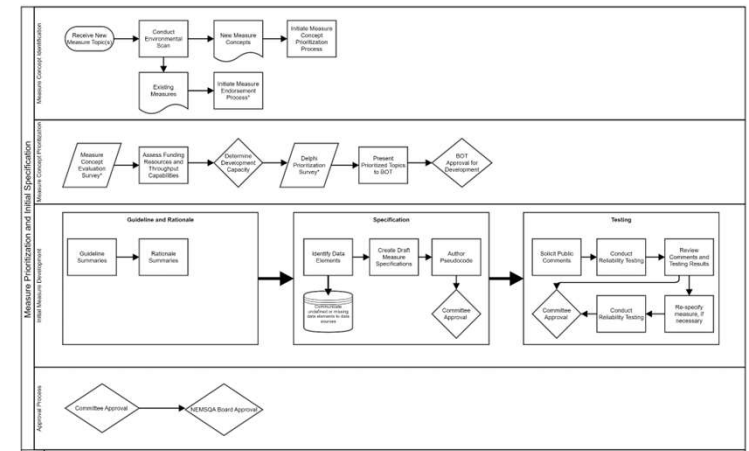


# **2023 NEW National EMS Quality Alliance Measure Set: Tools for EMS to Operationalize Evidence Based Care**

Jeffrey L Jarvis, MD, MS, EMT-P  
Chair, Measure Development Committee

# Outline

- What is NEMSQA?
- Measure Development Process
- What is Measure Endorsement?
- 2021-2023 Measure Endorsement Cycle
- Overview of the New Measures
- Resources
- What's next



