



NATIONAL  
QUALITY FORUM

# MAP Rural Health Technical Expert Panel: Addressing the Low Case-Volume Challenge

CSAC Informational Update

*April 23-24, 2019*

# Overview of Presentation

- Background on MAP Rural Health Work
- MAP Rural Health Technical Expert Panel (TEP)
  - ▣ *Members, Objectives, Activities*
- TEP Recommendations
- Next Steps
- Discussion

# Background: MAP Rural Health Workgroup

## Key Activities for 2017-2018

- Assemble MAP Rural Health Workgroup
- Identify a core set of the best available rural-relevant measures
- Identify gaps in measurement and provide recommendations on alignment and coordination of measurement efforts
- Make recommendations regarding measuring and improving access to care for the rural population

# Background: MAP Rural Health Workgroup

## Key Activities for 2018-2019

- Share with, and invite feedback from, the MAP Hospital, Clinician, and PAC/LTC Workgroups on the August 2018 report and recommendations
- Provide feedback on clinician-specific measures included on the 2018 Measures Under Consideration (MUC) list
- Convene a Technical Expert Panel (TEP) to provide feedback and recommendations to address the low case-volume (LCV) challenge faced by many rural providers

# TEP Members

- Mariel Finucane, PhD
  - ▣ *Senior Statistician, Mathematica Policy Research, Inc.*
- Jeffrey Geppert, EdM, JD
  - ▣ *Senior Research Leader, Battelle Memorial Institute*
- Shuangge (Steven) Ma, PhD
  - ▣ *Professor of Biostatistics, Yale University*
- Jessica Schumacher, PhD
  - ▣ *Director of Data Management and Analytics for the Surgical Collaborative of Wisconsin, University of Wisconsin - Madison, Surgical Collaborative of Wisconsin*
- Alan Zaslavsky, PhD
  - ▣ *Professor, Harvard Medical School*

# TEP Objectives

- Develop recommendations on approaches for calculating healthcare performance measures when case-volume is low
  - ▣ *Consider exemptions for reporting requirements in various CMS programs*
  - ▣ *Consider heterogeneity of residents and providers in rural areas*
  - ▣ *Recommendations should include approaches that are actionable for measure developers*
- Assist NQF in drafting a report that describes the TEP's discussion and recommendations

# TEP Activities

(September 2018 – March 2019)

- Participate in four 3-hour conference calls
- Consider previously recommended solutions to the LCV challenge
- Provide recommendations on how to address the LCV challenge faced by rural healthcare providers
- Assist in drafting a report summarizing their recommendations
- Assist in reviewing/responding to public comments, finalizing recommendations, and revising draft report

