

# Healthcare 2.X: Days of Future Past

Keynote Address  
by

**David K. Butler, MD**

Principal/CEO | Calyx  
Partners



**HiMSS**

CENTRAL & SOUTHERN OHIO Chapter



 @csohimss

 @davidbutlermd

 @calyx\_health

Key Hashtags: #HIMSS  
#HealthcareIT #FallConference

## ABOUT THE SPEAKER: DR. DAVID K. BUTLER

---



- Internal Medicine and Pediatrics
- Dual Board Certified (2004)
- Former VP, Corporate EHR Clinical Optimization & Transformation (Sutter Health – 45K employees, 24 hospital, 12B)
- More Than 15 Years' Experience in Healthcare IT adoption, clinician engagement, change management and vendor relations
- Epic Systems' *"Physician of the Year"*
- Current Founder of ***Calyx Partners, LLC*** *"...a boutique clinical informatics consultancy"*

# OBJECTIVES AND OTHER SUNDRY TOPICS


---

## OBJECTIVES

- Users will demonstrate and understanding of past and current fee for service model of healthcare delivery
- Analyze and discuss current drivers of healthcare innovations based on historical trends/versions of healthcare
- Users will be able to better understand and discuss how healthcare has evolved over the past 20-30 years and better predict where potential disruption and innovation is or will occur

## ...OTHER SUNDRY TOPICS

---

- Interactive and informal presentation style
- **For “Twitter-ers”** 
  - Aqua font and/or hashtags (#) indicate that there may be a cool - *‘freebie tweet’*
- Keep your phones/laptops near - there may be a live-poll
- Feel free to ask questions at anytime
- Relax and enjoy the presentation

 @csohimss

 @davidbutlermd

 @calyx\_health

Key Hashtags:

#HIMSS

#HealthcareIT #FallConference

**HIMSS**

CENTRAL & SOUTHERN OHIO Chapter

# ABOUT THE SPEAKER: DR. DAVID K. BUTLER

---

## EDUCATION



THE UNIVERSITY of TEXAS  
HEALTH SCIENCE CENTER AT HOUSTON



## PROFESSIONAL



Bon Secours  
Health System  
Inc.



Texas Children's  
Hospital



Sutter Health

# DAYS OF FUTURE PAST....



*John Hopkins school of medicine archives*

 [@davidbutlermd](#)

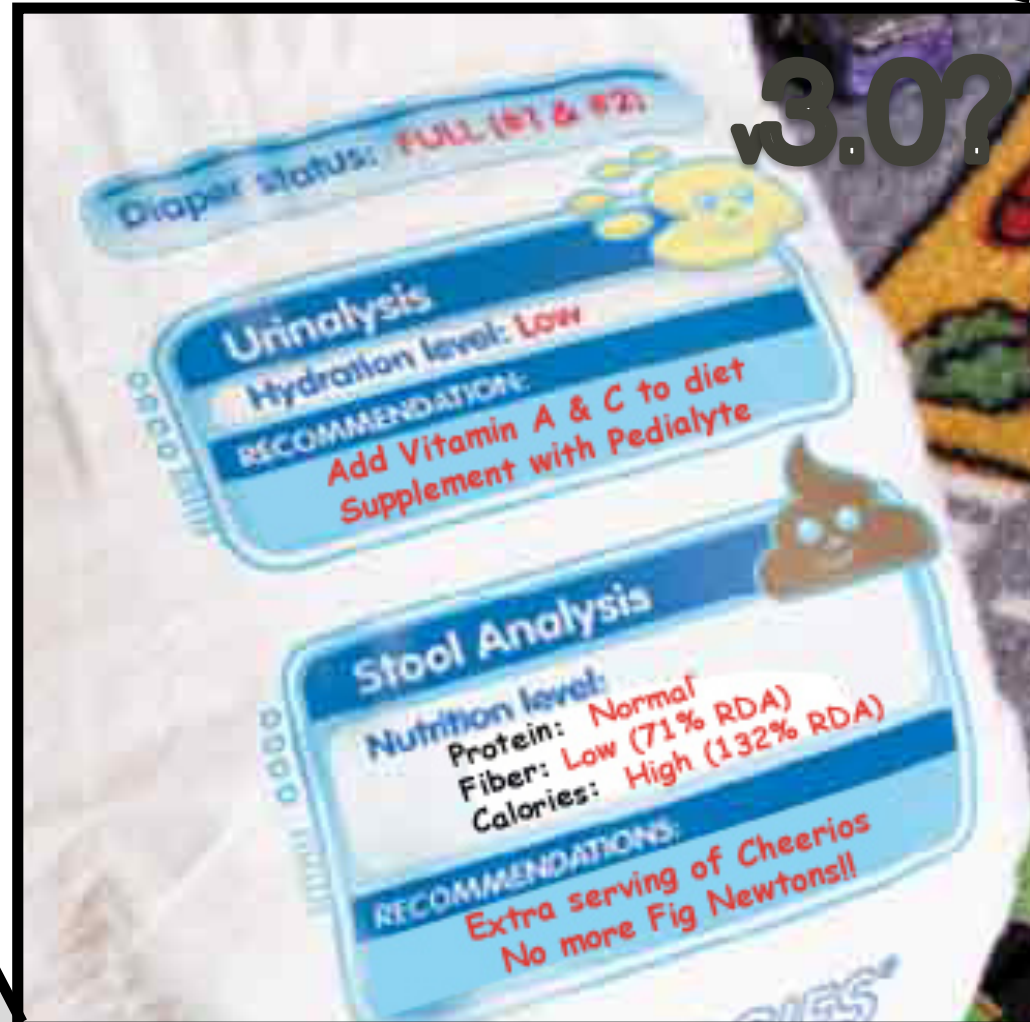
 [@calyx\\_health](#)

