

The State of the Healthcare Industry Heading Into 2024

How to prepare for the future of longstanding paradigm shifts

Aaron Mauck, PhD Vice President, Advisory Board

Seismic changes happening below the surface

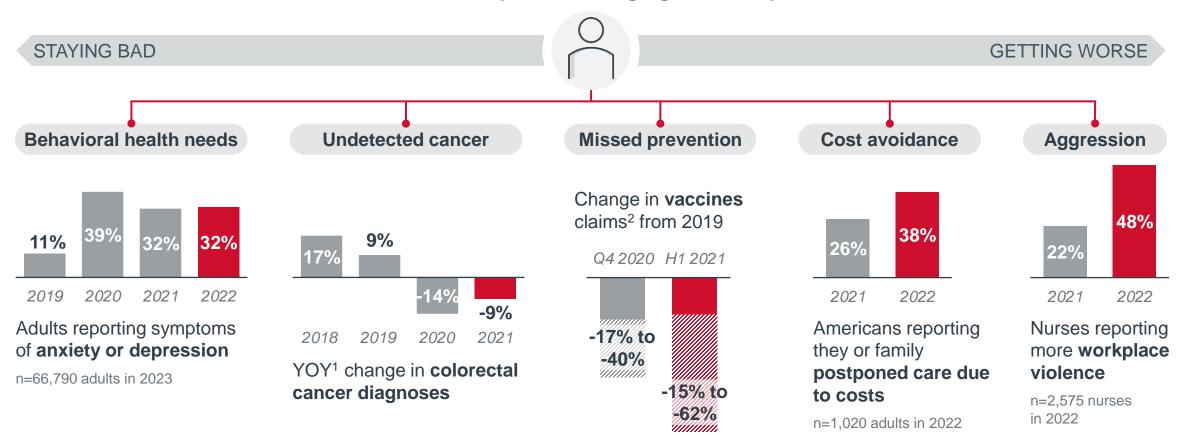
Your Key Takeaways

- 1. Instability everywhere you look, and we're in the crosshairs. Poor performance across patient health, quality, spending, and impending disruptors mean health leaders are anxious about the pressures ahead.
- 2. Ecosystems—not hospitals—are now the pillars of American healthcare. But to be successful long-term, these ecosystems must balance national influence with local feel. Big or small, the stakeholders that are the best *partners* stand to win in this new paradigm.
- **3.** Technology is now a member of the care team. Workforce challenges persist as AI booms. The combination of these two forces is already redefining what a care team is. A tech-enabled care team requires mastering the essentials and resisting both entrenched thinking and magical thinking at the same time.
- 4. Welcome to the age of drugs. Procedures have been the linchpin of treatment—until now. We are entering a new era of care defined by high and ultra-high cost drugs. These breakthrough treatments represent miracles for patients, but potential disaster for financing models.



The patients are not alright

Characteristics of the patient emerging from the pandemic era



1. Year-over-year.

2. As a percent of claims in corresponding month of 2019 for recommended vaccines.

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, 2023; "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.

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A poor report card for our overall performance

Declining quality outlook

19% 2021 to 2022

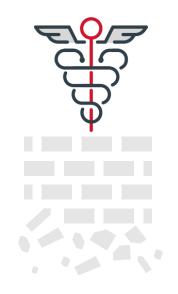
Increase in **adverse events** resulting in permanent/severe harm or death

38% 2020 to 2021 Increase in **maternal mortality** deaths per 100,000 live births

11_{PT} 2021 to 2022 Increase in percent of nurses who are not satisfied with the **quality of care** they can provide in their current job n=18,226 RNs in January 2023

