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# Accelerating the Development of Relevant Evidence in Healthcare

## Effectively Defragmenting the View of the Patient

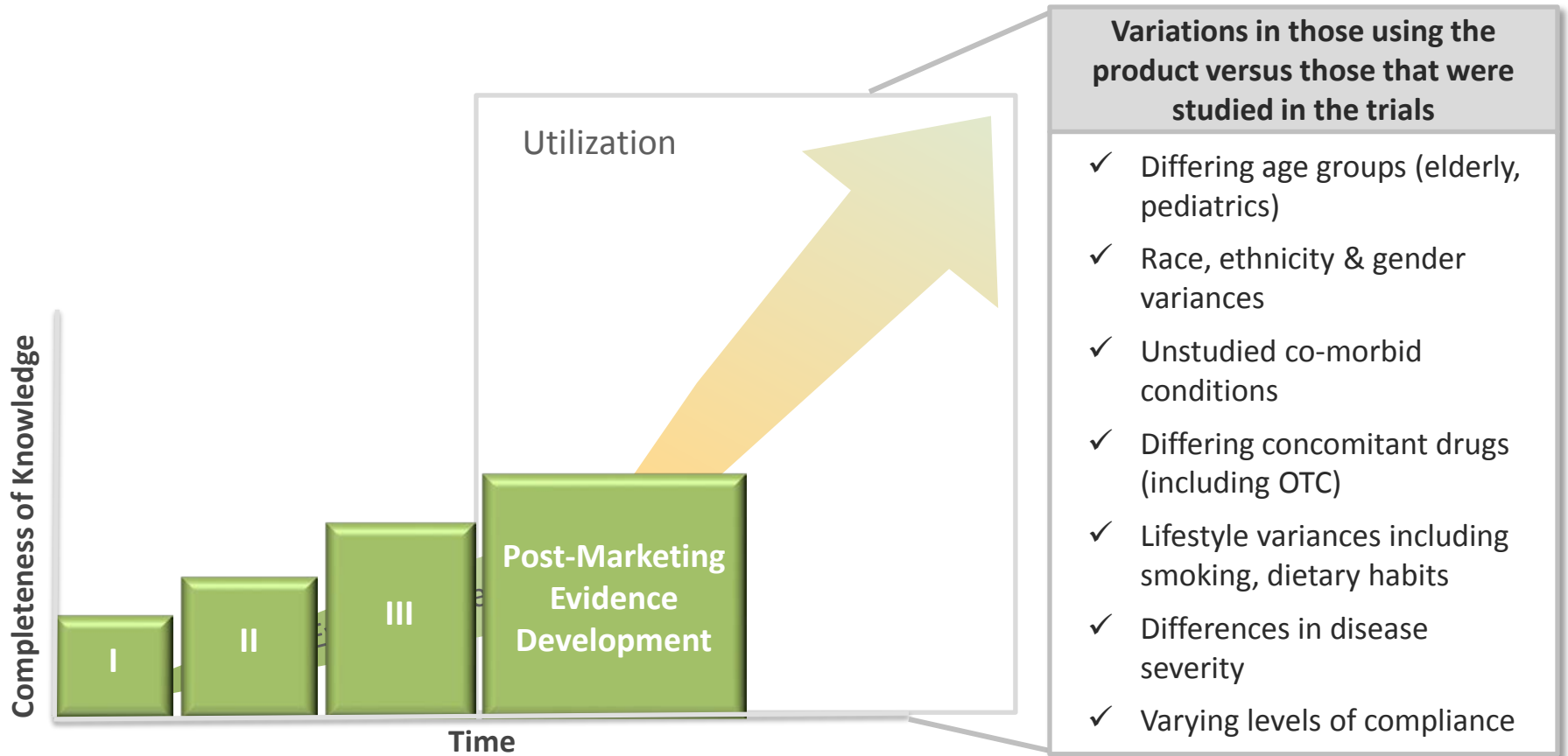
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Marcus D Wilson, Pharm.D.  
*President*



# Clinical Trials Leave Us with a Lack of Clarity

## Utilization versus Evidence



# Clinical Trials Leave Us with a Lack of Precision

## Hindrances to Effective Clinical Decision Support

Effective Decision Support helps the decision-maker assemble and weigh evidence on Benefit vs Risk for a given population or individual

Clinical trials tell us *if* a product works or *if* a product is safe, just not in *whom*



Of my available options,  
which treatments should  
I use?

