

The State of the Healthcare Industry in 2024

This year's impact on health systems and what executives need to know

Where the healthcare industry is headed in 2024

Industry snapshot

A moment of instability

- Poor outlook for patient health and industry performance
- Challenging business operating environment

2

Purchaser disruption

Government-led scrutiny

- Overall public coverage growth despite Medicaid whiplash
- Tightening Medicare Advantage (MA) business model
- Employer coverage balancing act harder with fiduciary rules
- Sweeping policy changes to pharmaceutical businesses

?

TODAY'S QUESTION

How will the industry prepare versus react?

3

Strategic paradigms

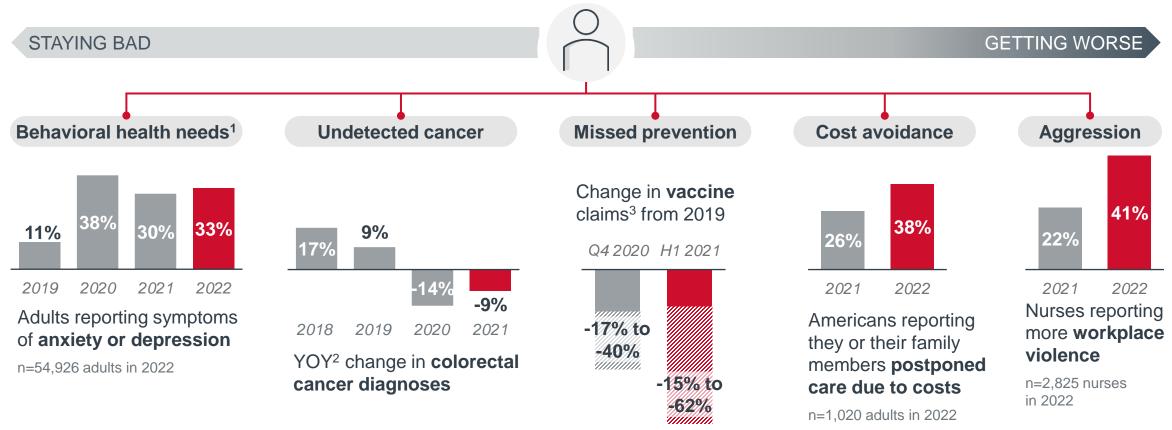
The future of long-standing shifts

- A. Delivery infrastructure will evolve into ecosystems focus
- B. Care team roles will shift with new tech capabilities
- **C. Treatment economics** will adapt to high-cost drugs



The patients are not alright

Characteristics of the patient emerging from the pandemic era



Source: "Declines in Routine Adult and Teen Vaccinations Continued in 2021," Avalere Health, January 2022; "Updated Analysis Finds Sustained Drop in Routine Vaccines Through 2020," Avalere Health, June 2021; "Record High in U.S. Put Off Medical Care Due to Cost in 2022," Gallup, January 2023; "Adults Reporting Symptoms of Anxiety or Depressive Disorder During COVID-19 Pandemic," KFF, 2024; "NNU Covid Survey Year Three," National Nurses United, December 2022; "National nurse survey reveals significant increases in unsafe staffing, workplace violence, and moral distress," National Nurses United, April 2022; "Declining Cancer Screenings Suggest Increased Burden of Disease," Trilliant Health, April 2022.



^{1.} Values pulled from June of each year, except 2019 is January to June.

^{2.} Year-over-vear.

^{3.} As a percent of claims in corresponding month of 2019 for recommended vaccines.

A poor report card for our overall performance

Declining quality outlook

19% 2021 to 2022 Increase in adverse events resulting in permanent/severe harm or death

38%

Increase in **maternal mortality** deaths per 100,000 live births



Adults believe the healthcare system is **not meeting their needs**

n=2,519 adults

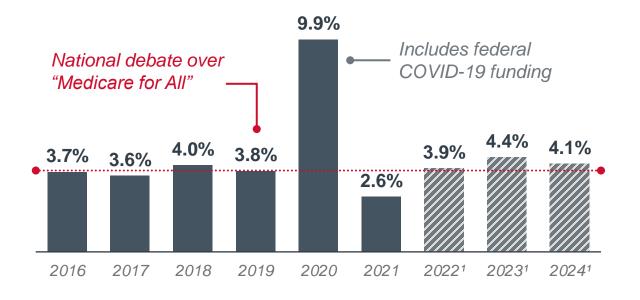
March 2023

1. Projected.



Looming spending pressures

Annual growth in health expenditures per capita

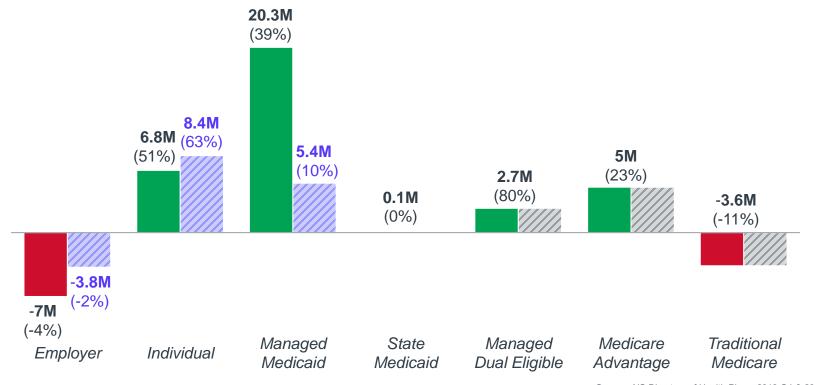


Source: "The Pandemic's Consequences: Survey of Registered Nurses," AMN, January 2023; "National Health Expenditure Projections," Health Affairs, June 2023; "Sentinel Event Data 2022 Annual Review," The Joint Commission, 2023.

Coverage whiplash ahead, but not fully to pre-Covid mix

Insurance segment growth changes, historically and projected

Total change¹ (and percentage change) in enrollment, 2019 Q4 to 2023 Q3



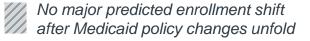
Increased enrollment since 2019





Estimates include:

- Losses from redeterminations
- Shifts to employer and individual coverage after losing Medicaid eligibility
- Medicaid expansion in North Carolina and South Dakota



Source: AlS Directory of Health Plans, 2019 Q4 & 2023 Q3; "NCDHHS Releases Statement on Medicaid Expansion," NCDHHS, March 2023; Norris L, "Medicaid eligibility and enrollment in South Dakota," HealthInsurance.org, March 2023; CBO, "Health Insurance For People Younger Than Age 65: Expiration Of Temporary Policies Projected To Reshuffle Coverage, 2023–33," Health Affairs, May 2023.