[#HIMSS](#) [#HealthcareIT](#) [#FallConference](#)

# HEALTHCARE VERSIONS – A VISUAL



# Diaper of the Future





# HEALTHCARE 1.0 – WHERE WE'VE BEEN



Physician  
centric



Acute episode  
based



Fee for service



Paper based



One patient  
at a time

# STATE OF U.S. HEALTHCARE



Value:  
measured by  
**patient  
outcomes**  
per dollar spent



# BUZZWORDS

Lean and Six Sigma

Risk-Based Contracting

Volume to Value

Quality AND Quantity

Value-Based Purchasing

Accountable Care Organizations

Social Determinants

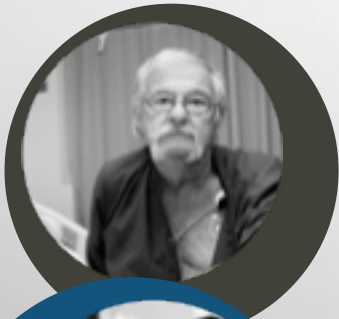
Artificial Intelligence

BlockChain

Digital Assistants

Wellness and Population Management

# HEALTHCARE 2.0 – WHERE WE ARE



“Quasi” patient  
centric



Fee Service →  
“quality and service”  
(Value Based)



Structured Electronic  
documentation and  
reportable care



One “population”  
at a time



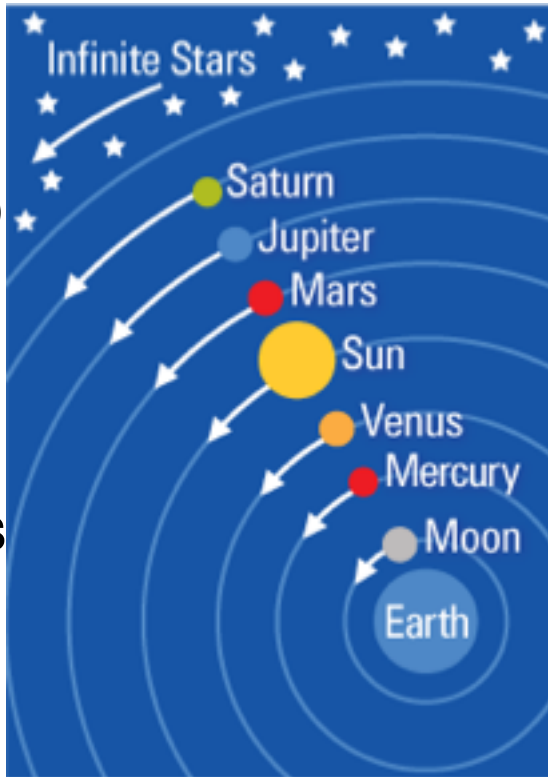
Acute “Sick” episode  
based →  
preventative and  
wellness based

