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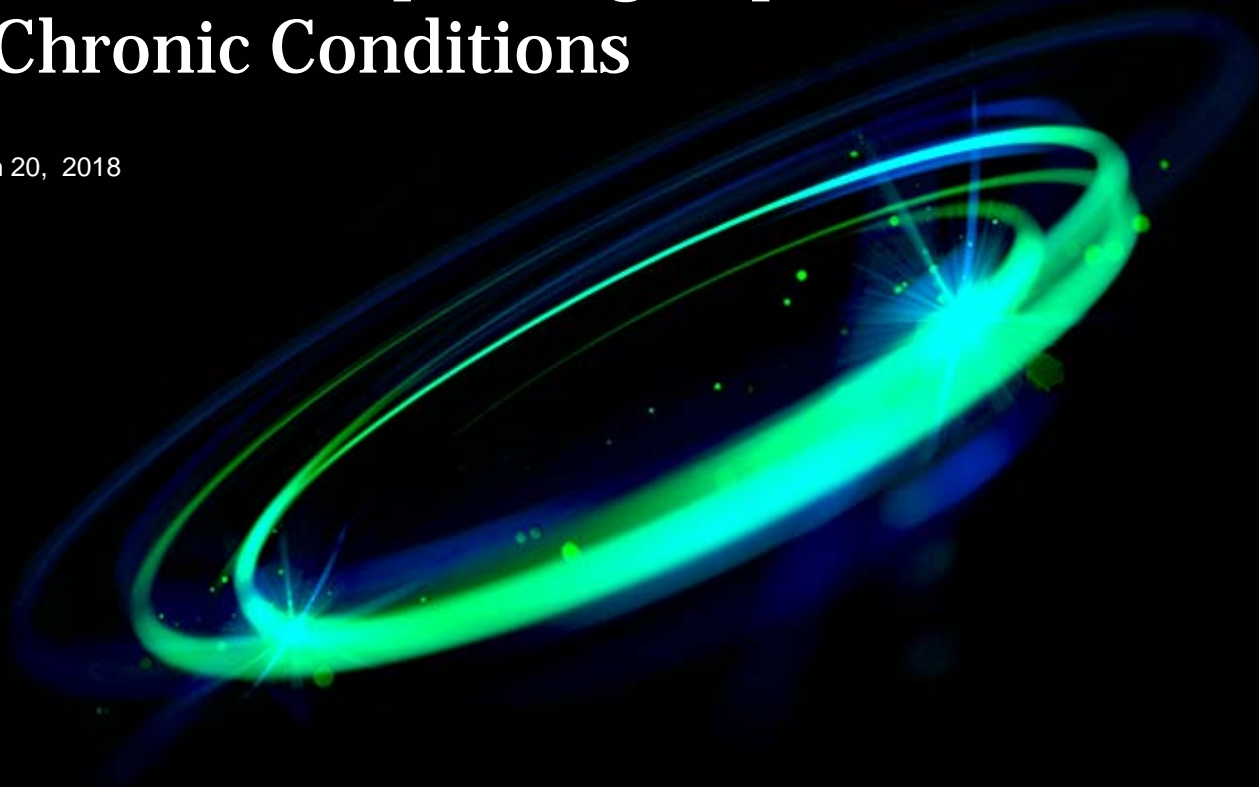
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# Mini Summit IV Best in Class Collaboration Models with Pharma for Improving Population Health in Chronic Conditions

March 20, 2018



# Objective

**Present models of how health systems and pharmaceutical manufacturers can work together to address chronic conditions, such as multiple sclerosis (MS) and diabetes, within the population health framework.**

**Topics covered will include the use of data analytics, quality metrics, care pathways, and roles of patients, providers, and payers.**

# Agenda

## **Landscape Review and Policy Trends Toward Value-Based Care**

- David B. Nash, MD, MBA, FACP, Dean, Jefferson College of Population Health, Thomas Jefferson University

## **Transformation Through Disruptive Innovation**

- Kristina Yu-Isenberg, PhD, MPH, RPh, VP, Head of Evidence Generation & Analytics, Intarcia Therapeutics

## **Systematically Improving Population Health in Chronic Neurological Conditions: The Multiple Sclerosis Case Example**

- Terrie Livingston, PharmD, Senior Director, US Medical, Biogen

## **Panel Discussion**

- Kristina Yu-Isenberg, PhD, MPH, RPh, VP, Head of Evidence Generation & Analytics, Intarcia Therapeutics
- Terrie Livingston, PharmD, Senior Director, US Medical, Biogen
- Drew A. Harris, DPM, MPH, Assistant Professor, Jefferson College of Population Health, Thomas Jefferson University

# Landscape Review and Policy Trends Toward Value-Based Care

**Dr. David Nash**

**Thomas Jefferson University College of Population Health**

**March 20, 2018**



The Access Group®

# Achieving Quality and Value Has Been a Fundamental Goal For Our Health Care System



1. Institute of Medicine. *Crossing the Quality Chasm: A New Health System for the 21st Century*. Washington, DC: National Academies Press; 2001. <http://www.nationalacademies.org/hmd/~media/Files/Report%20Files/2001/Crossing-the-Quality-Chasm/Quality%20Chasm%202001%20%20report%20brief.pdf>. Accessed July 16, 2017. 2. Institute of Medicine. *Envisioning the National Health Care Quality Report*. Washington, DC: National Academies Press; 2001.

# We Are Making Progress

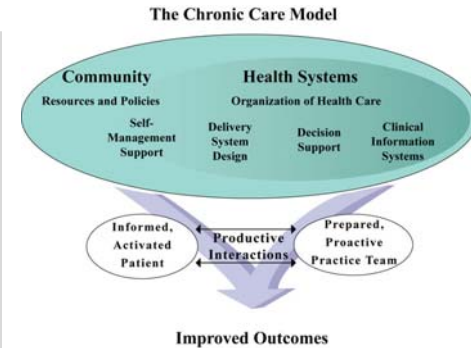
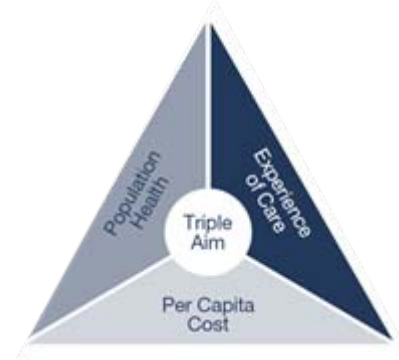
- The shift from volume to value is occurring slowly
- Some aspects are improving more quickly than others
- Stakeholders are evolving to align with value-driven goals