Shaded bars represent estimated shifts accounting for Medicaid eligibility changes but not population growth or economic shifts.
 Assumes all eligibility changes apply to managed Medicaid only.

Purchaser and payment policy dynamics at a glance









Medicaid coverage whiplash

Medicare Advantage (MA) business model squeeze

Pharmaceutical business regulatory overhaul

Employer benefits fiduciary pressure

15M

Medicaid terminations completed as of January 16, 2023

\$4.7B

Estimated reduction in MA plan annual revenues from 1.12% effective rate cut for 2024

\$98.5B

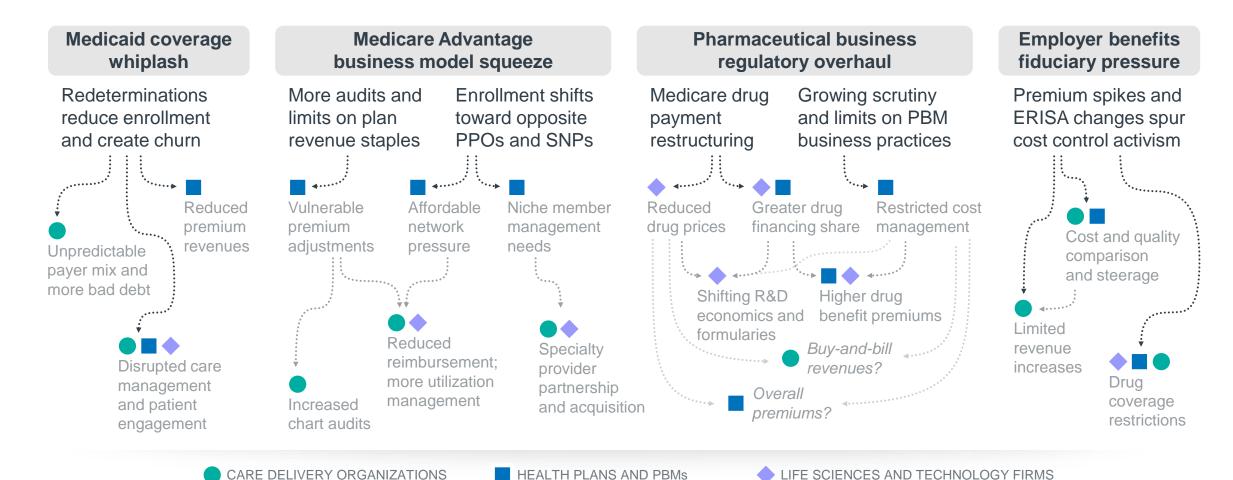
Expected Medicare savings from drug price negotiation, over the next 10 years 8.5%

Projected increases in health insurance costs for employer benefits in 2024

Source: "Medicaid Enrollment and Unwinding Tracker," KFF, January 2024; Isaacson G et al, "The future of Medicare Advantage," McKinsey & Company, July 2023; Cubanski J et al "Explaining the Prescription Drug Provisions in the Inflation Reduction Act," KFF, January 2023; Leo L and Mandowara K; "US employers to see biggest healthcare cost jump in a decade in 2024," Reuters, September 2023.



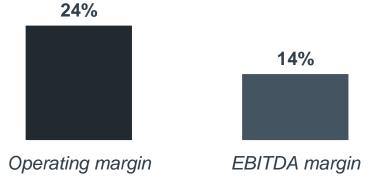
Disruptions will trickle down to all and raise tensions



Hospital finances are heading in the right direction

Hospital profitability in 2023 compared to 2022

Percentage change in median hospital margins YTD May 2022 to May 2023



Percentage change in median hospital margins YTD 2021 to 2022



Operating margin EBITDA margin

Financial performance in FY 2022

System	Net Income	Operating Income
Ascension	(\$1.8 B)	(\$0.9 B)
Cleveland Clinic	(\$1.2 B)	(\$0.2 B)
CommonSpirit	(\$1.9 B)	(\$1.3 B)
Kaiser	(\$4.5 B)	(\$1.3 B)
Mass General	(\$2.3 B)	(\$0.4 B)
Providence	(\$6.1 B)	(\$1.7 B)
Trinity	(\$1.4 B)	(\$0.2 B)
UPMC	(\$0.9 B)	\$0.2 B

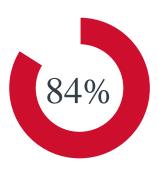
EBITDA: Earnings before interest, taxes, depreciation, amortization

Source: Kaiser Foundation Health Plan and Hospitals Report 2022 Financial Results | Kaiser Permanente; Cleveland Clinic's net losses land at \$1.2B for 2022 (fiercehealthcare.com); 20 health systems reporting losses in 2022 (beckershospitalreview.com); Kaufman Hall National Hospital Flash Reports, www.kaufmanhall.com



Increases in staff strongly correlated with improved volumes

Percentage of respondents with a positive change in volumes in 2023



All respondents



Large health system, 6+ hospitals



Small health system, 1-5 hospitals

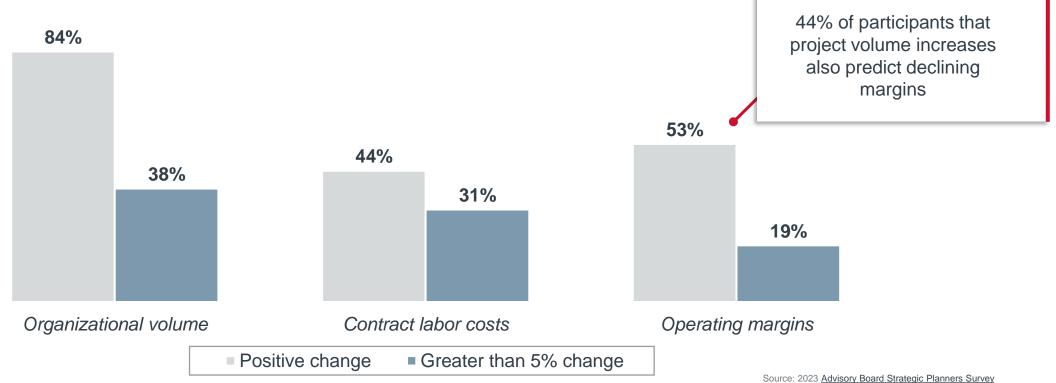


Respondents with positive change in full-time equivalent (FTE) count



The decoupling of hospital volume and margin

Percentage of respondents with a positive change in 2023, as compared to 2022





Multiple factors are eroding hospital margins

Core challenges to hospital-based care finances

WORKFORCE AND SUPPLY CHAIN VOLATILITY

200K

Estimated loss of experienced RNs from 2020 to 2022

6%

Average annual increase in medical and surgical supply expenses at U.S. hospitals from 2017 to 2021

