Measure ID	Measure Title	F.A.I.R. Steering Committee Comments	NEMSQA Prioritization	NEMSQA Comments
	Successful First Endotracheal Intubation without Hypotension or Hypoxia	This measure is important to improving patient care. This measure aligns with current clinical standards of EMS care. The correct providers and patient population that could be included in the measure may be adult vs. peds. The clinical process and outcome needs improvement in EMS. This measure would be well received by EMS. The measure will meet the needs of the FAIR project. Actions for this measure would be adoption of existing measure. Other comments include; recommendation to delete 'without hypotension or hypoxia' from draft measure name and description fields.	Proceed with Development	Combine with PEDS-08, with denominator stratified by age. Include in airway bundle and use in composite measure.
Airway-05	Adequate Oxygen Saturation Achieved During Intubation Procedure	Recommendation to use but request more research and need measure development	Proceed with Development	Include in airway bundle and use in composite measure
Airway-07	ETCO2 Verification of Endotracheal Intubation Placement	-Very important to measureThis may be to be combined with Airway-18 waveform capnography -May be other measures that work better in this set -Do not need 2 or 3 different measures for the same thing	Proceed with Development	Include in airway bundle and use in composite measure
Airway-10	Documentation of Continuous SP02 Saturation with Advanced Airway	-Related to others with revisions -Should have both continuous SPO2 and ETCO2 -Good measure with revisions -Important measure	Proceed with development	Measure is reasonably feasible. May not be able to capture continuous SPO2, but a documented SPO2. Include in airway bundle and use in composite measure
, -	Waveform Capnography Airway Device Monitoring	-This measure is very important and should be a priority for development -Any advanced airway need waveform capnography -Overlap with Airway-07	Proceed with Development	Include in airway bundle and use in composite measure
Cardiac-04	Direct Transport to a PCI Capable Facility	This measure is important to improving patient care. This measure aligns with current clinical standards of care in EMS. The correct providers and patient populations are included in this measure. This clinical process or outcome needs improvement in the EMS community. Actions for this measure concept would include adoption of existing measure. Additional measure in this topic area that should be considered may include; percentile, median and average times.	Proceed with Development	

Cardiac-07	Time (in minutes) from on Scene to first ECG	This measure is important to improving patient care. This measure aligns with current clinical standards in EMS. The correct providers and patient populations are included in this measure. This clinical process or outcome needs improvement in EMS. Data required for this measure is routinely documented and easily collected. This measures will be well received by EMS. This measure should be considered for further development or inclusive in a bundle or composite measure but action items for this topic area would be to harmonize with Cardiac 04. No additional measures in this topic area are noted.	Proceed with Development	
Cardiac-13	STEMI Under call Rate	-Data may be problematic to obtain as you would have to rely on hospital dataQuestion about how timely this would bePatients may develop STEMI after admission to hospital skewing the data -May not be a quality issue, certainly goal would be less than 100% -Felt this was an important concept as this represents missed STEMI patients.	Proceed with Development	
Respiratory- 01	Administration for	This measure is important to improving patient care. This measure aligns with current clinical standards of EMS care. The correct providers and patient populations are included in this measure. The clinical process or outcome needs improvement by EMS. The existing measure will meet needs of FAIR project. The measure would be well received by EMS. Actions for this measure include adoption of existing measure. Other comments include recommendations to change word 'distress' to 'complaint'.	Proceed with Development	
Safety-04	Pediatric Restraint	-Important safety measure -Data may be problematic -Data is being collected in NEMSIS -Often time parents refused to use restraint devices	Proceed with Development	New NHTSA Crash research on pediatric restraint.
Safety-05	Use of Backboards	-Should not be using at all -Maybe expanded to include patients with penetrating trauma -Could see potential improvement as result of this measure	Proceed with Development	
Safety-10	Use of PPE	-This is already measured in NEMSISCertainly COVID has had an impact on this behaviorMay be a valid measure going forward as EMS historically has poor compliance until COVID -Good measure something we need to get use to -Appropriate difficult to determine -Reinforces PPF behavior with some modifications	Proceed with Development	Have initial feasibility concerns, but will likely be able to capture.