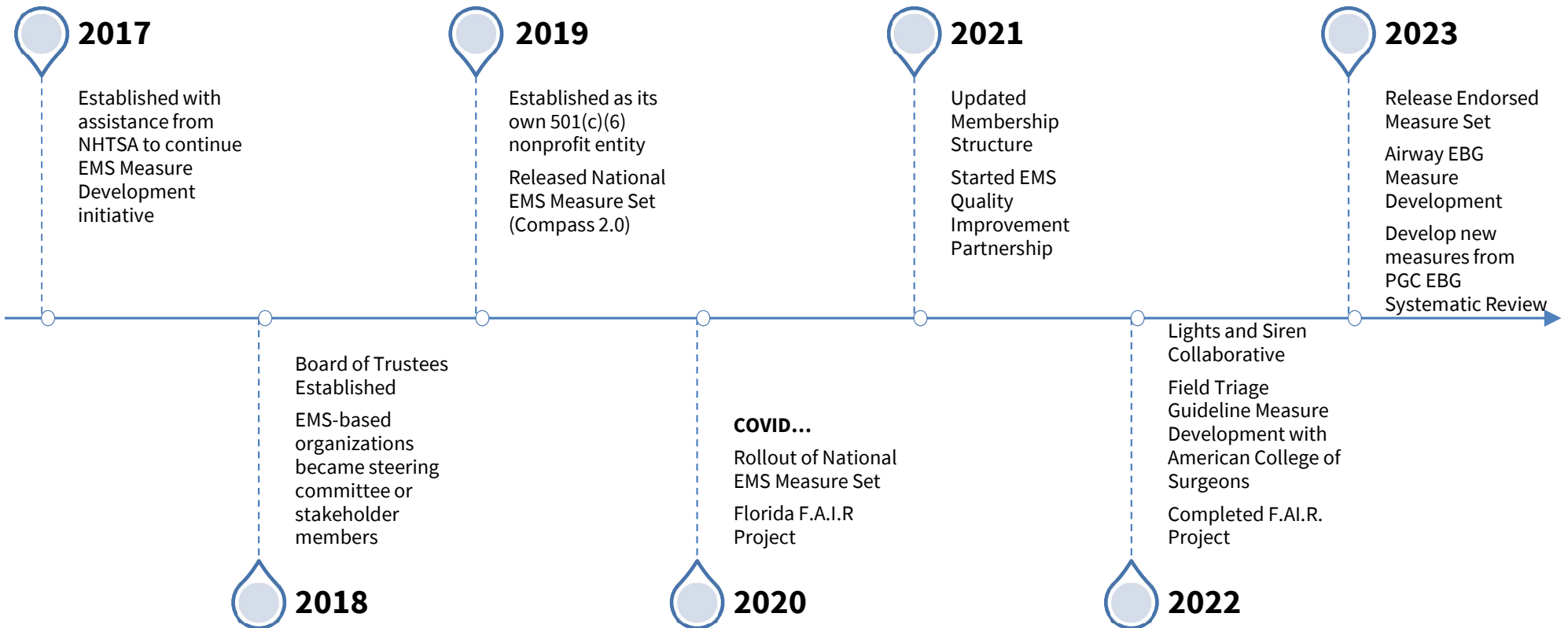
## What We Do

- Provide measurable ways for EMS systems to pursue improvement, improve patient outcomes and provider safety.
- Collaboratively develop and test evidence-based quality measures.

## Why It Matters

- Focus on measuring what matters and provide the tools to make that happen at a local and national level.
  - Operationalize treatment guidelines and best practices.
  - Providing the best care to patients and the best service to their communities.
  - Identify successes and areas for growth.
  - Provide a path that puts data to use in a meaningful way to help EMS providers better serve patients and communities .

## NEMSQA History



## Current NEMSQA Measures

Measure ID	Description
Hypoglycemia-01	Treatment Administered for Hypoglycemia
Respiratory-01 <small>previously Pediatrics-01</small>	Respiratory Assessment
Asthma-01 <small>previously Pediatrics-02</small>	Administration of Beta Agonist for Asthma
Pediatrics-03b	Documentation of Estimated Weight in Kilograms
Seizure-02	Patients with Status Epilepticus Receiving Intervention
Stroke-01	Suspected Stroke Receiving Prehospital Stroke Assessment
Trauma-01	Injured Patients Assessed for Pain
Trauma-03	Effectiveness of Pain Management for Injured Patients
Trauma-04	Trauma Patients Transported to a Trauma Center
Safety-01	No Lights or Sirens During Response to Scene
Safety-02	No Lights or Sirens During Transport

## Measure Development Work



- Florida DOH F.A.I.R. Measure Development  
– 56 Measure including stratifications



- Guidelines for Field Triage of Injured Patients  
Update Measure Development



- NASEMSO Prehospital Airway Management  
EBG Measure Development (in progress)

