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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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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

Organization for Economic Co-operation and Development (OECD)



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019 US 10 Leading	Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
auses of Death by ge 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
, go o. oup	2	Short Gestation 3,445	Congenital Anomalies 416		Suicide 534	Suicide 5,954	Suicide 8,059		Heart Disease 31,138	Heart Disease 80,837		
otal number of OVID United	3	Unintentional Injury 1,149	Malignant Neoplasms 285	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 ebruary 10, 2022):	4	SIDS 1,248	Homicide 284	Homicide 155	Homicide 191			Suicide 7,525	Liver Disease 8,098	Chronic Low Respiratory Disease 18,743	Cerebro- vascular 129,193	Chronic Low Respiratory Disease 156,979
Cases 75,605,991	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
dmissions	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
,317,927	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
OVID Deaths 92,442	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
eaths 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)		124	53	1	51	1,534	6,517	16,408	37,695	76,062	308,278	446,824
ALL CAUSE DEATH TOTAL (20	21)	18,379	3,562	5,6	518	36,736	78,827	119,584	207,570	460,366	2,420,609	3,351,251
POPULATION (2020)		3,745,000	15,713,000	42,25	7,000	43,165,000	45,866,000	42,935,000	41,356,000	43,259,000	54,303,000	332,601,000

COVID Has Been Devastating To Some Age Groups

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Crisis Can Bring Rapid Changes

Pandemic	% of population	Death toll (Millions)	Population Billions	Year of Pop. Est.
BLACK DEATH	51%	200	0.39	1300 ¹
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	3		
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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

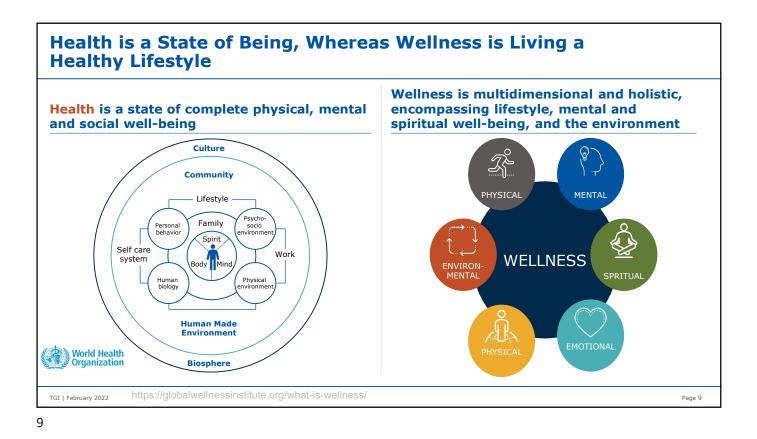
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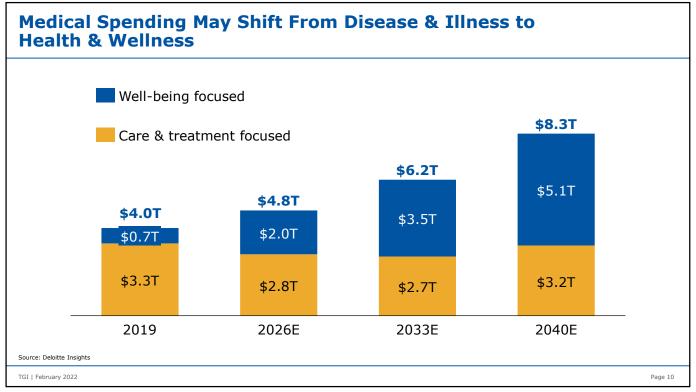
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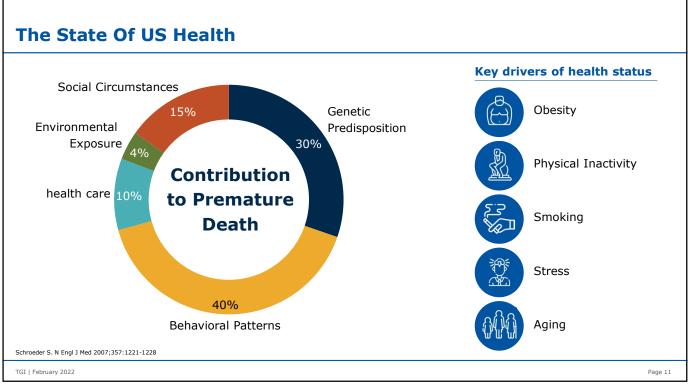
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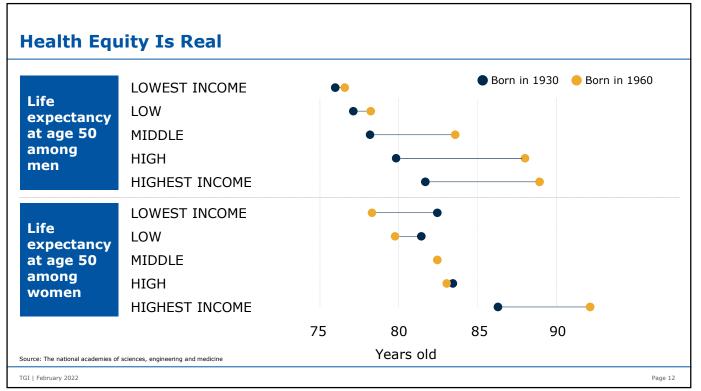