# Policies and Programs Have Been Implemented to Promote Value-Based Care

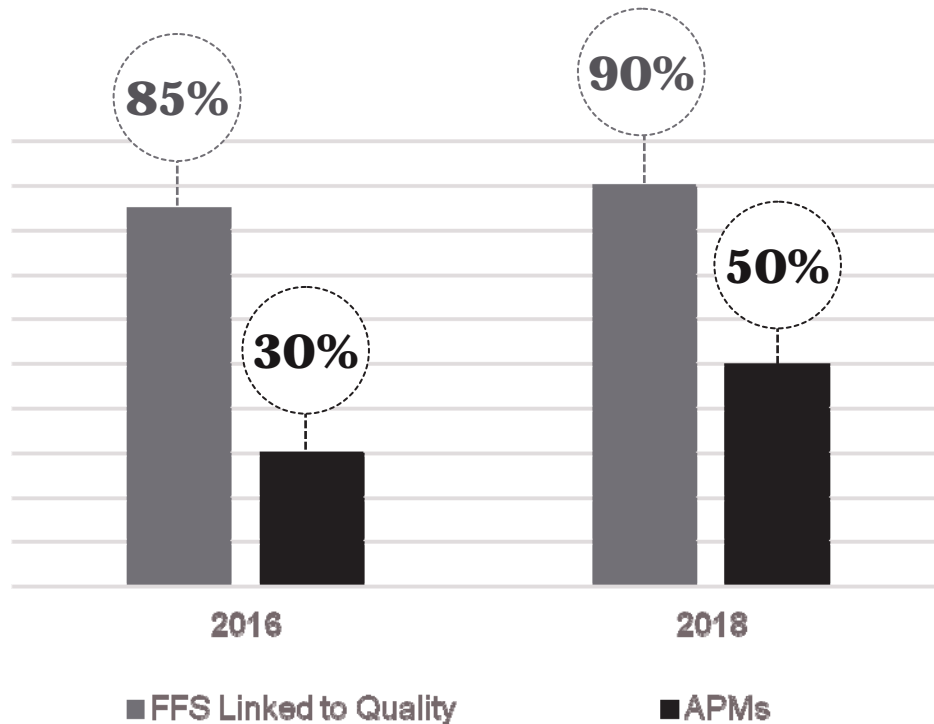


Nine Levers to Achieve Improved Health and Health Care



# Achieving Quality and Value by Being Better, Smarter, and Healthier: Delivery System Reform

In January 2015, HHS announced unprecedented goals to migrate FFS payments to APM and value-based payments



APM=alternative payment model

FFS=fee for service

HHS=US Department of Health and Human Services.

Centers for Medicare & Medicaid Services website. <https://www.cms.gov/Newsroom/MediaReleaseDatabase/Fact-sheets/2015-Fact-sheets-items/2015-01-26-3.html>. Published January 26, 2015. Accessed July 26, 2017.

# Incentive and Quality Programs Are Continually Being Developed to Emphasize Value

Ambulatory Surgical Center Quality Reporting (ASCQR)  
Appropriate Use Criteria Program

Center for Medicaid and CHIP Services (Medicaid EHR Incentive)  
Comprehensive Primary Care  
Quality Improvement Organizations

**Medicaid**



## Bundled Payments for Care Improvement (BPCI) Advanced

Dual-Eligible Beneficiaries Program  
Electronic Prescribing Incentive Programs

Nursing Home Compare  
Nursing Home Quality Initiative

End-Stage Renal Disease (ESRD) Quality Incentive Program

## HEDIS Quality Measure Rating System

Home Health Quality Reporting  
Home Health Value-Based Purchasing

Hospice Quality Reporting  
Hospital-Acquired Condition Reduction Program (HACRP)

Hospital Value-Based Purchasing  
Hospice Quality Reporting

Physician Quality Reporting System

## Medicare Part D Star Rating

Hospital Inpatient Quality Reporting  
Hospital Outpatient Quality Reporting  
Payment System-Exempt Cancer Hospital Quality Reporting  
Physician Feedback/Quality Resource Use Report  
Medicare and Medicaid EHR  
Physician Value-Based Payment Modifier

Inpatient Psychiatric Facility Quality Reporting (IPFQR)  
Inpatient Rehabilitation Facility (IRF) Quality Reporting

Medicare Part C Star Rating

## Medicare Shared Savings

Long-Term Care Hospital (LTCH) Quality Reporting  
Medicare Advantage Quality Improvement Program

## Merit-based Incentive Payment System

Outcome and Assessment Information Set (OASIS)

## Hospital Compare

Prospective Payment System-Exempt Cancer Hospital Quality Reporting

## Quality Payment Program

Skilled Nursing Facility Value-Based Purchasing Program (SNFVBP)

Post-Acute Care Quality Initiatives

Program of All-Inclusive Care for the Elderly (PACE)

Incentive Program for Eligible Hospitals or Critical Access Hospitals

Medicare and Medicaid EHR Incentive Program for Eligible Professionals

Qualified Health Plan (QHP) Quality Rating System (QRS)