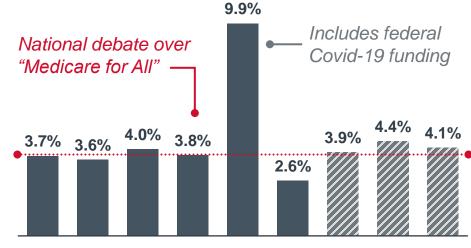
Adults believe the healthcare system is **not meeting their needs**

n=2,159 adults in March 2023



Looming spending pressures





2016 2017 2018 2019 2020 2021 2022¹ 2023¹ 2024¹

1. Projected.



Source: AAPA survey "The Patient Experience: Perspectives on Today's Healthcare," AAPA, April 2023; "The Pandemic's Consequences: Survey of Registered Nurses," AMN, January 2023; "Maternal Mortality Rates in the United States, 2021," CDC, 2023; "National Health Expenditure Projections," Health Affairs, June 2023; "Americans Sour on U.S. Healthcare Quality," Gallup, January 2023; "Sentinel Event Data 2022 Annual Review," The Joint Commission, 2023.

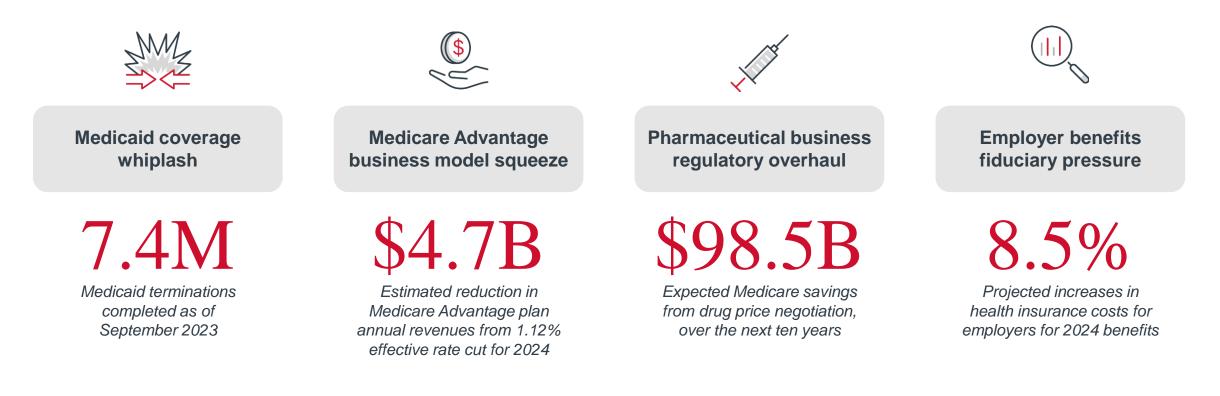
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Industry snapshot: A moment of instability

The industry has emerged from a shared catastrophe into a time of adversarial instability. Poor patient health, declining clinical quality, and higher overall health spending form a concerning foundation that will reshape the organization of healthcare and the role played by incumbents and disruptors alike.



Purchaser and payment policy dynamics at a glance



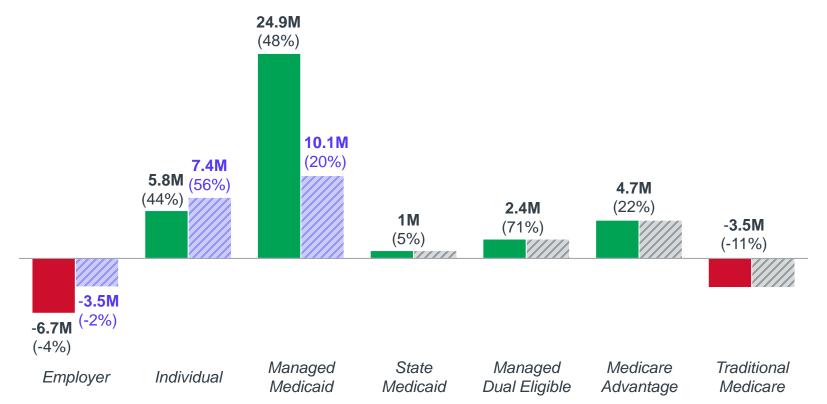
Source: "Medicaid Enrollment and Unwinding Tracker," KFF, September 2023; Isaacson G et al, "The future of Medicare Advantage," McKinsey & Company, July 2023; Cubanski J et al "Explaining the Prescription Drug Provisions in the Inflation Reduction Act," KFF, January 2023; Leo L and Mandowara K; "US employers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

