

Learning from the COVID-19 Pandemic: Expanding Opportunities for Robust Evidence Generation

Paul G Kluetz, MD
Deputy Director, Oncology Center of Excellence
U.S. Food and Drug Administration

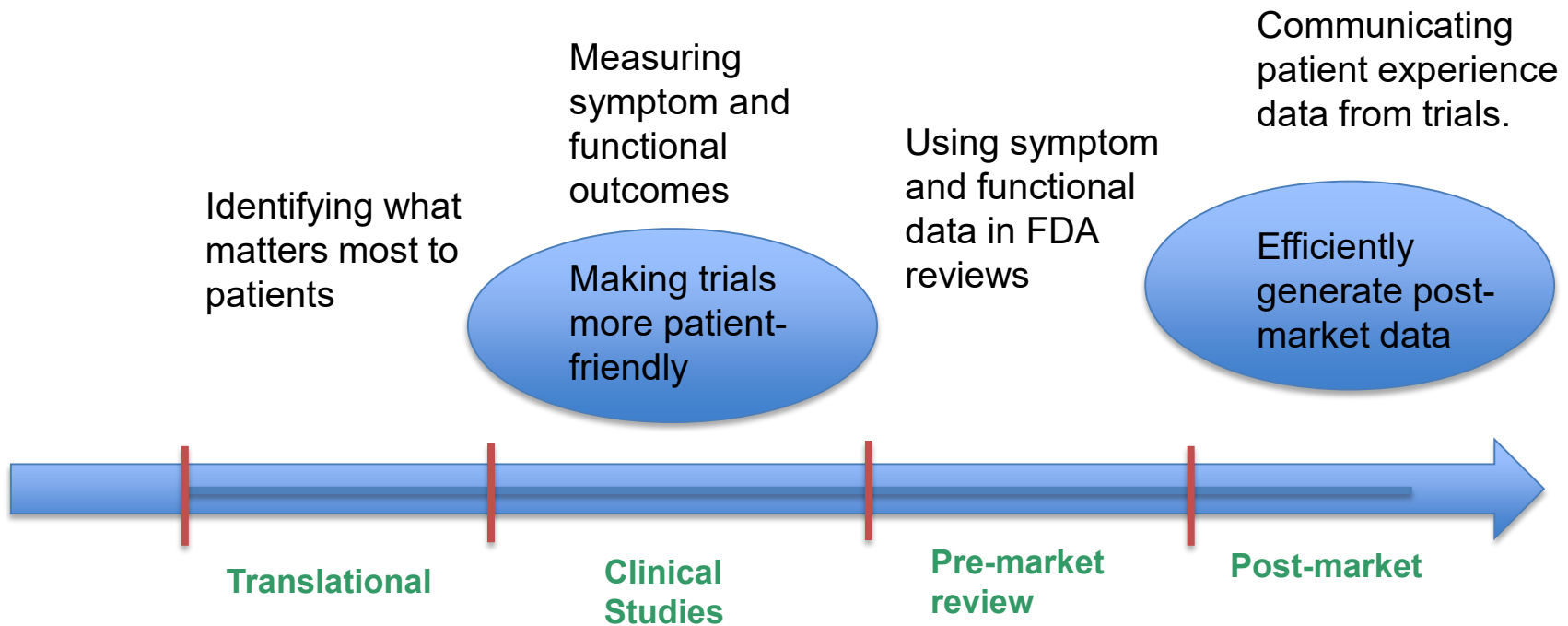
Disclosures



- I have no financial relationships to disclose

Patient-focused drug development (PFDD)

In many ways COVID-19 has accelerated our efforts to put the focus on patients when generating evidence for drug development.



Adapted slide by permission from Theresa Mullin, Office of Strategic Programs, FDA

Making trials/ evidence generation more patient friendly

- Advance digital health technology and patient generated data (ePRO, wearable devices, etc.)
 - Decentralize Clinical Trials (DCT)
 - Foster learning healthcare systems to facilitate prospective pragmatic trials
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- ↑ Trial access
 - ↑ Breadth of outcomes
 - ↓ Disparities
 - ↓ Development times
 - ↓ Cost