## NEMSQA's Role with Florida DOH F.A.I.R.

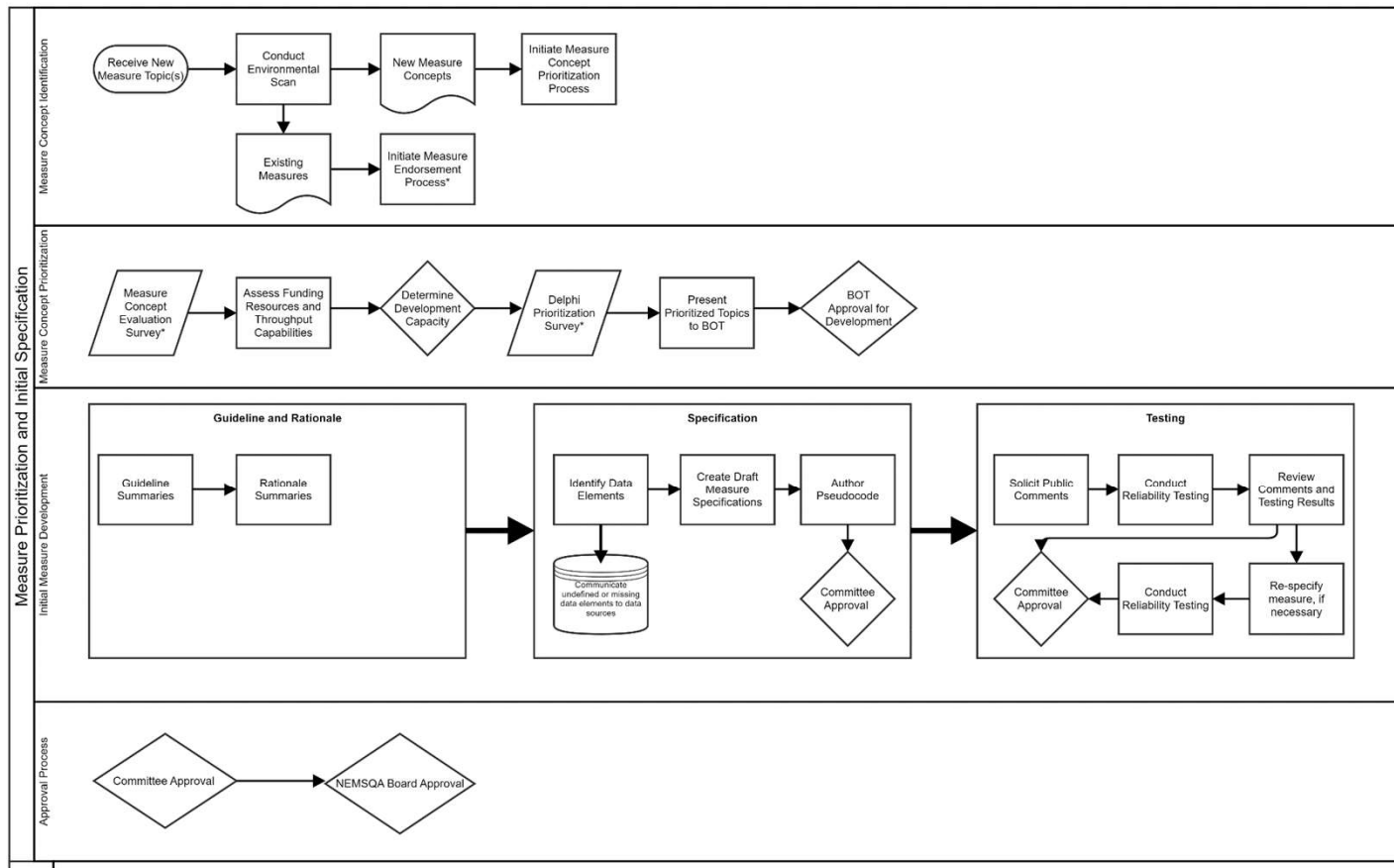
- Serve as Performance Measurement Develop Measures for Rural EMS
  - Call for Measures
  - Initial Classification, Harmonization, Prioritization
  - Guidelines and Evidence Review
  - Develop Technical Specifications
  - Testing Measures



## NEMSQA Developed FAIR Measures

Measure ID	Title	Stratifications
Airway-01	Successful First Advanced Airway Placement without Hypotension or Hypoxia	6- procedure type & age
Airway-05	Adequate Oxygen Saturation Achieved Before Intubation Procedure	2- age
Airway-07	Airway-07: ETCO2 Verification of Advanced Airway Placement	6- procedure type & age
Airway-10	Documentation of SPO2 Saturation with Advanced Airway	2- age
Airway-18	Waveform Capnography Airway Device Monitoring	2- age
Airway-19	Airway Composite (Defect-Free Care)	2- age
Cardiac-07-1	Time to First ECG – Initial 911 Call to ECG	
Cardiac-07-2	Time to First ECG – On Scene to ECG	
Cardiac-07-3	Time to First ECG – At Patient to ECG	
Cardiac-12	Aspirin Administration for STEMI	
Cardiac-13	STEMI Under Call Rate	
Hyperthermia-01	Assessment of Mental Status for Patients with Hyperthermia	2- age
Respiratory-01	Oxygen Administration for Hypoxia	2- age
Safety-04	Pediatric Restraint Device Used During Transport	
Safety-05	Use of Backboards	4- injury type & age
Safety-10	Use of PPE	
Sepsis-01	Sepsis Alert	2- age
Sepsis-07	IV Antibiotics for Sepsis Patients	2- age
Sepsis-08	ETCO2 Measurement for Sepsis Patients	2- age
Stroke-03	Prehospital Suspected Stroke with Emergency Department Stroke Diagnosis	
Stroke-06	Suspected Stroke Patients Transported to a Stroke Center	
Structure-01	Pediatric Emergency Care Coordination	
Syncope-01	ECG Performed for Syncope Patients - Pediatric	2- age
TBI-01	Clinical Assessments for Patients with Traumatic Brain Injury	2- age
Throughput-01	Patient Offload Time	
Trauma-08	Documentation of GCS, SBP, and Respiratory Rate	2- age
Trauma-14	Trauma Call Rate - Pediatric	2- age
Trauma-17	Non-Opioid Approaches to Pain Management	2- age
TTR-01-1	Vital Signs Documented	2- age