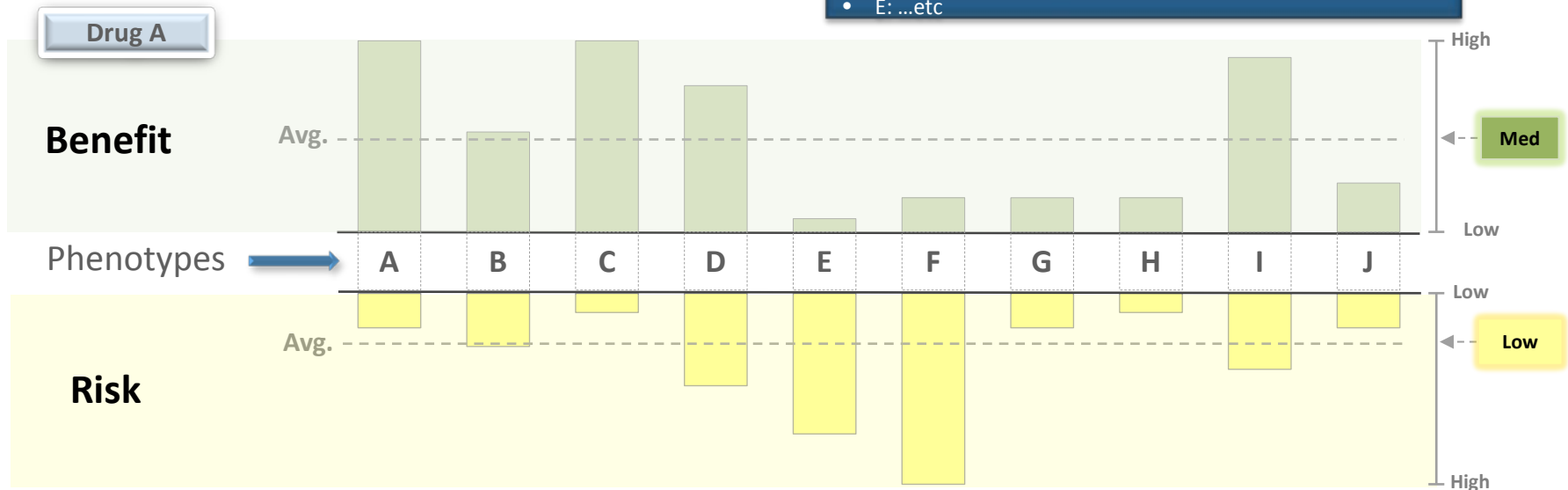
I use?



It depends...

