

Can Value-Based Care Exist Without Value-Based Research?

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Today's speakers



Bruce A. Feinberg, DO

Vice President of Clinical Affairs and Chief Medical Officer Cardinal Health Specialty Solutions



Scott Swain, PhD, MPH

Director of Real-World Evidence and Regulatory Sciences Cardinal Health Specialty Solutions



Ali McBride, PharmD, MS

Director, HEOR US Hematology **Bristol Myers Squibb**



Kristin M. Zimmerman Savill, PhD

Director, Senior
Scientist, Real-World
Evidence and Insights
Cardinal Health
Specialty Solutions

Agenda

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Defining value in healthcare

Assessing traditional clinical trials

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Changing the paradigm

4

Selecting the optimal trial design and regulatory approach





Defining value in healthcare



What is value?

- Definitions of value
 - The monetary worth of something
 - The importance or usefulness of something
 - Principles or standards of behavior
- Value is relative
 - What is important to me, may not be important to you



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What Is Value in Health Care?

Michael E. Porter, Ph.D.

Tn any field, improving performance and account-Lability depends on having a shared goal that unites the interests and activities of all stakeholders. In health care, however, stakeholders have

Achieving high value for pa- stood. tients must become the overarching goal of health care defined around the customer, and mensional. For any medical concare system increases.

myriad, often conflicting goals, Value - neither an abstract including access to services, prof- ideal nor a code word for cost itability, high quality, cost con- reduction - should define the comes relative to costs, it encomtainment, safety, convenience, framework for performance impasses efficiency. Cost reduction patient-centeredness, and satis- provement in health care. Rigor- without regard to the outcomes faction. Lack of clarity about ous, disciplined measurement and achieved is dangerous and selfgoals has led to divergent ap- improvement of value is the best proaches, gaming of the system, way to drive system progress. Yet ings" and potentially limiting and slow progress in performance value in health care remains largely unmeasured and misunder-

Value should always be delivery, with value defined as the in a well-functioning health care dition, no single outcome capdollar spent.1 This goal is what patients should determine the the equation's denominator, reshifting focus from volume to to reduce the need for others.

value is a central challenge. Nor is value measured by the process of care used; process measurement and improvement are important tactics but are no substitutes for measuring outcomes

Since value is defined as outdefeating, leading to false "say-

Outcomes, the numerator of the value equation, are inherently condition-specific and multidihealth outcomes achieved per system, the creation of value for tures the results of care. Cost, matters for patients and unites rewards for all other actors in fers to the total costs of the full the interests of all actors in the the system. Since value depends cycle of care for the patient's system. If value improves, patients, on results, not inputs, value in medical condition, not the cost payers, providers, and suppliers health care is measured by the of individual services. To reduce can all benefit while the eco- outcomes achieved, not the vol- cost, the best approach is often nomic sustainability of the health ume of services delivered, and to spend more on some services

N ENGL J MED 363;26 NEJM.ORG DECEMBER 23, 2010





Value in the eyes of the stakeholder

Payer perspectives:

- Controlling providers' reimbursement and patients' out-of-pocket costs through benefit policies
- Encouraging the use of clinical pathways to reduce variation and control costs

Manufacturer perspectives:

- Bringing innovative drugs to market
- Seeking successful sales of current products to fund new drug developments

Patient perspectives:

- Receiving the best available cure
- Maintaining quality of life
- Minimizing financial impact
- Considering other factors: religion, culture, family, etc.

Provider (institutional) perspectives:

- Obtaining the best clinical outcomes for patients
- Weighing financial impact to patients
- Balancing between workload and patient benefits

Source: https://pubmed.ncbi.nlm.nih.gov/30659123/



Polling question

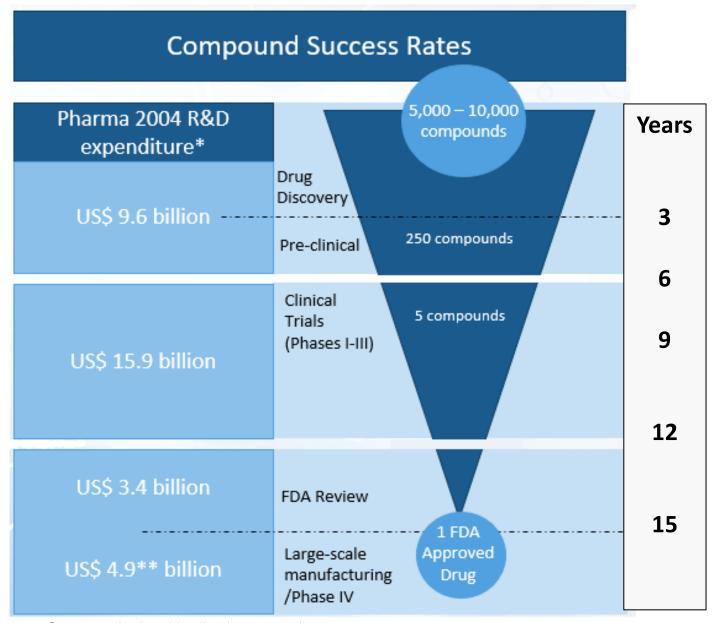
- What is more valuable?
 - Increasing life span
 - Increasing life quality