## Measure Development Process



## Measure Endorsement

- Evaluate measures developed/published by other organizations
- Consider for 'endorsement' of measure as opposed to internally developed measures.
- Avoids 're-inventing wheel'

# Criteria for Measure Evaluation

## Clinical Value/Impact

- Does the measure evaluate an outcome or process that is clinically important to EMS patients.
  - Addresses a specific national health goal/priority for EMS
  - Affects large numbers of patients and/or has a very substantial impact for smaller populations
  - Focuses on a leading cause of morbidity or mortality
  - High resource use (current and/or future)
  - Severity of illness
  - Patient/Societal consequences

## Evidence

- Internal assessment of evidence
  - Guideline recommendation has strong evidence (Level I or Level III (Harm) or equivalent)
  - Guideline recommendation has moderate evidence (Level 2a or equivalent)
  - Guideline recommendation has low evidence (Level 2b or equivalent)
  - Guideline recommendation has very low evidence or is based on consensus opinion (Level III or equivalent)

## Criteria for Measure Evaluation

### Feasibility

- Evaluates if the measure is feasible using standard fields available in the National Emergency Medical Services Information System (NEMSIS) or another national, state or local data source.

### Face Validity:

- Determines whether a measure has consensus-based **face validity**.
  - Reviewers agree the measure will provide an accurate reflection of quality and will be able to be used to distinguish good and poor quality.

## Criteria for Measure Evaluation

### Technical Work and Implementation

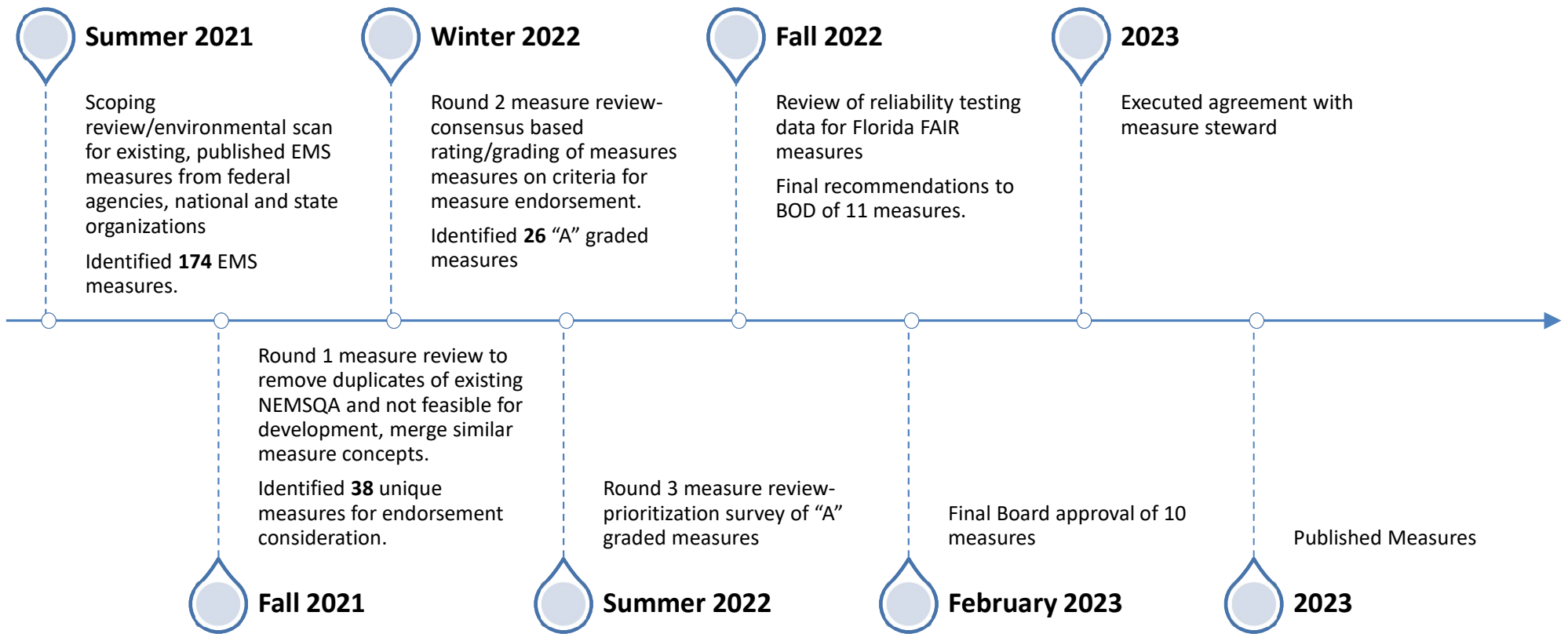
- Evaluates the level of effort required to create pseudocode and implement the measure into clinical practice.