## Hospital Readmissions Reduction Program (HRR)

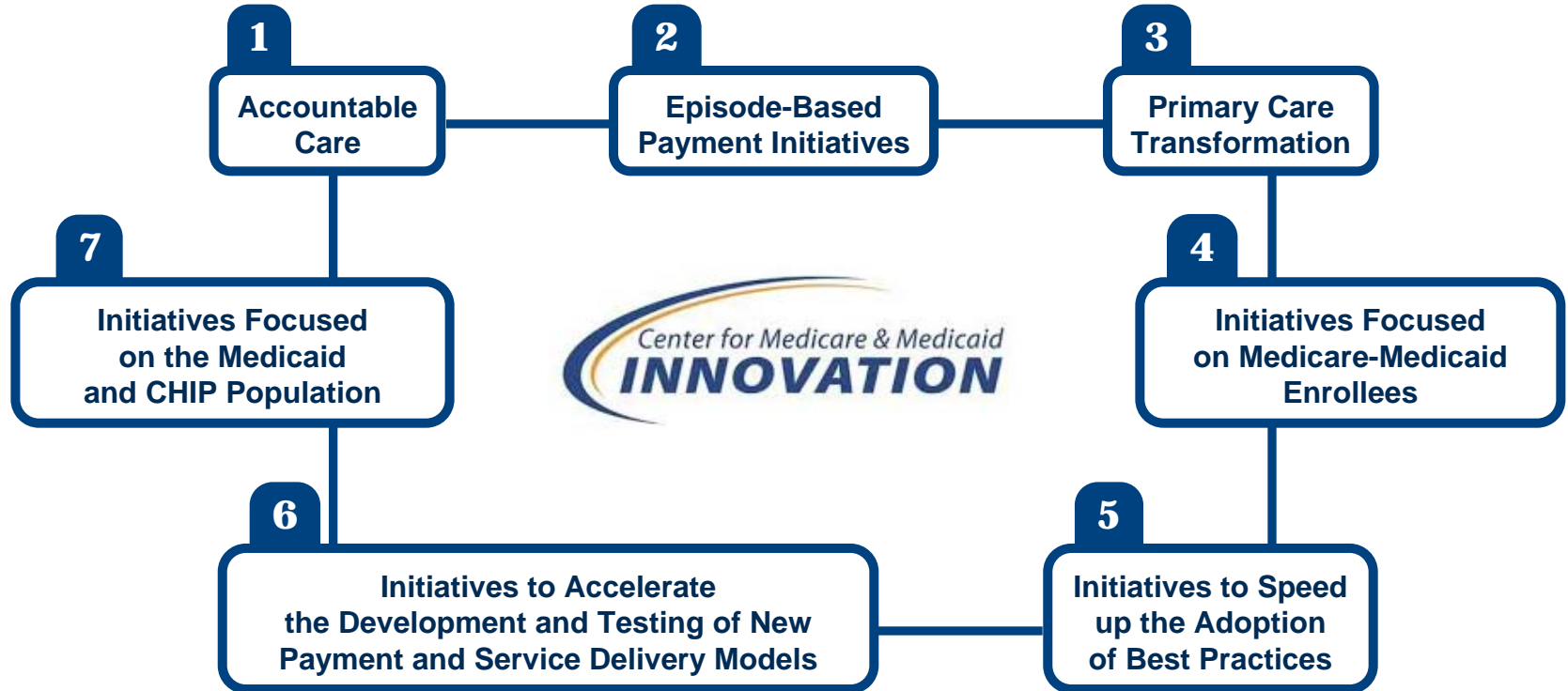
Skilled Nursing Facility (SNF) Quality Reporting Program

Value-Based Modifier (VM) Program

Value Based Programs

Physician Compare Initiative

# CMS Innovation Center Develops New Payment and Service Delivery Models That Focus on 7 Categories



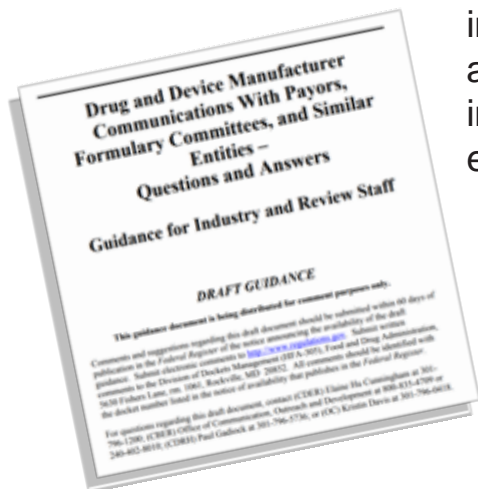
CMS=Centers for Medicare & Medicaid Services.

# The FDA is Changing the Way Payers Evaluate Pharmaceutical Products Based on RWE and Health Economics



## FDAMA Section 114 Renewed Interest<sup>1</sup>

Renewed interest stems largely from the increasingly visible and growing interest in comparative effectiveness research



## The 21st Century Cures Act



Designed to help accelerate medical product development and bring new innovations and advances to patients who need them faster and more efficiently

## Manufacturers Are Getting Involved

Pfizer O



## Management

### Biogen Confirms Commitment to Tackle Multiple Sclerosis Through Comprehensive Approach

- New data from more than 80 oral and poster presentations, including research on potential
- Updates on real-world data generation initiatives, including MS Data Network, and the Big MS Data Network, intended to

multiple sclerosis (MS)

At **Intarcia**, our goal is to develop and commercialize drug therapies that improve patient outcomes while

AstraZeneca No  
Support for Pati  
Respiratory Cor

SAN FRANCISCO, Calif. – April 13th, 2015 – Practice Fusion, the nation's largest cloud-based electronic health records (EHR) platform, and AstraZeneca today announced a Population Health Management (PHM) program that arms members of Practice Fusion's community of 112,000 medical professionals with data-driven insights that can help them in their efforts to improve care for patients with asthma or chronic obstructive pulmonary disease (COPD).

## Management



IN PARTNERSHIP WITH  
**Jefferson College of Population Health**



PRESCRIPTIONS FOR EXCELLENCE IN  
**HEALTH CARE**  
A COLLABORATION BETWEEN JEFFERSON COLLEGE OF POPULATION AND QUANTITATIVE HEALTH SCIENCES AND THE JEFFERSON MEDICAL COLLEGE

HEALTH CARE

A COLLABORATION BETWEEN JEFFERSON COLLEGE OF POPULATION HEALTH AND LILLY USA, LLC

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EDITORIAL

**EDITORIAL**  
**Back to the Future**  
David B. Nash, MD, MBA  
Editor-in-Chief

A little more than a decade ago, the Picker Institute commissioned the Institute for Alternative Futures (IAF) to help create "a shared vision for patient-centered care." Back in 2004, patient-centered care was not even in the lexicon of most hospitals, nursing homes, or medical practices — this was the job for consumer groups.

are optimistically. Scenario 3 envisions a convergence of scientific knowledge, information tools, public understanding, and emergence of a transformed health system. High quality, safety, and effectiveness prevailed at a 10% of gross domestic product

Scenario 4 foresees  
borderline environments  
with services structured  
on accountability and  
ties to patients, physicians,  
or stakeholders. Hallmarks  
include open access to  
on-coaching, and support  
bionorming systems;  
ties in medical, social,  
and technologies.

I find it fascinating that, although no scenario got a 100% right, we've made tremendous progress.

CONTINUED

Thomas Jefferson University  
Jefferson College of Population Health

Lilly



# Transforming the Chronic Disease Treatment Paradigm With Disruptive Innovation

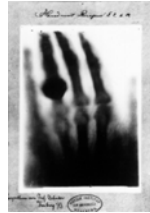
Kristina Yu-Isenberg, PhD, MPH, RPh  
VP, Head of Evidence Generation & Analytics  
March 20, 2018

# Innovations have altered the landscape of disease treatment

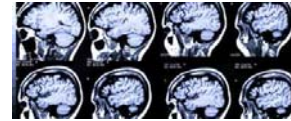
**Anesthesia**  
1846



**Radiography**  
1895



**MRI/CT**  
1970s



**Electronic drug delivery**  
2000s



**Small pox vaccination**  
1796



**Penicillin**  
1940s



**Minimally invasive surgery**  
1980s



The United States has contributed more toward innovation in basic science, diagnostics, and therapeutics than any other country, and in some cases, more than all other countries combined<sup>1</sup>

1. Whitman G, et al. Bending the Productivity Curve: Why America Leads the World in Medical Innovation. 2009. <https://www.cato.org/publications/policy-analysis/bending-productivity-curve-why-america-leads-world-medical-innovation>. Accessed March 8, 2018.