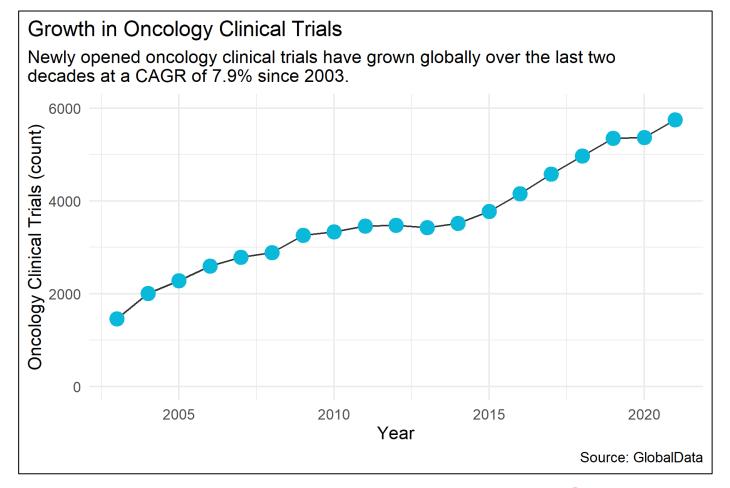


Assessing traditional clinical trials



Are traditional RCT's valuable?



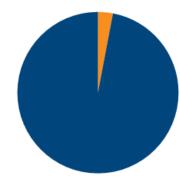




Statistically significant but clinically meaningless



All clinical decisions today are based on those who participated in clinical trials, only 3% of the population



Source: ASCO Cancer-LINQ.



Polling question

- What is more valuable?
 - Statistical significance
 - Oclinical significance
 - Patient-centricity



Changing the paradigm



What is the paradigm?

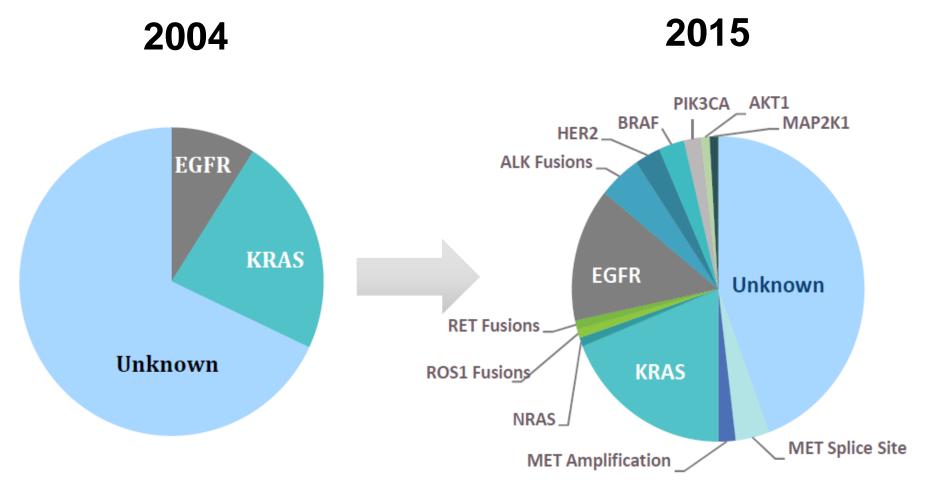
- Phase I: Is the treatment safe?
 - Assessed in a small group of people to evaluate optimal dosage, safety, and identify common side effects
- Phase II: Does the treatment work?
 - Administered to a larger group of patients to verify optimal dose (if necessary), assess efficacy, and further evaluate safety
- Phase III: Is the treatment better than placebo or standard of care?
 - Administered to a large group of patients to confirm efficacy, monitor side effects, compare it to commonly used treatments (or placebo), and collect information that will allow safe use
- Phase IV: What else do we need to know to establish risk/benefit balance?
 - o Postmarketing studies to provide additional information about risks, benefits, and best use

Sources

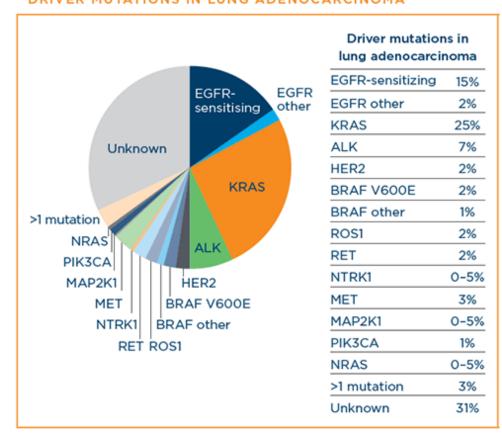
What Are the Different Types of Clinical Research? https://www.fda.gov/patients/clinical-trials-what-patients-need-know/what-are-different-types-clinical-research
Types and Phases of Clinical Trials: https://www.cancer.org/treatment/treatments-and-side-effects/clinical-trials/what-you-need-to-know/phases-of-clinical-trials.html



Precision medicine leading to paradigm shift in the classification of lung cancer



2019
DRIVER MUTATIONS IN LUNG ADENOCARCINOMA



Source: Pao W and Hutchinson KE. *Nat Med*. 2012;18(3):349-351. 2. Lovely C, Horn L, Pao W. *My Cancer Genome*. 2018.