CAPACITY AND QUALITY CHALLENGES

19%

Increase in average **length of stay** from 2019 to 2022

19%

Increase in adverse events resulting in permanent/severe harm or death from 2021 to 2022

SHIFTING REIMBURSEMENT MIX

11.8M

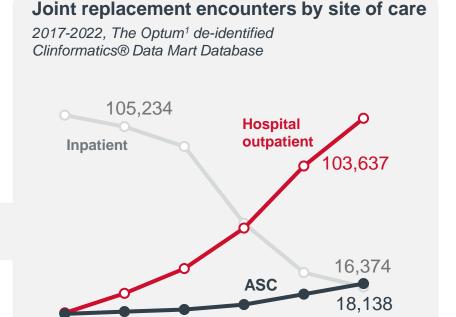
Medicaid terminations as of December 2023

3.5M Projected enrollment loss in employer coverage, 2024

ERODING SITE OF CARE REVENUES

SCRUTINY OVER LEGACY SUBSIDIES

- Site-neutral payments
- 340B drug discount program
- Not-for-profit status



Source: AlS Directory of Health Plans, 2019 Q4 & 2023 Q1; "National hospital flash report," Kaufman Hall, Dec. 2022; "National hospital flash report," Kaufman Hall, June 2023; "Issue Brief: Patients and Providers Faced with Increasing Delays in Timely Discharges," AHA, 2022; "Top 25 hospitals by medical supply costs," Definitive Healthcare, September 2023; "Sentinel Event Data 2022 Annual Review," The Joint Commission, 2023; "Medicaid Enrollment and Unwinding Tracker," KFF, September 2023; The Optum de-identified Clinformatics® Data Mart Database (2007-2022)

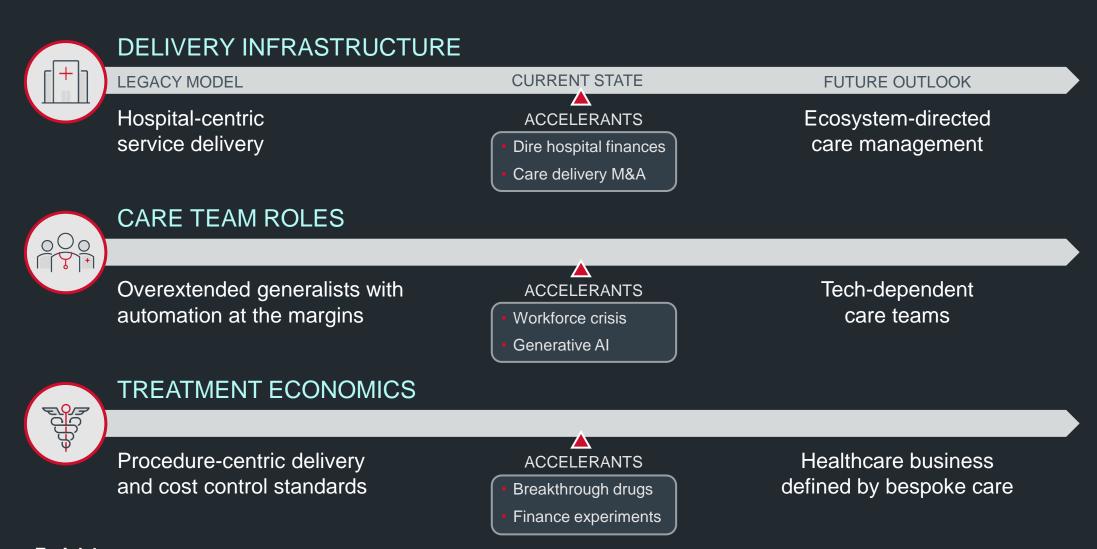
2018

2019

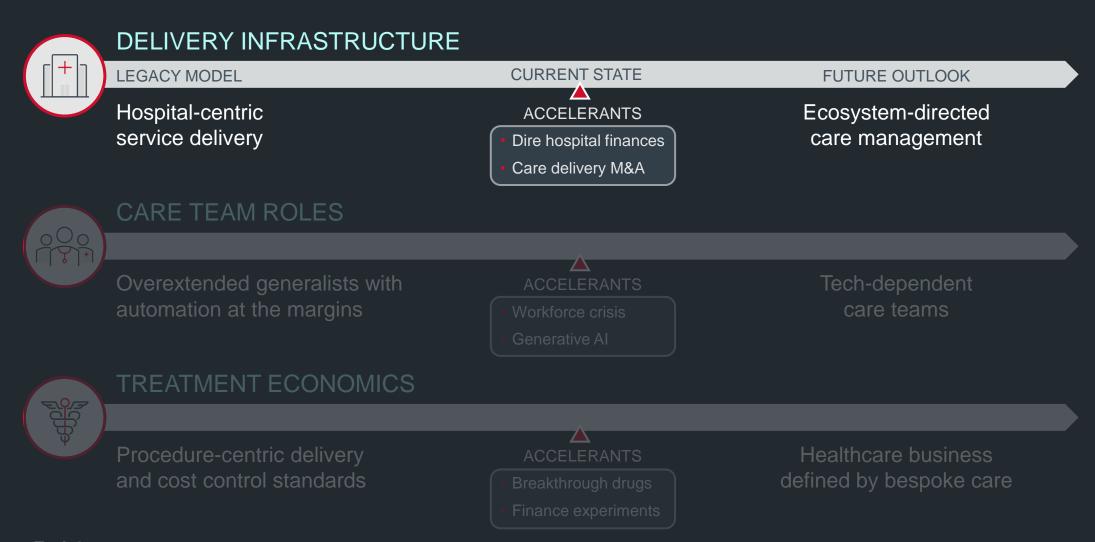


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The future of...