SEPS-01	Timely Sepsis Alert	This measure is important to improving patient care. This measure aligns with current clinical standards in EMS. The correct providers and patient populations are included in this measure. This clinical process or outcomes needs improvement in EMS. Data required for this measure is not routinely documented or easily collected (there is problems in documentation currently). This measure will be well received by EMS. This measure should be considered for further development. This measure should be considered for inclusion in a bundle or composite measure. No additional measures in this topic area were discussion. Other comments included: Percent of sepsis patients that had a sepsis alert called and possibly change wording in description to pre-notification.	Proceed with Development	

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Stroke-03	Accuracy of	, , , , , , , , , , , , , , , , , , , ,	Proceed with	
		clinical standards in EMS. The correct providers and patient populations are included in	Development	
	Diagnosis	this measure. It is unknown whether the process or outcome needs improvement in EMS.		
		Data required for this measure is not routinely documented or easily collected - need		
		outcome data. This measure will be well received by EMS. This measure should be		
		considered for further development. This measure should be considered for inclusions in a		
		bundle or composite measure. No additional measure in this topic area were listed. No		
Stroke-06	EMS Use of	other comments This measure is important to improving patient care. This patient aligns with current clinical	Proceed with	
Olloke 00	Regional	standards of care in EMS. The correct providers and patient populations are included in	Development	
	Destination	this measure. Unknown whether process or outcome needs improvement. Data required	Development	
		for this measure is routinely documented and easily collected - this would be appropriate		
Structure-	Pediatric	-National standard to have this in place	Proceed with	
01	Emergency Care	-Terminology champion vs coordinator	Development	
01	Coordination	-Has been shown to improve behavior	Development	
	Coordination	-Discussion that this may be handled at the regulatory level for agencies		
		-Currently measured by annual survey in Florida		
		-ouriently measured by annual survey in Florida		
Structure-	Bed Delays	-Important to measure	Proceed with	
04	Bod Bolayo	-Good measure of system efficiency	Development	
l .		-Hospital drop off waiting has a clinical impact in delaying definitive care.	Вотоюринопк	
		-This may be a system efficiency measures.		
		-State healthcare resource measure.		
		-Data already exists to measures.		
		-Some discussion this is a local issue and should be discussed with local hospitals on a		
		Icase by case basis		
Syncope-	EKG for Syncope	-Discussion that this was an important measure concept.	Proceed with	
01	Patients	-Should include a time specification of 10 minutes.	Development	
		-The creation of a measure concept bundle for EKG		
TBI-01		-Maybe rolled into a composite measure O2, BP, hypoxia. Have 3 indicators rolled into	Proceed with	
	with Traumatic	one measure as composite.	Development	
	Brain Injury	-EMS must avoid hypoxia in TBI		
		-Should account for patients that are already hypoxic, should be for those who become		
		hypoxic after EMS		
		-Do not want to exclude those already hypoxic		
		-This is an impactful measure EMS tends to get this wrong a lot		

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Trauma-08	Documentation of Airway, Breathing, Circulation and, Disability	-Possible bundle with GCS -Changes should be documented and repeated assesses after specified period of -These are key elements of assessment for making a transport decision -Need to careful what we accept as meeting this measure, but does need to be broad -If call is over 10 minutes 2 sets of vitals should be recorded -Add time element -Changes are very important and address things that have changed that may result in indicated -Important but does need significant revisions	Proceed with Development	
Trauma-14	Trauma Under call Rate for Pediatric Patients	-Concern that this may difficult to measure due to hospital data access -Florida will soon as access to hospital data that could facilitate this measure -Should be applied to overall rate -Should not measure overcall rate as this could have cause negative behavior changeThis approach could be used for STEMI, Stroke and others -Florida may need to update trauma triage criteria -This should be for both adults and peds	Proceed with Development	Trauma under call rate for all patients
Trauma-17	Alternative Approaches to Pain Management	-Adopt the NEMSQA MeasureTrauma-03 -Adopt the NEMSQA Measure Trauma-03 where added opioid was not used -Concern we may discourage opioid use when is indicated -POTIENTIAL NEW MEASURE -No opioid uses measure - NEMSEOA is working on evidence based protocol currently	Proceed with Development	Combine Trauma 15 & Trauma 16 to create this measure
TTR-01	Release	This measure is important to improving patient care. This measure can align with current clinical standards of care in EMS. The correct providers and patient populations are included in the measure - it is generalized and can be broken down or stratified further with ages. This clinical process or outcome needs improvement in EMS. Data required for this measure is not always documented or easily collected. This measure will not be received well by EMS. This measure could be considered for further development if it is shifted to what is more applicable - focus on the release issues and look at 72 hours 911 transports after initial release	Proceed with Development	Will depend on patient identifiers in data set Systems will be able to implement. Need to determine Florida's ability to identify in database.