Evolving approach to drug evaluation

- FDA recognizes that traditional medical product development and approval pathways may not be practical, efficient, or even feasible for some indications
- FDA has embraced multiple initiatives focused on modernizing medical product development and approval
 - Assisting with medical product development (pre-IND)
 - Alternative trial designs
 - Accelerated (and/or priority) review
 - Accelerated approval
- Where traditionally there were limited options for medical product development and approval, now there are many potential pathways



Polling question

- What is more valuable?
 - Sample size
 - ODiversity
 - Access
 - Equity
 - Adherence



Selecting the optimal trial design and regulatory approach



Beyond Phase I, II, III

Туре	Description	Example
Adaptive designs	A clinical trial design that allows for prospectively planned modifications to one or more aspects of the design based on accumulating data from subjects in the trial.	STAMPEDE simultaneously evaluated multiple treatments for prostate cancer
Complex innovative designs	Trial designs that have rarely or never been used to date to provide substantial evidence of effectiveness in new drug applications or biologics license applications (e.g.: complex adaptive, Bayesian, simulation, etc.).	2014-2016 Ebola outbreak master protocol (PREVAIL II) Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV)
Decentralized trials	Those executed through telemedicine and mobile/local healthcare providers, using processes and technologies that differ from the traditional clinical trial model.	Pfizer's REMOTE trial in 2011 assessed tolterodine ER 4 in participants with overactive bladder
Real-world evidence (RWE)	The clinical evidence regarding the usage and potential benefits or risks of a medical product derived from analysis of real-world data (RWD).	Palbociclib, lutetium lu 177 dotatate, pembrolizumab, tafasitamab, etc.



Beyond Phase I, II, III

- Potential benefits of alternative study design include:
 - Increased efficiency: time, cost, duration of study, number of participants, etc.
 - Improved ability to quantify safety and efficacy in typical care settings
 - Easier to identify and enroll patients
 - Increased access for patients
 - More meaningful outcomes
 - Ethical considerations



Expedited review methods



Fast track - Facilitates development, and expedite the review of drugs to treat serious conditions and fill an unmet medical need



Breakthrough therapy - Expedites development and review of drugs intended to treat a serious condition and preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over available therapy on a clinically significant endpoint(s)



Rolling review - Can submit completed sections of NDA/BLA for review, rather than waiting until the application is completed before the entire application can be reviewed



Priority review - Goal to act within 6 months (vs 10 months under standard review)



Accelerated approval - Allows for earlier approval of drugs that treat serious conditions, and fill an unmet medical need, based on a surrogate endpoint

regulatory pathways to enhance efficiency and expedite the development and approval of novel drugs



Polling question

- What is more valuable?
 - Selecting an optimal clinical trial design
 - Selecting an optimal regulatory approach



Embracing value-based research



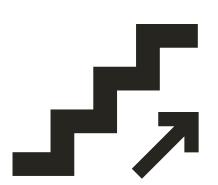
Examples of value-based research

- Traditional clinical trial with patient-centric outcomes
- Semi-pragmatic trial with synthetic control arm
- All-phase (Phase I/II/III/IV) clinical trial in oncology

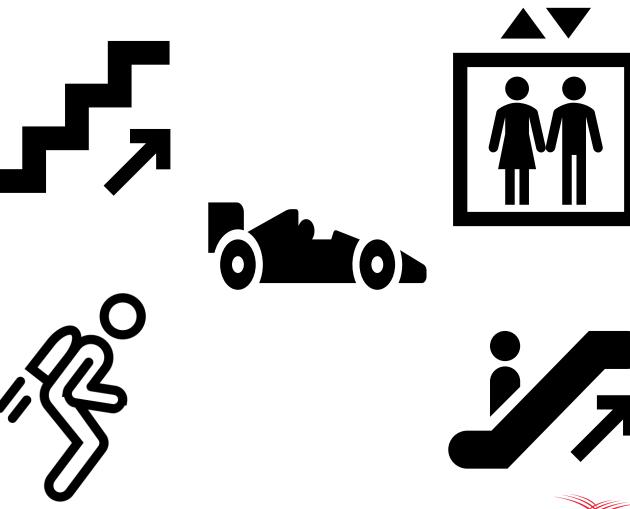


From one pathway to many customized pathways

Traditional Pathway



Alternative Pathways



Polling question

- What is more valuable?
 - Reducing drug development time
 - Reducing drug development cost
 - Increasing patient access to clinical trials
 - Increasing patient representativeness in clinical trials



Questions



Thank you