health	CanoHealth	PCP Group & MSO	103,000	\$4.4B	\$43,000
Bright Health	Bright Health Group	Insurer	220,000	\$11.3B	\$51,000

Digital Transforms Business In Ways That Seem Imposible

Why Cambridge Analytica



Starting from Scratch

When we started on the campaign (second week of June) the Trump Campaign had no speakable data infrastructure.

- No database of record
- · Many disparate data sources
- · No data science program (models)
- · No proper digital marketing apparatus
- Research being done by up to 5 pollsters at one point

Any most importantly: No unifying data, digital and tech strategy.



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