

The Details... **Connecting The Trends Health, Value & Digital**

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Agenda

Health

Value

Digital

Smart Governance



Clinical Needs Have Changed

| Year | Life Expectancy | Death Rate (per 100,000) | Leading Causes of Death | Clinical Need |
|------|-----------------|-----------------------------|--|--------------------------------|
| 1900 | 47 | 1,719 | Pneumonia Influenza Tuberculosis Diarrhea GI disease | Acute |
| 1950 | 68 | 963 | Heart Disease Cancer Cerebrovascular | Acute Chronic |
| 2000 | 77 | 865 | Heart Disease* Cancer* Cerebrovascular | Chronic Acute Prevention |
| 2050 | ? | ? | ? | Prevention Chronic Acute |

^{*} Cancer is currently the leading cause of death for certain age groups

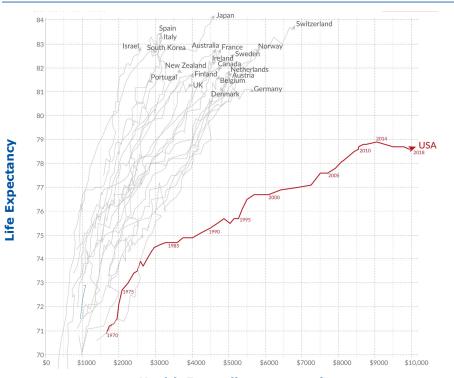
We Have A Systemic Problem

- 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)

Life expectancy vs. health expenditure

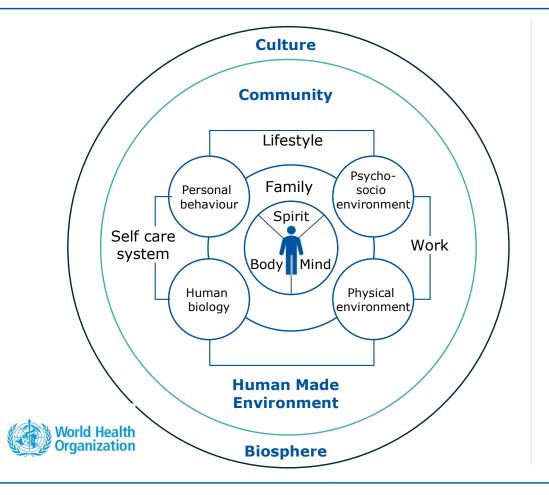
From 1970 to 2018



Health Expenditure per capita

Adjusted for inflation and price differences between countries (PPP)

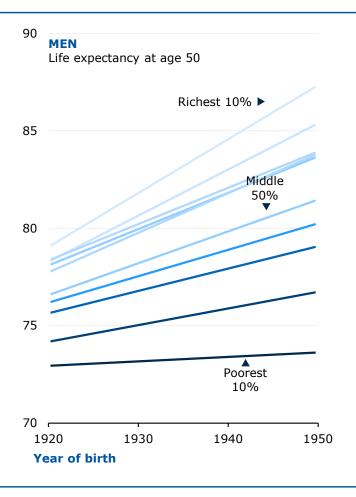
Health is a State of Physical, Mental and Social Well-Being that is Dependent Upon the Social Determinates of Health

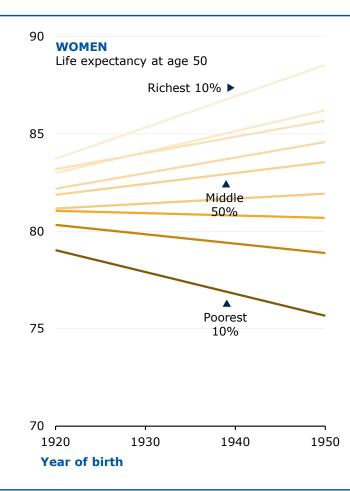


Social Determinants of Health



Health Equity Is Real





Adverse Childhood Experiences

Abuse Neglect Household Dysfunction Physical Physical Physical Mental Illness Incarcerated Relative Mother treated violently Substance Abuse