Generating Evidence From Clinical Trials and Clinical Care

Randomized Controlled Trials

Observational / Real World Data

RCT

Prospective

Randomized

Systematic Site-Based assessments

Highly Monitored / Site-Based

Narrow Population

Decentralized

Prospective

Randomized

Systematic REMOTE assessments

Highly Monitored / Site or REMOTE

Narrow Population

Pragmatic

Prospective

Randomized

Less systematic assessments

More Selective Monitoring

Broader Population

RWD

Often Retrospective

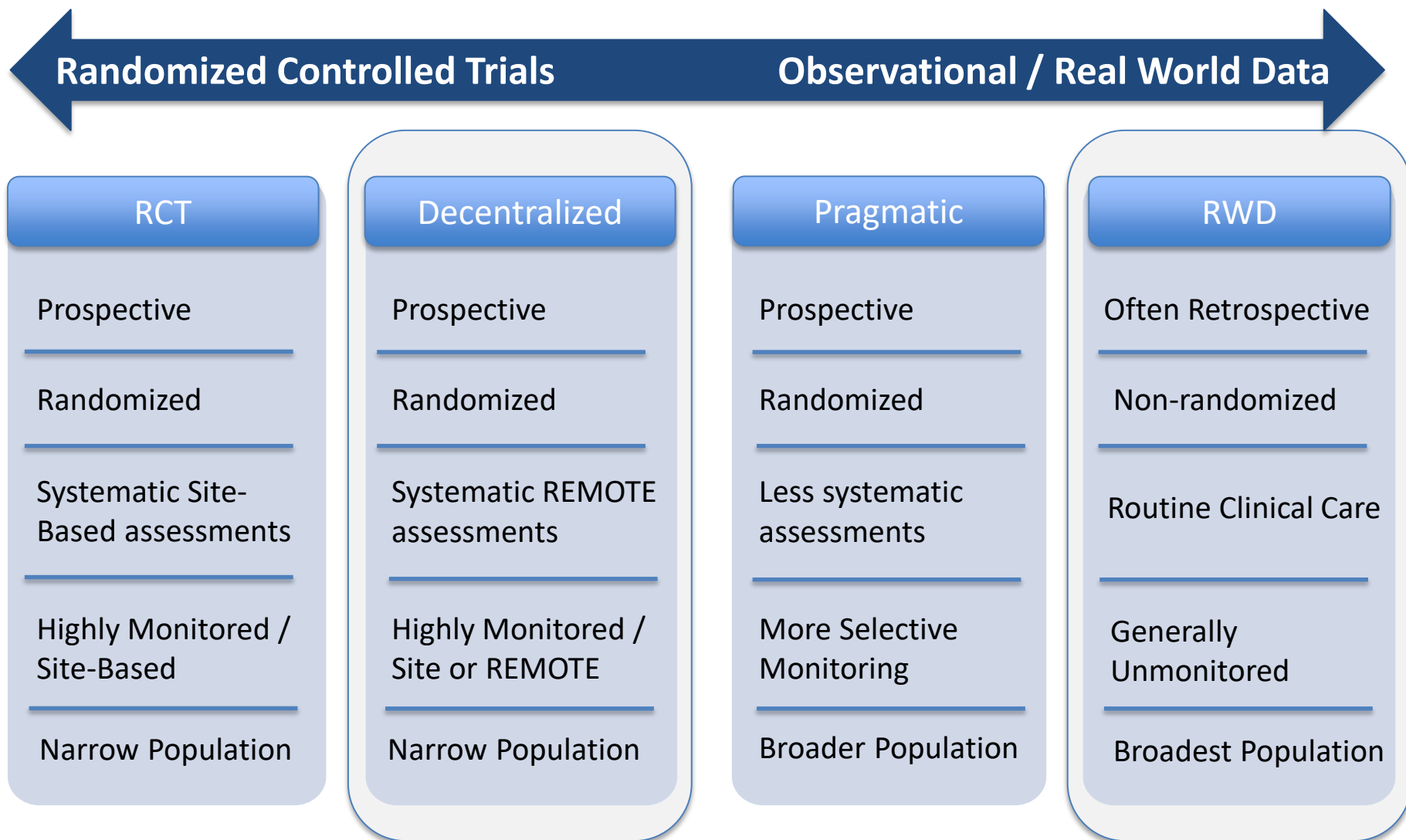
Non-randomized

Routine Clinical Care

Generally Unmonitored

Broadest Population

Blurring the lines between Clinical Trials and Clinical Care



Industry is deploying aspects of decentralized trials to respond to the COVID-19 pandemic-

What can we learn about effects on data quality of:

1. Remote clinic visits (telemedicine)
2. Remote labs
3. Remote imaging
4. Remote administration of IP
5. Remote site monitoring

<https://www.fda.gov/about-fda/oncology-center-excellence/advancing-oncology-decentralized-trials>

- **Issue:** No standard approach to how COVID-19 modifications are/will be identified in clinical trial datasets submitted to FDA
- **Standardize trial data submitted to FDA**
 - Dataset to describe permitted trial modifications
 - Flag individual assessments that were conducted remotely
 - Flag imaging assessments as interpretable (Y/N)

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FDA Oncology Real World Evidence Program

- Initial Programmatic Goals

1. Foster development of consistent **terminology** (Glossary)
2. Standardize RWD characterization and establish **quality** metrics
3. Advance real-world **endpoints** like response rate (rwRR)
4. Support efforts to improve **source data** (Common Data Elements)

Collaborate with FDA's broader RWE Program, professional societies (ASH, ASCO), data vendors, regulated industry, technology companies, non-profit organizations and others interested in moving real-world data into real-world evidence.

<https://www.fda.gov/about-fda/oncology-center-excellence/oncology-real-world-evidence-program>

- Learn from efficiencies and novel approaches to evidence generation during COVID-19

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- Prioritize modifications that benefit patients and provide efficiencies while maintaining patient safety and minimizing effects on data quality

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- FDA's Oncology Center will continue efforts to advance trial efficiencies, real-world data, patient-generated data, digital health technology and decentralized trials.
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