Innovation at the Intersection of Clinical Trials and Real-World Data to Advance Patient Care

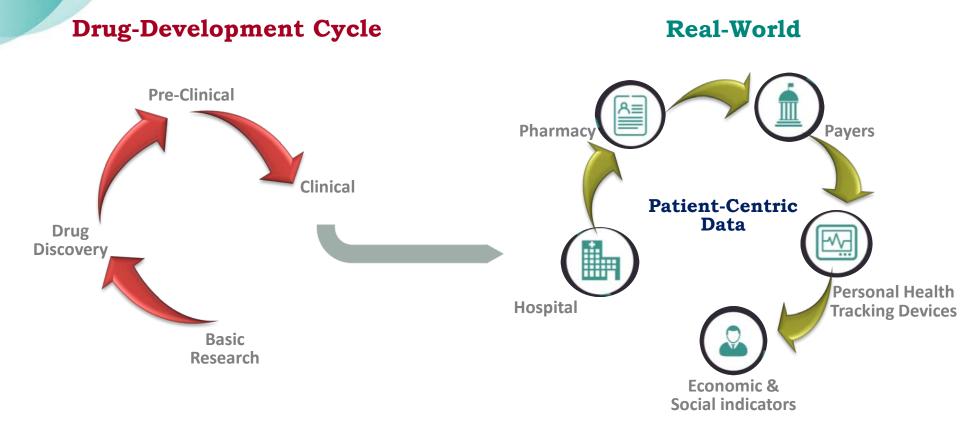
ASCPT 2017

Lokesh Jain Director, Quantitative Pharmacology and Pharmacometrics Merck

Brandon Swift Scientific Advisor, Clinical Pharmacology Modeling and Simulation Quintiles IMS

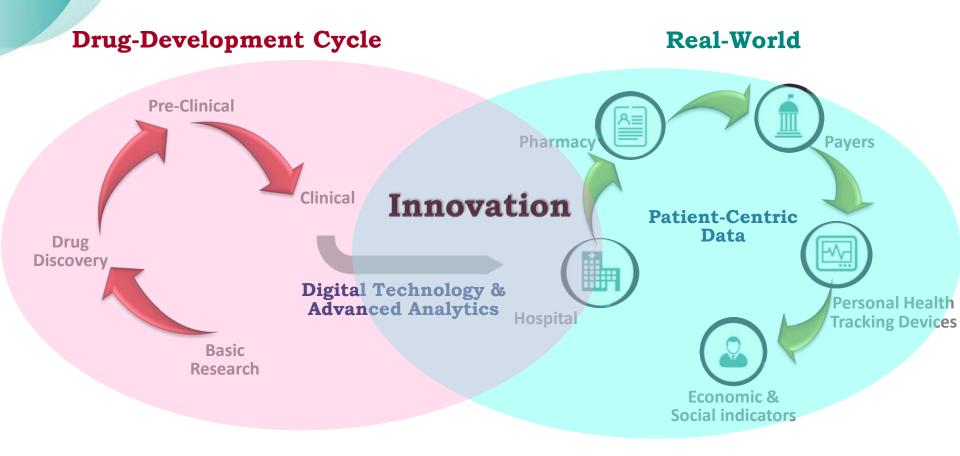


Use of RWD to Support Pre-approval Decisions or Vice-Versa Has Been Limited





Digital Technology & Advanced Analytics Are Enabling Greater Access and Utilization of RWD

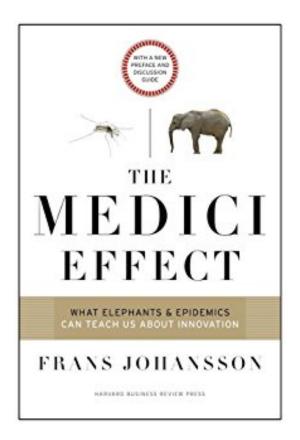




A Remarkable Opportunity for Innovation at the Intersection of Two Fields

Far better chance of breaking new ground when different perspectives come together

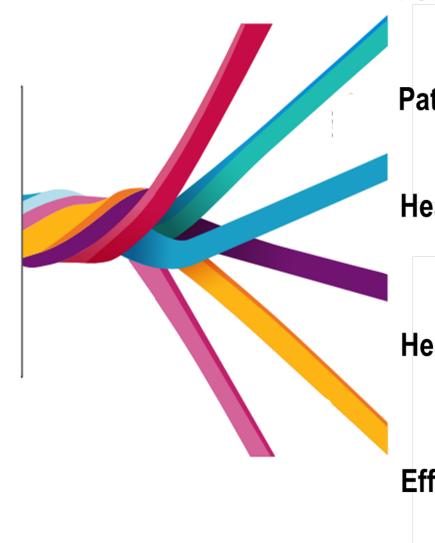
- Frans Johansson





Inclusion of RWD in Healthcare Decisions Will Improve Utilization of Healthcare Resources and Patient Outcome

Impact on Healthcare



Personalized Medicine

Patient-Centered Care

Healthcare Delivery Redesign

Healthcare Quality

Comparative Effectiveness Research



Integration of RWD in R&D Will Improve Development and Commercialization of New Medicines

Impact on R & D



Unmet Need/ Disease burden

Early Prediction of RW Effectiveness vs. SoC

More Patient (Value) -Centric Pipeline

Reduce DD time and improve attrition

Clinical Trial Design

- Trial population
- Endpoints
- Conduct



Drug Companies Are Using M&A and Joint Ventures to Acquire Beyond-the-Pill Products and Services



21st Century Cures Act Requires FDA to Expand the Role of Real World Evidence

By Bethany Hills & Benjamin Zegarelli on December 19, 2016

PDUFA VI

6. Enhancing Use of Real World Evidence for Use in Regulatory Decision-Making

As we participate in the current data revolution, it is important that FDA consider the possibilities of using so-called "real world" data as an important tool in evaluating not only the safety of medications but also their effectiveness. To accomplish this will require an understanding of what questions to ask, including how such data can be generated and used appropriately in product evaluation, what the challenges are to appropriate generation and use of these data, and how to address such challenges.

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Real-World Evidence — What Is It and What Can It Tell Us?

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