



## Framework for FDA's Real-World Evidence Program

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# **Objectives**



### At the end of this presentation, participants will:

- 1. Describe the main elements of FDA's real-world evidence (RWE) Program.
- 2. List FDA considerations for evaluating the use of realworld data to generate RWE for regulatory decisions.
- 3. Explain program items the Agency plans to address in the RWE Program.
- 4. Describe at least one demonstration project that will help inform the use of RWD and RWE.



# 21st Century Cures Deliverables



- FDA shall establish a program <u>to evaluate</u> the potential use of real world evidence (RWE) to:
  - Help support approval of a new indication for a drug approved under section 505(c)
  - Help satisfy post-approval study requirements
- Program will be based on a framework that was to be issued by 2018

Real world evidence means data regarding the usage, or the potential benefits or risks, of a drug derived from sources other than *traditional clinical trials* 



### FRAMEWORK FOR FDA'S REAL-WORLD EVIDENCE PROGRAM



- Intended for drug and biological products
- Outlines FDA's plan to implement the RWE program
- Multifaceted program
  - Internal processes
  - Guidance development
  - Stakeholder engagement
  - Demonstration projects
- Comment period closes April 16, 2019



# **Scope of the RWE Program**



# Evaluates the potential use of RWE to support changes to labeling about drug product effectiveness, including:

- Adding or modifying an indication, such as a change in dose, dose regimen, or route of administration
- Adding a new population
- Adding comparative effectiveness or safety information

Postmarketing Evaluation (Phase IV)

## Wide Spectrum of Potential Uses of RWD / RWE in Clinical Studies



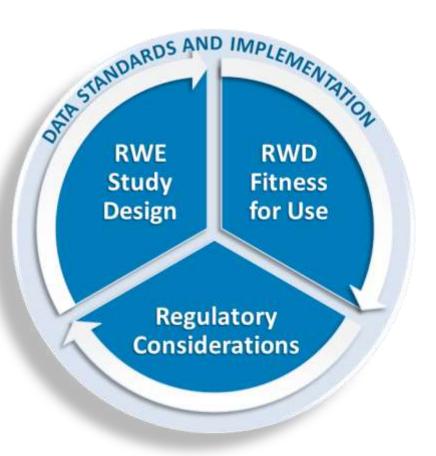
### Different challenges and opportunities for each approach

			Trials in Clinical Practice Settings				
RWD to assess eCR	eCRF + selected outcomes identified using EHR/ claims data Mobile technology used to capture supportive endpoints (e.g., to assess ambulation)	RCTs with Pragmatic designs			Prospective data collectio		
enrollment outo criteria / trial usin		RCT using eCRF (+/- eHR data)	RCT using claims and eHR data	Single arm study using external	Registry trials/study Prospective Cohort Study Using existing database		
				control			
site selection support (e.g.					Case – Control Retrospective Cohort Study (HC)		

Observational studies

## Framework for Evaluating RWD/RWE for Use in Regulatory Decisions





### Considerations

- Whether the RWD are fit for use
- Whether the trial or study design used to generate RWE can provide adequate scientific evidence to answer or help answer the regulatory question
- Whether the study conduct meets FDA regulatory requirements



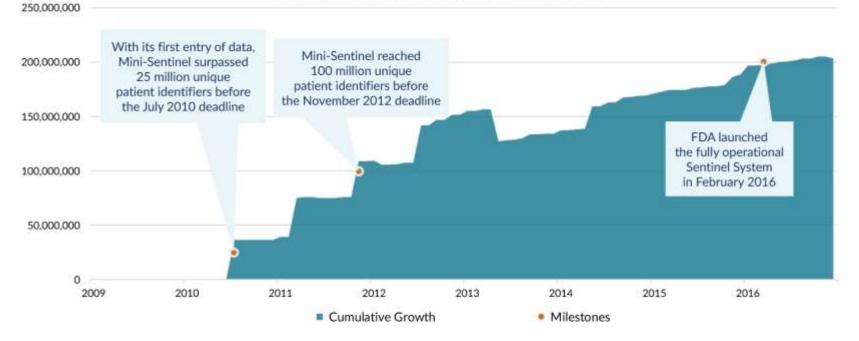
# **RWD Fitness for Use**



- Data reliability (data accrual and data quality control) and relevance
  - Data must be collected and maintained in a way that provides an appropriate level of reliability
  - Data must be suitable to address specific regulatory question of interest
    - Challenges of capturing clinical effectiveness outcomes
- FDA does not endorse any one type of RWD
- <u>Challenge</u>: A single source of RWD may not capture all data elements, and multiple data sources may be needed
  - How to integrate data sources and address duplication

# **Gained Experience**

#### Growth of the Sentinel Distributed Database



The area above depicts the cumulative number of unique patient identifiers in the Sentinel Distributed Database from 2010 to present. If patients move health plans, they may have more than one patient identifier.