Divorce

ACE-related odds of having a physical health condition

| Health condition | 0 ACEs | 1 ACEs | 2 ACEs | 3 ACEs | 4+ ACEs |
|------------------|-----------|-----------|-----------|-----------|------------|
| Arthritis | 100% | 130% | 145% | 155% | 236% |
| Asthma | 100% | 115% | 118% | 160% | 231% |
| Cancer | 100% | 112% | 101% | 111% | 157% |
| COPD | 100% | 120% | 161% | 220% | 399% |
| Diabetes | 100% | 128% | 132% | 115% | 201% |
| Heart Attack | 100% | 148% | 144% | 287% | 232% |
| Heart Disease | 100% | 123% | 149% | 250% | 285% |
| Kidney Disease | 100% | 83% | 164% | 179% | 263% |
| Stroke | 100% | 114% | 117% | 180% | 281% |
| Vision | 100% | 167% | 181% | 199% | 354% |

Sexual

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What Is Health

Value

Digital

Smart Governance

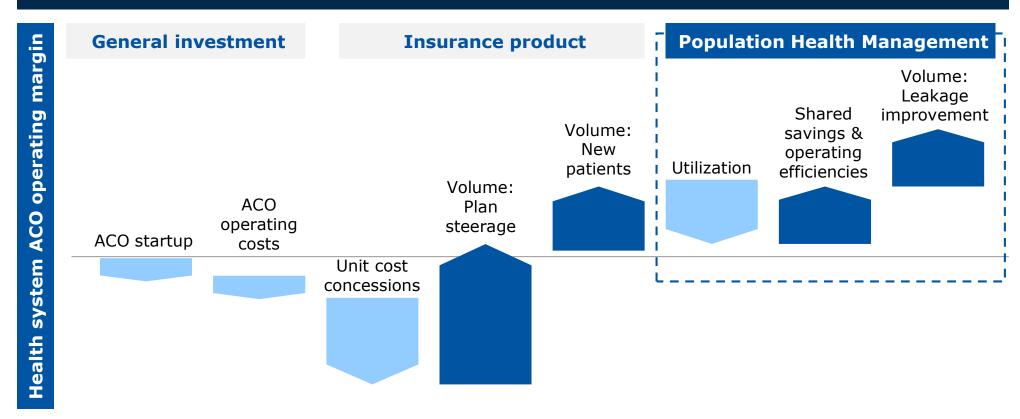


The Shift To Value

Traditional Care Value-based Care Consumers are at the center of the Complicated healthcare system Consumer healthcare system, empowered with confuses and frustrate consumers experience more information and support Reactive, transactional care Care Proactive, preventive care, with an delivered in response to an injury or delivery emphasis on keeping people healthy illness Lack of technology and incentives Physicians empowered by new Care for physicians to coordinate patient technology, data and financial coordination incentives to coordinate care care Data trapped inside massive Data can be mined to identify patient **Data and @** repositories; lack of sophisticated health risks, improve care coordination information analytics and enhance efficiency Insurance companies and care Costs climb without corresponding Costs providers are paid based on quality and health improvements patient health improvements