# Medicine is evolving from acute symptomatic treatment to chronic disease management

## “Sick-care”

Acute care model and its cultural, technological, and economic underpinnings remain embedded in every aspect of our health care system<sup>1</sup>

## Burden of disease toward chronic conditions has accelerated<sup>1</sup>

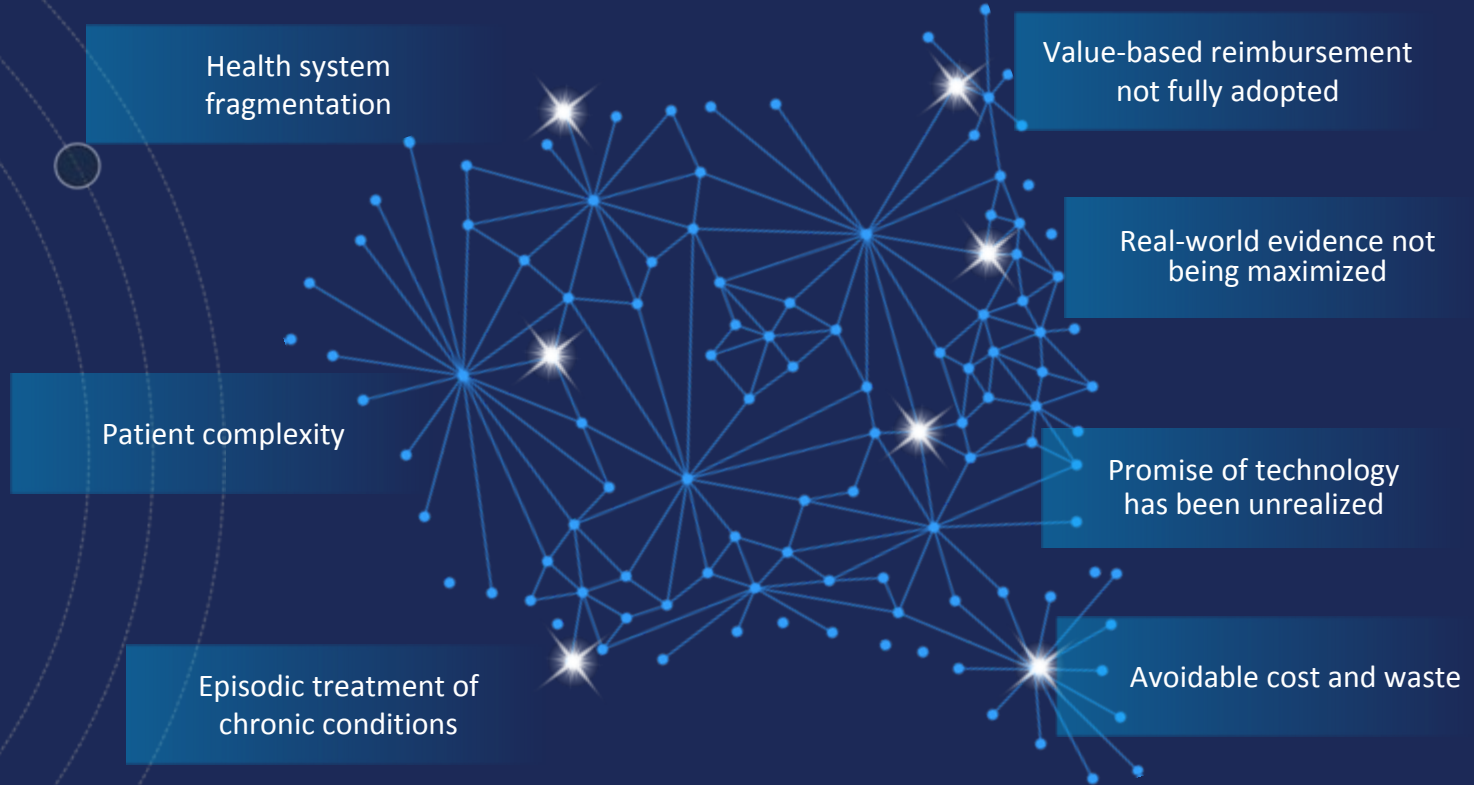
In the United States, 117 million people have ≥1 chronic health conditions<sup>2</sup>



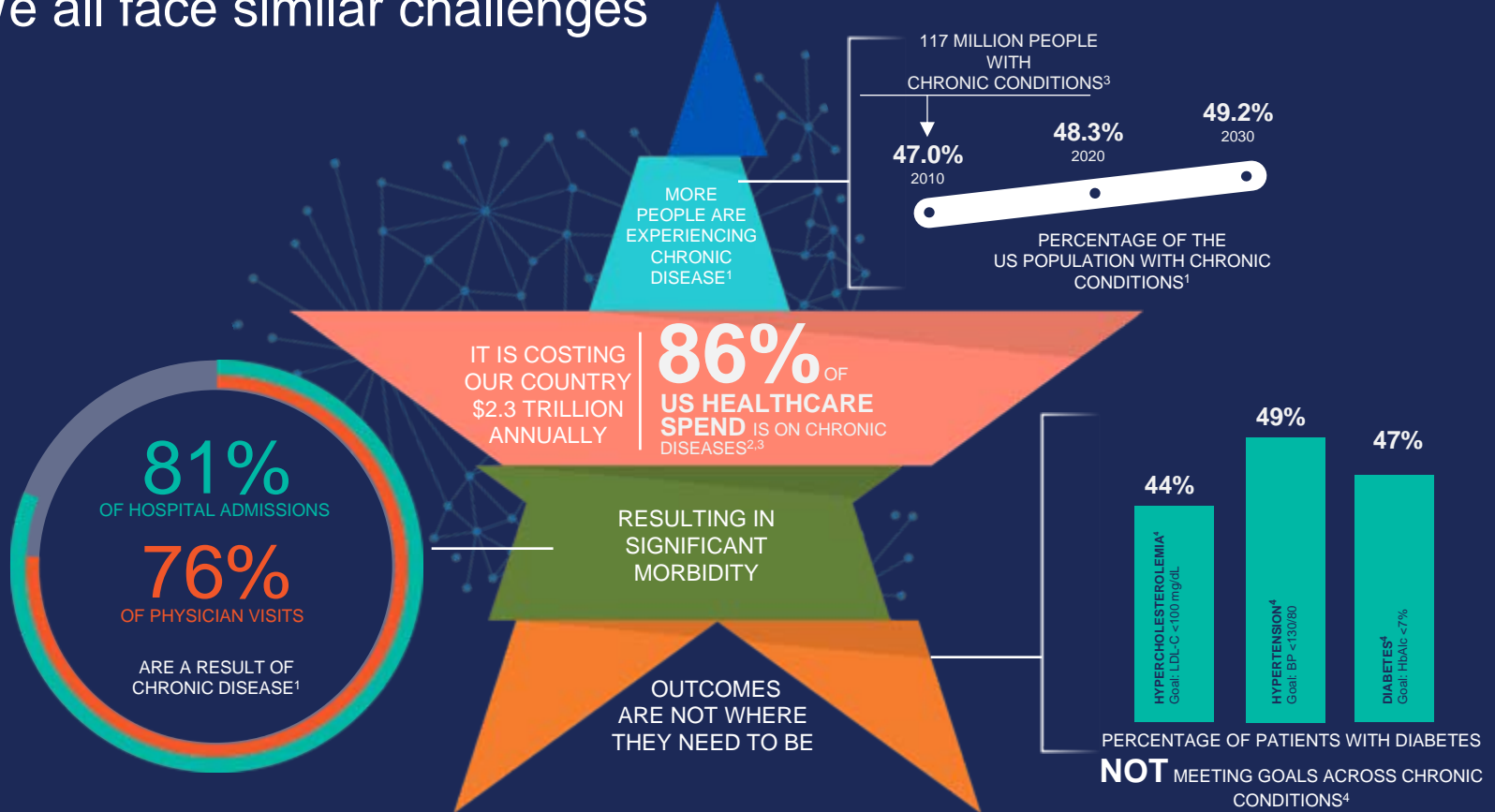
## “Chronic care”