2.0

# A LESSON FROM ASTRONOMERS

PTOLEMY

**Geo-Centric**  
(‘Earth is  
Center of  
The Universe’)



VS

COPERNICUS

**Helio-Centric**  
(‘Sun is  
Center of  
The  
Universe’)



**A ‘PATIENT-CENTRIC’  
View of the  
HEALTHCARE  
UNIVERSE**

# HEALTHCARE 2.X

Consumer  
focused  
and  
transparent

High quality,  
low cost, aka  
“affordable”  
2ndary to new  
payment  
models

“Augmented  
Intelligence” –  
Claims/EHR  
Genomics/Social

Population-based  
hyper-coordinated  
care

Preventative  
and wellness  
based  
partnerships

# HEALTHCARE 2.X

'Hyper  
Patient  
driven' and  
transparent

High quality,  
low cost, aka  
"affordable"

"Augmented  
Intelligence" –  
Claims/EHR  
Genomics/Social  
- *'AmazonOID'*  
End-user experience

Population-based  
coordinated care

Preventative  
and wellness  
based  
partnerships

NLP\* - Natural Language Processing

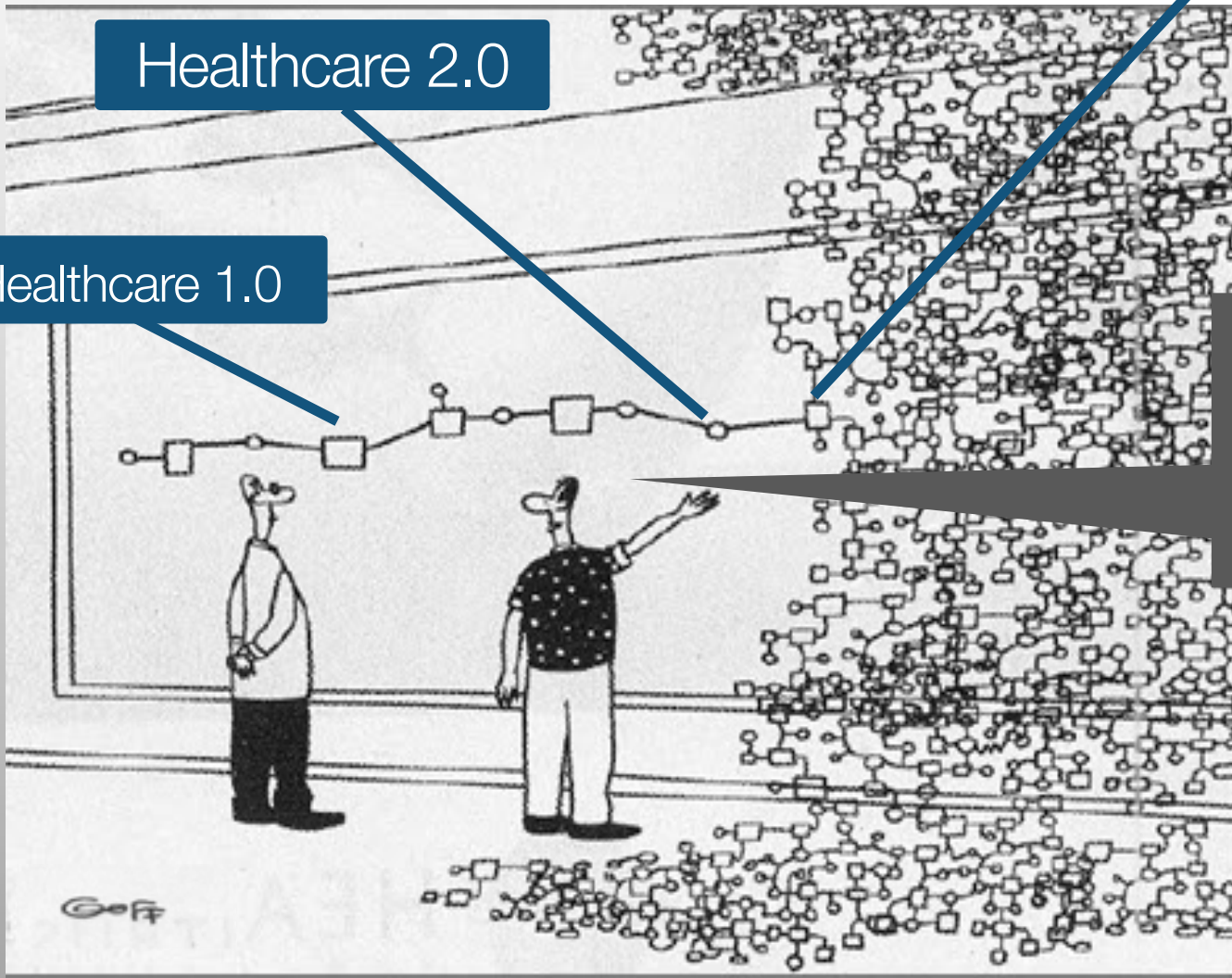
2.X

# SO HOW DO WE GET TO HEALTHCARE 2.X?

Healthcare 2.X

Healthcare 2.0

Healthcare 1.0



“So this is the part where it gets a bit complicated!!”

