



# Scientific Methods Panel Monthly Call Meeting

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# Welcome, Roll Call, and Review of Meeting Objectives

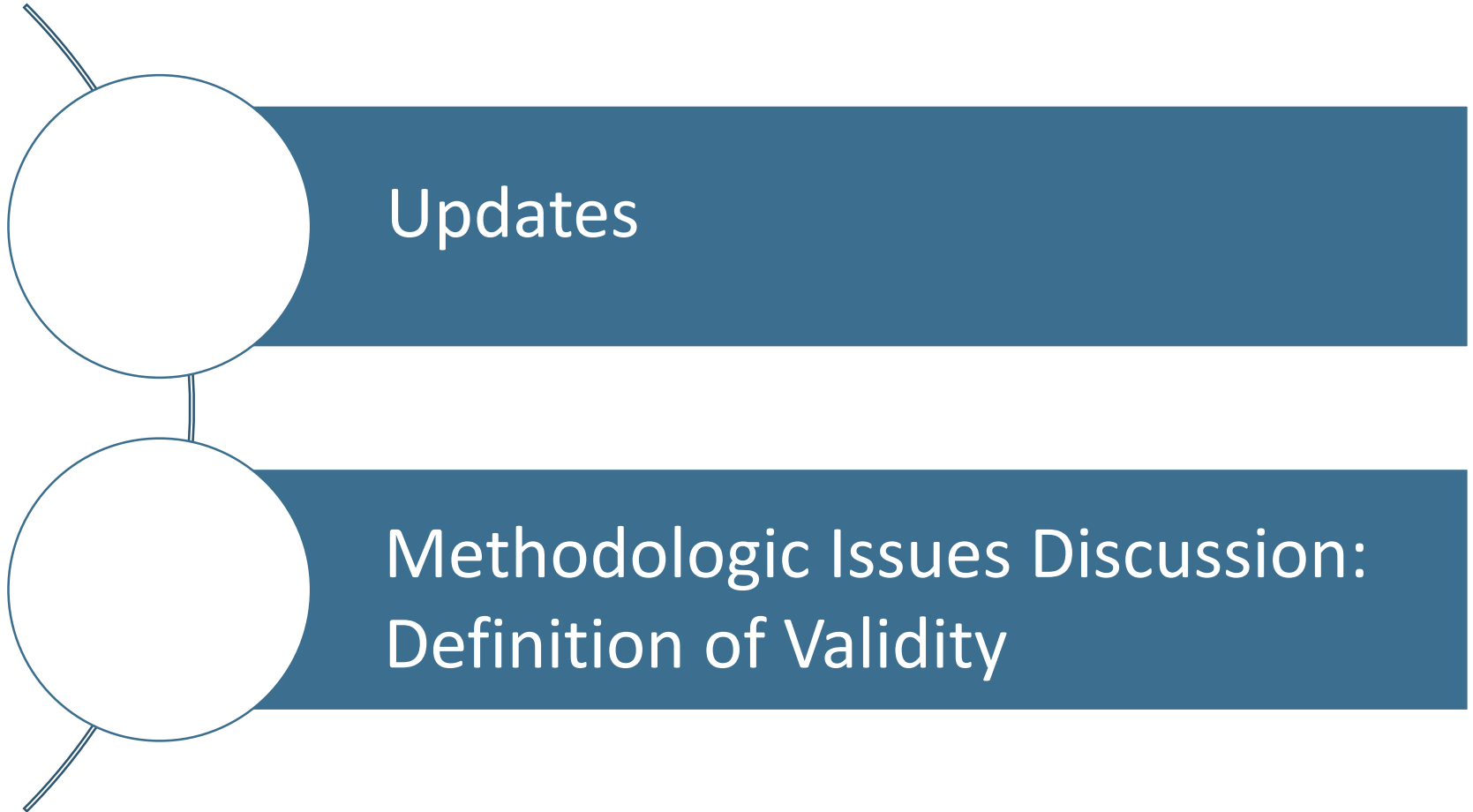
# Scientific Methods Panel Members

- David Cella, PhD, (Co-Chair)
- Karen Joynt Maddox, MD, MPH (Co-Chair)
- J. Matt Austin, PhD
- Bijan Borah, MSc, PhD
- John Bott, MBA, MSSW
- Lacy Fabian, PhD
- Marybeth Farquhar, PhD, MSN, RN
- Jeffrey Geppert, EdM, JD
- Paul Gerrard, BS, MD
- Laurent Glance, MD
- Stephen Horner, RN, BSN, MBA
- Sherrie Kaplan, PhD, MPH

# Scientific Methods Panel Members (continued)

- Joseph Kunisch, PhD, RN-BC, CPHQ
- Paul Kurlansky, MD
- Zhenqiu Lin, PhD
- Jack Needleman, PhD
- David Nerenz, PhD
- Eugene Nuccio, PhD
- Jennifer Perloff, PhD
- Sam Simon, PhD
- Michael Stoto, PhD
- Christie Teigland, PhD
- Ronald Walters, MD, MBA, MHA, MS
- Susan White, PhD, RHIA, CHDA

# Meeting Objectives



# Methods Panel Updates

# Updates

- 21 measures evaluated by the Methods Panel in Spring 2018 cycle
  - *13 measures have been forwarded to co-chairs*
- Progress on definition of reliability
  - *Substantial input from Methods Panel members*
  - *NQF staff have collated/summarized responses; will share with panel after today's meeting*
- In-person meeting on May 16
  - *Topics include consensus discussions on defining reliability and validity, lessons learned with process to date, potential changes to evaluation criteria, and next steps for the panel*
- Meeting recordings are available on the Scientific Methods Panel webpage

# Methodologic Issue: Defining Validity



# Conceptual Definition of Validity

- Conceptually, what do we mean (or should we mean) when we say a measure is valid?
  - Correctness/Accuracy
    - » Are you measuring what you think you are measuring?

# Current Assumptions about Validity

- There will always be some error in performance measurement
  - *Random error affects reliability; systematic error affects validity*
- Validity is not a static property of a measure (it can vary under conditions of implementation)