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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 Q1



Projected 2024 enrollment shifts after Medicaid policy changes unfold

Estimates include:

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

1. 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. Source: AIS Directory of Health Plans, 2019 Q4 & 2023 Q1; "<u>NCDHHS Releases Statement on Medicaid Expansion</u>," NCDHHS, March 2023; Norris L, "<u>Medicaid eligibility and enrollment in South Dakota</u>," HealthInsurance.org, March 2023; CBO, "<u>Health Insurance For</u> People Younger Than Age 65: Expiration Of Temporary Policies Projected To Reshuffle Coverage, 2023–33," Health Affairs, May 2023.



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MA business model is still lucrative, but getting harder

2023

In 2023, Corporate players double down on MA...

 $\begin{array}{c} \mbox{Medicare Advantage (MA)} \\ \mbox{enrollment share of Medicare} 51\% \end{array}$

CVS/Aetna

Oak Street Health

Acquires

for \$10.6B

SAMPLE CORPORATE MOVES

UnitedHealthGroup

- Acquires
 LHC Group for \$5.4B
- Acquires Amedisys for \$3.3B

Walmart

- Adds 28 health clinics, offers co-branded UHC MA plans
- Considering acquisition
 of ChenMed (rumored)

Humana

Projected MA enrollment

share of Medicare

Announces exit from employer insurance by 2024

61%

...despite increased scrutiny on MA business model

\$473B Estimated payments¹ to plans

SAMPLE PAYMENT CHANGES

Stars ratings

- CMS reduces payment rates by 1.24% for 2024
- Increase in customer experience weighting

RADV Final Rule

CMS can recoup extrapolated improper payments, expected to be \$4.7B from 2023-2032

Projected

payments¹ to plans

2024 Rate Announcement

- 1.12% effective rate decrease represents
 \$4.7B loss in revenues
- Risk adjustment changes bring MA rates down by 2.16% on average to align with FFS
- Health equity index replace current bonus factor for plans

Part D

- Payers will lose over \$11B in annual revenues from eliminated DIR³ fees
- Government share of catastrophic coverage drops from 80% to 20%

1. For Medicare Part A and Part B benefits.

2. Risk Adjustment Data Validation.

3. Direct and indirect renumeration (DIR) fees.



2031

\$943B

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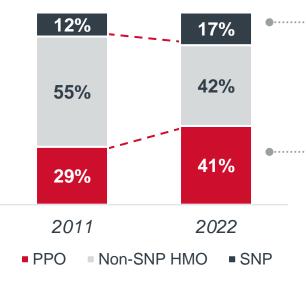
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Source: See additional sources slide

Margin management harder as MA products diversify

Medicare Advantage (MA) enrollment in product types Percent of total MA enrollment



Relative to general HMO plans...

Special Needs Plans (SNPs) have higher margins, but harder to execute efficiently

- Target patients with most challenging healthcare needs, requires significant administrative resources
- Higher margins for D-SNPs compared to average
 MA plan margin

PPO plans are easier to sell, but harder to manage members

- Target patients who want physician choice
- Physicians less likely to take on risk

23%

Of beneficiaries switched plans within less than one year of joining¹

Predictions for what's next

Control specialist spend Attempts to financially align with specialists



Shifts in plan design Enticements to shift enrollees into managed care



Source: "Medicare Payment Policy," MedPac, 2012 - 2023; The Optum de-identified Clinformatics® Data Mart Database (2007 - 2022)

Continued asset consolidation Acquisitions to support MA care delivery

1. Advisory Board analysis of Optum's de-identified Clinformatics® Data Mart Database (2007-2022).



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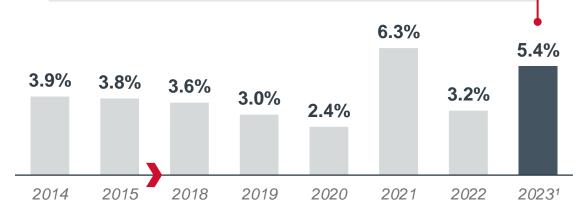
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Employers feel cost pressure and face new rules

