

Guidance Snapshot

Patient-Focused Drug Development: Selecting, Developing, or Modifying Fit-for-Purpose Clinical Outcome Assessments Guidance for Industry



Clinical Outcome Assessment Key Points

A COA is a measure that describes how a patient feels, functions, or survives. There are four types of COAs:

- Patient-reported outcome (PRO) measures
- Observer-reported outcome (ObsRO) measures
- Clinician-reported outcome (ClinRO) measures
- Performance outcome (PerfO) measures

The meaningful aspect of health (MAH), concept of interest (COI), and context of use (COU) should be explicitly defined:

- An MAH is some aspect of feeling or functioning in daily life that is important to patients.
- A COI is what is specifically measured by a COA to help understand how a medical product affects an MAH.
- A COU should clearly specify the way COA scores will be used as the basis for an endpoint, including the interpretation of the endpoint results in a medical product development program.

COA should be fit-for-purpose:

A COA is considered fit-for-purpose when “the level of validation associated with a medical product development tool is sufficient to support its context of use” (BEST (Biomarkers, EndpointS and other Tools) Resource, 2016).

What Is Recommended in This Guidance?

 This guidance provides recommended approaches for selecting, modifying, developing, and evaluating measurements in clinical trials that evaluate outcomes important to patients.

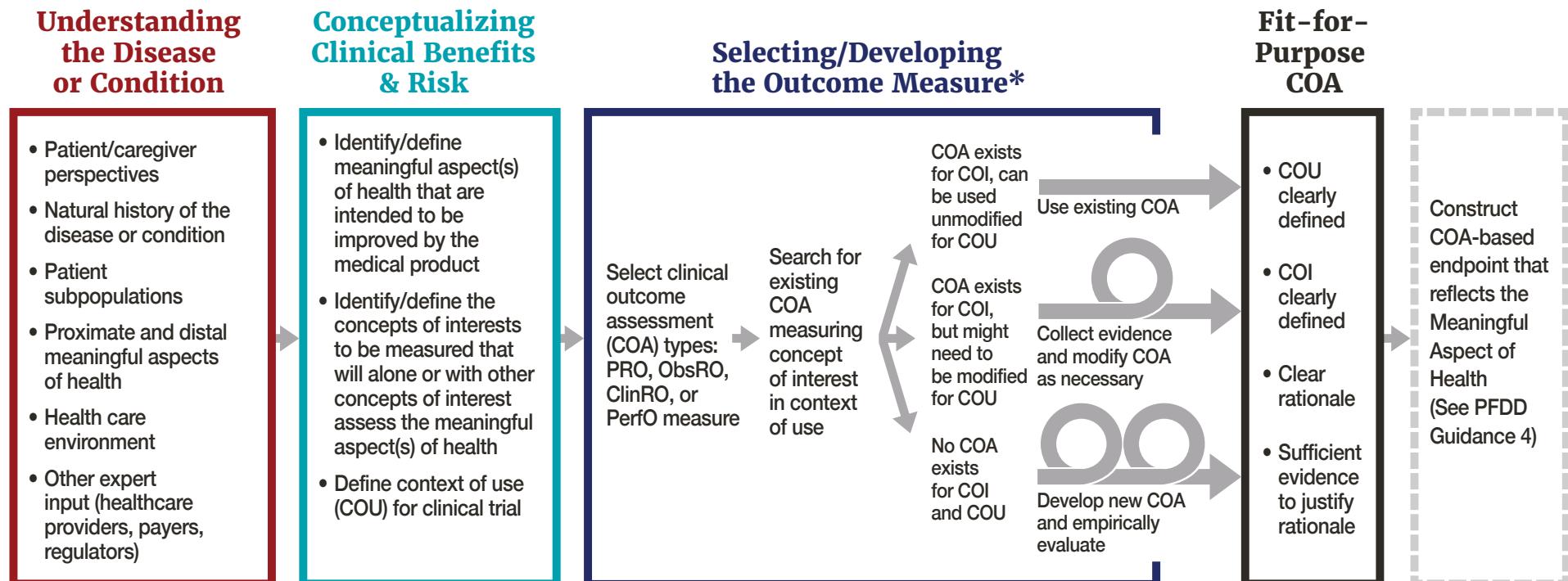
Why Is This Guidance Important?

 This guidance helps ensure that clinical outcome assessments (COAs) used during medical product development measure what matters to patients; are clear about what was measured; appropriately evaluate the effectiveness, tolerability, and safety of treatments; and avoid misleading claims.



Roadmap for Developing a Fit-for-Purpose, Patient-Focused COA

This is a general roadmap for developing fit-for-purpose, patient-focused COAs in clinical trials. Sponsors and COA developers are not required to use this approach, and it may not fit every development program. FDA recommends sponsors seek FDA's input as early as possible and throughout medical product development to ensure that COAs are fit-for-purpose for the intended context of use.



*This portion of the figure corresponds to a single COA. In some cases, multiple COAs might need to be used to capture a single MAH. In those cases, the path reflected here would be followed for each COA.

Eight Evidence-Based Considerations for Supporting a COA as Fit-for-Purpose

Evidence collected in support of the use of a COA should support the rationale that explains how and why the specific COA is expected or intended to work. This table lists eight considerations that should be included in the rationale and supporting evidence or justification section of submissions to FDA. It is important for FDA to understand each part of a sponsor's rationale and the evidence being offered in support of each part. The considerations listed below are likely but not necessarily needed in the rationale for a specific COA, COI, and COU. Each rationale can be tailored to the specific situation.

- A** The reason for the choice of type of COA (i.e., PRO, ObsRO, ClinRO, or PerfO) selected to assess the COI is clear.
- B** All important aspects of the COI are covered by the chosen COA.
- C** The COA is administered appropriately.
- D** Respondents understand the instructions and items/tasks of the measure as intended by the measure developer.
- E** The method of scoring responses to the COA is appropriate for assessing the COI.
- F** Scores from the COA are not overly influenced by processes/concepts that are not part of the COI.
- G** Scores from the COA are not overly influenced by measurement error.
- H** Scores from the COA correspond to the MAH related to the COI.

What Is the Difference Between a COA, a COA Score, and an Endpoint?

This guidance differentiates a COA from a COA score and an endpoint in the following ways:

COA

A COA is a measure that is intended to describe or reflect how a patient feels or functions and includes any instructions, administration materials, content, formatting, and scoring rules.

COA Score

A COA score refers to any numeric or rated values generated by a COA through a standardized process. A COA might produce **scores** on different scales and/or multiple scores that correspond to a different concept.

Endpoint

An endpoint is a precisely defined variable intended to reflect an outcome of interest that is statistically analyzed to address a particular research question (e.g., mean COA Score at 12 weeks post-randomization).

Medical Product Timeline: When to Apply the Guidance Recommendations?

During clinical development: Early phase trials conducted prior to the registration trial represent an opportune time to evaluate measurement properties of COAs, and sponsors are encouraged to include prospectively planned analyses to inform subsequent trials. If this is not a feasible option, FDA recommends conducting a standalone observational study prior to the initiation of a registration trial(s) to aid in the development of fit-for-purpose COAs.



Guidance Recap Podcast

Hear highlights straight from FDA staff

Speakers:

David Reasner, PhD,
Director of the Division of Clinical Outcome Assessment

Laura Lee Johnson, PhD,
Director for the Division of Biometrics III.



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