

# Performance Measures

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*Oregon Prehospital EMS Data System*  
*November 7, 2022*

This document defines performance measures for Oregon’s prehospital EMS data system.

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*Definitions:*

- *EMS: emergency medical services*
- *NEMESIS: National Emergency Medical Services Information System*
- *PCR: patient care report*

*Record selection filters: All performance measures use the following filters, unless specified otherwise:*

- *Records are marked complete ([Record Status] != 'In Progress')*
- *Date/Time filter is based on record creation date/time ([Incident Record Created] = ?)*

## **Timeliness**

T1. PCR Submission Timeliness

T2. PCRs Submitted within 24 Hours

**T1. PCR Submission Timeliness (replaced)**

<i>Measure ID</i>	T1
<i>Topic</i>	Timeliness
<i>Measure Title</i>	PCR Submission Timeliness
<i>Description</i>	The median number of hours that it takes for a PCR to be received by the state data system (from the time the EMS unit was notified to respond to the call)
<i>Rationale</i>	Timely submission of PCRs increases their usefulness, particularly for continuity of care (by making PCRs available to hospitals more quickly) and public health surveillance.
<i>Numerator</i>	Median number of hours from Unit Notified Date/Time to date/time that PCR is accepted by the state system
<i>Denominator</i>	N/A
<i>Filter</i>	N/A
<i>Pseudocode Numerator</i>	MEDIAN ( HOURS ( [Incident Record Created] – eTimes.03 ) )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	N/A

*This measure is replaced by measure T2.*

## T2. PCRs Submitted within 24 Hours

<i>Measure ID</i>	T2
<i>Topic</i>	Timeliness
<i>Measure Title</i>	PCRs Submitted within 24 Hours
<i>Description</i>	The percentage of PCRs received by the state data system within 24 hours from the time the EMS unit was notified to respond to the call
<i>Rationale</i>	Timely submission of PCRs increases their usefulness, particularly for continuity of care (by making PCRs available to hospitals more quickly) and public health surveillance.
<i>Numerator</i>	The number of PCRs received by the state system within 24 hours from the time the EMS unit was notified to respond to the call
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	N/A
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE HOURS ( [Incident Record Created] – eTimes.03 ) IS LESS THAN 24
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	N/A

*Note: This timeframe for this measure was changed from 12 to 24 hours in November 2022 to align with the regulatory requirement in [OAR 333-250-0310\(1\)\(a\)\(A\)](#).*

## Accuracy

*No Accuracy measures have been selected.*

*For DOT reporting, it may be reasonable to report on performance measures where the state is already achieving 100% due to Schematron rules that prevent the state system from accepting inaccurate data. For example, the state system rejects records with date/time values that are out of order.*

*A potential future performance measure would look at records with the same incident date, patient name, and patient birthdate, and compare the Primary Impression.*

## Completeness

- C1. PCR's Submitted
- C2. Agencies Submitting PCR's—Transport
- C3. Agencies Submitting PCR's—Non-transport
- C4. GCS Recorded—Trauma
- C5. Scene and Injury Details Recorded—Transport Incidents
- C6. Suspected Stroke Receiving Prehospital Stroke Assessment (moved)
- C7. Patient Age RecordedC8. Primary Impression Recorded
- C9. Additional Response Mode Descriptors Recorded
- C10. Additional Transport Mode Descriptors Recorded
- C11. Personal Protective Equipment Usage Recorded

## C1. PCRs Submitted

<i>Measure ID</i>	C1
<i>Topic</i>	Completeness
<i>Measure Title</i>	PCRs Submitted
<i>Description</i>	The number of PCRs received by the state data system.
<i>Rationale</i>	The number of PCRs submitted is a key measure of data system completeness. As more PCRs are submitted, the state data system more completely represents statewide EMS responses.
<i>Numerator</i>	Number of PCRs
<i>Denominator</i>	N/A
<i>Filter</i>	N/A
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	N/A