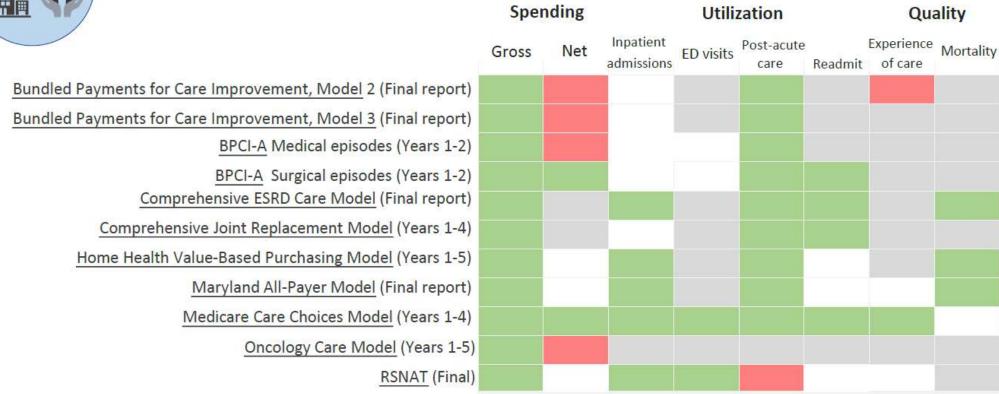
A Theory to Support The Shift to Value

A transformative financial model that improves quality, reduces cost and ensures sustainability





Acute or Specialty Care & Targeted Population models, serving sicker, higher cost beneficiaries, reduced expenditures, admissions, and/or post-acute care with limited improvement in quality.





Primary Care & Population Management models, serving healthier, lower cost beneficiaries, improved less utilization measures in the short-term with half of models reducing gross spending.

| | Sper | nding | | Utili | Quality | | | |
|---|-------|-----------|----------------------|-------|--------------------|------------|--------------------|-----------|
| | Gross | Net | Inpatient admissions | | Post-acute care | Readmit | Experience of care | Mortality |
| ACO Investment Model (Final report) | | | | | | | | |
| Advance Payment ACO Model (Final report) | | | | | | | | |
| Comprehensive Primary Care Initiative (Final report) | | | | | | | | l l |
| Comprehensive Primary Care Plus (Years 1-4) | | | | | | | | |
| FAI, Washington (Years 1-6) | | | | | | | | |
| Independence at Home Demonstration (Years 1-5) | | | | | | | <u> </u> | |
| Medicare Advantage Value-Based Insurance Design Model (Years 1-3) | | | | | | | | I. |
| Million Hearts: Cardiovascular Disease Risk Reduction Model (Years 1-4) | | | | | | | | |
| Next Generation ACO Model (Years 1-4) | | | | | | | | |
| Part D Enhanced Medication Therapy Management Model (Years 1-3) | | | | | | | | |
| Pioneer ACO Model (Final) | | | | | | | | |
| Vermont All-Payer ACO Model (Years 1-2) | | ACO state | e | | ACO only | State only | | |