• 18 data partners

Sentine

- <u>Sentinel 5-year Strategic Plan 2019-2023</u>
  - One strategic aim is to leverage the Sentinel System to accelerate access to and broader use of RWD for RWE generation
  - FDA-Catalyst

## **Sources of Patient-Centric RWD Beyond Health Care Records**



### www.fda.gov FDA MY STUDIES Welcome! The FDA is pleased to offer the FDA My Studies app as a tool to gather real time, contextual data about medication use and other health issues facing the people we serve. Get Started New User? Sign in

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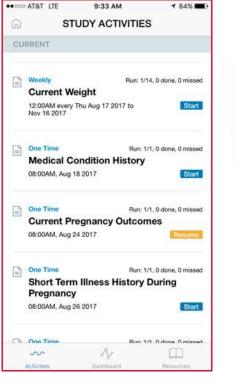
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### Passive Detection of Atrial Fibrillation Using a Commercially Available Smartwatch

Geoffrey H, Tison, MD, MPH; José M, Sanchez, MD; Brandon Ballinger, BS; Avesh Singh, MS; Jeffrey E, Olgin, MD; Mark J. Pletcher, MD, MPH; Eric Vittinghoff, PhD; Emily S. Lee, BA; Shannon M, Fan, BA; Rachel A. Gladstone, BA; Carlos Mikell, BS; Nimit Sohoni, BS; Johnson Hsieh, MS; Gregory M, Marcus, MD, MAS









**PROGRAM ITEMS:** 





- Guidance on how to assess whether RWD from medical claims, EHRs and/or registries are fit for use to generate RWE in support of drug product effectiveness
- Explore the use of digital technology tools, electronic PROs, and wearables to potentially fill gaps



## Potential for Study Designs Using RWD to Support Effectiveness

# Factors when considering embedding a randomized trial in clinical settings in order to access RWD

- What types of interventions and therapeutic areas might be well-suited to routine clinical care settings?
- What is the quality of data that can be captured in these settings?
- Bridging between regulatory endpoints and clinical practice



Guidance on considerations for using RWD in randomized clinical trials for regulatory purposes, including use of pragmatic design elements



## Potential for Study Designs Using FDA RWD to Support Effectiveness

### Non-randomized, single arm trials with external RWD control

- RWD as a basis for external controls is not without challenges given potential differences between trial participants and non-trial participants
- However, robust RWD on patients currently receiving other treatments together with statistical methods could improve quality of external control data



Guidance on the use of RWD to generate external control arms is also being considered



## Potential for Study Designs Using RWD to Support Effectiveness

### **Observational studies**

- Transparency about study design and analysis <u>before</u> execution is critical for ensuring confidence in the result
- What should transparency for observational studies look like?



#### Original Report

Good Practices for Real-World Data Studies of Treatment and/or Comparative Effectiveness: Recommendations from the Joint ISPOR-ISPE Special Task Force on Real-World Evidence in Health Care Decision Making

Marc L. Berger, MD<sup>1,4</sup>, Harold Sox, MD<sup>2</sup>, Richard J. Willke, PhD<sup>5</sup>, Diana L. Brianer, PhD<sup>7</sup>, Hans Georg Eichler, MD<sup>5</sup>, Wim Coettsch, PhD<sup>6</sup>, David Madigan, PhD<sup>5</sup>, Ann Makady, MSC<sup>4</sup>, Schattian Schweuzeits, MD, Sch<sup>2</sup>, Rotanna Tarvicon, MSc, PhD<sup>2</sup>, Shirley V. Wang, PhD, Sch<sup>4</sup>, John Wathins, MPH, PharmD<sup>10</sup>, C. Daviel Mullins, PhD<sup>13</sup>