## C2. Agencies Submitting PCRs—Transport

<i>Measure ID</i>	C2
<i>Topic</i>	Completeness
<i>Measure Title</i>	Agencies Submitting PCRs—Transport
<i>Description</i>	The percentage of licensed transporting agencies submitting PCR data
<i>Rationale</i>	As more transporting agencies submit data, the state data system more completely represents statewide patient transports.
<i>Numerator</i>	Number of agencies submitting PCRs
<i>Denominator</i>	Number of agencies
<i>Filter</i>	Agency Active Status is “Active” and Agency Unique State ID is four digits and Primary Type of Service is “911 Response (Scene) with Transport Capability,” “Air Medical,” “Medical Transport (Convalescent, Interfacility Transfer Hospital and Nursing Home),” or “Critical Care (Ground)”
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) ) WHERE EXISTS ( PatientCareReport )
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) )
<i>Pseudocode Filter</i>	[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /^d{4}\$/ AND dAgency.09 in ( 9920001 , 9920005 , 9920013 , 9920019 )

### C3. Agencies Submitting PCRs—Non-transport

<i>Measure ID</i>	C3
<i>Topic</i>	Completeness
<i>Measure Title</i>	Agencies Submitting PCRs—Non-transport
<i>Description</i>	The percentage of registered non-transporting 911 scene response agencies submitting PCR data
<i>Rationale</i>	As more non-transporting agencies submit data, the state data system more completely represents the statewide activity of all EMS responses.
<i>Numerator</i>	Number of agencies submitting PCRs
<i>Denominator</i>	Number of agencies
<i>Filter</i>	dAgency.09 Primary Type of Service is "911 Response (Scene) without Transport Capability," "ALS Intercept," "Hazmat," "Rescue," or "Community Paramedicine"
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency,04 ) ) WHERE EXISTS ( PatientCareReport )
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency,04 ) )
<i>Pseudocode Filter</i>	[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /^d{4}\$/ AND dAgency.09 in ( 9920003 , 9920007 , 9920011 , 9920015 , 9920017 )

**C4. GCS Recorded—Trauma**

<i>Measure ID</i>	C4
<i>Topic</i>	Completeness
<i>Measure Title</i>	GCS Recorded—Trauma
<i>Description</i>	Where CDC trauma triage criteria is not blank and a patient is treated, the percentage of PCRs with at least one full non-blank Glasgow Coma Score recorded, including components (eye, verbal, motor) and qualifier
<i>Rationale</i>	GCS is a reliable and objective measure of the condition of a trauma patient.
<i>Numerator</i>	The number of PCRs with at least one set of vital signs where all Glasgow Coma Score components (eVitals.19–23) are non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eInjury.03 Trauma Triage Criteria (Steps 1 and 2) or eInjury.04 Trauma Triage Criteria (Steps 3 and 4) is not blank and eDisposition.12 Incident/Patient Disposition includes “Patient Treated” (NEMSIS 3.4) or eDisposition.28 Patient Evaluation/Care is “Patient Evaluated and Care Provided” (NEMSIS 3.5)
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE EXISTS ( eVitals.19 IS NOT NULL and eVitals.20 IS NOT NULL AND eVitals.21 IS NOT NULL AND eVitals.22 IS NOT NULL AND eVitals.23 IS NOT NULL )
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	( eInjury.03 IS NOT NULL OR eInjury.04 IS NOT NULL ) AND ( eDisposition.12 IN ( 4212027 , 4212029 , 4212031 , 4212033 , 4212035 , 4212037 ) OR eDisposition.28 = 4228001 )