Goff



# LESSONS HEALTHCARE CAN LEARN FROM OTHER INDUSTRIES



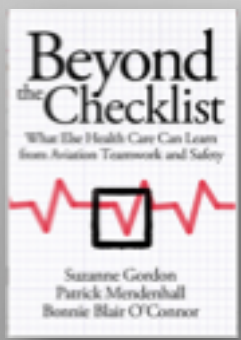
Airlines

Banking

Restaurants

Retail

Technology/  
Gaming



Amazon drones

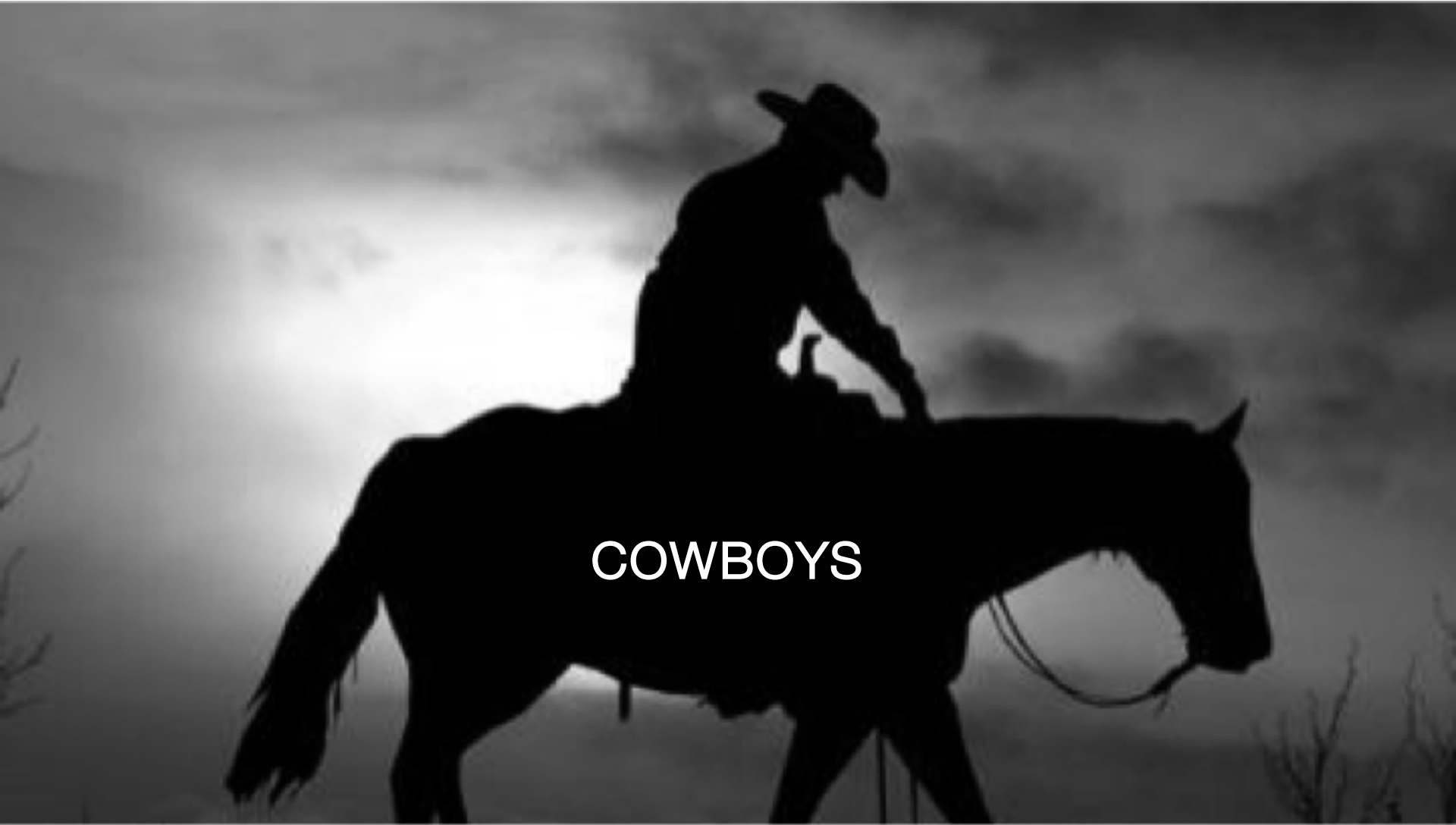




**“IF I WOULD HAVE ASKED PEOPLE WHAT THEY  
WANTED, THEY WOULD HAVE SAID FASTER HORSES”**  
– Henry Ford

*Image – Edsel and Henry Ford, circa 1922*

Replace text box with chapter logo



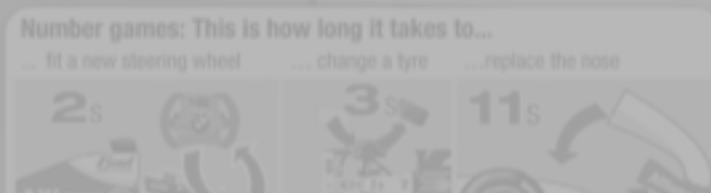
# COWBOYS

**himss**

CENTRAL & SOUTHERN OHIO Chapter

## PITCREWS

The job in the pits is one of the most pressured in Formula 1. A pit stop is studied choreography and only the best are good enough to ensure comprehensive service for the driver in the race against the clock. Every individual role is practiced



# PITCREWS

**The job in the pits is one of the most pressured in Formula 1. A pit stop is studied choreography and only the best are good enough to ensure comprehensive service for the driver in the race against the clock. Every individual role is practiced thousands of times and must be carried out perfectly.**