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Health

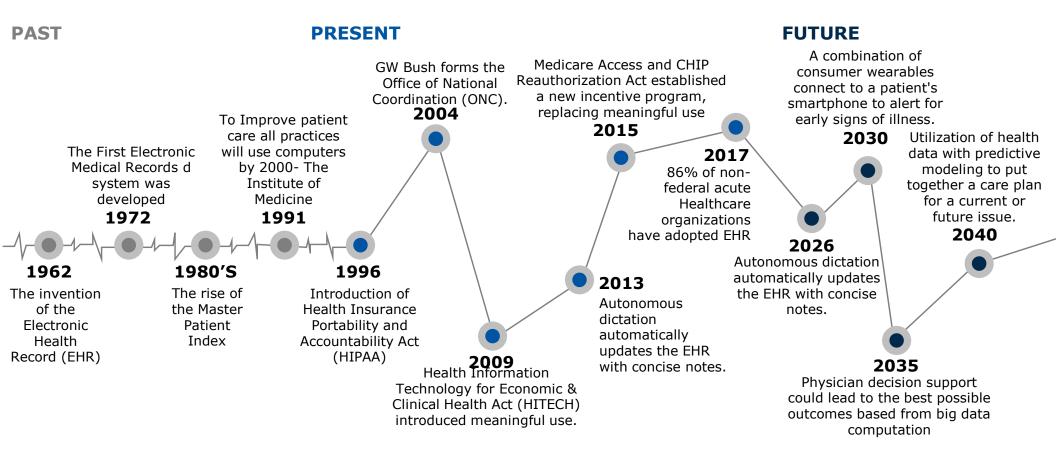
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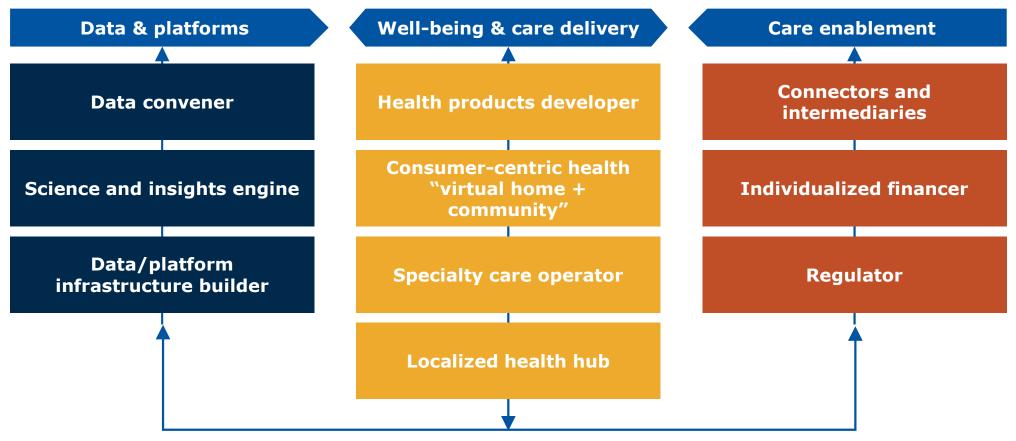
Smart Governance



Evolution of Electronic Health Records

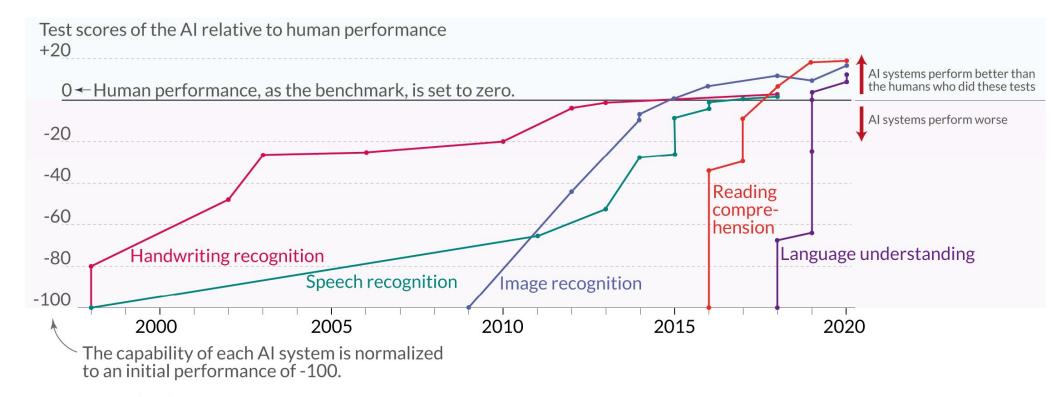


Digital Business Archetypes



Powered by radically interoperable data for a personalized and seamless consumer experience

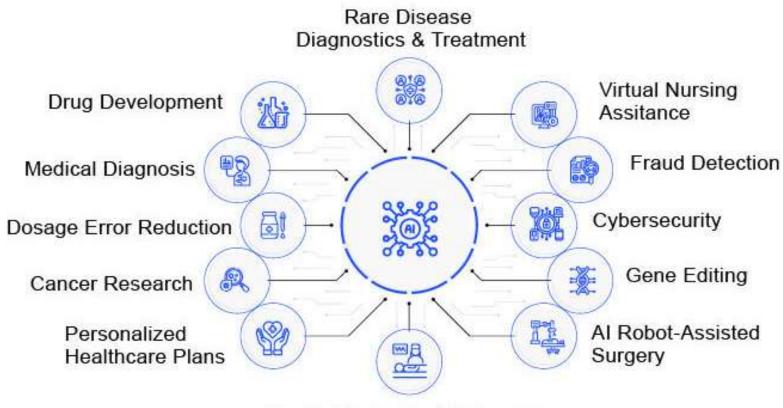
AI System Capabilites Have Rapidly Increased



Data source: Kiela et al. (2021) – Dynabench: Rethinking Benchmarking in NLP OurWorldinData.org – Research and data to make progress against the world's largest problems.