Annual change in total health benefit cost per employee

Factors driving the cost landscape for employers:

- Inflation: Wage growth and looming network rate increases
- Hospital consolidation: Fewer options and higher spend
- High-cost claimants: Million-dollar claims are increasing, leading to a rise in stop-loss insurance costs
- Innovative drugs: New treatments needing coverage decisions



New developments may prompt employer action



Price benchmarking data

Growing number of vendors ingest newly-disclosed payer and provider rate transparency data



Expanded fiduciary obligations

With ERISA² updates, self-funded employers risk fines or class action suits if they do not ensure that they:

- Pay only "reasonable" compensation
- Receive disclosures of indirect compensation arrangements
- Can access deidentified encounters, claims, and provider data
- Report data on drug spending, rebates, and utilization

RECENT ERISA CASES DISPUTE FIDUCIARY ROLE

- Mass. Laborers' Fund v BCBSMA: BCBSMA found not liable
- Bricklayers v Elevance: Not yet decided
- Peters v Aetna and OptumHealth: Lawsuit reintroduced

Estimated.

Source: "Employment Cost Index," BLS, 2023; "The gathering storm: The threat to employee healthcare benefits," McKinsey, October 2022; "National Survey of Employer-Sponsored Health Plans," Mercer, 2022; "Nominal Wage Tracker," Economic Policy Institute, 2023; "Aetna, Optum to face revived 'dummy code' lawsuit," Modern Healthcare, June 2023; "Unions suing Elevance Health for allegedly restricting access to claims data," Becker's, December 2022; "Blue Cross Blue Shield of Massachusetts prevails in First Circuit on ERISA claims brought by Massachusetts Laborers' Health and Welfare Fund." Jones Day, April 2023. 2. As modified by the Consolidated Appropriations Act, 2021.

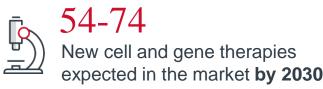


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Drugs poised to eclipse the strategic focus on procedures



Innovation activity targets rare, 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

Projected overall procedure utilization change 2021 to 2026

-2.8% +7.3% Inpatient Outpatient

Transparency data and outpatient shift pressure rates

5% Commercially-insured lives represented by payer transparency data, for all sites Average price for a procedure in an ASC relative to the same in a HOPD¹

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



1. Hospital outpatient department.

Weight management drugs driving industry frenzy

F

Promising clinical effects

15-20%

Average total body weight loss on semaglutide¹

Rising patient demand

111%

Increase in Ozempic prescriptions from February 2022 to February 2023

Financial implications

\$13,618 Average annual per capita

price of Wegovy (semaglutide)

20

Cardiovascular outcome measures included in SELECT trial

44%

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

142M

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

4. Through flexible benefits and formularies that meet CMS requirements

Eligible US patient population for semaglutide for weight loss according to FDA criteria²

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.

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Variable coverage in 2023

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

See additional sources slide for sources.

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Drug categories favor different players and capabilities

Array of delivery and competitive considerations for sample emerging high-cost drugs

EXAMPLES	Capabilities needed for delivery	Business dynamics to watch	
GLP-1 agonists for weight loss	 Treatment planning: Prescribing support to help providers navigate demand Care management: Coordination of behavioral and nutritional support; weight management support if patient discontinues drug 	B2C digital health vendors such as Ro and Sequence advertise coaching and ability to work with consumer's insurance for coverage	Non-tradi
Leqembi (lecanemab) for Alzheimer's	 Care monitoring: Coordination of regular MRIs to monitor for brain swelling Data collection: Infrastructure to collect data on drug's performance to obtain Medicare reimbursement 	Growth in private equity investment in infusion centers potentially indicative of increased competition for drug administration	players c business opportun
CAR T-cell therapies for blood disorders	 Specialized care: Acute care to manage risks and complications Referral management: Referral pathways into specialized cancer centers 	Specialized cancer centers needed to manage complications and often serve as clinical trial sites	Scale of o
Hemgenix gene therapy for hemophilia B	 Care management: Coordination of weekly follow-up to monitor liver enzymes and factor IX activity Specialized care: Designation as Hemgenix administration center 	Manufacturer, payer, and provider will need to designate entity to gather data to execute outcomes-based contracts offered by manufacturer	and cost specialize managem