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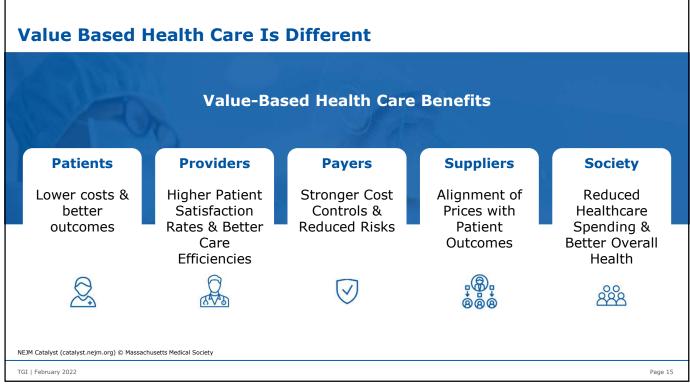
Abuse	Neglect	Household Dysfunction		ACE-related odds of having a physical health condition					
				Health condition	0 ACEs	1 ACEs	2 ACEs	3 ACEs	4+ ACEs
D	020	5 1		Arthritis	100%	130%	145%	155%	236%
Physical	Physical	Mental Illness	Incarcerated Relative	Asthma	100%	115%	118%	160%	231%
\frown	\frown			Cancer	100%	112%	101%	111%	157%
				COPD	100%	120%	161%	220%	399 %
0	VARU	639		Diabetes	100%	128%	132%	115%	201 %
Emotional	Emotional	Mother treated violently	Substance Abuse	Heart Attack	100%	148%	144%	287%	232%
\bigcirc				Heart Disease	100%	123%	149%	250%	285%
				Kidney Disease	100%	83%	164%	179%	263%
\smile		US		Stroke	100%	114%	117%	180%	281 %
Sexual		Divorce		Vision	100%	167%	181%	199%	354%
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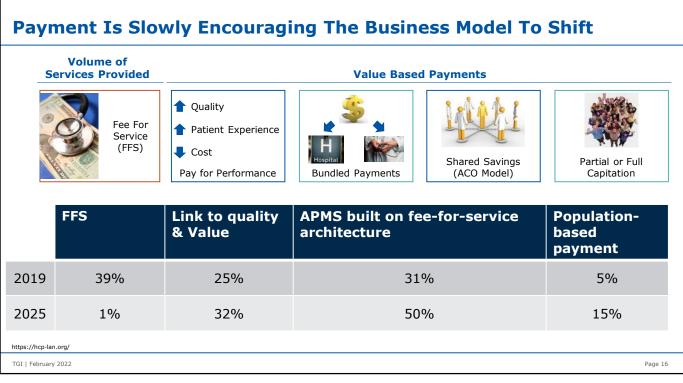
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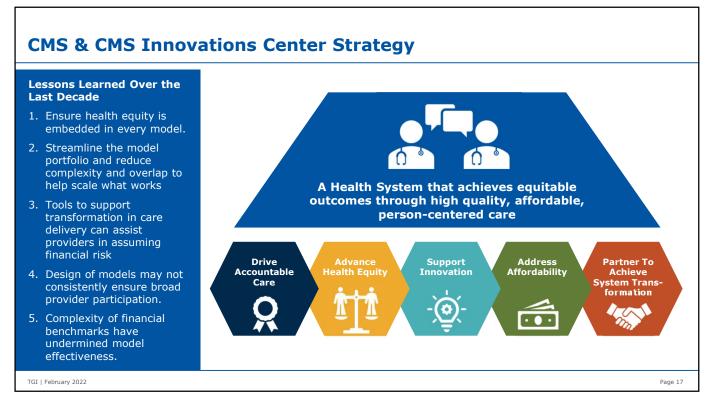
Childhood Experiences Matter