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AI Has Great Promise For The Future



Health Monitoring & Wearables

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Governance and Organizational Structure



Key Strategic Questions

- 1. What are the goals for our PHM initiative?
- 2. Do you need a separate organization to organize and manage population health management?
- 3. Do you want/need an independent or advisory board for this organization?
- 4. How engaged are physicians and providers?
- 5. What is the right composition for the board?
- 6. What committees should be created?
- 7. What best practices and systems for monitoring progress?

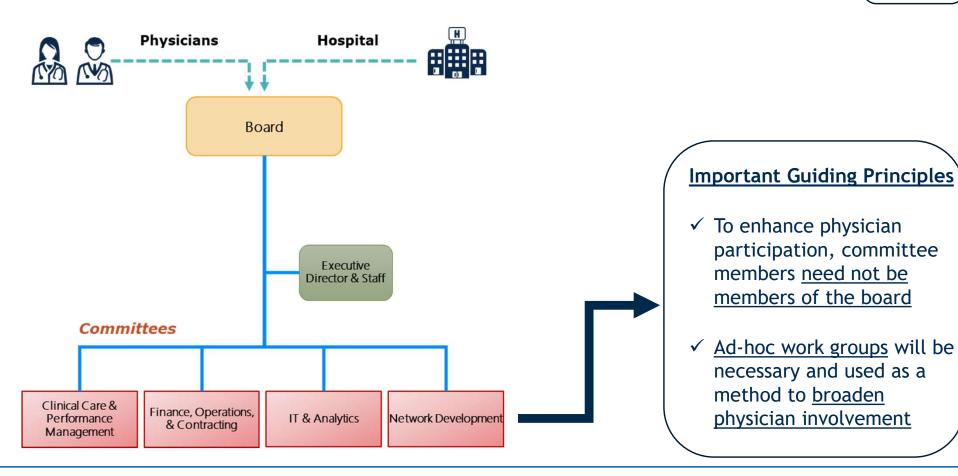


Risk Best Practices

- ✓ Include representatives from relevant provider segments in the planning
- ✓ Provider lead, professionally managed
- ✓ Education and mentorship programs for providers in management and governance
- ✓ Competency based roles
- ✓ Clear conflict of interest policy
- ✓ Governance structure should balance provider leadership and involvement in decision making with owners' reserve powers
- ✓ Aligned incentives

Functions of Governing Bodies





Contracting & Financial Modeling





Key Strategic Questions

- 1. What is the availability of value-based products in your market today?
- 2. What is your price/cost position relative to the market?
- 3. Does your payor strategy and/or product portfolio capitalize on the enterprise's distinct value proposition to advance the mission, vision, and strategic objectives?
- 4. What is the role of primary care and specialists in your organization?
- 5. How are physician incentives aligned with organizational goals?