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#### ABSTRACT

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#### Introduction

Beal-world evidence (HWG) is altituded from analyzing real-world data (HWG). The KWG is defined have briefly as data obtained catalide the context of randomized controlled trials (BCrO) generated during routine clinical practice [1,7]. This includes data from retrospective at geospective observational stabilist and observational registritis, same canador data from single arm clinical trials as 8000. As stated in a 2007 International Society for Floarmacoecomotrics and Outcomes Benearch (SPOR) task faces sport, "Trideture is generated acroning to a research plan

and interpreted accordingly, whereas data is but one component of the research plan. Evidence is shaped, while data simply ore raw statestials and alone are non-informative. "BWE can inform the application of evidence fram BCDs to beath care decision making and provide implicits beyond those addressed by RCDs. RWD studies assess both the care and health outcomes of patients in routine clinical practice and produce RWL. In contents to RCDs, patients and their clinicital choice broatments on the basis of the patient's clinical characteristics and preferences. However, since the factors that influence treatment choice in clinical practice may also influence clinical uncontent. RWD

This article is a joint publication by Phaemacoopidemiology and Drug Safety and Value in Health \* Address correspondence to: Marc L. Berger, New York, NY, USA.

1998-3015356.00 - use front matter = 2017 Published by Elsevier bar, on behalf of International Society for Pharmacheconomics and Dototomes Research (SPOR).

http://doi.doi.org/10.1016/j.jval.2017/.00.2019

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# **Observational Studies:** Initial Questions<sup>1</sup>



- What are the characteristics of the data?
  - Diagnostic precision, consistency in data on exposure,  $\checkmark$ relevant endpoint outcome captured across populations, lack of missing data, robust data on covariates
- What are the characteristics of the study design and analysis that improve the chance of a valid result?
  - Can use of an active comparator improve the chance of a valid result?
  - Are there prespecified sensitivity analyses and statistical  $\checkmark$ diagnostics that can provide confidence that the effect of unmeasured cofounders would not change the causal inference? 1- not all-inclusive



## Potential for Study Designs Using FDA RWD to Support Effectiveness

**PROGRAM ITEM:** 

Guidance about observational study designs using RWD, including whether and how these studies might provide RWE to support product effectiveness in regulatory decision making







- Identify potential questions regarding the applicability of regulatory requirements to use of RWD for regulatory decisions in RCTs and observational studies, including informed consent and oversight
- Assess whether current guidance documents on the use of electronic source data are sufficient



## Foundation for Use of Electronic Source Data



#### Guidance for Industry

#### Electronic Source Data in Clinical Investigations

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> > Reptember 2013 Procedural

Use of Electronic Informed Consent

#### Questions and Answers

Guidance for Institutional Review Boards, Investigator and Sponsors Use of Electronic Records and Electronic Signatures in Clinical Investigations Under 21 CFR Part 11 – Questions and Answers

#### Guidance for Indu

#### DRAFT GUIDANCE

#### This guidance document is being distributed for comment

Comments and suggestions regarding this draft document should be supublication in the Federal Register of the notice announcing the avail guidance. Submit electronic comments to <u>https://www.regulations.gov</u> comments to the Division of Dockets Management (HFA-305), Food 6 630 Fishers Lane, rm. [061, Rockville, MD 2082. All comments al the docket number listed in the notice of availability that publishes in t

For questions regarding this draft document, contact (CDER) Cheryl C Sacks at 301-796-2500; (CBER) Office of Communication, Outreach at 835-4709 or 240-402-8010; or (CDRH) Program Operations Staff or Is 5640.

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> June 2017 Procedural

Use of Electronic Health Record Data in Clinical Investigations

#### Guidance for Industry

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Center for Biologics Evaluation and Research (CBER) Center for Devices and Radiological Health (CDRH) December 2016

Procedural



**PROGRAM ITEMS:** 



 Guidance as needed on regulatory considerations raised by different study designs to generate RWE that is submitted to support drug product effectiveness

Regulatory

**Considerations** 

 Consider whether additional guidance on use of electronic source data is needed



# Data Standards and Implementation



### Activities include:

- Identifying and assessing data standards and implementation strategies required to use RWD/ RWE
- Identifying gaps between RWD/ RWE data standards and existing FDA systems
- Collaborating with stakeholders to adapt or develop standards and implementation strategies