Epidemiologic progression of chronic disease demands planned integrated holistic approach to its management<sup>1,3</sup>

# In chronic disease management, the stars have not aligned



# We all face similar challenges

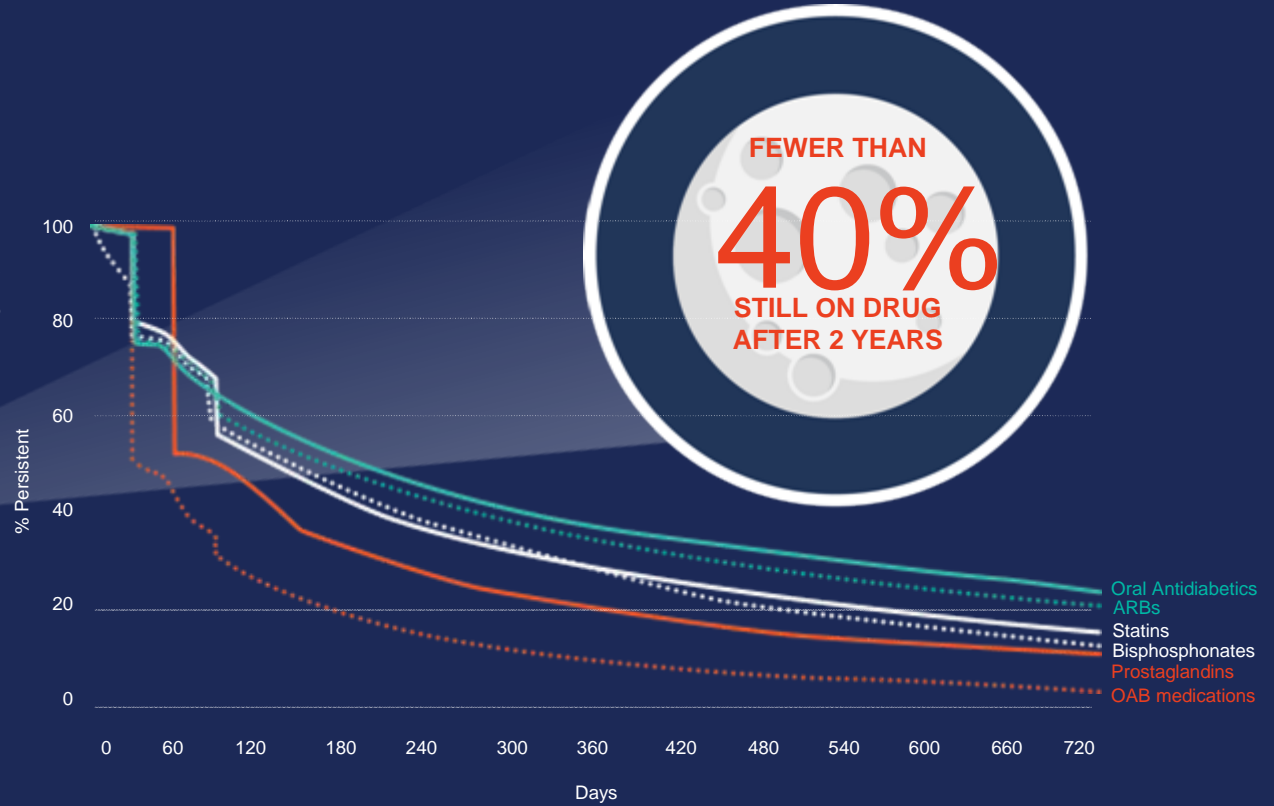


BP=blood pressure; HbA1c=hemoglobin A1c; LDL=low-density lipoprotein; T2D=type 2 diabetes.

1. Partnership to Fight Chronic Disease. The growing crisis of chronic disease in the United States. [https://www.fightchronicdisease.org/sites/default/files/docs/GrowingCrisisofChronicDiseaseintheUSfactsheet\\_81009.pdf](https://www.fightchronicdisease.org/sites/default/files/docs/GrowingCrisisofChronicDiseaseintheUSfactsheet_81009.pdf). Accessed March 8, 2018. 2. Gerteis J, et al. Multiple Chronic Conditions Chartbook. AHRQ Publications No. Q14-0038. Rockville, MD: Agency for Healthcare Research and Quality. April 2014. 3. Centers for Disease Control and Prevention. Chronic disease overview. <https://www.cdc.gov/chronicdisease/overview/index.htm>. Accessed March 8, 2018. 4. Casagrande SS, et al. The prevalence of meeting A1C, blood pressure, and LDL goals among people with diabetes, 1988-2010. Diabetes Care. 2013. 36:2271-2279.

# Adherence is a key catalyst

PEOPLE WITH  
CHRONIC  
DISEASES  
STOP TAKING  
MEDICATION  
OVER TIME

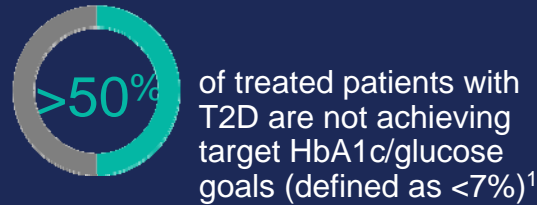


ARBs=angiotensin receptor blockers; OAB=overactive bladder.