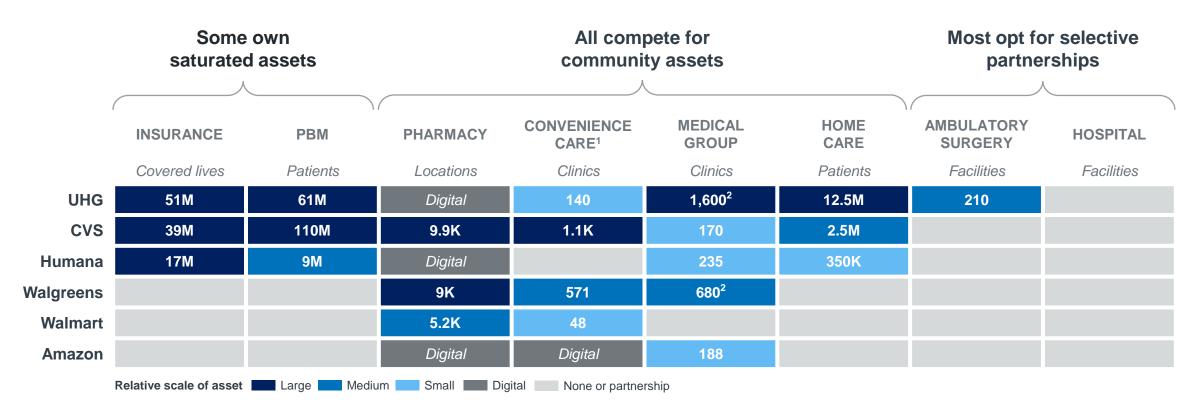


The future of...



Ecosystem players build cross-continuum reach

Corporations pursue selective consolidation across care delivery and financing (as of October 2023)



Advisory Board Sources: See additional sources slide

^{1.} Convenience care includes retail care and urgent care centers.

^{2.} Includes primary and specialty care practices.

Players draw from mix of assets to serve unique goals

Top inferred strategic goals of ecosystem players



Cross-sell services Walgreens, Amazon, CVS

Cross-sell across a diverse healthcare portfolio to capture lowacuity care and pharmacy spend

Hurdles to overcome

Ambition

Patient conversion, reimbursement economics, partner coordination



Capture senior care value Humana, CVS, UHG

Coordinate risk-based care across settings in a market to manage longitudinal senior health

Patient attribution, clinician enablement, scaling, government scrutiny, quality



Oversee network operations UHG, Kaiser Permanente (KP)

Equip value-based physician groups and select hospital operators to steer patients to preferred cost-effective sites

Patient engagement, multi-payer partnerships, referral discipline, cost management, antitrust



Strategic lifelines emerge for system partners

Ambulatory connectivity

Synthetic scale

IDN¹ model alignment

Non-contiguous merger

PARTNER







To expand patient entry points establish multichannel connections from convenient care options

To redistribute costs align with an operator for technical resources and expertise



To access premium dollar replicate provider-sponsored plan aligned delivery model across markets



To increase market power merge across geographies for traditional scale amid FTC scrutiny





Walmart partners with **Orlando Health** on patient care coordination

- Via Optum Market **Performance Partnership** (MPP) 9 systems transfer select enterprise services to Optum
- **Atrium** partners with **Best Buy Health** to improve care at home
- Risant Health created via \$5B acquisition of Geisinger expanding KP care model
- Intermountain acquires SCL and enables Select Health expansion
- X UnityPoint and Presbyterian attempted to form \$11B system to expand health plan reach and improve cost challenges
- Advocate Aurora and Atrium merge to form Advocate Health

EXAMPLES



^{1.} Integrated delivery network

^{2.} ACO Realizing Equity, Access, and Community Health Model

Source: "CVS Health and RUSH collaborate to increase health care access for Chicago-area Medicare patients," CVS, January 2023; "Walmart Health inks partnerships with Orlando Health, Florida insurer to streamline care coordination," Fierce Healthcare, November 2023; "The Hospital Strikes Back: Why Kaiser Permanente Formed

Systems' survival strategies leaves access gaps

Health systems make tough choices...



Decreases in the number of psychiatric beds

Rationalized services

Americans lived in mental health professional shortage areas in September 2023



Service line closures

Hospitals closed labor and delivery departments from 2011 to 2022

Women of childbearing age lived in maternity care deserts in 2022



Hospital closures Rural hospital closures from 2016 to 2021

Rural U.S. areas designated as medically underserved in 2019

...other sectors step in with patchwork solutions



Behavioral health solutions focused on low-acuity patients

Venture funding in digital behavioral health from 2018 to 2022

Behavioral health startup companies created from 2018 to July 2023



Women's health startups aimed at employers

Venture funding of fertility technology start-ups in 2022¹

Increase in PE acquisitions 143% of OB/GYN practices and fertility services companies²



Rural care limited and often focuses on preventative care

Dollar General mobile health clinics to improve 300+ in medically underserved rural care in January 2023

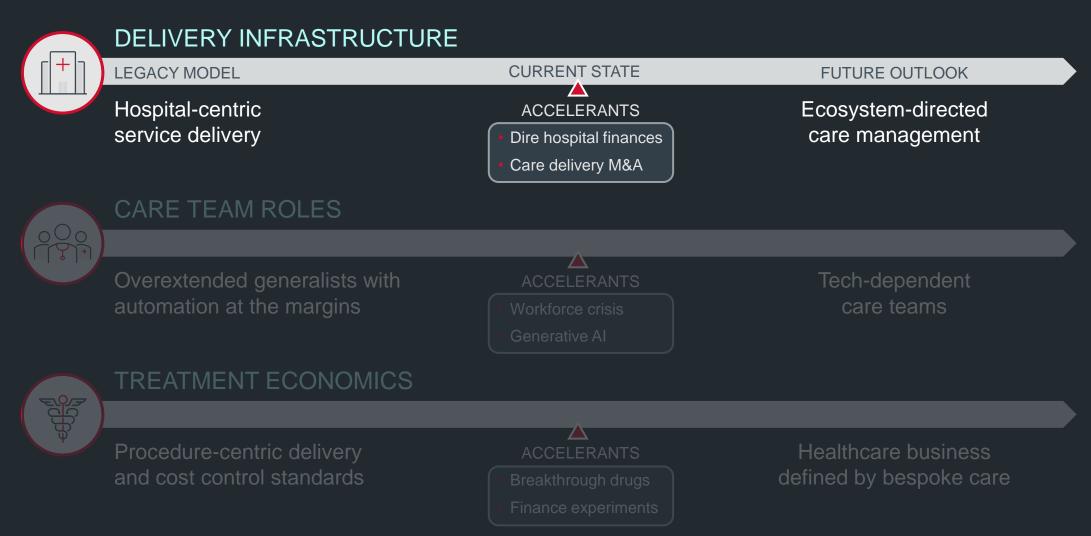
Projected VillageMD locations communities by 2027

See additional sources slide for sources



^{2.} From 7 acquisitions in 2010-2017 to 17 in 2017-2019

The future of...