# Continued Active Stakeholder Engagement







Our Work

**Real-World Evidence** 



#### Real world evidence scoping roundtable







PUBLIC RESPONSIBILITY IN MEDICINE AND RESEARCH

The Academy of Medical Sciences 21



# **Stakeholder Engagement**

### **Internal Engagement**

- Launched internal website and outreach to engage FDA staff
- Established the RWE Subcommittee of the Medical Policy Program and Review Committee, which...
  - Includes leadership from CDER Offices, CBER, and CDRH.
  - Serves as a cross-cutting forum for RWD/RWE issues; focuses on CDER's evaluation of RWE and guides policy development.
  - Provides advisory recommendations on whether the underlying data, methods, and study design elements are appropriate for regulatory decisions.
  - Provides a platform to engage with stakeholders as the community at large continues to explore the utility of RWD.

# **Demonstration Projects**





- Relevancy
- Quality
- Linkage



- Common data models
- Digital technology tools



- Randomized trials
- Assessment of observational studies

## EHRs: Greatest Potential and Challenge



### EHR data have advantages of:

- Presenting a more complete and granular clinical picture
- Including labs/imaging/ pathology reports

### **Challenges include:**

 Data in pathology/ radiology and clinical notes are often unstructured (80%)

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- Typing ≠ consistency/complete documentation
- Clinical outcome measures for drug approvals may not be used or consistently recorded in practice

## Creating Quality Clinical/Research Records – Design for Multiuse



- OneSource: "enter the right clinical data once, use many times"
- FDA collaboration with Dr. Laura Esserman (UCSF)
- Integration of standards based tools into the EHR to bring together health care and research
- Demonstration in breast cancer clinical trials



## **HARMONY-Outcomes Ancillary Study**



- Collaboration with Duke Clinical Research Institute and Glaxo SmithKline
- Supported by FDA
- Assess EHR ability to:
  - Facilitate recruitment
  - Populate baseline characteristics
  - Identify clinical endpoints

Leveraging Electronic Health Data in a Multinational Clinical Trial: Early Learnings from the HARMONY-OUTCOMES EHR Ancillary Study

Emily O'Bren, PhD – Assistant Professor Lesley Curtis, PhD – Professor Department of Population Health Sciences July 14, 2017

U Duke Clinical Research Institute

July 14, 2017: Leveraging Electronic Health Data in a Multinational Clinical Trial: Early Learnings from the HARMONY-Outcomes EHR Ancillary Study

http://www.rethinkingclinicaltrials.org/grand-rounds-7-14-17/

Effect of Albiglutide, When Added to Standard Blood Glucose Lowering Therapies, on Major Cardiovascular Events in Subjects With Type 2 Diabetes Mellitus – <u>NCT02465515</u>

### **Demonstration Project**



FDA

Inclusion Criteria:	Exclusion Criteria:					
Clinical diagnosis JIA by a pediatric rheumatologist within the past 6	<ul> <li>Systemic JIA as defined by 2004 ILAR criteria<sup>1</sup></li> </ul>					
months	<ul> <li>Sacroiliitis (clinical or radiographic)</li> </ul>					
Arthritis affecting ≤4 joints between disease onset and enrollment	<ul> <li>Inflammatory bowel disease</li> </ul>					
Clinically active arthritis of at least 1 joint at the time of enrollment	Psoriasis					
Age ≥ 2 years old and < 17 years old	<ul> <li>History of uveitis or currently active uveitis</li> </ul>					
Prior or concurrent enrollment in the CARRA Registry	<ul> <li>Prior treatment with systemic DMARD(s) or biologics</li> </ul>					
о , ,	• Current treatment with systemic glucocorticoids (past 30 days)					

- FDA-Catalyst is planning to align with the trial by providing support from the My Studies App
  - Collection of primary outcome (uveitis) from ophthalmology appointments (also reminders for appointments)
  - Potential support for the Childhood Arthritis & Rheumatology Research Alliance (CARRA) Registry