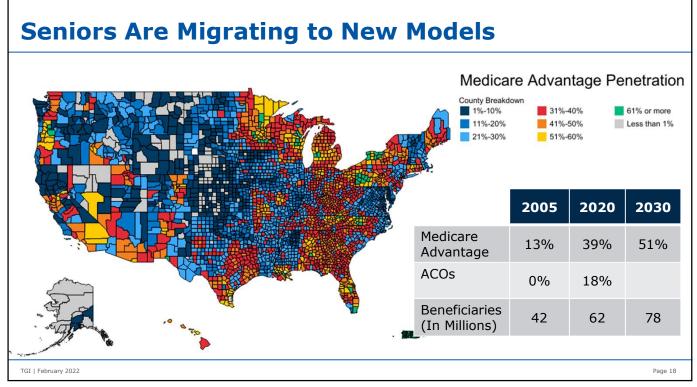






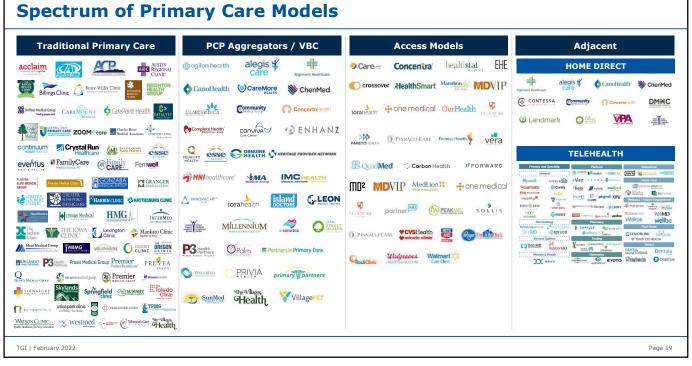
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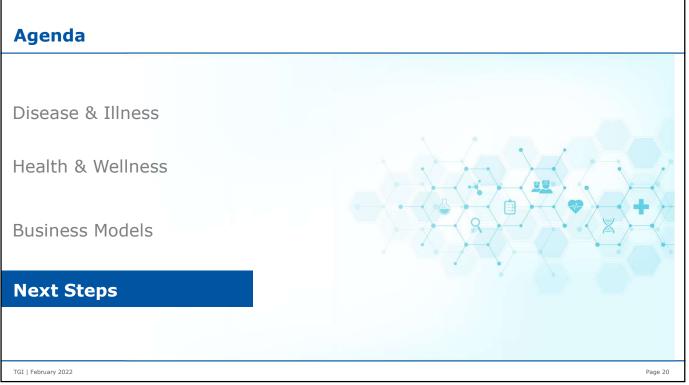




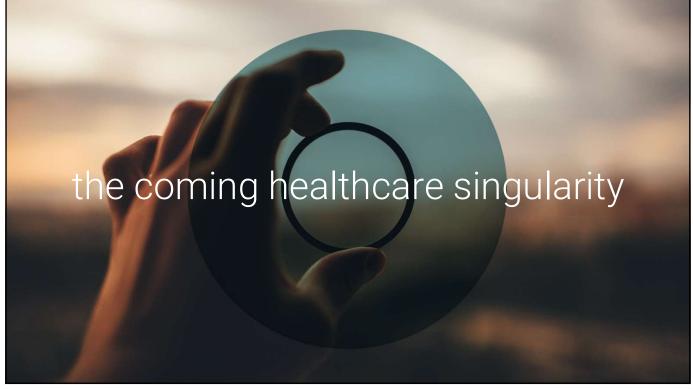
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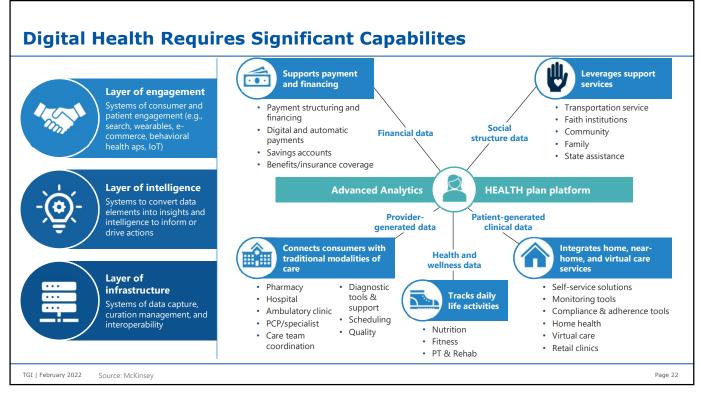
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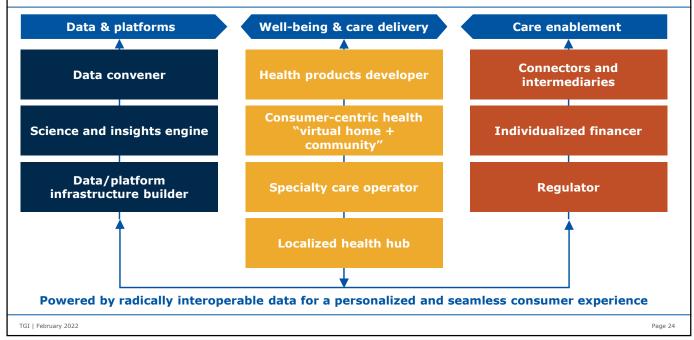




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Winning Business Archetypes



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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	s‰ 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	iorahealth	PCP Group	38,000	\$2.1B	\$55,000
Village MD	VillageMD	ACO PCP Company	500,000	\$10 Billion - Target	\$20,000
Devoted Health	d 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
https://www.healthaffairs.org/do/	10.1377/hblog20210927.6239/full/				

Digital Transforms Business In Ways That Seem Imposible

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