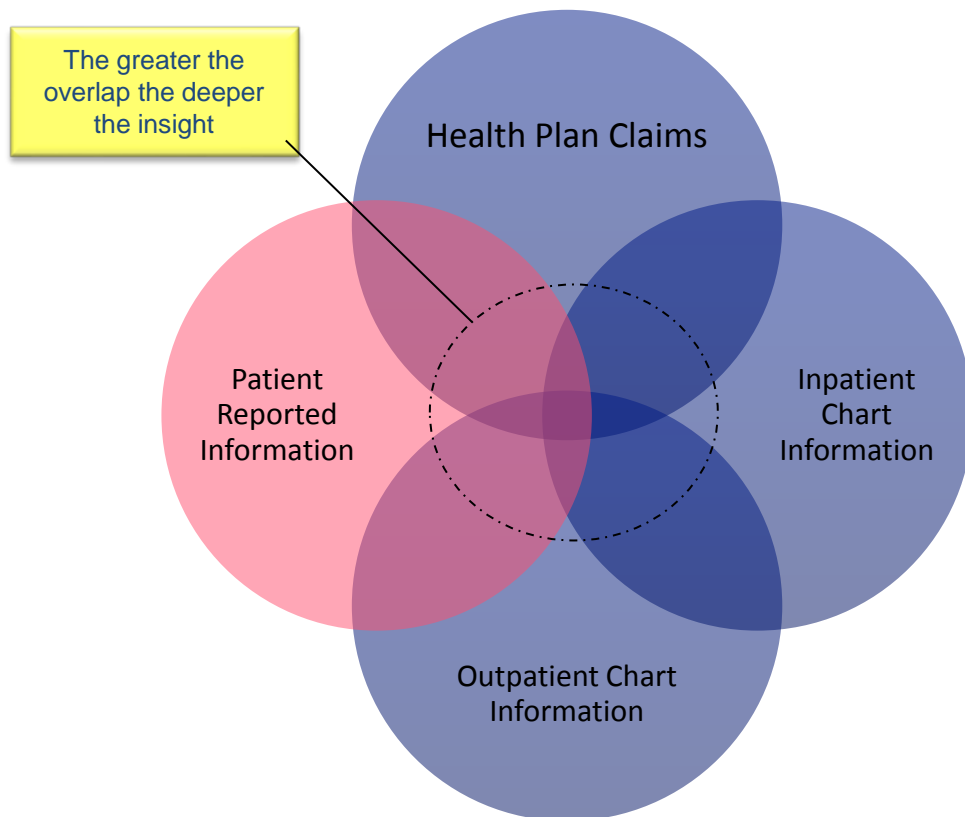
### Phenotype Matters

- A: Male, 25 yo, Cauc, no hx dz, no meds
- B: Male, 52 yo, African Am, hx CVD&OA, NSAID+BB
- C: Female, 67, Asian, post-MI&DM, ASA+OAD+ACEI
- D: Female, 54, Hisp, Hx Ca+PUD+RA, MTx+PPI
- E: ...etc



# Big Data is Less Relevant than Deep Data

## The Evolution of Real World Data



### Each Data Source Contributes Unique Information

**Health Plan Claims** provides a broad view, insight into cost of care & information such as actual fill (Rx) history

**Outpatient Chart Information** provides rich clinical information and such endpoints as prescribed medications, lab and test results, OTC advice and reported use, family history

**Inpatient Chart Information** provides rich clinical information on procedures, conditions treated, medication use, lab and test results

# Defragmenting the View

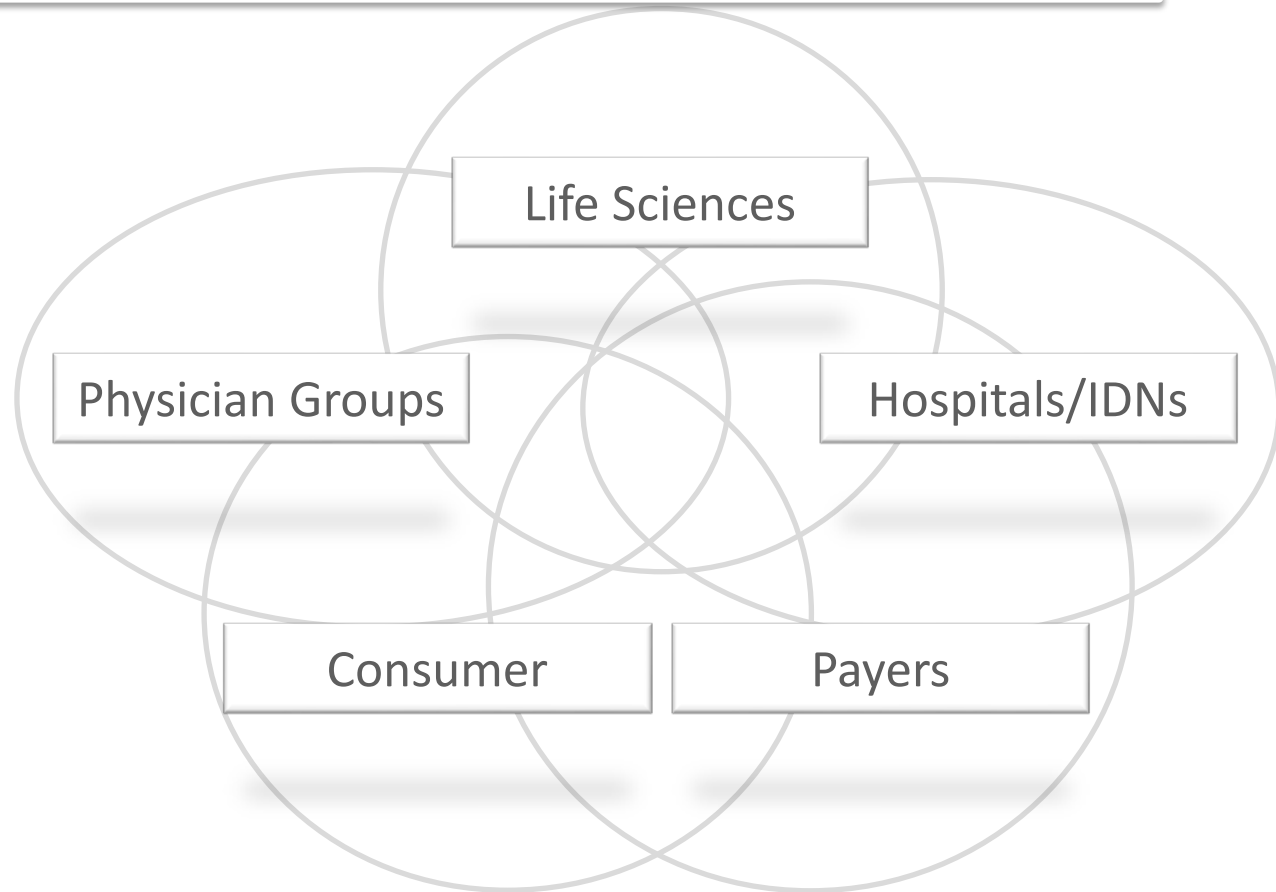
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Each Stakeholders holds their  
data close for both defensive  
and offensive reasons