Allianz

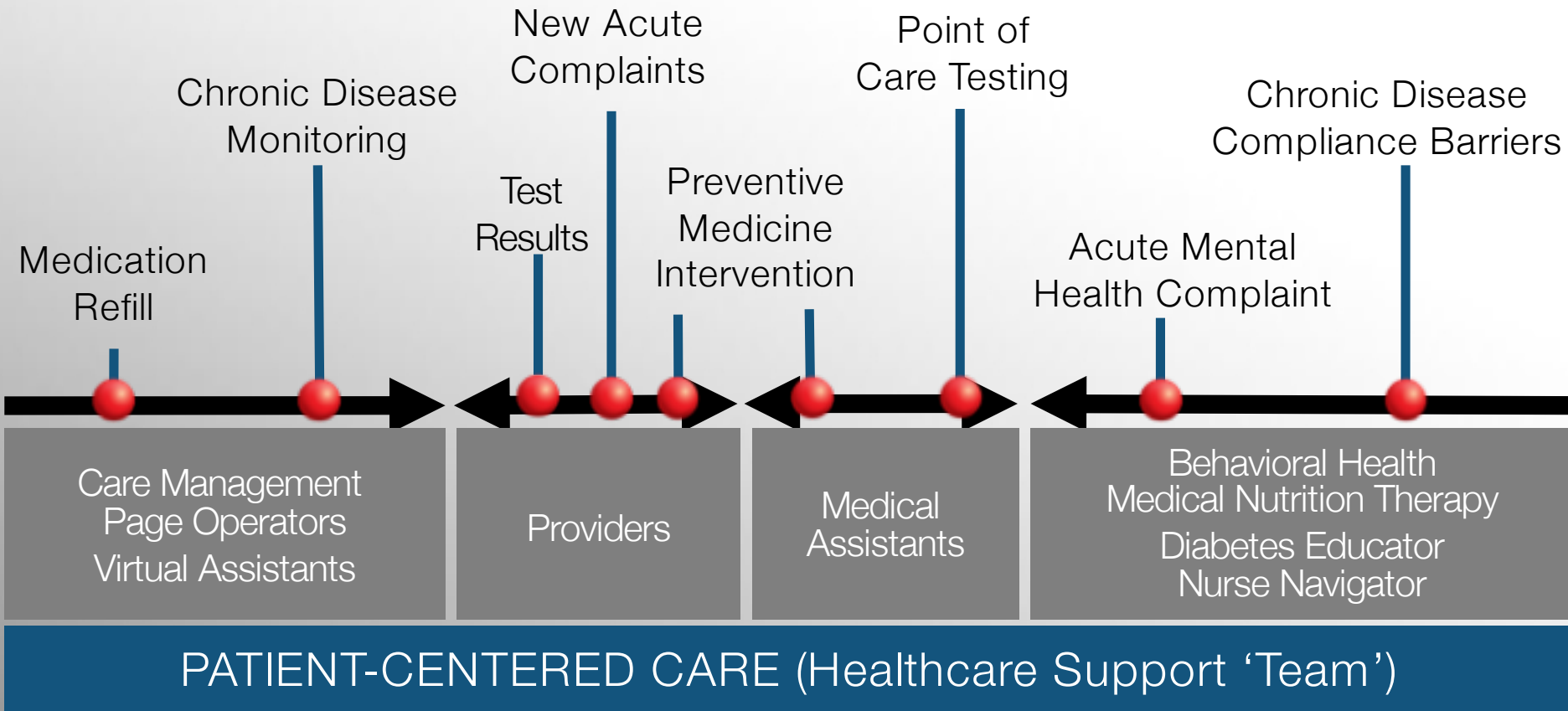
# TRADITIONAL HEALTHCARE



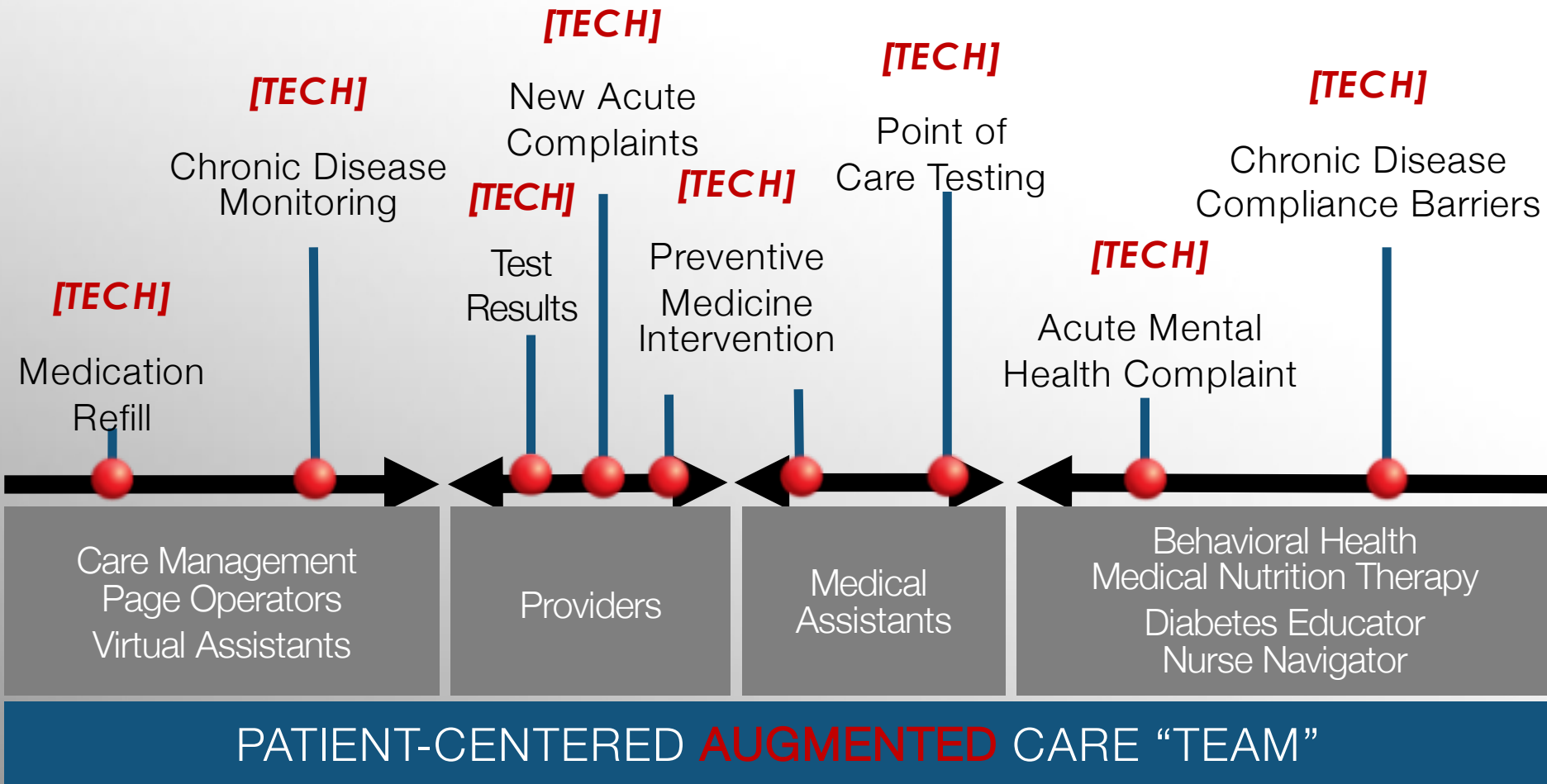
# TRADITIONAL HEALTHCARE



# CARE TEAM + AUGMENTED INTELLIGENCE: NEW WORKFLOW REDESIGN – **NON-AUGMENTED**



# CARE TEAM + AUGMENTED INTELLIGENCE: NEW WORKFLOW REDESIGN – AUGMENTED





v3.0?

30% lower  
infection  
rates than  
hospitals!



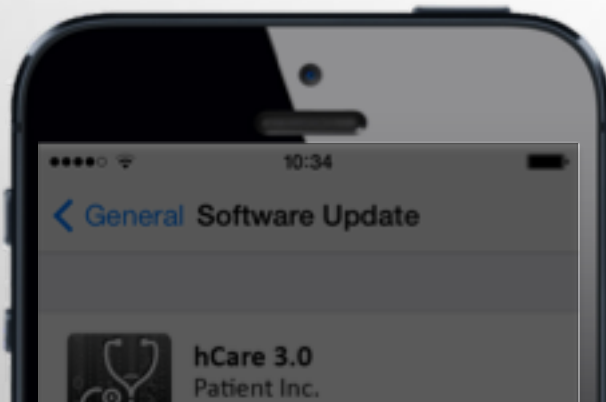
**HiMSS**

CENTRAL & SOUTHERN OHIO Chapter

Artist rendition from  
Wired Magazine , Found – by Joshua Davis

# QUESTIONS/COMMENTS

## *ARE YOU READY TO UPGRADE YOUR HEALTHCARE?*



**David K. Butler, MD**  
Principal/CEO | Calyx Partners, LLC

[david.k.butler@calyxpartners.com](mailto:david.k.butler@calyxpartners.com)

[@davidbutlermd](https://twitter.com/davidbutlermd) [@calyx\\_health](https://twitter.com/calyx_health)

[#HIMSS](https://twitter.com/HIMSS) [#fallconference](https://twitter.com/fallconference) [#healthIT](https://twitter.com/healthIT)