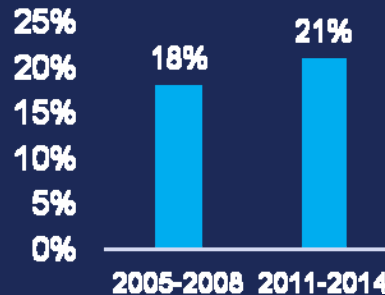
1. Yeaw J, et al. Comparing adherence and persistence across 6 chronic medication classes. *J Manag Care Pharm.* 2009;15(9):728-740.

# Real-world challenges in managing chronic conditions: the diabetes experience

*Trends not improved despite >40 new pills and injections approved over the last 10 years*



Trend worsening: more patients with T2D with HbA1c levels >9%<sup>2</sup>



Trends Still Show



Annual US T2D cost trends continue to increase<sup>4-6</sup>



1. National Committee for Quality Assurance. Comprehensive Diabetes Care. <http://www.ncqa.org/report-cards/health-plans/state-of-health-care-quality/2017-table-of-contents/diabetes-care>. Accessed March 10, 2018. 2. U.S. Department of Health & Human Services. HealthyPeople.gov. <https://www.healthypeople.gov/2020/data/Chart/4123?category=1&by=Total&fips=-1>. Accessed March 10, 2018. 3. Koro, Carole et al., "Treatment Utilization Patterns of GLP-1 Agonists and DPP-4 Inhibitors Among Type 2 Diabetics in a U.S. Commercially Insured Population: 2005-2011". 4. American Diabetes Association. Economic costs of diabetes in the US in 2002. *Diabetes Care*. 2003;26(3):917-932. 5. American Diabetes Association. Economic costs of diabetes in the US in 2007. *Diabetes Care*. 2008;31(3):596-615. 6. American Diabetes Association. Economic costs of diabetes in the US in 2012. *Diabetes Care*. 2013;36:1033-1046.