Table of Scheduled Visits for Uveitis Screening<sup>85</sup>

**LimitIA** 

ILAR Category	ANA	Age at JIA Onset	Screen	M 3	M 6	M 9	M 12	M 15	M 18
Oligoarthritis, Psoriatic arthritis, Undifferentiated	+	≤ 6	Х	Х	Х	X	Х	Х	Х
Oligoarthritis, Psoriatic arthritis, Undifferentiated	+	> 6	х	Х		X		Х	
Oligoarthritis, Psoriatic arthritis, Undifferentiated		≤ 6	х	Х		Х		х	
Oligoarthritis, Psoriatic arthritis, Undifferentiated		> 6	х	Х				Х	
Enthesitis-related arthritis	Any	Any	x	Х				x	-



### **Demonstration Project**





- SPARC Inflammatory Bowel Disease cohort within the IBD Plexus research exchange platform
  - Provider based recruitment of individuals >18 years of age with a confirmed IBD diagnosis from academic and community sites

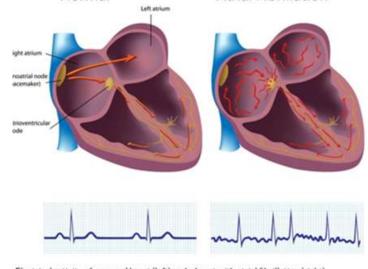


• FDA-Catalyst will align with the registry by providing support from the My Studies App



## **Demonstration Project** – Impact AFib – Large Randomized Trial

- Implementation of an individually randomized controlled trial within the FDA-Catalyst distributed database environment
- Test the ability of an education intervention to increase the appropriate use of oral anticoagulants in a patient population with atrial fibrillation (afib) at high risk of stroke
- Intervention materials include letter from health plan to describe project, patient brochure (additional information on AF and OACs), and patients pocket card (tool to facilitate conversation between patients and providers)
- Enrollment of approximately 80,000 individuals in the early and late intervention arm
- Protocol available at:



Normal

**Atrial Fibrillation** 

Electrical activity of a normal heart (left) and a heart with atrial fibrillation (right)

### **Demonstration Project**



- RofLumilast or Azithromycin to prevent COPD Exacerbations
  - Randomized "real world" trial,
     1,600 adults in each arm
  - Azithromycin macrolide with antiinflammatory properties
  - **Roflumilast** noncorticosteroid anti-inflammatory; phosphodiesterase type 4 inhibitor
  - Both guideline recommended but Roflumilast is FDA approved for this indication



FDA

- Primary outcomes
  - All cause
     hospitalization
  - All cause mortality
- Follow-up
  - 6-36 months
  - No visits
  - Call Center
  - Patient Portal
  - Site EMR

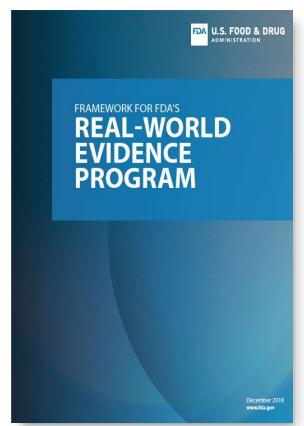
### Demonstration Project: Assessment of Non-Interventional Designs



- Attempted duplication of results of phase 3 & 4 RCTs over three years to provide empirical evidence base that could inform our level of confidence in high quality non-interventional designs
- FDA reviewers and researchers from the Brigham and Women's Hospital/Harvard Medical School Division of Pharmacoepidemiology
  - Selected trials in which claims data are sufficiently fit for purpose in a research environment
    - Oral hypoglycemic, novel oral anticoagulant, antiplatelet, antihypertensive, anti-osteoporosis, asthma, COPD, heart failure, anti-arrhythmic, and lipid lowering medications
  - Concurred with pre-specified measures of agreement
  - Established an implementation process
- Goal: 30 trials completed by March 2020

# Conclusion

- FDA
- Framework serves as a roadmap for more fully incorporating RWD and RWE into the regulatory paradigm
- RWE remains a top FDA priority
- FDA is committed to understand its full potential
- Multi-stakeholder effort





### Acknowledgements

- Khair ElZarrad
- Peter Stein
- David Martin
- Dianne Paraoan
- FDA RWE Committee

# **Q&A and Resources**

Click for:

- FDA Real World Evidence webpage
- Framework for FDA's RWE Program
- FDA MyStudies Application
- PDF of today's slides
- Additional questions on the webinar?

Email: CDERSBIA@fda.hhs.gov



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