Submitting Documents Using Real-World Data and Real-World Evidence to FDA for Drugs and Biologics 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DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.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be submitted within 60 days of publication in the *Federal Register* of the notice announcing the availability of the draft guidance.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 comments 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, contact (CDER) Lauren Milner, 301-796-5114, or (CBER) Office of Communication, Outreach and Development, 800-835-4709 or 240-402-8010.

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)

May 2019 Procedural

Submitting Documents Using Real-World Data and Real-World Evidence to FDA for Drugs and Biologics Guidance for Industry

Additional copies are available from:

Office of Communications, Division of Drug Information Center for Drug Evaluation and Research Food and Drug Administration 10001 New Hampshire Ave., Hillandale Bldg., 4th Floor Silver Spring, MD 20993-0002 Phone: 855-543-3784 or 301-796-3400; Fax: 301-431-6353

Email: druginfo@fda.hhs.gov

Email. aruginjo@jaa.nns.gov

https://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm

and/or

Office of Communication, Outreach and Development Center for Biologics Evaluation and Research Food and Drug Administration 10903 New Hampshire Ave., Bldg. 71, Room 3128 Silver Spring, MD 20993-0002 Phone: 800-835-4709 or 240-402-8010 Email: ocod@fda.hhs.gov

https://www.fda.gov/BiologicsBloodVaccines/GuidanceComplianceRegulatoryInformation/Guidances/default.htm

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)

May 2019 Procedural

Draft — Not for Implementation

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	BACKGROUND	2
III.	EXAMPLE SUBMISSIONS USING RWD AND/OR RWE	2
IV. SUBM	IDENTIFYING RWE SUBMITTED AS PART OF A REGULATORY MISSION	3
A.	Purpose of Using RWE as Part of the Regulatory Submission	3
В.	Study Design Using RWE	4
C.	RWD Source(s) Used To Generate RWE	4
	ENDIX: SAMPLE PRESENTATION TO INCLUDE IN COVER LETTER FOR MISSIONS INCLUDING REAL-WORLD EVIDENCE	5

Draft — Not for Implementation

Submitting Documents Using Real-World Data and Real-World Evidence to FDA for Drugs and Biologics Guidance for Industry¹

3 4

1

2

11

12 13 14

15

16

17 18 19

21 22 23

20

24 25

27 28 29

26

30 31

32 33 34

36 37 38

35

39 40

41 42 This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

I. INTRODUCTION

This guidance is intended to encourage sponsors and applicants who are using real-world data (RWD) to generate real-world evidence (RWE) as part of a regulatory submission to FDA to provide information on their use of RWE in a simple, uniform format. FDA will use this information for internal tracking purposes only. This guidance applies to submissions for investigational new drug applications (INDs), new drug applications (NDAs), and biologics license application (BLAs) that contain RWE used to support regulatory decisions regarding safety and/or effectiveness.

For the purposes of this guidance, FDA defines RWD and RWE as follows:

- RWD are data relating to patient health status and/or the delivery of health care that are routinely collected from a variety of sources. Examples of RWD include the following:
 - Data derived from electronic health records (EHRs)
 - Medical claims and billing data
 - Data from product and disease registries
 - Patient-generated data, including in-home use and/or other decentralized settings
 - Data gathered from other sources that can inform on health status, such as mobile devices
- RWE is the clinical evidence regarding the usage and potential benefits or risks of a medical product derived from analysis of RWD. RWE can be generated, for example, by

¹ This guidance has been prepared by the Office of Medical Policy in the Center for Drug Evaluation and Research in cooperation with the Center for Biologics Evaluation and Research at the Food and Drug Administration.

Draft — Not for Implementation

collecting information about effectiveness or safety outcomes from an RWD source in randomized clinical trials or in observational studies.

In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

II. BACKGROUND

The availability of RWD and evolving analytic techniques to generate RWE has created interest within the research and medical communities to use RWD/RWE to enhance clinical research and support regulatory decision making.

Exploring the potential for RWE to inform regulatory decisions is mandated by the 21st Century Cures Act (Cures Act). Section 3022 of the Cures Act requires FDA to establish a program² to evaluate the potential use of RWE to help to support the approval of a new indication for a drug approved under section 505(c) of the Federal Food, Drug, and Cosmetic Act (FD&C Act) and to help to support or satisfy postapproval study requirements.

To inform FDA's RWE program under the Cures Act and to help FDA understand the scope and use of RWE submitted to support regulatory decisions regarding safety and/or effectiveness, the Center for Drug Evaluation and Research (CDER) and the Center for Biologics Evaluation and Research (CBER) intend to track certain types of submissions using RWE under an IND, NDA, or BLA. To aid in the tracking, CDER and CBER encourage sponsors and applicants to identify submissions that include RWE being used to support a regulatory decision(s) regarding safety and/or effectiveness.