We can do better



**Health  
Systems**

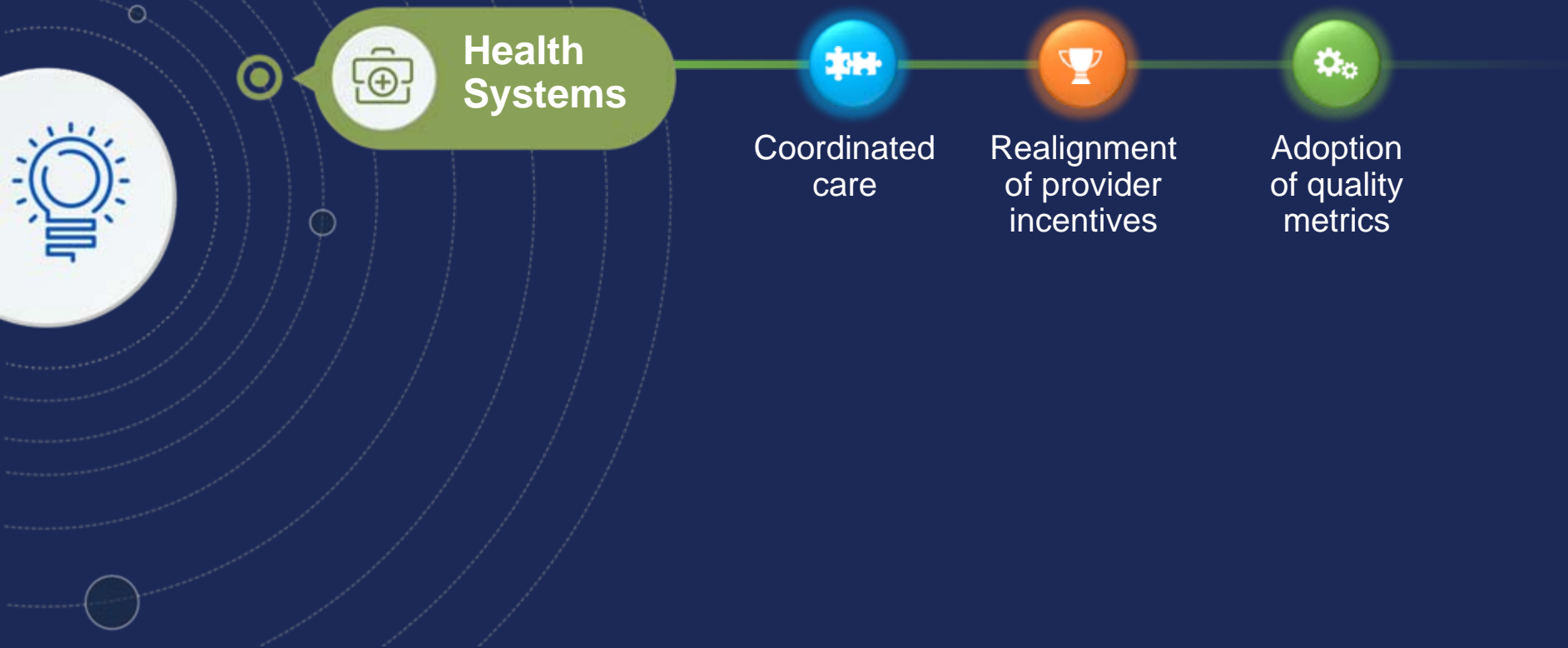


**Patients**

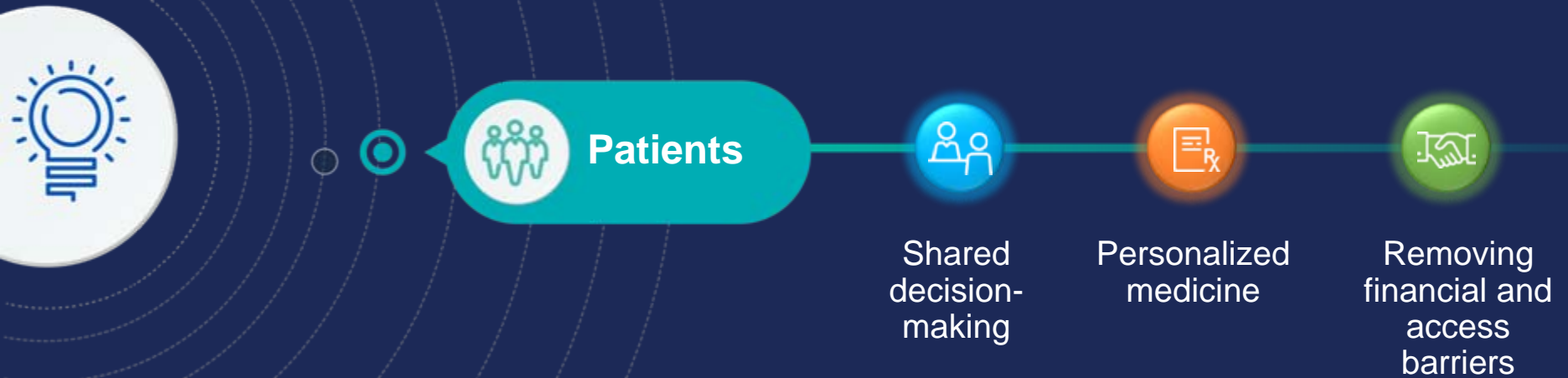


**Technology**

## Partner with health systems



## Focus on patient-centric approaches



# Integrate technology into chronic care management



**Technology**



**Practice of  
medicine**

- Implants
- Robotic surgery
- Electronic medication
- Interoperability



**Patient  
engagement**

- Telemedicine
- Digital/apps
- Patient portals



**Improve  
adherence**

- Bottle cap sensors
- Camera-based adherence technology
- Chip-in-the-pill technology
- Implantable delivery system

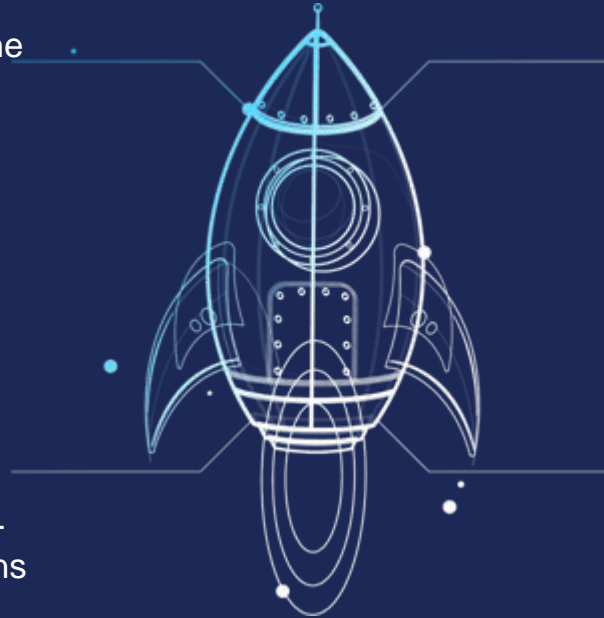
# People deserve a **BETTER FUTURE**

How can we reimagine treatment for chronic conditions?

How can we better design medicine delivery for chronic disease?

Most therapies were not designed for long-term chronic conditions

Taking pills and injections for an entire lifetime is impractical



# Our vision

We believe the solution to improving outcomes lives at the intersection of medicine and technology

Innovations shouldn't be limited to medicine discovery and development

We are dedicated to transforming the lives of patients living with chronic disease



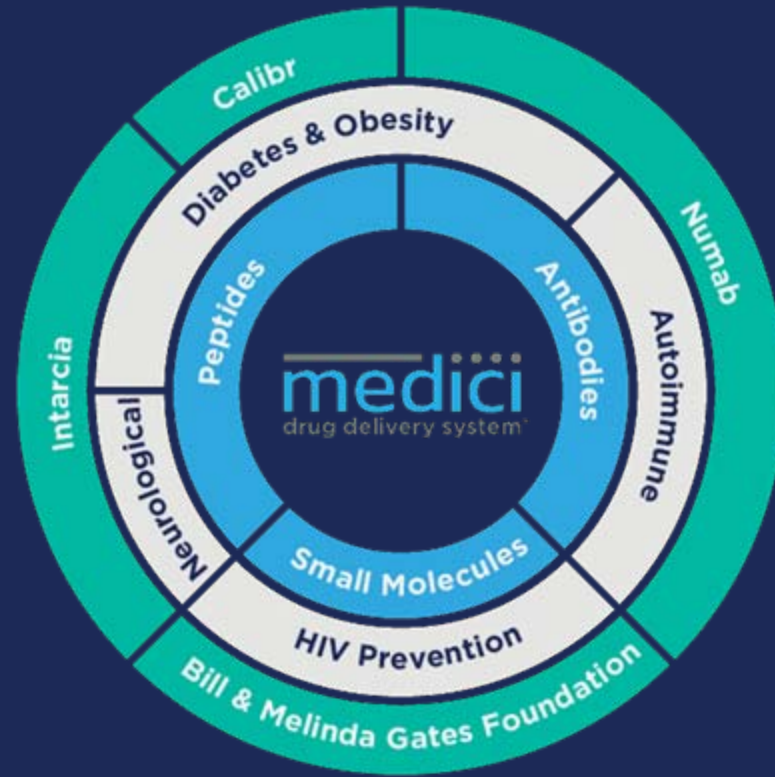
# Our approach

Focus on chronic diseases that are poorly controlled

Deliver highly differentiated products that produce superior outcomes for patients, health care professionals, and payors

Transform how medications are delivered to patients

Keep patients at the very center of our thinking and our business



# Our North Star approach to disruptive innovation





# **Systematically Improving Population Health in Chronic Neurological Conditions: The Multiple Sclerosis Case Example**

Terrie Livingston, PharmD, Senior Director

March 20, 2018

# Collaboration

Creating meaningful change requires deep engagement.

Mutual Benefits



Shared Goals

# Systematic Investigation

Understanding bona-fide needs, preferences, and value drivers requires examination.



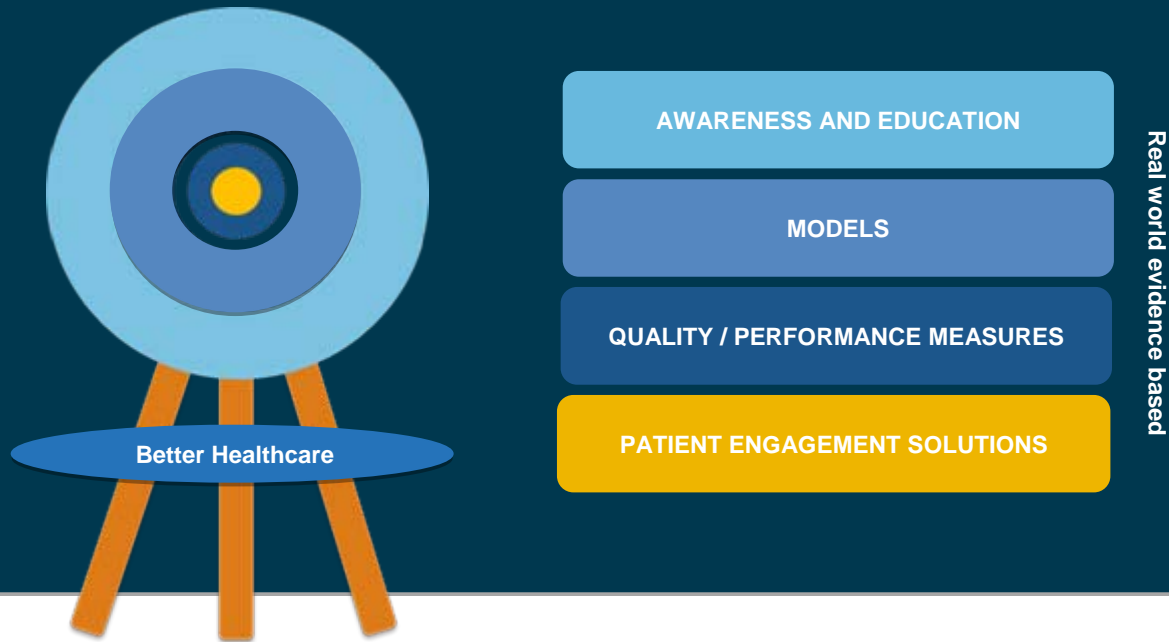
# Systematic Investigation (cont.)