- Evidence of validity can be accumulated over time
- The concept of validity can be applied to the individual data elements used in a measure (e.g., diagnosis, admission date, survey item), as well as the computed performance measure score (e.g., rate, average)

# Current Assumptions about Validity

- An assessment of validity must include consideration of potential threats to validity
  - *Inappropriate exclusions*
  - *Lack of appropriate risk adjustment or risk stratification*
  - *Use of multiple data sources or methods that result in different scores and conclusions about quality*
  - *Systematic missing or “incorrect” data*
  - *Incorrect “capture” of the concept of quality being measured*
- Identified threats to validity should be adequately addressed so that results are not biased
- To be valid, a measure must be reliable; however, a measure may be reliable but lead to incorrect (invalid) conclusions

# Current Definitions

- **Validity**

- The correctness of measurement
  - » The extent to which one can draw correct conclusions about a particular attribute based on the results of a measure

- **Data Element Validity**

- Correctness of the data elements as compared to an authoritative source.

- **Measure Score Validity**

- Correctness of conclusions about quality that can be made based on the measure scores (i.e., a higher score on a quality measure reflects higher quality).

	Accuracy	Correct Reflection of Quality
Data element	<b>X</b>	
Performance measure score		<b>X</b>

# Questions to Consider

- Are there facets of validity that NQF is not capturing, but should?
- If we updated our definitions related to validity, what would we change? (e.g., additional facets? wording?)
- Do we need to update any of our assumptions about validity?

# Member and Public Comment

# Next Steps

- In-person meeting: May 16, 2018
- Monthly 1-hour calls
  - *Every 2nd Thursday of the month*
  - *Next call: June 14, 3pm ET*
- Contact information: [methodspanel@qualityforum.org](mailto:methodspanel@qualityforum.org)

# Adjourn