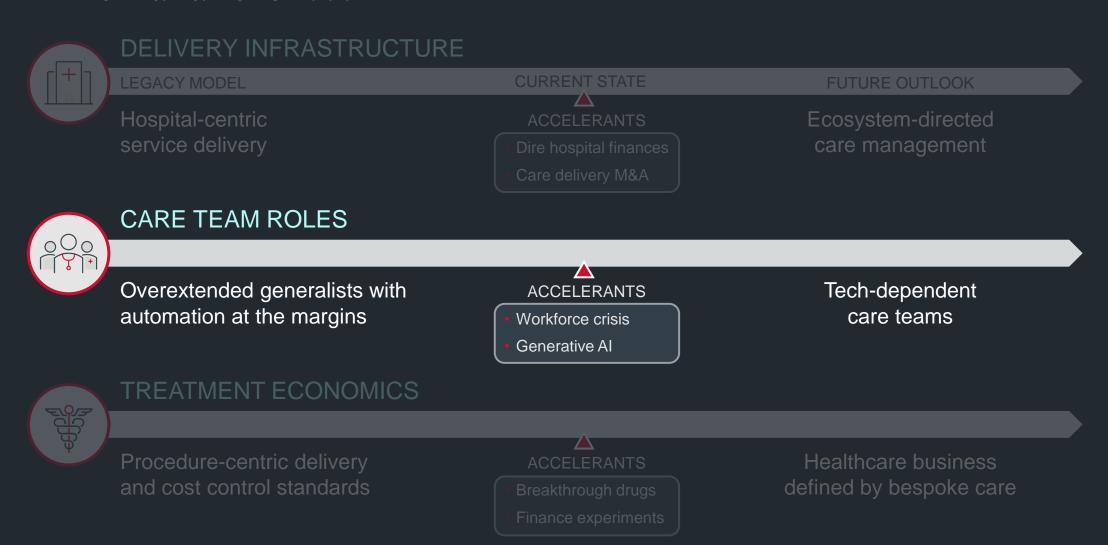


The future paradigm of delivery infrastructure

While large conglomerates make the final push for remaining assets across the care continuum, health systems are seeking financial survival pathways through partnerships. These moves will cement a shift away from hospital-centric service delivery toward ongoing care management directed by the ecosystem level. This will upend performance standards and create distinct challenges for patient access.



The future of...

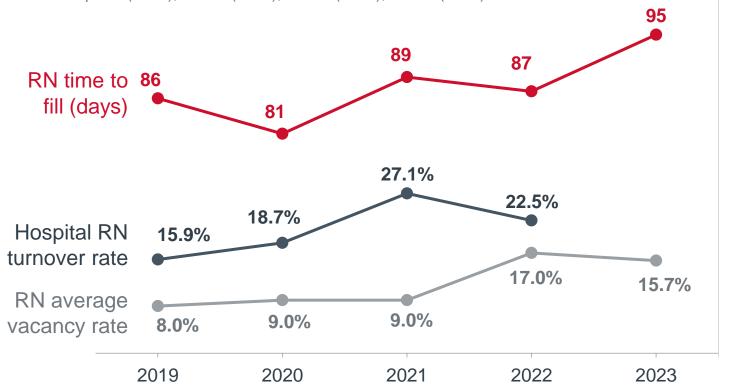




Labor challenges persist as AI increases in popularity

Turnover, vacancy rates, and time to fill remain elevated

n=164 hospitals (2020), n=226 (2021), n=272 (2022), n=273 (2023)





"Microsoft Invests \$10 Billion in ChatGPT Maker OpenAI"

BLOOMBERG, JAN '23

"ChatGPT reaches **100 million users** two months after launch"

THE GUARDIAN, FEB '23

"AI **Adoption Skyrocketed** Over the Last 18 Months"

HBR, SEPT '21

Source: "National Health Care Retention Report," NSI, 2020, 2021, 2022, 2023; "ChatGPT reaches 100 million users two months after launch," The Guardian, February 2023; "Al Adoption Skyrocketed Over the Last 18 Months," HBR, September 2021; "Microsoft to Invest \$10 Billion in ChatGPT Maker OpenAI (MSFT)," Bloomberg, January 2023.



Tech increasingly capable of more tasks, often with AI

Adoption of select clinical workforce technologies across the patient care journey

		WIDESPREAD	EMERGING	EXPLORATORY		
	Patient triage and intake		Asynchronous chatbots		Study found that GPT-3 accurately	
_	Detection and screening	Imaging interpretation	n	→ Speech and text analytics O	detected Alzheimer's 80% of the	
	Diagnosis		→ Diagnostic decision	n support systems	time from spontaneous speech	
뷜	Quality and risk gap detection	Predictive analytics a	lerts			
PATIENT CARE JOURI	Treatment planning	Condition-specific ord	der sets	→ Treatment recommendation systems	Nuance DAX¹ saves 7 minutes per physician encounter by translating	
	Visit documentation	Ambient listening and	d transcription 🔾 —		conversations into clinical notes	
	Prior auth processing		Automated draftin	g		
	Direct treatment	Robotic surgery		→ Digital therapeutics O	EndeavorRx first FDA-approved	
	Medication management	Mobile app reminders	S	→ Smart pill ingestible sensors	video game digital therapeutic for children with ADHD	
	Supplies distribution		→ Robotic assistants	3		
	Patient management		→ Smart beds	→ Robotic assistants O	In 2019, 10% of Japanese elder-	
	Care management planning			→ Automated drafting	care institutions had introduced care robots	
	Patient education	Educational videos	Shared decision-n	naking platforms		
/	Follow-up care	→ RPM ²	→ Asynchronous cha	atbots		

^{1.} Dragon Ambient eXperience.



^{2.} Remote patient monitoring.

Source: "Ambient Clinical Intelligence," Nuance, 2023; "Inside Japan's long experiment in automating eldercare." MIT, January 2023; "FDA Permits Marketing of First Game-Based Digital Therapeutic to Improve Attention Function in Children with ADHD, "FDA, June 2020; "Predicting dementia from spontaneous speech using large language models," PLOS Digital Health, December 2022; "ChatGPT's Al Could Help Catch Alzheimer's Early," WebMD, February 2023.

What is AI, really?

Advances in technology pushing the limits of Al



Al isn't magic. Instead, it's a range of specialized tools.