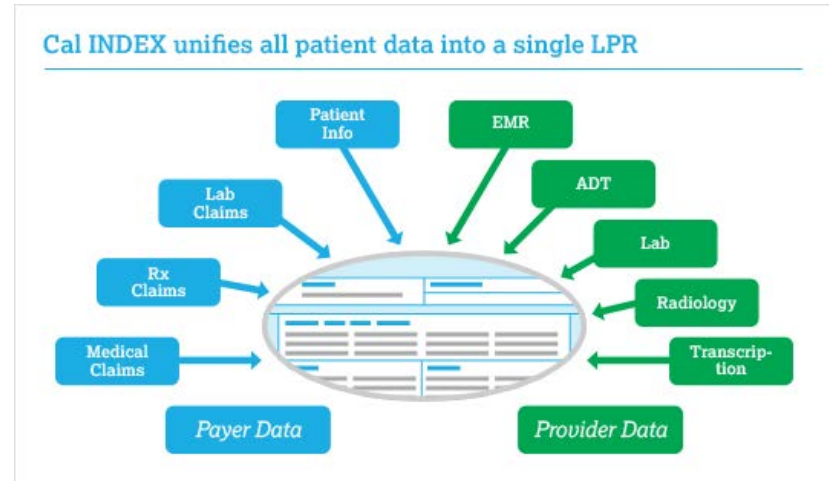
# Getting the Stakeholders Onboard

We have a long history of living within a highly fragmented system

Competing  
Priorities  
◆  
Institutional  
Agendas  
◆  
History of Conflict  
◆  
Lack of Trust



# California Integrated Data Exchange – Cal INDEX



The California Integrated Data Exchange is an independent, not-for-profit organization developing a statewide, next-generation health information exchange (HIE)

This comprehensive collection of electronic patient records will include clinical data from healthcare providers and health insurers

Cal INDEX will allow physicians, nurses and hospitals throughout the state to share patients' health information and will provide them with the tools to help them give their patients the safest, highest-quality care possible

# Core Principles of Defragmentation

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Protect patient privacy and ensure data security

Minimize data mis-adventuring

Protect the business interests of the data sources

Accelerate our progress through the RWD to RWE  
learning curve



# Learning to Use “Big Data”

Where are we on the learning curve?

