



THE NATIONAL VACCINE PROGRAM OFFICE

# What is a Composite Measure?

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U.S. DEPARTMENT  
OF HEALTH AND  
HUMAN SERVICES

# Outline

- How to Create a Measure
  - Quality Activities
  - Desirable Attributes of a Measure
  - Measure Development Process
- Adult Composite
  - What is it?
  - Purpose

# Major Quality Activities & Organizations<sup>1</sup>

<b>EVIDENCE DEVELOPMENT</b>	<b>GUIDELINE DEVELOPMENT</b>	<b>MEASURE DEVELOPMENT</b>	<b>MEASURE ENDORSEMENT</b>	<b>IMPLEMENTERS</b>
Develop the evidence base for what is effective treatment	Develop guidelines for practitioners based on evidence	Develop performance measures of adherence to guidelines	Provide assurance that performance measures are evidence-based, methodologically sound	Use measures to improve quality
Researchers	U.S. Preventive Services Task Force Advisory Committee on Immunization Practices Physician specialty organizations Voluntary health organizations e.g., American Cancer Society	Federal Agencies e.g., CMS, Health Resources and Services Administration NCQA	National Quality Forum	CMS NCQA The Joint Commission

## NATIONAL ADULT IMMUNIZATION PLAN

<sup>1</sup>Barton, M., Byron, S. (2016). NCQA and performance measurement. [PowerPoint Slides].

# Desirable Attributes of Measures<sup>1</sup>

## *Relevance*

- Meaningful to all key stakeholders
- Important to enhanced health
- Financial impact of improvement
- Controllable
- Potential for improvement