## C5. Scene and Injury Details Recorded—Transport Incidents

<i>Measure ID</i>	C5
<i>Topic</i>	Completeness
<i>Measure Title</i>	Scene and Injury Details Recorded—Transport Incidents
<i>Description</i>	Where the cause of injury is a transport incident, the average percentage of selected scene-, situation-, injury-, and disposition-related elements with a non-blank value per PCR
<i>Rationale</i>	Scene and injury information are important for traffic safety analysis.
<i>Numerator</i>	<p>Number of the following elements with a non-blank value, divided by the number of elements (17):</p> <ul style="list-style-type: none"> <li>• eScene.09 Incident Location Type</li> <li>• eScene.11 Scene GPS Location</li> <li>• eScene.15 Incident Street Address</li> <li>• eScene.17 Incident City</li> <li>• eScene.18 Incident State</li> <li>• eScene.19 Incident ZIP Code</li> <li>• eScene.20 Scene Cross Street or Directions</li> <li>• eScene.21 Incident County</li> <li>• eSituation.14 Work-Related Illness/Injury</li> <li>• eInjury.02 Mechanism of Injury</li> <li>• eInjury.03 Trauma Triage Criteria (Steps 1 and 2)</li> <li>• eInjury.04 Trauma Triage Criteria (Steps 3 and 4)</li> <li>• eInjury.05 Main Area of the Vehicle Impacted by the Collision</li> <li>• eInjury.06 Location of Patient in Vehicle</li> <li>• eInjury.07 Use of Occupant Safety Equipment</li> <li>• eInjury.08 Airbag Deployment</li> <li>• eDisposition.21 Type of Destination</li> </ul>
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eInjury.01 Cause of Injury is a transport incident (ICD-10 code starts with "V")
<i>Pseudocode Numerator</i>	SUM ( eScene.09 IS NOT NULL + eScene.11 IS NOT NULL + eScene.15 IS NOT NULL + eScene.17 IS NOT NULL + eScene.18 IS NOT NULL + eScene.19 IS NOT NULL + eScene.20 IS NOT NULL + eScene.21 IS NOT NULL + eSituation.14 IS NOT NULL + eInjury.02 IS NOT NULL + eInjury.03 IS NOT NULL + eInjury.04 IS NOT NULL + eInjury.05 IS NOT NULL + eInjury.06 IS NOT NULL + eInjury.07 IS NOT NULL + eInjury.08 IS NOT NULL + eDisposition.21 IS NOT NULL ) / 17
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	eInjury.01 LIKE 'V%'

**C6. Suspected Stroke Receiving Prehospital Stroke Assessment (moved)**

*This measure was moved to the Oregon EMS Performance Measures and re-specified to match the National EMS Quality Alliance performance measure Stroke-01 Suspected Stroke Receiving Prehospital Stroke Assessment.*

**C7. Patient Age Recorded**

<i>Measure ID</i>	C7
<i>Topic</i>	Completeness
<i>Measure Title</i>	Patient Age Recorded
<i>Description</i>	Where a patient is treated, the percentage of PCRs with patient age (including age units) recorded
<i>Rationale</i>	Patient age impacts assessment and treatment decisions, especially with pediatric and elderly patients.
<i>Numerator</i>	Number of PCRs where ePatient.15 Age and ePatient.16 Age Units are non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eDisposition.12 Incident/Patient Disposition begins with "Patient" (NEMSIS 3.4) or eDisposition.28 Patient Evaluation/Care is "Patient Evaluated and Care Provided" (NEMSIS 3.5)
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE ePatient.15 IS NOT NULL and ePatient.16 IS NOT NULL
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	eDisposition.12 IN ( 4212013 , 4212015 , 4212017 , 4212019 , 4212021 , 4212023 , 4212025 , 4212027 , 4212029 , 4212031 , 4212033 , 4212035 , 4212037 ) OR eDisposition.28 = 4228001

## C8. Primary Impression Recorded

<i>Measure ID</i>	C8
<i>Topic</i>	Completeness
<i>Measure Title</i>	Primary Impression Recorded
<i>Description</i>	Where a patient is treated, the percentage of PCRs with provider's primary impression recorded
<i>Rationale</i>	Provider's primary impression is a key data element for understanding the reason for an EMS call.
<i>Numerator</i>	Number of PCRs where eSituation.11 Provider's Primary Impression is non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eDisposition.12 Incident/Patient Disposition begins with "Patient Treated" or includes "-Resuscitation Attempted" (NEMSIS 3.4) or eDisposition.28 Patient Evaluation/Care is "Patient Evaluated and Care Provided" (NEMSIS 3.5)
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE eSituation.11 IS NOT NULL
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	eDisposition.12 IN ( 4212017 , 4212019 , 4212027 , 4212029 , 4212031 , 4212033 , 4212035 , 4212037 ) OR eDisposition.28 = 4228001