We partner with patient communities to understand their needs and priorities; and with key stakeholders to identify and understand determinants of population health.



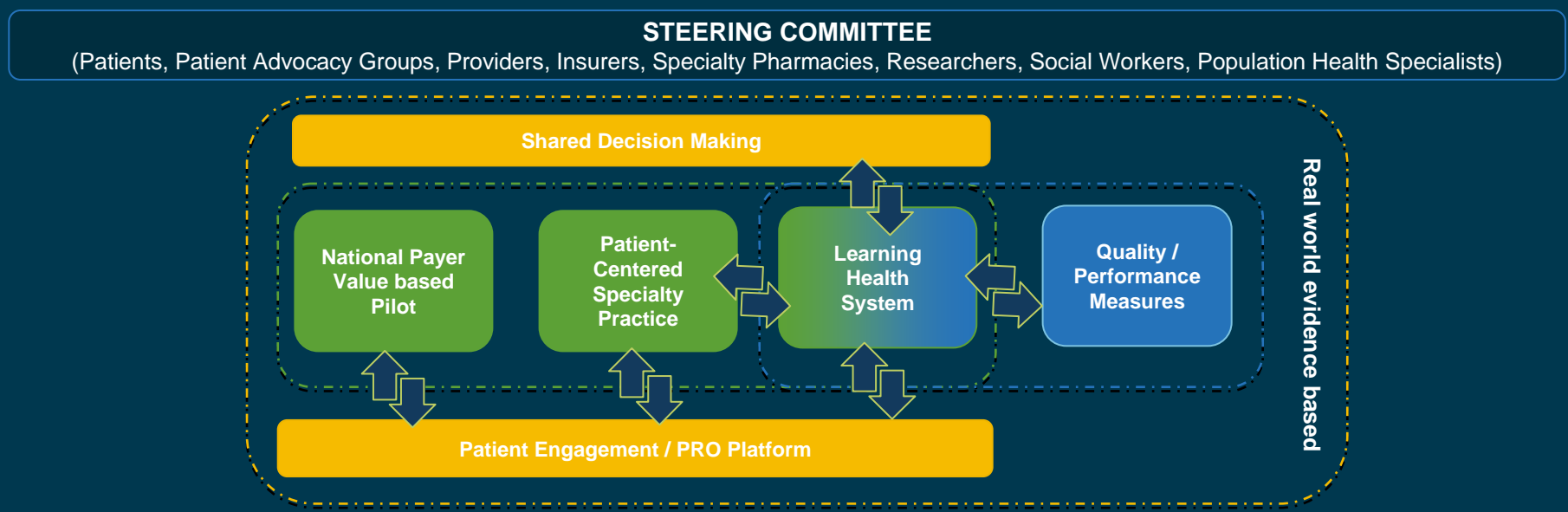
# Strategy and Intent

Driving large scale improvements requires a multi-target approach.



# Strategy and Intent In Action

We engaged a multidisciplinary steering committee to set priorities and drive improvement.



# Awareness and Education

We partner with community leaders to access key communication channels.



# Models

We partner with healthcare stakeholders to study models of care and create learning health systems.



# Performance Measures

We partner with experienced measure developers, measure researchers and measure end-users to create meaningful feasible, and validated measures for broad adoption.



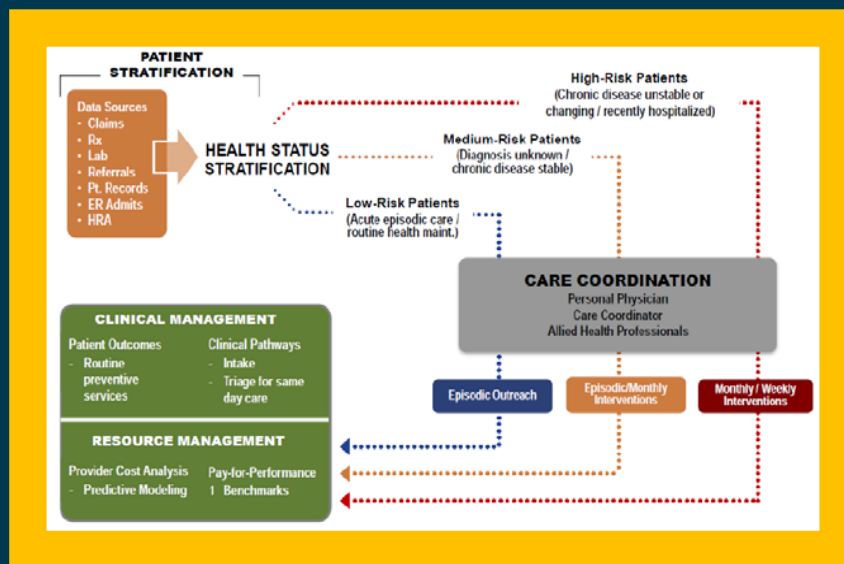
# Patient Engagement Solutions

We partner with patient-focused technologists that already service the healthcare space.



# Population Health Management Impact

The impact of population health management is wide ranging.



# Population Health In Action

We are actively working to create conditions that promote health, prevent and adverse events, and improve outcomes.

X

Connecting Health Science with Health Delivery

X

Identifying Determinants of Health and Improving Policy

X

Applying new ways to model disease states / map their incidence and predict their impact

X

Using data analysis to design social and community interventions and new models of health care delivery that stress care coordination and ease of accessibility

**We rely on the community to tell us if we are making a difference that matters in the lives of patients and to the system overall**

**SIGNIFICANC  
E**



# Panel Discussion



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# Thank You!



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