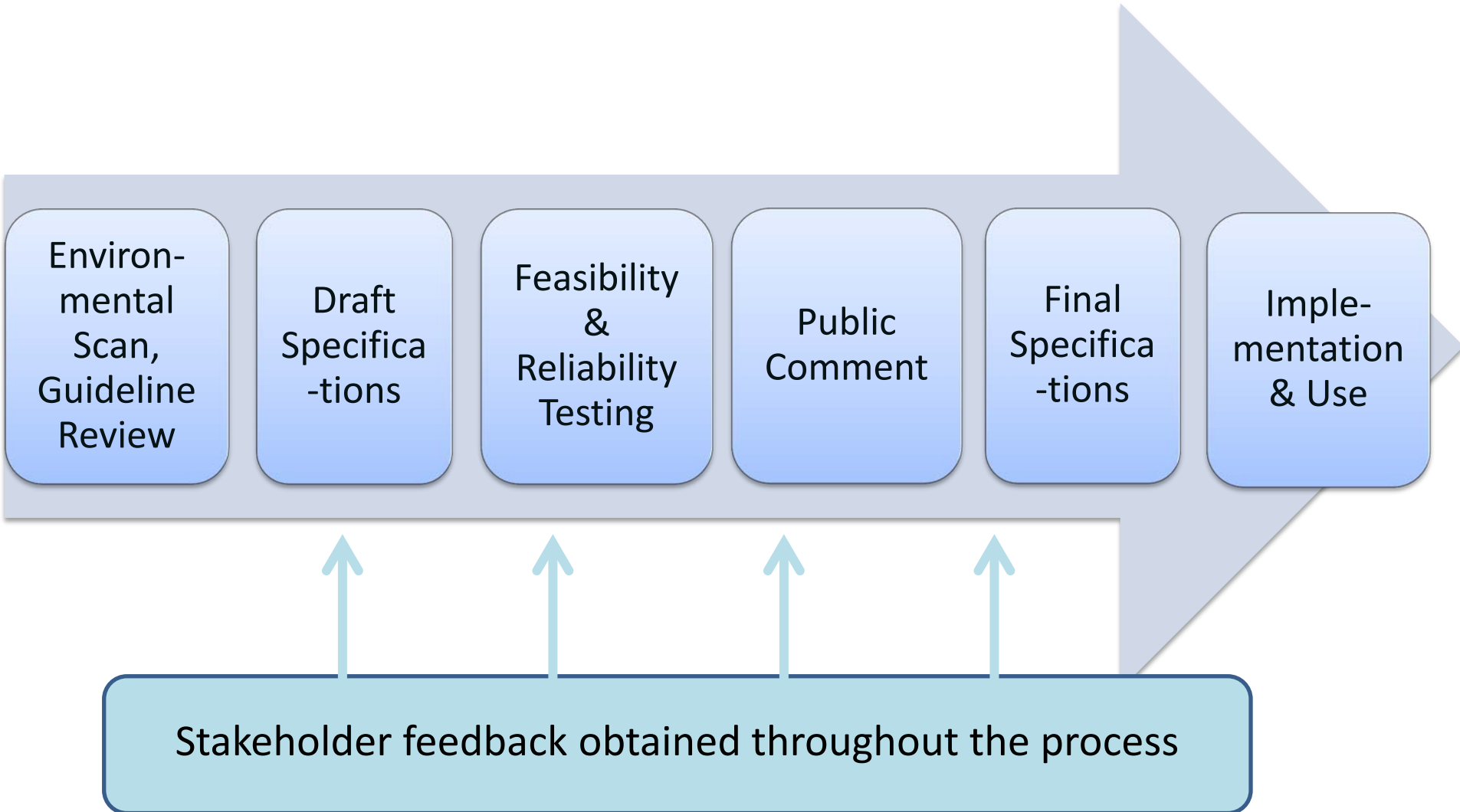
## *Scientific Soundness*

- Adherence to the evidence base
- Process or structural measures are linked to outcomes
- Validity, reliability

## *Feasibility*

- Precisely specified
- Needed data available and reasonable cost to collect
- Auditable

# Measures Development Process<sup>1</sup>



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# Adult Composite

- What is a composite?
  - “A combination of two or more individual measures in a single measure that results in a single score.”<sup>3</sup>

ADULT COMPOSITE		
Age	Vaccine	Optional
19-59	Tdap ever ; Tdap/TD in the last 10 years	Influenza
60-64	Tdap ever; Tdap/TD in the last 10 years; Zoster	Influenza
65+	Tdap ever; Tdap/TD in the last 10 years; Zoster; Pneumococcal polysaccharide (PPSV-23) or pneumococcal conjugate (PCV-13)	Influenza

## NATIONAL ADULT IMMUNIZATION PLAN

<sup>3</sup>Pace, K. (2012). Composite Measures [PowerPoint Slides]. Retrieved from: <https://www.healthit.gov/sites/default/files/pdf/2012-08-09-behavioral-health-clinical-quality-measures-technical-expert-panel-composite-measures.pdf>.

# Purpose and Benefits of the Adult Composite

- Through composite development, individual measures are being created
  - Tdap/TD, Zoster, Influenza, pneumococcal
- All individual measures can be “rolled up” into the composite for easier data collection and analysis
  - Or can be rolled out, if necessary
- Uses resources in a more efficient manner by creating individual measures within the composite
- Addresses three recommendations outlined in NQF report<sup>4</sup>
  - Tdap 19+, Zoster 60-64, Zoster 65+

<sup>4</sup>National Quality Forum (2014, Aug 15). Priority setting for healthcare performance measurement: Measure gaps for adult immunizations. Retrieved from: [http://www.qualityforum.org/Publications/2014/08/Priority\\_Setting\\_for\\_Healthcare\\_Performance\\_Measurement\\_Addressing\\_Performance\\_Measure\\_Gaps\\_for\\_Adult\\_Immunizations.aspx](http://www.qualityforum.org/Publications/2014/08/Priority_Setting_for_Healthcare_Performance_Measurement_Addressing_Performance_Measure_Gaps_for_Adult_Immunizations.aspx).

*“Composite measures can enhance measurement to extend beyond tracking performance on separate measures and can provide a potentially deeper view of the reliability of the care system”*

*Institute of Medicine, Performance Measurement: Accelerating Improvement, Washington, DC: National Academies Press; 2006*



# References

<sup>1</sup>Barton, M., Byron, S. (2016). NCQA and performance measurement. [PowerPoint Slides].

<sup>2</sup>Weiser, T. (2016). Improving the delivery of adult immunizations: Use of an adult composite immunization measure for Quality Improvement. [PowerPoint Slides].

<sup>3</sup>Pace, K. (2012). Composite Measures [PowerPoint Slides]. Retrieved from:  
<https://www.healthit.gov/sites/default/files/pdf/2012-08-09-behavioral-health-clinical-quality-measures-technical-expert-panel-composite-measures.pdf>.

<sup>4</sup>National Quality Forum (2014, Aug 15). Priority setting for healthcare performance measurement: Measure gaps for adult immunizations. Retrieved from:  
[http://www.qualityforum.org/Publications/2014/08/Priority\\_Setting\\_for\\_Healthcare\\_Performance\\_Measurement\\_Addressing\\_Performance\\_Measure\\_Gaps\\_for\\_Adult\\_Immunizations.aspx](http://www.qualityforum.org/Publications/2014/08/Priority_Setting_for_Healthcare_Performance_Measurement_Addressing_Performance_Measure_Gaps_for_Adult_Immunizations.aspx).