• Performs **specific tasks** that normally require human intelligence by using algorithms, pattern matching, etc.

- Must be trained, and can only learn from data it has access to
- Continuously improves accuracy of predictions and pattern matching with more interactions
- Each Al model has limited utility outside of the task it was designed for



Can't leap forward with tech until we nail the essentials

"A lot of organizations are susceptible to 'magical thinking,' where they gravitate towards new technology. This results in them looking past a lot of the **basic foundational technology**."

CIO, large health system in Midwest

Prioritize building blocks

Top 3 "back to basics" seen in 2023

- Maximize **value of existing systems** (i.e., *are you using all the functionality built into the EHR*¹?)
- Make basic functions like order sets as **accurate**, **effective**, **and easy** to execute as possible
- Prioritize **clinical staff needs**, not "shiny things," for technology investment

Goal and related problems should inform tech investment decisions

Sample Goal

Retain nursing staff



Potential Root Causes

- Lack of schedule flexibility
- Feeling unsafe at work
- Undesirable task mix

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Targeted
Tech Solution

Leverage ambient listening and automated note summaries, reducing time spent on administrative tasks



Caution

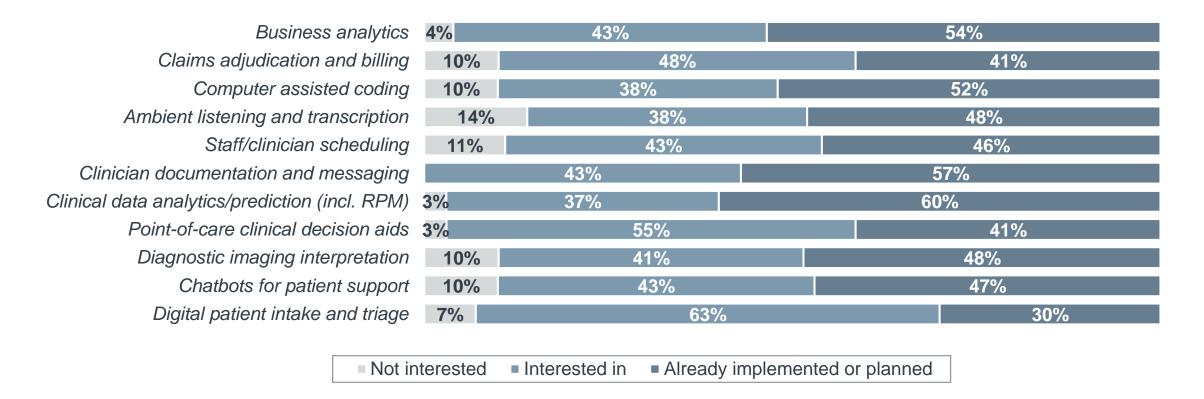
Temptation to **add** other undesirable tasks to reallocate newly available nurse time

1. Electronic health record.



Health systems report practical AI applications

Percent of respondents reporting current or planned Al usage





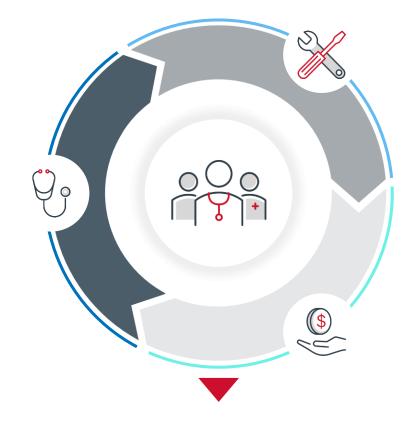
Tech can't replace humans, but it will change their roles

As technology becomes a member of the care team, the rest of the care team must evolve

ROLE

Who performs what tasks?

- As technology helps clinicians complete some tasks faster, what will they spend more time on?
- Will we need to add new roles or repurpose existing ones?
- How will clinicians engage with patients as consumer access to Al-powered diagnostic tools grows?



TRAINING

Where does learning happen?

- How will clinicians gain experience and expertise as technology takes on simple tasks?
- When will schools, employers, and accreditors standardize training on working with technology?
- Will technology enable clinicians to take on some responsibilities with less training?

COMPENSATION

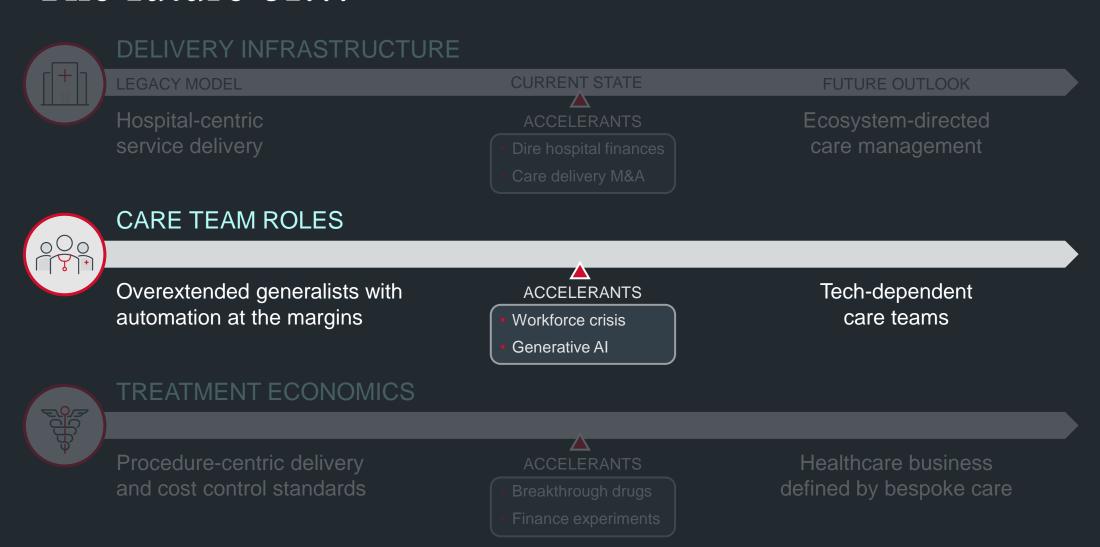
How do we value work?

- How will compensation models shift to incentivize performance that is blended with technology?
- Will compensation levels vary to reflect shifting training requirements?

Who will make decisions proactively – and who will be forced to respond?



The future of...