ditional circle S inities

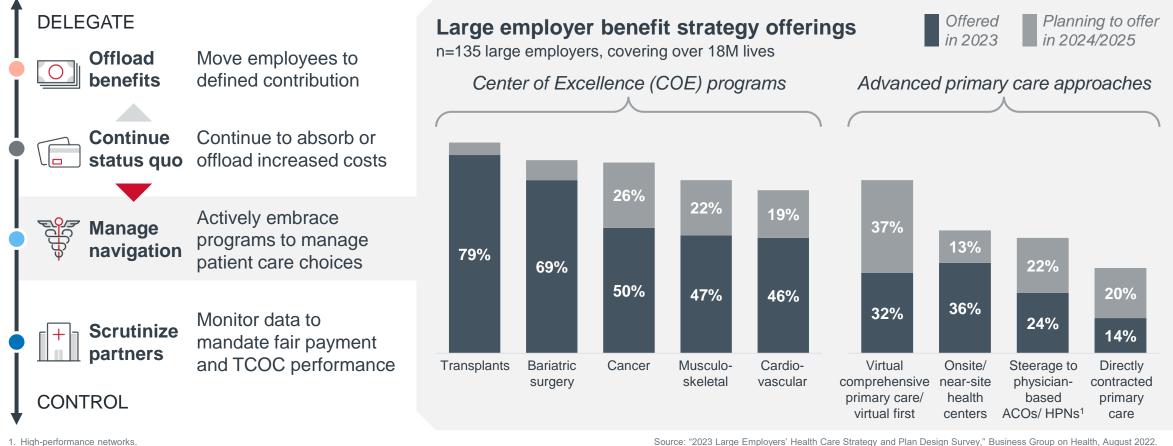
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Managed navigation strategies offer a compromise

Possible employer approaches to benefits strategy

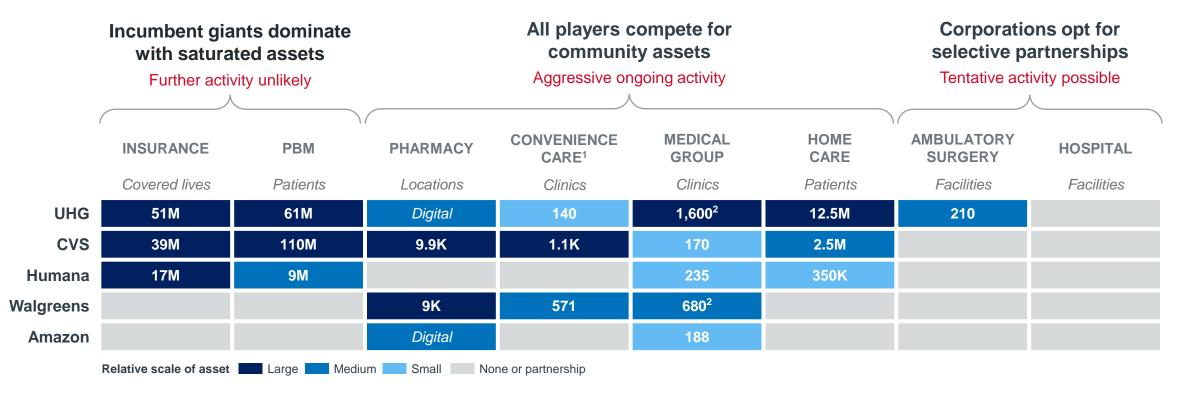


1. High-performance networks.

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National players build cross-continuum reach

Giants pursue selective consolidation across care delivery and financing



1. Convenience care includes retail care and urgent care centers.

2. Includes primary and specialty care practices.

Sources: See additional sources slide.