III. EXAMPLE SUBMISSIONS USING RWD AND/OR RWE

Relevant submissions can be in different forms such as a new protocol(s) submitted to an existing IND, a final study report submitted to an NDA or BLA supplement, or a meeting package that discusses the use of RWE. Relevant submissions may include RWE used to support study objectives, such as the following:

IND submissions for randomized clinical trials that use RWD to capture clinical outcomes or safety data, including pragmatic and large simple trials³

² Information about this program can be found in the "Framework for FDA's Real-World Evidence Program," available at https://www.fda.gov/scienceresearch/specialtopics/realworldevidence/default.htm.

³ Additional information about clinical trials and observational studies using RWE can be found in the "Framework for FDA's Real-World Evidence Program."

Draft — Not for Implementation

Q	3
O	J

84

85

86 87

88 89

90 91 92

94 95

93

96 97 98

99 100

101 102

103 104

105 106

107 108 109

110 111 112

113 114 115

117 118 119

120

121

116

• New protocols for single arm trials that use RWE as an external control

- Observational studies⁴ that generate RWE intended to help to support an efficacy supplement
- Clinical trials or observational studies using RWE to fulfill a postmarketing requirement to further evaluate safety or effectiveness and support a regulatory decision

FDA does not intend to track RWE submissions that are not tied to a specific product or are not being used to support a regulatory decision regarding safety and/or effectiveness. Submissions that sponsors and applicants need *not* identify as containing RWE include, for example:

- Natural history studies for development of a clinical outcome assessment or biomarker
- Feasibility studies using RWE
- Studies using RWD to perform exploratory analyses and generate hypotheses

FDA encourages sponsors and applicants to consult the appropriate review division with questions about whether a specific submission should be identified as containing RWE.

IDENTIFYING RWE SUBMITTED AS PART OF A REGULATORY IV. **SUBMISSION**

In the cover letter accompanying a submission, the sponsor or applicant should identify the submission as containing RWE by including the following information. To facilitate FDA tracking, a sponsor or applicant can include this information in a table or highlight this information in the cover letter:⁵

Purpose of Using RWE as Part of the Regulatory Submission Α.

The sponsor or applicant should list the purpose(s) for using RWE in the submission:

To provide evidence in support of the effectiveness or safety for a new product approval (e.g., collecting information about effectiveness or safety outcomes from an RWD source in a randomized clinical trial)

⁴ Ibid.

⁵ Applicants may use any format that provides the requested information. A sample table containing the requested information is provided in the Appendix.

Draft — Not for Implementation

122	• To provide evidence in support of labeling changes for an approved product, including:	
123 124	Adding or modifying an indication	
	Adding or modifying an indication Change in data data assistant as a posterior for decimination.	
125	 Change in dose, dose regimen, or route of administration 	
126	- Use in a new population	
127	 Adding comparative effectiveness information 	
128	 Adding safety information 	
129	 Other labeling changes 	
130		
131	 To be used as part of a postmarketing requirement to support a regulatory decision 	
132 133	B. Study Design Using RWE	
133 134	B. Study Design Using RWE	
135	The sponsor or applicant should list the clinical study design(s) that includes RWE as part of a	
136	submission to support a regulatory decision(s) (e.g., a randomized clinical trial, single-arm trial,	
137	or observational study).	
138	or observational staaty).	
139	C. RWD Source(s) Used To Generate RWE	
140		
141	The sponsor or applicant should list all the RWD source(s) used to generate the RWE. RWD	
142	sources can include the following:	
143		
144	 Data derived from EHRs⁶ 	
145	 Medical claims and/or billing data 	
146	 Product and/or disease registry data 	
147	 Other data sources that can inform on health status (e.g., data collected from mobile 	
148	technologies, patient-generated data)	
149		

-

⁶ Recommendations regarding the collection and utilization of EHR data in clinical investigations can be found in the guidance for industry *Use of Electronic Health Record Data in Clinical Investigations* (July 2018). We update guidances periodically. For the most recent version of a guidance, check the FDA guidance web page at https://www.fda.gov/RegulatoryInformation/Guidances/default.htm.

Draft — Not for Implementation

150 APPENDIX: SAMPLE PRESENTATION TO INCLUDE IN COVER LETTER FOR 151 SUBMISSIONS INCLUDING REAL-WORLD EVIDENCE

152

This table is provided as an example of how sponsors or applicants can identify in the cover letter accompanying the submission that the submission contains real-world data (RWD) or real-world evidence (RWE).

156

Purpose(s) of Using RWE as Part of the Submission (Select all that apply)			
☐ To provide evidence in support of effectiveness or safety for a new product approval			
☐ To provide evidence in of support labeling changes for an approved drug, including:			
☐ Add or modify an indication			
☐ Change in dose, dose regimen, or route of administration			
☐ Use in a new population			
☐ Add comparative effectiveness information			
☐ Add safety information			
☐ Other labeling change. Specify:			
☐ To be used as part of a postmarketing requirement to support a regulatory decision			
Study Design(s) Using RWE (Select all that apply)			
☐ Randomized clinical trial			
☐ Single arm trial			
☐ Observational study			
☐ Other study design. Specify:			
RWD Source(s) Used To Generate RWE (Select all that apply)			
☐ Data derived from electronic health records			
☐ Medical claims and/or billing data			
☐ Product and/or disease registry data			
☐ Other data source that can inform on health status. Specify:			