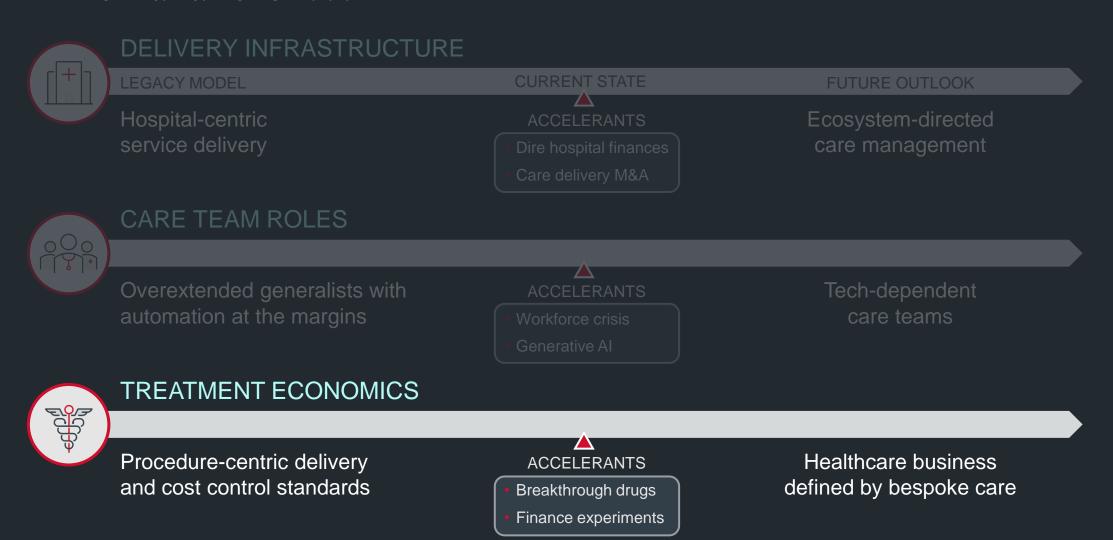


The future paradigm of care team roles

Rapid, chaotic advances in technology (especially AI) have created new opportunities to address persistent workforce challenges. In the quest for top-of-license care, clinician roles must evolve to the point where *clinicians* complement technology. The new era of tech enablement will open the door to greater efficiency, entrench inequities, and shift control over care decisions.



The future of...





Drugs poised to eclipse the strategic focus on procedures



THERAPUETIC DRUGS

EPISODIC PROCEDURES



- untreated conditions
- Drug spend catching up to hospital operating costs
- One provider-sponsored plan's experience with drug costs in 2022:

- Innovation activity enables lower-acuity care
- Transparency data and outpatient shift pressure rates



Average price for a procedure in an ASC relative to the same in a HOPD^{1,} 2019

1. Hospital outpatient department.

Source: "Shifting Common Outpatient Procedures to ASCs "Can Save Consumers More than \$680 per Procedure," UHG, September 2021; "Impact Report - Q1." Turquoise Health, March 2023; "Toolkit Overview: Pipeline." Tufts, December 2020; Advisory Board Market Scenario Planner

Weight management drugs driving industry frenzy



Promising clinical effects

15-20%

Average total body weight loss on semaglutide¹



Rising patient demand

Of surveyed people with obesity would change jobs to gain **coverage** for obesity treatment



Financial implications

142M Eligible U.S. patient population for semaglutide for weight loss according to FDA criteria²



- Direct-to-consumer companies Ro and WeightWatchers enter weight loss medication space
- 51% of surveyed health plans do not cover weight loss medications³
- **Medicaid** covers select weight loss drugs in 16 states
- **Medicare Advantage** can cover weight management drugs as an additional benefit,4 but not common
- **Medicare** Modernization Act of 2003 prohibits Part D coverage of weight management drugs





^{1.} Medication indicated for treatment of type 2 diabetes and obesity.

^{2.} BMI >30 or BMI >27 with a pre-existing condition such as diabetes.

^{3. 31%} are considering adding coverage in the next 1-2 years.

^{4.} Through flexible benefits and formularies that meet CMS requirements

Envisioning a healthcare business defined by drugs

Illustrative comparison of business characteristics for procedures and drug treatments

TRADITIONAL PROCEDURES	CATEGORY	BESPOKE THERAPIES		
Improve safety and reduce invasiveness	Innovation impact	Address conditions without available or effective treatments		
IP/OP, ASC, surgical specialty office	Delivery options	IP/OP, infusion center, home delivery, patient administration, medical specialty office		
Pre-operative consults and prep, rehab, ongoing monitoring	Wraparound care	Pre-treatment diagnostic testing, concurrent symptom and side effect care, ongoing treatment, monitoring, and care		
 Relatively binary with predictable benchmarks established Market-based competition over efficiency 	Cost and quality competition	 Standards are still unfolding on a gradient Experimentation with new models and new players 		
Prior authorizationProvider selection	Cost management strategies	 Prior authorization or formulary design Provider selection Drug/dose/modality selection Drug sourcing mandates 		
 One-time Provider payment Increasingly bundled patient cost sharing 	Financing	 Ongoing or one-time Provider, pharmacy, and PBM payment Ongoing patient cost-sharing 		



All "high-cost drugs" are not the same

Key characteristics to evaluate the impact of specific emerging high-cost drugs

EXAMPLES	1 List prices and revenues	Estimated population size As of 2022	Clinical significance	Administration logistics and timing	Future pipeline developments to watch
GLP-1 agonists for weight loss ¹	\$16.2K per patient ² \$25B sales est. for 2028	142M (eligible)	Improvement to weight loss treatments	Ongoing weekly injectionsPatient-administered	 May be used to reduce BMI to qualify for surgery FDA approval for oral versions likely by end of 2023
Leqembi (lecanemab) for Alzheimer's	\$26.5K per patient ³ \$3.1B sales est. for 2028	100K 8 (eligible)	New treatment to slow cognitive and functional decline	Ongoing biweekly infusionsProvider-administered	 Eli Lilly expected to submit bid for approval of Alzheimer's treatment donanemab in 2023
CAR T-cell therapies for blood disorders	\$373K per patient \$6B sales est. for 2026	2,000 (treated from 2019 to January 2022)	Improvement in short-term and long-term cancer remission	 One-time gene therapy infusion Provider-administered 	 Decision on cell-based gene therapy to treat sickle cell disease and beta thalassemia expected in early 2024
Hemgenix gene therapy for hemophilia B	\$3.5M per patient \$44M sales est. for 2028	3,300 (eligible)	New treatment to replace regular prophylactic infusions	One-time gene therapy infusionProvider-administered	 Gene therapy Roctavian approved by FDA in June 2023 for adults with severe hemophilia A

^{3.} Annually, for lecanemab.