Cardiac-12	Aspirin Administration for STEMI	-Contraindications are an issueSuggestion was made that should also have a time frame includedAllergy or administered prior to arrival may skew data		Aspirin use isn't time sensitive as long as given in first 24 hours. There is also concern about diagnosis bias.
Care Coordinatio n-01	Referral to Fall	-Concern over extra work for crews to document the follow-upThis data is not in NEMSIS, this could be included in the future revisions -This referral is achieved long after the call is completed makes it difficult to gather data -Does this apply to lift assists or acute falls that need to be transported -Do we have the data to capture this measureImpactful high fall volume just not sure how to measure	Low Priority	

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ia-01	Assessment of Body Temperature in Hyperthermic Patients	-Was mental status assessed 3 separate process measures -No accurate thermometer is available, could be terrible misleading -Real measure should be based on mental status rather than a number, erroneous reading could delay treatment -Very small set of patients -Most accurate measure is rectal, reluctant from providers to assess -NEMSQA comment: They have different discussion more of a general assessment	Low Priority	
SEPS-07	IV Antibiotics for Sepsis Patients	-Discussion that this modality for sepsis patients is currently evolving with a small number of EMS agencies offering this treatment. -Discussion also on resistance from some hospitals for pediatric patients. -Caution was noted use in patients that are truly septic -Antibiotic administration was very time sensitive -Sepsis numbers are not improving under current modalities -This concept may not specific enough -Maybe consider antibiotics for open fractures as an alternative -Alternative may be sepsis patients received fluids with BP <x< td=""><td>Low Priority</td><td>Primary focus should be on getting patient to hospital.</td></x<>	Low Priority	Primary focus should be on getting patient to hospital.
	ECTO2 Measurement for Sepsis Patients	-Do not see priority in this measure -May be an indicator of shock from lactic acid -May be an important measure	Low Priority	
CareCoord- 02	Communication of Color Treatment Zone	-Currently much national debate on the efficacy of these types of systems -Consensus that some system to establish weights of pediatric patients to aid in dosing calculations -Must establish some standardized system to relay pediatric weights to hospital emergency departmentsConsider NEMSQA Peds-03 -Frequent medication errors in pediatric treatment -Data may be problematic as written	Adopt NEMSQA Pediatrics-03	Recommend adoption of NEMSQA Pediatrics-03, which includes documentation of weight in KG or documentation of Color Zone.
PEDS-06	Benzodiazepine Administration to Pediatric Seizure Patients	This measure is important to improving patient care. This measure aligns with current clinical standards of care in EMS. The correct providers and patient populations are included in this measure. This clinical process or outcomes needs improvement in EMS. This measure will meet needs of FAIR project. The existing measure would no be well received with EMS - maybe due to peds specific. Actions for this would be to harmonize with another measure. Other comments included would be changing to transported.	Adopt NEMSQA Seizure-02	The denominator for NEMSQA Seizure- 02 includes all patients, but can be stratified to capture only pediatric patients
Safety-09	Correct weight- based medication dosage	-Data may be problematic -May be more important to document patient weight -Correct is difficult to determine -More important to capture patient weight	Adopt NEMSQA Pediatrics-03	Concept is not feasible. Recommend adoption of NEMSQA Pediatrics-03, which includes documentation of weight in KG or documentation of Color Zone.