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Giants draw from mix of assets to serve unique ambitions

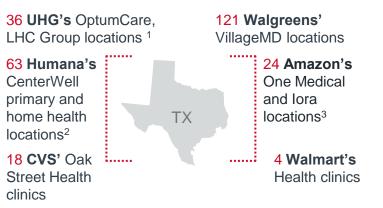
Sample strategic ambitions of corporate players poised to have ripple effects on the industry

	R Cross-sell adjacent services Walgreens, Amazon, CVS	Contain senior care value	Control network operations UHG, KP (Kaiser Permanente)
Corporate ambition	Cross-sell across a diverse healthcare portfolio to capture low-acuity care and pharmacy spend	Coordinate risk-based care across settings in a market to manage longitudinal senior health and capture data	Equip value-based physician groups and select hospital operators to steer patients to preferred cost-effective providers
Hurdles to overcome	Patient conversion, reimbursement economics, partner coordination	Patient attribution, clinician enablement, scaling, government scrutiny, quality	Patient engagement, multi-payer partnerships, referral discipline, cost management, antitrust
Impact on industry <i>Higher</i> <i>Lower</i>	 Consumer data: Insights and cross-sell opportunities increase value of data as a product (and invite scrutiny) Top-of-license care: Pharmacist and APP roles expand to connect care Community hubs: Retail becomes an essential ambulatory partner 	 Attributed lives: Competition forces offensive moves by systems and plans Care continuum assets: Bidding war from pressure to exert vertical control Payment models: Virtuous cycle reinforces value-based care adoption Entangling alliances: Market leaders demand partnerships that exclude rivals 	 Mergers and coalitions: Reactionary consolidation by local systems and plans Performance scrutiny: Cost and quality data integration enable targeted referrals Volumes redistribution: Network managers swing provider market share depending on strategic partner alignment



Corporate strategies adapt to local market dynamics

Demographics and population growth attract competing corporate players



Pressure for attributed lives

pushes aggressive medical group strategy

2021 Walgreens partners with Northwell 2022 Walgreens' VillageMD acquires Summit Health-CityMD 2022 Optum acquires 3+ specialty care practices 2023 Optum acquires Crystal Run Healthcare;

Challenging local delivery finances

creates opening for national player entry



- · Self-contained market with high patient churn
- Growing senior demographic well-positioned for Medicare Advantage strategy

MARKET FACTORS

- · Consolidated physician market
- Prevalence of sophisticated risk-based
 physician practices

- Fragile health system finances
- State pressure on spend and access

Sources: See additional sources slide

· Limited risk-based payment

1. 27 LHC Group locations and 9 Optum Care locations

3. 18 One Medical locations and 6 lora locations.
 4. Market Performance Partnership.

2. 26 primary care locations and ~37 home health locations.

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Riverdale Family Practice

Regional health plans respond to new urgency for scale

Range of health plan consolidation activity amid growth of large nationals and difficult economic climate

Specialized health plan mergers

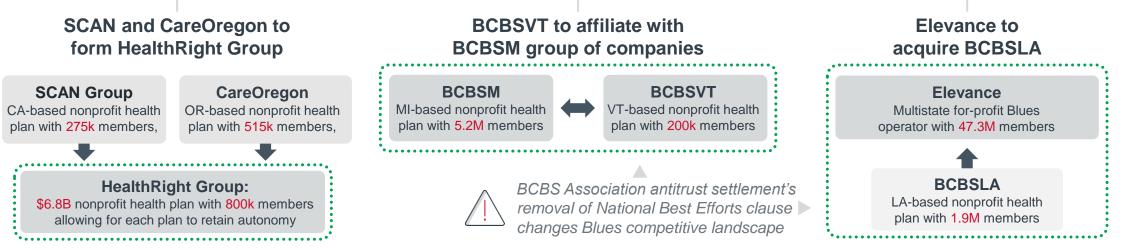
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Similarly sized health plans with unique expertise and relationships merge to amass scale, develop new-in-kind offerings, and maintain autonomy