^{1.} Such as Saxenda (liraglutide), Wegovy (semaglutide).

^{2.} Annually, for semaglutide.

Unique drug dynamics intensify our usual challenges

Opportunistic non-traditional players in emerging terrain

Widespread demand invites investment in delivery and administrative capabilities from new entrants

 Specialized, longitudinal care and financial coordination
 Scale of complexity and cost require

Scale of complexity and cost requires highly specific care delivery and access management

Purchasers focused on near-term cost exposure and benefits

Extreme financial uncertainty leads to limited coverage and varied experiments

Emerging drugs intensify evergreen challenges



Two-tiered patient access



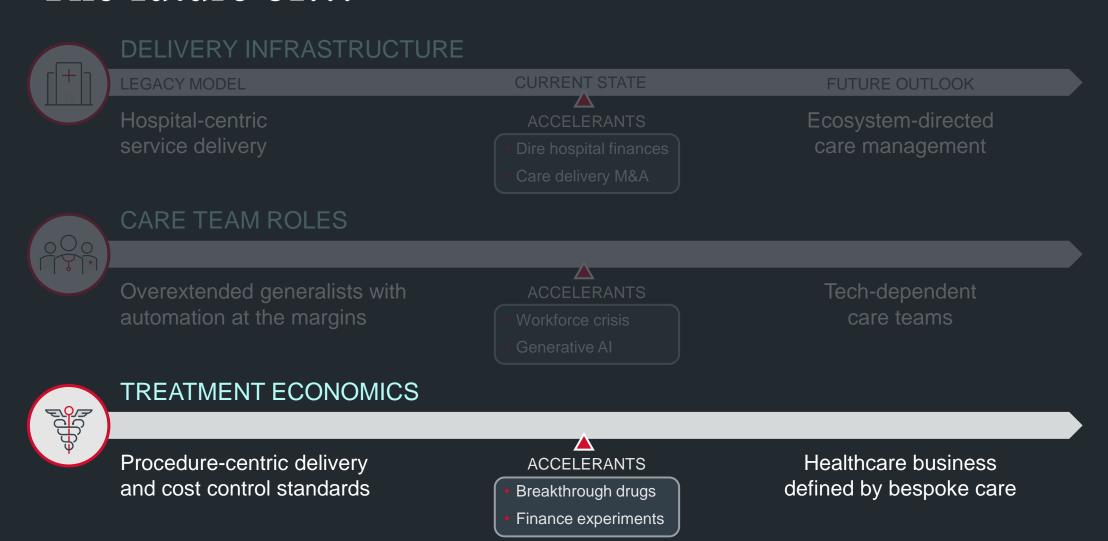
Hurdles to payment transformation



Consolidated utilization control



The future of...



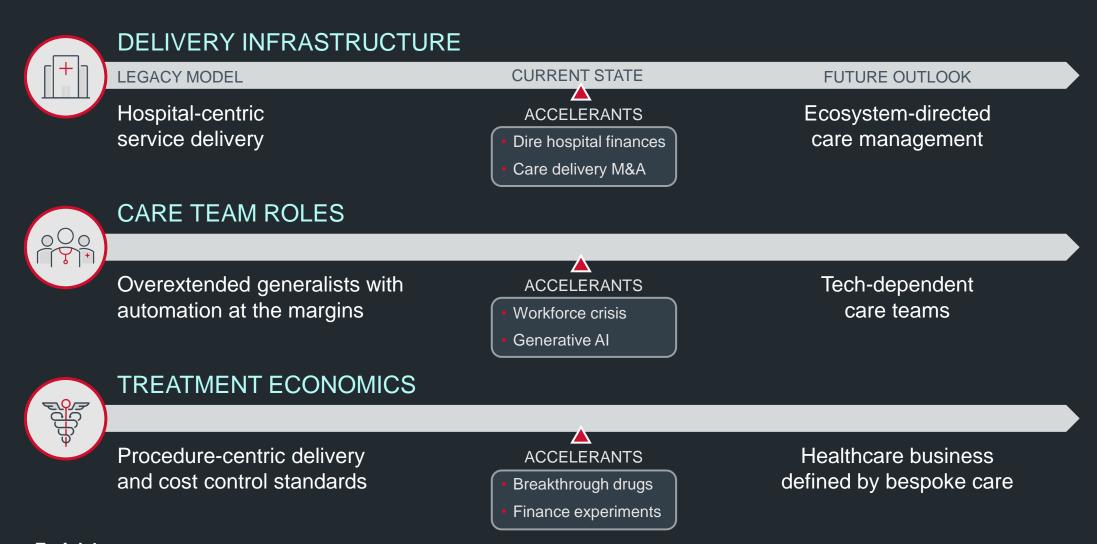


The future paradigm of treatment economics

Emerging, diverse drugs with high prices and complicated delivery logistics will require new investments in delivery infrastructure and spur experimental financial models, and ultimately eclipse the legacy focus on procedures. Strategy in a pharmaceutical-based healthcare system will diverge from current tactics, open more paths for power grabs or consolidation, and exacerbate patient access disparities.



The future of...





The heightened responsibilities of the future

In a future with...



Expand coordination Protect access



DELIVERY INFRASTRUCTURE

Ecosystem-directed care management



CARE TEAM ROLES

Tech-dependent care team



TREATMENT ECONOMICS

Healthcare business defined by bespoke care

EMPLOYERS

Decide on standards for the scope of covered healthcare services, care access, and consumer autonomy

DIGITAL HEALTH

Focus technology and service offerings on unmet, pervasive population care, and team workflow needs

PLANS

Stakeholders must embrace their responsibility to...

Track care coordination and financing across stakeholders for partner accountability and longitudinal cost pooling

MEDICAL GROUPS

Manage patients longitudinally across a complex continuum by designing and deploying holistic care teams

HEALTH SYSTEMS

Balance the need to standardize service operations with collaborating on patient access, supporting personalization, and enabling clinical autonomy

LIFE SCIENCES

Build practical payment models and education to scale product access commensurate with specialized delivery needs and clinical breakthroughs



Strategic paradigms: The future of longstanding shifts

Delivery infrastructure will evolve to prioritize focusing on ecosystems, care team roles will shift with new tech capabilities, and treatment economics will adapt to highcost drugs. These paradigm shifts aren't new, but their recent acceleration gives the industry an opportunity to anticipate the future trajectory and embrace new, elevated responsibilities to support the broader industry.





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Advisory Board