### Ease of Endorsement\*

- Likelihood of agreement with measure steward within 3 months

\*unique to this endorsement cycle

## 2021-2023 NEMSQA Measure Endorsement Cycle



## Grading Criteria

<b>Grade</b>	<b>Clinical Value/Impact</b>	<b>Ease of Endorsement</b>	<b>Technical Work</b>
A	High	High	Pseudocode & Testing Completed or minimal work needed
B	High	Moderate/Low	No pseudocode or moderate work needed
C	Moderate/Low	Moderate/Low	No pseudocode and complicated work



## New NEMSQA Measures

<b>Airway-01</b>	Successful First Advanced Airway Placement without Hypotension or Hypoxia
<b>Airway-05</b>	Adequate Oxygen Saturation Achieved Before Intubation Procedure
<b>Airway-18</b>	Waveform Capnography Airway Device Monitoring
<b>Respiratory-02</b>	Oxygen Administration for Hypoxia
<b>Safety-04</b>	Pediatric Restraint Device Used During Transport
<b>Syncope-01</b>	ECG Performed for Syncope Patients
<b>TBI-01</b>	TBI: Clinical Assessments for Patients with Traumatic Brain Injury (oxygen level, ETCO <sub>2</sub> , and SBP)
<b>Trauma-08</b>	Documentation of GCS, SBP, and Respiratory
<b>Trauma-14</b>	Trauma Call Rate
<b>TTR-01</b>	Vital Signs Documented (non-transported)

