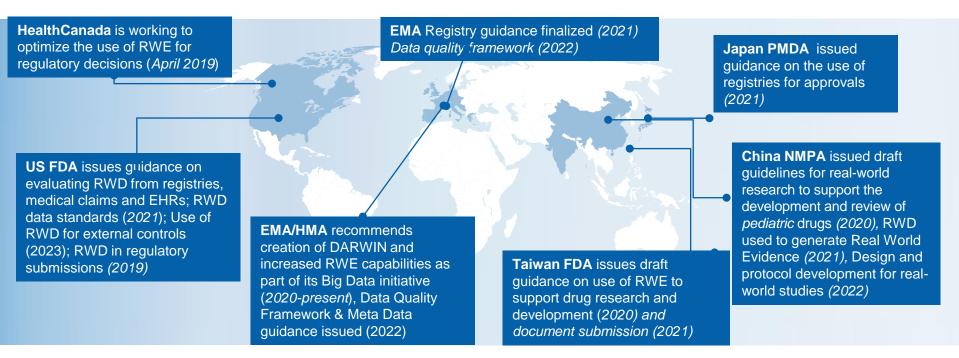


# **RWD** for regulatory decisions

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## **RWD/E guidance & frameworks**

Health authorities have issued frameworks and guidance on the use of RWD/E for medical product development and regulatory decision making



## **Expanded possibilities for RWD/E**

The use of RWE for regulatory decisions is not new, but interest in potential opportunities to expand its use beyond safety is being driven by:



Greater availability of electronic healthcare information



Capability to analyze large volumes of data



Ability to link patient data across sources and care settings



Appreciation of the limitations of traditional trials



### **Definitions\*of RWD and RWE**

Real World Data (RWD) are data relating to patient health status and/or the delivery of health care routinely collected from a variety of sources

electronic health records (EHRs)

medical claims data

product and disease registries

patient-generated data, including in-home settings

data gathered from other sources, such as mobile devices, that can inform on health status

Real World Evidence (RWE) is the clinical evidence regarding the usage and potential benefits or risks of a medical product derived from analysis of RWD

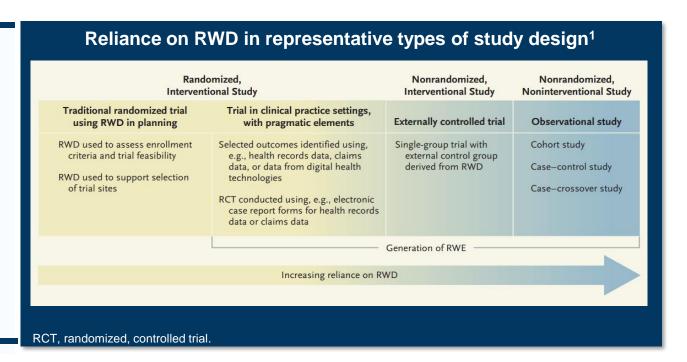
Generated using different study designs, including but not limited to randomized trials (e.g., large simple trials, pragmatic trials), externally controlled trials, and observational studies



## **Generating RWE**

RWD studies exist on a continuum

A variety of study types may generate fit-for-purpose RWE





## Considerations for regulatory decisions

Important considerations when using RWD/E for regulatory purposes

- Are the RWD "fit for use" in regulatory decision-making?
- Can the study design and methods used to generate RWE provide adequate and interpretable scientific evidence to support a specific regulatory decision?
- Does the approach used in a particular case meet applicable regulatory requirements, including:
  - Requirements for study monitoring
  - Pre-specification of protocols/SAPs
  - Established standards for data submission



# Framework for "decision grade" RWE

#### **Regulatory Context**

What specific decision is FDA considering?

- . New indication
- Labeling revision
- · Safety revision
- · Benefit-risk profile



#### **Clinical Context**

Can the clinical question be reliably addressed with RWE?

- · Prevalence of the disease
- · Clinical equipoise
- Expected treatment effect size
- · Relevant prior evidence

#### Data

#### Considerations

is the real-world dataset fit for regulatory purpose?

- 1. Is the data relevant?
  - Representative of the population of interest
  - Contains key variables and covariates
- 2. Is the data of adequate quality?
  - · Minimal missing data
  - Data reliability and validity is satisfactory for study purpose
  - Known provenance and transparency of data processing

#### Methods Considerations

Are the methodological approaches of sufficient rigor?

- 1. Are the methods credible?
- Appropriate analytic approach
- 2. Can the approach produce actionable evidence?
  - Interplay of body of clinical evidence and tolerance for uncertainty

Fit-forpurpose RWE

Regulatory Requirements



## Regulatory guidance: where are we now?

Several draft regulatory guidance documents on RWD quality exists, with more to come



Real-World Data: Assessing Electronic Health Records and Medical Claims Data To Support Regulatory Decision-Making for Drug and Biological **Products** Guidance for Industry DRAFT GUIDANCE This guidance document is being distributed for comment purposes only. Comments and suggestions regarding this draft document should be submitted within 60 days of publication in the Federal Register of the notice announcing the availability of the draft guidance. Submit electronic comments to https://www.regulations.gov. Submit written mments to the Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. All comments should be identified with the docket number listed in the notice of availability that publishes in the Federal Register. For questions regarding this draft document or the RealWorld Evidence Program, please email CDERMedicalPolicy-RealWorldEvidence@fda.hhs.gov U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER) Center for Biologics Evaluation and Research (CBER) Oncology Center of Excellence (OCE) September 2021 Real World Data/Real World Evidence (RWD/RWE)



## ICMRA's collaboration pledge on RWD/E

International Coalition of Medicines Regulatory Authorities (ICMRA) pledged to work towards alignment on four key areas related to regulatory uses of RWD:

- Harmonization of RWD and RWE terminologies
  - Common definitions for RWD/E





- Readiness
  - Collaboration on RWD studies to address public heath
- Transparency
  - Systematic registration of RWD studies in public registries



Implementation will happen through collaboration via ICH, meetings between interested regulators and standard setting bodies



# **Applying RWD regulatory frameworks**

During the workshop, keep the regulatory purpose and frameworks in mind



Real-World Data Quality – Assessing data quality and demonstrating fitness-for-purpose

BBS/BES Seminar Wednesday 15th March, 2023 from 14:30-17:00 CET Virtual meeting



- What does data quality mean?
- How can we assess and demonstrate that RWD is fit-for-purpose?
- Are there areas of regulatory uncertainty need to be addressed?
- What practical tools are needed in the future?

# Questions

## Thank you

**TYXTYXTYY** 