Regional plans collaborate to scale individual expertise, innovation, and maximize investments while protecting market share

EXAMPLES



Sources: "Blue Cross and Blue Shield of Vermont and Blue Cross Blue Shield of Michigan Pursue Affiliation," BCBS VT, May 2023; and "Blue Cross and Blue Shield of Vermont to affiliate with Michigan counterpart," VTDigger, May 2023; "SCAN Group, CareOregon plan merger into HealthRight Group, "Modern Healthcare, December 2022; "Elevance Health To Buy Louisiana Blue Cross Plan," Forbes, January 2023.

Traditional

acquisition

competitive by aligning

with a larger operator to

strengthen market share

Smaller plans remain

Systems face unrelenting financial struggle

Core challenges to hospital-based care finances



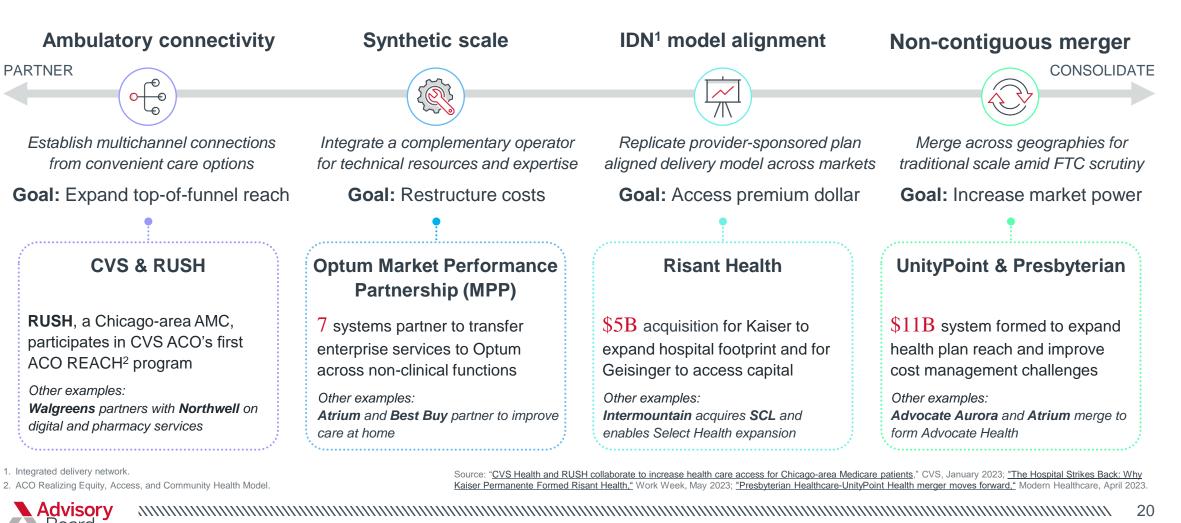
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Strategic lifelines emerge for system partners



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A new strategy: combine (and coordinate) VBC entities

KP (Kaiser Permanente) offers a new option for not-for-profit health systems: VBC enablement and health plan partner

KP (owner) Regional nonprofit health plan and system across 8+ states

Risant

\$5B nonprofit subsidiary **formed by KP** in April 2023 providing VBC enablement services



Today: Geisinger

Nonprofit PA-based health plan and system gains \$215M for expansion efforts and research enterprise



Future: 4-5 future members

\$2B+ allocated to support additional community health systems in multi-payer, multi-provider environments

ADVISORY BOARD'S TAKE

- Why it's different
 - VBC enablement services by a provider organization, not a consulting company
 - Attempt to shape national VBC adoption to extend health plan footprint, not a pure economies of scale play

What to watch

- Will the FTC intervene?
- Which health systems will Risant target next?
- How open is Risant to working with national plans?