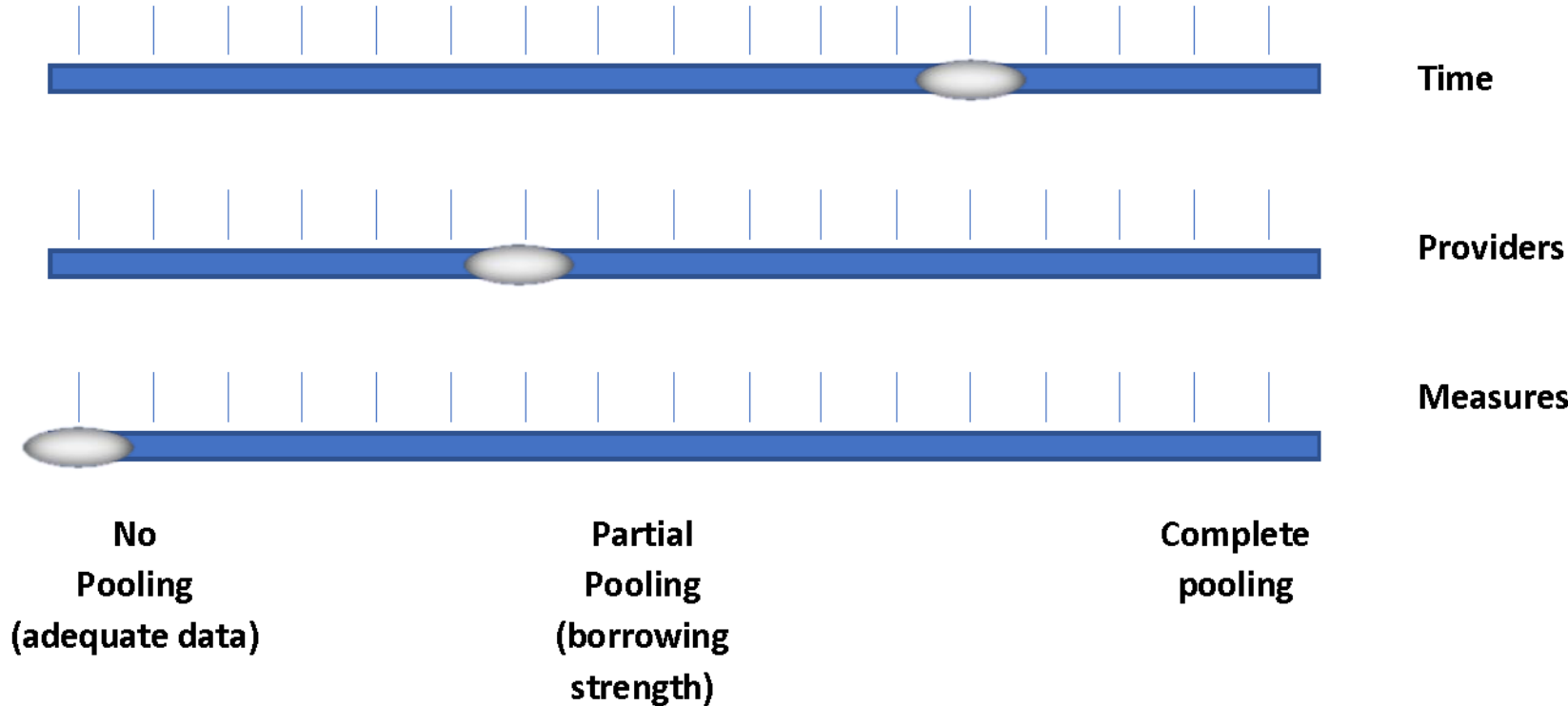
# TEP Recommendations on Addressing the Low Case-volume Issue

- Borrow strength to the extent possible
- Recognize the need for robust statistical expertise and computational power
- Report exceedance probabilities
- Recognize potential for downstream unintended consequences

NQF released the [final report](#) on March 29, as well as a [press release](#) on April 2



# Borrow Strength to the Extent Possible



# Recognize the Need for Robust Statistical Expertise and Computational Power

- Requires the professional expertise of PhD-level statisticians
  - ▣ *Develop the statistical models for borrowing strength*
  - ▣ *Write the programming code to implement measures that use this approach*
- Requires robust computational resources
  - ▣ *Computers with sufficient power to store, manage, and compute statistical models for very large datasets*

# Report Exceedance Probabilities

- Underlying recommendation: Reflect the uncertainty of measure results
  - ▣ *Alternative to confidence intervals*
  - ▣ *Example: **We can be 84 percent sure that hospital A is performing above the mean on this particular measure***
- Particularly useful if the goal of measurement is to help consumers (or others) maximize their chances of choosing a provider that would be most likely to provide a good outcome
- Still uncommon, so need education and field testing to ensure that healthcare consumers know how to interpret performance results

# Recognize Potential for Downstream Unintended Consequences

- Using a measure in an incentive program without realizing that it does not work well for rural providers
  - *Potential for misappropriation of incentive payments*
  - *Potential to encourage activities that are counter-productive in rural environments*
- Using measurement results to drive large-scale policy decisions that affect rural residents and providers, but without proper consideration of potential downstream effects
- Vigilance required, as is a willingness to change course if needed
  - *Formal feedback loops should be established to facilitate this vigilance*

# Some Additional Recommendations

## Research

- Simulation studies
- Challenge grants
- Explore which structural characteristics might be appropriate in defining shrinkage targets for performance measurement of rural providers
- Pull together experts from other disciplines who also face the LCV problem

## Policy

- Explore the implications of lack of service delivery
- Revisit/refine the core set of rural measures identified by the MAP Rural Health Workgroup

# Next Steps

- Expect continued funding for MAP Rural Health Workgroup
  - ▣ *Scope of work not yet defined*

# Discussion Questions

- One of the TEP members said early on, regarding LCV, “there is no magic bullet.”
  - ▣ *Does this surprise you?*
  - ▣ *What is your general reaction to the recommendation to “borrow strength”?*
- Have you ever heard of, seen, or used exceedance probabilities?
  - ▣ *What do you think of the recommendation?*
- What is your reaction to this TEP’s recommendation regarding the potential for unintended consequences?
  - ▣ *Can you think of others besides those verbalized by the TEP?*