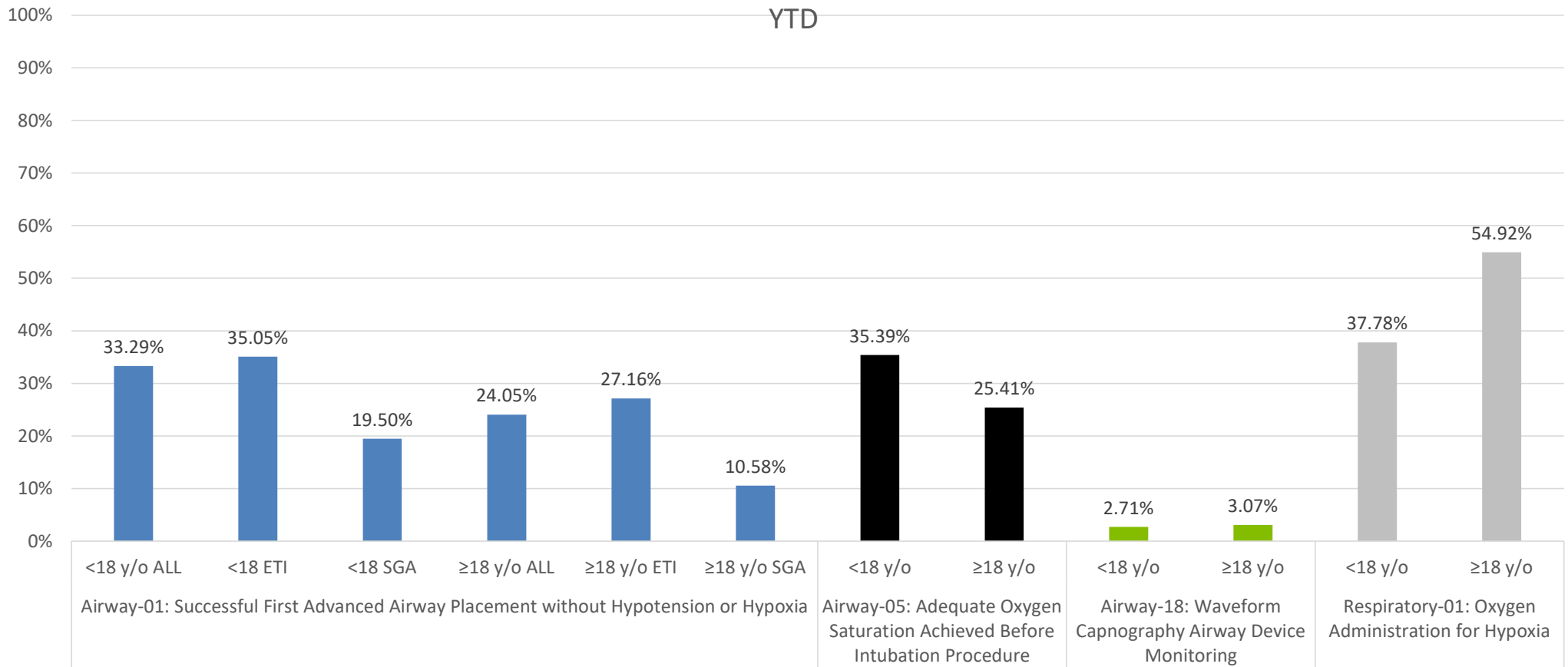
## Criteria for All Measures

- EMS responses originating from a 911 request for patients
- Measures stratified by age
  - Less than or equal to 18 years of age
  - Greater than 18 years of age

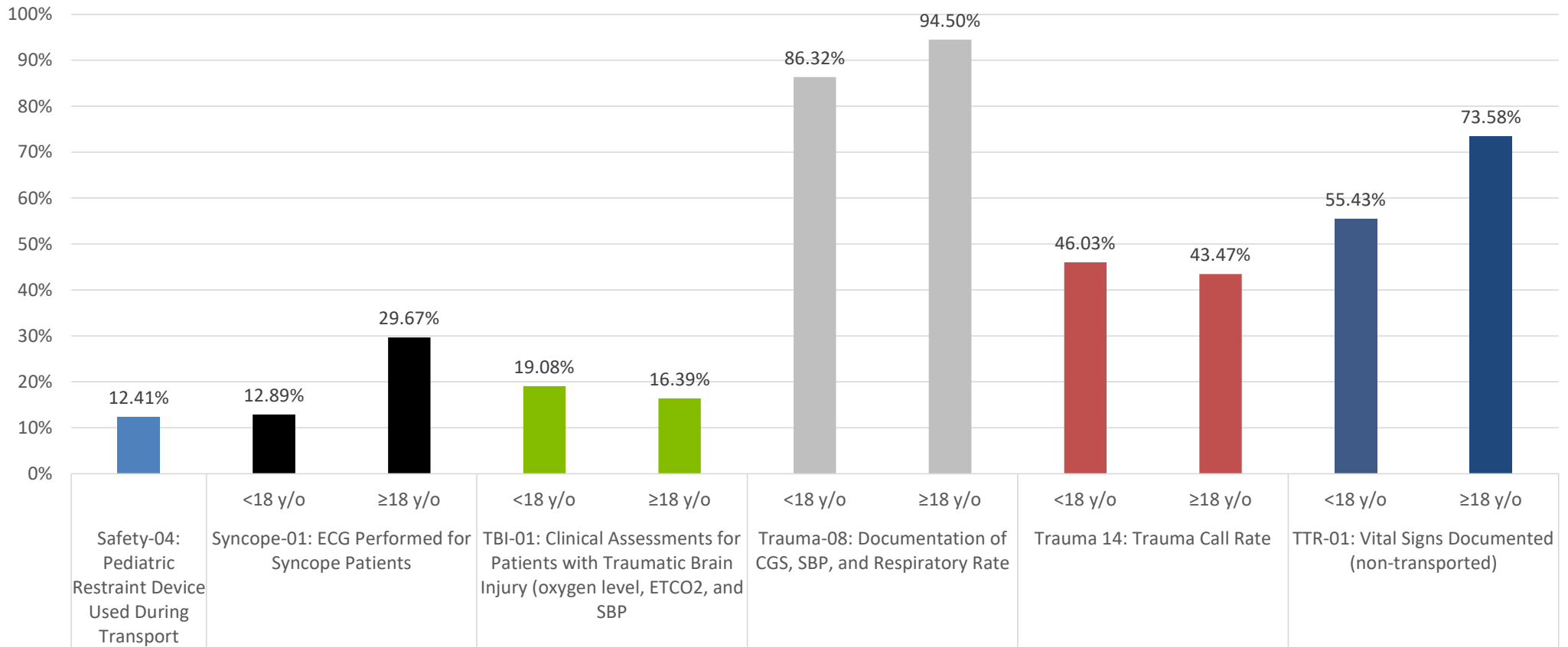
## What's Next in Measure Development

- Prioritize evidence-based guidelines for measure development
  - Collaboration with Pre-hospital Guidelines Consortium
- Future measure endorsement cycles will include call for submission of measures for endorsement.