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Source: <u>"Fast facts,"</u> Kaiser Permanente, 2023; <u>"What Kaiser's Acquisition Of Geisinger Means For Us All,"</u> Forbes, May 2023; <u>"The Hospital Strikes Back: Why Kaiser Permanente Formed Risant Health,</u>" Work Week, May 2023.

Systems' survival strategies leaves access gaps

Health systems make tough choices...



services

Rationalized 1 CON Americans live in m

50

Americans live health profession

Americans live in mental healthcare health professional shortage areas

Hospitals closed their labor and

delivery departments, 2011-2022



Service line closures

7M Women of childbearing age live in maternity care deserts

Rural hospital closures,

Decreases in the number



Hospital closures

Rural U.S. areas designated as medically underserved

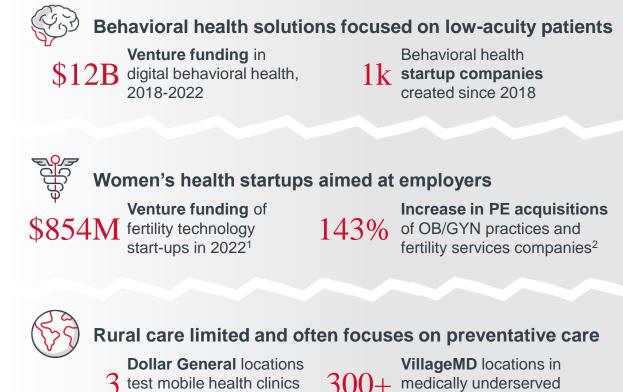
2016-2021

1. Compared to \$306M in 2017.

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



...other sectors step in with patchwork solutions



to improve rural care

 medically underserved communities by 2027

See additional sources slide for sources.

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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	e and intake Asynchronous chatbots		Study found that GPT-3 accurately		
PATIENT CARE JOURNEY	Detection and screening	Imaging interpretation		Speech and text analytics O	detected Alzheimer's 80% of the	
	Diagnosis		Diagnostic decisior	n support systems	time from spontaneous speech	
	Quality and risk gap detection	Predictive analytics ale	erts			
	Treatment planning	Condition-specific orde	er sets	Treatment recommendation systems	Nuance DAX ¹ saves 7 minutes per physician encounter by translating	
	Visit documentation	Ambient listening and the second s	transcription O		conversations into clinical notes	
	Prior auth processing		Automated drafting	I		
	Direct treatment	Robotic surgery		Digital therapeutics O	EndeavorRx first FDA-approved video game digital therapeutic for children with ADHD	
	Medication management	Mobile app reminders		Smart pill ingestible sensors		
	Supplies distribution		Robotic assistants			
	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 m	aking platforms		
\checkmark	Follow-up care	→ RPM ²	Asynchronous chat	tbots		

Dragon Ambient eXperience.
 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 AI Could Help Catch Alzheimer's Early," WebMD, February 2023.

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

Resist magical thinking.

"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 technology building blocks.

Top 3 "back to basics" provider strategies seen in 2023

01 Ma

Maximize value of existing systems (i.e., are you using all the functionality built into the EHR¹?)

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

1. Electronic health record

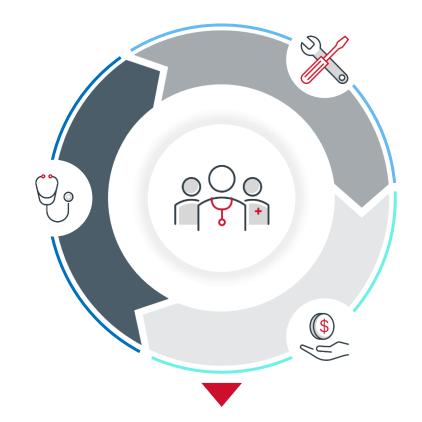


Tech can't replace humans, but it will change their roles

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

ROLE Who does what tasks?

- As technology makes some tasks faster, what will clinicians 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?



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