## C9. Additional Response Mode Descriptors Recorded

<i>Measure ID</i>	C9
<i>Topic</i>	Completeness
<i>Measure Title</i>	Additional Response Mode Descriptors Recorded
<i>Description</i>	Where the type of service requested is an emergency response to scene, the percentage of PCRs with additional response mode descriptors recorded
<i>Rationale</i>	Response mode descriptors are important for evaluating the use of lights and sirens during the response to 911 calls, which is associated with increased safety risks.
<i>Numerator</i>	Number of PCRs where eResponse.24 Additional Response Mode Descriptors is non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eResponse.05 Type of Service Requested is "911 Response (Scene) Emergency Response (Primary Response Area)"
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE eResponse.24 IS NOT NULL
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	eResponse.05 = ' 2205001'



## C10. Additional Transport Mode Descriptors Recorded

<i>Measure ID</i>	C10
<i>Topic</i>	Completeness
<i>Measure Title</i>	Additional Transport Mode Descriptors Recorded
<i>Description</i>	Where the type of service requested is an emergency response to scene and the responding EMS unit transports a patient, the percentage of PCRs with additional transport mode descriptors recorded
<i>Rationale</i>	Transport mode descriptors are important for evaluating the use of lights and sirens during the transport of patients on 911 responses, which is associated with increased safety risks.
<i>Numerator</i>	Number of PCRs where eDisposition.18 Additional Transport Mode Descriptors is non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eResponse.05 Type of Service Requested is " Emergency Response (Primary Response Area)" AND eDisposition.12 Incident/Patient Disposition is "Patient Treated, Transported by this EMS Unit" (NEMSIS 3.4) OR eDisposition.30 Transport Disposition begins with "Transport by This EMS Unit" (NEMSIS 3.5)
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE eDisposition.18 IS NOT NULL
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	eResponse.05 = 2205001 AND ( eDisposition.12 = 4212033 OR eDisposition.30 IN ( 2230001 , 2230003 ) )

**C11. Personal Protective Equipment Usage Recorded**

<i>Measure ID</i>	C11
<i>Topic</i>	Completeness
<i>Measure Title</i>	Personal Protective Equipment Usage Recorded
<i>Description</i>	In patient contacts with possible infectious disease, the percentage of PCRs with provider personal protective equipment usage recorded
<i>Rationale</i>	Information about personal protective equipment usage is important for evaluating the risk exposure of EMS personnel to infectious diseases.
<i>Numerator</i>	Number of PCRs where eOther.03 Personal Protective Equipment Used is non-blank
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eSituation.11 Provider's Primary Impression or eSituation.12 Provider's Secondary Impressions match codes indicating possible infectious disease AND eDisposition.12 Incident/Patient Disposition begins with "Patient" (NEMIS 3.4) OR eDisposition.27 Unit Disposition is "Patient Contact Made" (NEMIS 3.5)
<i>Pseudocode Numerator</i>	COUNT ( PatientCareReport ) WHERE eOther.03 IS NOT NULL
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	(eSituation.11, eSituation.12) MATCHES / <sup>^</sup> B97.2 J00 J09 J10 J11 J12 J15 J17 J18 J20 J21 J22 J80 R50.9 Z20.828 Z20.9/ AND ( eDisposition.12 IN ( 4212013 , 4212015 , 4212017 , 4212019 , 4212021 , 4212023 , 4212025 , 4212027 , 4212029 , 4212031 , 4212033 , 4212035 , 4212037 ) OR eDisposition.27 = 4227001 )

## **Uniformity**

U1. Agencies Submitting NEMSIS 2 PCRs—Transport (retired)

U2. Agencies Submitting NEMSIS 2 PCRs—Non-transport (retired)