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Cardiac-11	Time on Scene for STEMI	-Harmonize with AHA -Debate whether should be 5 or 10 minutes concerns that 5 minute may not a reasonable expectationThis measure exists within other systemsTrying to set higher bar may not represent what is reasonable in the state -Should follow national standard	Adopt AHA Mission Lifeline Measure: First Medical Contact to Destination within 30 Minutes for STEMI	The intent of this concept is best served by the AHA Mission Lifeline Measure
Stroke-04	Stroke Severity Score Performed and Reported	This measure is important to improving patient care. This measure aligns with current clinical standards of care in EMS. The correct providers and patient populations are not included in this measure- stratify one for transports vs. responses/exclusions. The clinical process or outcome needs improvement in EMS. The existing measure will not meet the needs of FAIR project. The existing measure would be well received in EMS. Actions for this measure concept would be harmonization. No additional measures in this topic area are listed. Other comments included - need clarification on which field is required for assessment (exclude unresponsive patients from denominator).	Adopt NEMSQA Stroke-01	
Stroke-05	Advanced Notification of Stroke with Triage Findings	This measure is important to improving patient care. This measure aligns with current clinical standards of care in EMS. The correct providers and patient populations included in this measure. This clinical process or outcome needs improvement in EMS. Unknown about routine or easy data collection (zoll/intermedix). This measure will be well received by EMS. This measure should be considered for further development. This measure should be considered for inclusion in a bundle or composite measure - possibly bundle with Alert -01. No additional measures in this topic area are listed. Other comments include changing the word triage to assessment.	Adopt NEMSQA Stroke-01	
Airway-09	Hypoxic episodes Occurring During Advanced Airway Placement	-Data may be problematic -May be related to Airway-05 from MSC -GAMUT-01 component -Are they already hypoxic when you begin treatment -Needs work to make measurable	Do not proceed	More of a research question than a measure. Can derive this information from the Airway-01 measure.
Airway-11	Intubation Attempts Ratio	-MSC recommended that this move forward as Airway-06 -Florida document procedures or events different than NEMSIS FL documents each attempt differently and timestamps all attempts are defaulted to one -Important to documents success rates for training needs evaluation -May compare to ratio to age or others -First pass success may be more important that attempts	Do not proceed	Less meaningful than Airway-01. Airway-01 is better supported by literature.

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Documenta	Chief Complaint	-More of a data quality measure	Do not proceed	Measure likely to be topped out.
	Properly Obtained	-Proper is a challenge to determine		
	and Documented	-Whether or not is entered would be fine		
		-This may not be very impactful		
		I-This may related to EMD rather than crew documentation		
PEDS-08	Pediatric Airway	This measure is important to improving patient care. This measure aligns with clinical	Do not proceed	Airway-01 is a more robust measure. Will
	Success	standards of EMS care. The correct providers and patient populations are included. The		combine with Airway-01, with
		clinical process or outcome need improvement by EMS. The existing measure will meet		denominator stratified by age.
		the needs of FAIR project. This measure will be well received by EMS. Actions for this		, 0
		match Airway -01 and will be recommended for adoption of existing measure. No other		
		comments		
PEDS-09	Pediatric Airway	This measure is important to improving patient care. This measure aligns with clinical	Do not proceed	Combined with Airway-11, with
	Attempts Ratio	standards of EMS care. The correct providers and patient populations are included. The		denominator stratified by age.
		clinical process or outcome needs improvement by EMS. The existing measure will meet		
		the needs of the FAIR project. This measure will be ell received by EMS. Actions for this		
		match Airway - 06 and will be recommended for adoption of existing measure. No other		
		comments		
Seizure-04	Fingerstick for	-The discussion was that this measure should be more broadly applied to included altered	Do not proceed	Not supported by current evidence.
	Seizure Patients	mental status.		Competing measure concept was retired
		-Potentially part of a seizure bundle.		by NEMSQA in 2019 due to direction of
		-Mav want to look at other measures as well		evidence.