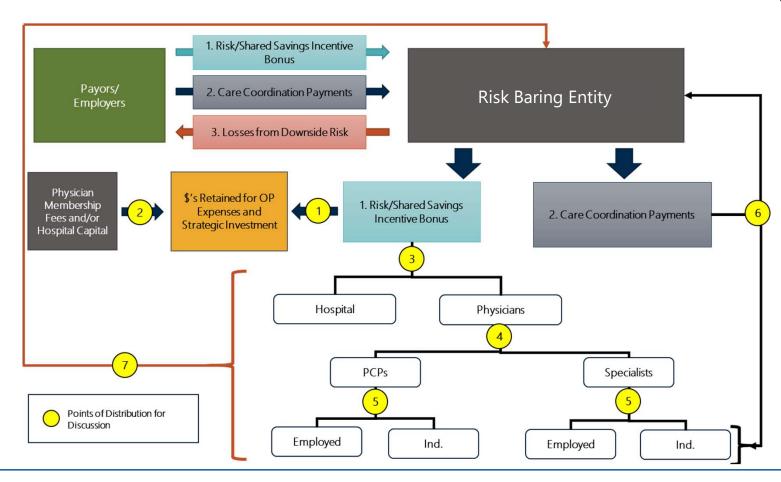


Risk Best Practices

- ✓ Proactively develop a contracting strategy and product portfolio approach
- ✓ Aligned incentive model to overall clinical strategy
- ✓ Continues to refine incentive and risk distribution based on experience
- Real-time monitoring of financial performance of risk contracts

High Level Funds Flow for Incentive Distribution





Network Configuration & Management





Key Strategic Questions

- 1. What processes are in place to develop and sustain a requisite physician and delivery network?
- 2. What physicians and delivery network would be necessary to effectively manage the health of target populations?
- 3. What evidence-based best practices and systems for monitoring provider adherence has the health system put in place?



Risk Best Practices

- ✓ Advanced approaches to attracting strategic network targets
- ✓ Optimizes network of owned and contracted services for full access across the continuum
- ✓ Primary care network is aligned and integrated for target populations

Participant Characteristics and Network Adequacy



Desired Participant Characteristics

- Dedicated to the vision of improving children's health and the delivery of care
- Collaborative and communicative with other providers and supporting staff to better coordinate care
- Supportive of the transition to value-based care
- Willing to take accountability for performance and to work with others to continuously improve overall performance
- Willing to utilize consensus-driven care pathways in pursuit of enhanced quality of care and lower cost

Network Adequacy Example

| onth Provider Type | Hospital | Allergy and Immunology | Cardiology | Cardiothoracic Surgery | Chiropractor | Dermatology | Endocrinology | ENT/Otolaryngology | Gastroenterology | General Surgery | Gynecology, OB/GYN | Infectious Diseases | Nephrology | Neurology | Neurosurgery | Oncology - Medical/Surgical | Oncology - Radiation | Ophthalmology | Orthopedic Surgery | Pediatrics | Rehabilitative Medicine | Plastic Surgery | Podiatry | Primary Care | Psychiatry | Pulmonology | Rheumatology | Urology | Vascular Surgery |
|-----------------------|----------|------------------------|------------|------------------------|--------------|-------------|---------------|--------------------|------------------|-----------------|--------------------|---------------------|------------|-----------|--------------|--------------------------------|----------------------|---------------|--------------------|------------|-------------------------|-----------------|----------|--------------|------------|-------------|--------------|----------|------------------|
| County A | 1 | 1 | 1 | ✓ | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ✓ | ✓ | 1 | 1 | 1 | 1 | ✓ | ✓ | ✓ | 1 | | ✓ | ✓ | ✓ | 1 | 1 | 1 |
| County B | | ✓ | ✓ | ✓ | | 1 | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 1 | 1 | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 1 | 1 | ✓ |
| County C | 1 | ✓ | 1 | ✓ | | 1 | ✓ | 1 | 1 | 1 | 1 | 1 | ✓ | 1 | 1 | 1 | 1 | ✓ | 1 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 1 | 1 | 1 |
| County D | | V | ✓ | ✓ | | 1 | ✓ | 1 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | 1 | 1 | 1 | 1 |
| County E | 1 | ✓ | ✓ | ✓ | | 1 | ✓ | 1 | 1 | 1 | 1 | ✓ | ✓ | ✓ | ✓ | 1 | 1 | 1 | ✓ | ✓ | ✓ | ✓ | | 1 | ✓ | ✓ | 1 | 1 | ✓ |
| County F | 1 | 1 | 1 | ✓ | | 1 | 1 | ✓ | ✓ | ✓ | | 1 | ✓ | ✓ | ✓ | ✓ | 1 | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | 1 | 1 | 1 |
| County G | | ✓ | 1 | ~ | | 1 | 1 | ✓ | 1 | 1 | | ✓ | ✓ | 1 | √ | √ | ✓ | ✓ | √ | ✓ | ✓ | 1 | | ✓ | √ | 1 | 1 | ✓ | 1 |
| County H | | | 1 | | | | | | | | | | | | | 1 | | | | | | | | ✓ | | | | | 1 |
| County I | | | 1 | | | | | | | | | | | | | 1 | | | | | 1 | | | 1 | | | | | 1 |
| County J | | 1 | ✓ | ✓ | | 1 | 1 | ✓ | ✓ | 1 | | 1 | ✓ | ✓ | ✓ | ✓ | 1 | ✓ | ✓ | | ✓ | ✓ | | | ✓ | ✓ | 1 | 1 | 1 |
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| County L | | 1 | 1 | ✓ | | 1 | ✓ | 1 | 1 | 1 | | ✓ | 1 | 1 | ✓ | 1 | 1 | 1 | 1 | | 1 | 1 | | | 1 | ✓ | 1 | 1 | ✓ |
| County M | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | ✓ | | | 1 | 1 | 1 | 1 | ~ |