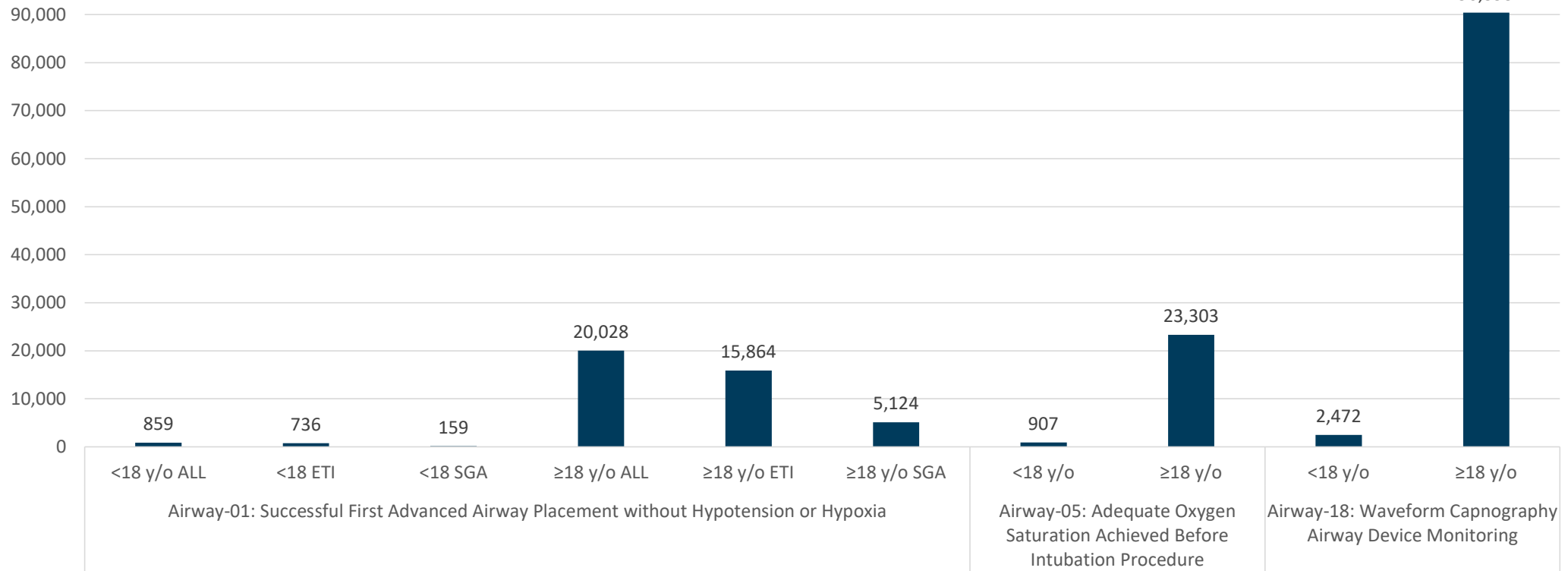
## biopsatial National Benchmark YTD



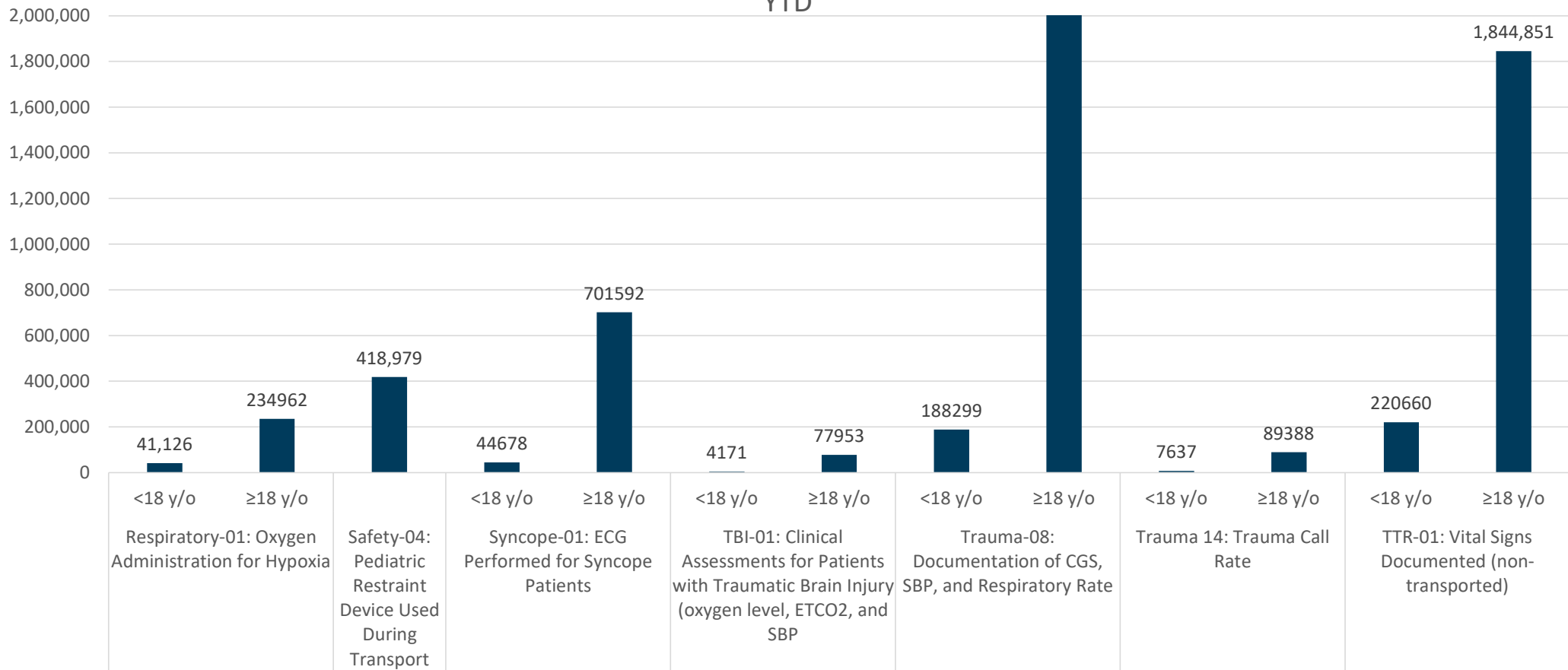
## biospacial National Benchmark YTD



## Denominator Total YTD



## Denominator Total YTD



# Measure Technical Resources



## NEMSQA Measure Technical Documents

NEW 2023	Measure ID	Description	Type	National Quality Strategy Domain
*	Airway-01	<a href="#">NEMSQA_Airway-01_2023</a>	Outcome	Clinical Process- Effectiveness
*	Airway-05	<a href="#">NEMSQA_Airway-05_2023</a>	Process	Patient Safety
*	Airway-18	<a href="#">NEMSQA_Airway-18_2023</a>	Process	Clinical Process – Effectiveness
	Asthma-01	<a href="#">NEMSQA_Asthma-01_Updated_2021</a>	Process	Clinical Process – Effectiveness
	Hypoglycemia-01	<a href="#">NEMSQA_Hypoglycemia-01_Updated_2021</a>	Process	Clinical Process – Effectiveness
	Respiratory-01	<a href="#">NEMSQA_Respiratory-01_Updated_2021</a>	Process	Clinical Process – Effectiveness
*	Respiratory-02	<a href="#">NEMSQA_Respiratory-02_2023</a>	Process	Clinical Process- Effectiveness

[www.nemsqa.org/nemsqa-measure-technical-documents](http://www.nemsqa.org/nemsqa-measure-technical-documents)



## Get Involved

- Become a member: <https://nemsqa.org/nemsqa-membership-application>
  - Organization
  - EMS Agency
  - Individual
  - Corporate Partner



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- Contact us: Sheree Murphy, Executive Director: [smurphy@nemsqa.org](mailto:smurphy@nemsqa.org)