SEPS-02	Time from EMS	This measure is not important to improving patient care. This measure does not align with	Do not proceed	Duplicative to SEPS-01
	Arrival on Scene to	current clinical standards in EMS. The correct providers and patient populations are not		
	Sepsis Alert	included in this measure. This measure will be well received by EMS. Data required for		
		this measure is routinely documented but not easily collected, there is problems with		
		current documentation. This measure with some changes in focus should be considered		
		for further development. This measure could be considered for inclusion in a bundle or		
		composite measure. Comments include the need to focus on finding alert and giving a		
		fluid bolus		
SEPS-03	Timely Fluid Bolus	This measure is important to improving patient care. This measure, with some changes	Do not proceed	Evidence concerns. Disadvantage to
		align with current clinical standards of care. The current providers and patient populations		short transport time.
		are not included in this measure. Data required for this measure is routinely documented		
		but not easily collected - problem is that times can be documented hours after the fact, so		
		not real-time. The measure will be well received by the EMS community. The measure,		
		with changes can be considered for further development. No additional measures in this		
		topic area were listed. other comments included may be changing verbiage to percent or		
		patients that received a bolus if septic or SBP > 90 or MAP < 65. Also change verbiage to		
		'time of alert' to		

	Time from EMS Arrival to Fluid Bolus	This measure is important to improving patient care. This measure with some changes, align with current clinical standards of care in EMS. The current providers and populations are not included in this measure. Data required for this measure is not routinely documented or easily collected - problem is that times can be documented after the fact, so not real-time. The measures will be well received by EMS. This measure, with changes to verbiage can be considered for further development. Other comments included changing verbiage to 'time of alert' to in description.	Do not proceed	Evidence concerns. Disadvantage to short transport time.
	Sepsis Alert to Fluid Bolus	This measure is important to improving patient care. This measure with some changes, align with current clinical standards of care in EMS. The current providers and populations are not included in this measure. Data required for his measure is not routinely documented and easily collected - problem is that times can be documented after the fact,	Do not proceed	Evidence concerns. Disadvantage to short transport time.
SEPS-06	Time from Sepsis Alert to Fluid Bolus	This measure is important to improving patient care. This measure aligns with current clinical standards of care in EMS. The correct providers and patient populations are included in this measure. This clinical process or outcomes needs improvement in EMS. Data required for this measure is not routinely documented or easily collected - problem is	Do not proceed	Evidence concerns. Disadvantage to short transport time.
	Vital Signs Completed within 5 Minutes for Stroke	-Discussion that this measure concept is important -Reasonable should have for all patients -Should consider a general assessment vitals assessment	Do not proceed	Vital signs should be standard of care for all patients.
Stroke-13	ECG Obtained for Stroke	-Discussion that this concept should include a time specification as well such as 10 minutesDiscussion including the value of ECG is the treatment of the stroke patientAnother concern this procedure may create added delay in transporting the patient to definitive care -Identification important of A-Fib in a stroke patient	Do not proceed	Not supported by current evidence.
	Vital Signs Completed within 5 Minutes for Trauma	-What are vitals -Remove 5 minutes not important, maybe at any time -no BP or RespLife threats should be identified prior before taking time to measures -Vital signs should be assessed in general -We do not want to create a measure that would encourage more time spent on scene that		Vital signs should be standard of care for all patients.
	Proper Placement of Tourniquet	-Remove from trauma as may used for other indications. Most common placement is for patients with fistula, maybe uncontrolled extremity bleeding -Just tourniquet placed -Proper would be difficult to determine	Do not proceed	Unlikely to be a measurement for quality improvement. Uncontrolled bleeding often leads to application of tourniquet.
	Documentation of GCS	-Simple straight forward -Starting to think about neurological assessment	Do not proceed	Develop Trauma-08, which includes disability component, instead.

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Trauma-15	Application of Ice	-Ice is not practical in prehospital setting -Important but impractical -Note in the intervention -Could be part of alternative pain management techniques -Where you have ice available	Do not proceed	Combine concepts into Trauma-17
Trauma-16	Splinting of Soft Tissue Injuries	-Soft tissue does not need to be splinted -Rollup into a bundleCould be part of alternative pain management -This data is available for measure -This could be the process measure for Trauma-03	Do not proceed	Combine concepts into Trauma-17