Care Management & Clinical Collaboration





Key Strategic Questions

- 1. What care management systems are in place to create a seamless care process for patients?
- 2. How does the system manage transitions of care?
- 3. How will the health system manage or coordinate services over the full continuum of care?
- 4. What tools are in place to engage patients and their caregivers in their own care?



Risk Best Practices

- ✓ Advances evidence-based systems of care based on specific target populations
- ✓ Strong measurement of performance with performance improvement embedded in operations
- ✓ Proactive deployment of care management for at-risk individuals

Business Intelligence/Analytics & Connectivity





Key Strategic Questions

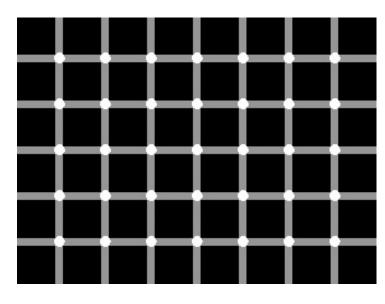
- 1. What capabilities do the EHR and other IT systems have to support population health management?
- 2. How robust is the health system's ability to aggregate data and share information across the care continuum?
- 3. Can the health system segment and stratify its patient population?
- 4. What is the best way to ensure data governance?



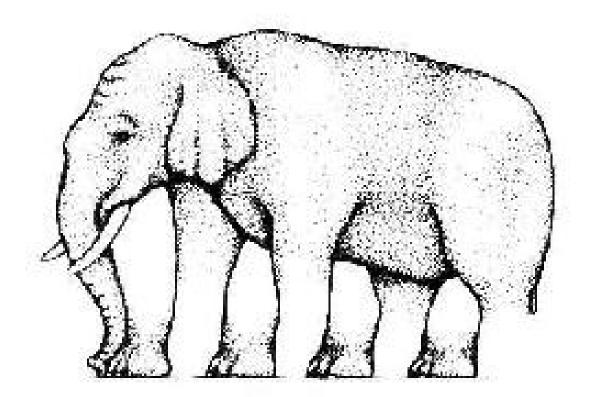
Risk Best Practices

- ✓ Single, comprehensive data warehouse with robust policies and procedures for governance
- ✓ Ability to risk stratify with consistent population attribution
- ✓ Uses predictive modeling to anticipate the community needs
- ✓ Integrates other data types to refine risk adjustment

Lots of Different Perspectives



How many black dots? How many white dots?



THANK YOU