U3. Agencies Submitting NEMSIS 3.5 PCRs

**U1. Agencies Submitting NEMSIS 2 PCRs—Transport (retired)**

<i>Measure ID</i>	U1
<i>Topic</i>	Uniformity
<i>Measure Title</i>	Agencies Submitting NEMSIS 2 PCRs
<i>Description</i>	The number of licensing transporting agencies submitting NEMSIS version 2 data
<i>Rationale</i>	All agencies should transition to NEMSIS 3 reporting to improve uniformity. The number of agencies reporting NEMSIS 2 data should reduce to zero.
<i>Numerator</i>	Number of agencies submitting PCRs
<i>Denominator</i>	N/A
<i>Filter</i>	NEMSIS 2 data system
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( D01_01 , D01_03 ) )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	EXISTS ( Record ) AND D01_05 in ( 5610 , 5630 , 5650 , 5680 )

*This measure is retired. The goal (0) was met in 2019.*

**U2. Agencies Submitting NEMSIS 2 PCRs—Non-transport (retired)**

<i>Measure ID</i>	U2
<i>Topic</i>	Uniformity
<i>Measure Title</i>	Agencies Submitting NEMSIS 2 PCRs
<i>Description</i>	The number of registered non-transporting 911 scene response agencies submitting NEMSIS version 2 data
<i>Rationale</i>	All agencies should transition to NEMSIS 3 reporting to improve uniformity. The number of agencies reporting NEMSIS 2 data should reduce to zero.
<i>Numerator</i>	Number of agencies submitting PCRs
<i>Denominator</i>	N/A
<i>Filter</i>	NEMSIS 2 data system
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( D01_01 , D01_03 ) )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	EXISTS ( Record ) AND D01_05 in ( 5620 , 5640 , 5660 , 5670 )

*This measure is retired. The goal (0) was met in 2019.*

### U3. Agencies Submitting NEMSIS 3.5 PCRs

<i>Measure ID</i>	U3
<i>Topic</i>	Uniformity
<i>Measure Title</i>	Agencies Submitting NEMSIS 3.5 PCRs
<i>Description</i>	The percentage of reporting agencies submitting NEMSIS version 3.5 data
<i>Rationale</i>	All agencies should transition to NEMSIS 3.5 reporting to maintain uniformity. The number of agencies reporting NEMSIS 3.5 data should increase to 100% as agencies move from NEMSIS 3.4 to NEMSIS 3.5.
<i>Numerator</i>	Number of agencies submitting NEMSIS 3.5 PCRs
<i>Denominator</i>	Number of agencies submitting PCRs
<i>Filter</i>	Agency Active Status is "Active" and Agency Unique State ID is four digits
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency,04 ) ) WHERE EXISTS ( PatientCareReport WHERE NEMSIS Version = 3.5)
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency,04 ) ) WHERE EXISTS ( PatientCareReport )
<i>Pseudocode Filter</i>	[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /^d{4}\$/

## **Integration**

- I1. Licensing System Integration—Transport Agencies
- I2. Licensing System Integration—Non-transport Agencies
- I3. Hospital Outcomes Recorded—Trauma (replaced)
- I4. Hospital Outcomes Recorded—Non-trauma (suspended)
- I5. Trauma Registry Outcomes Received
- I6. Agencies with CARES Integration

## I1. Licensing System Integration—Transport Agencies

<i>Measure ID</i>	I1
<i>Topic</i>	Integration
<i>Measure Title</i>	Licensing System Integration—Transport Agencies
<i>Description</i>	The percentage of licensed transporting agencies which have been linked between the licensing system and the prehospital system
<i>Rationale</i>	Integration between the licensing system and the prehospital EMS data system ensures that information about licensed transporting agencies remains consistent with official licensing records.
<i>Numerator</i>	Number of agencies which have been linked between the licensing system and the prehospital system
<i>Denominator</i>	Number of agencies
<i>Filter</i>	Service Active Status is “Yes” and Service License is “Primary” and Service License Level is “Agencies-Transport” or “Agency Transport – Satellite”
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT [Service ID] ) WHERE [Sync Method] = 'Oregon Elite Sync'
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT [ServiceID] )
<i>Pseudocode Filter</i>	[Services Active Service] = 'Yes' AND [Certification is Primary] = 'Yes' AND Service License Level IS IN ( 'Agencies-Transport', 'Agency Transport - Satellite' )



## I2. Licensing System Integration—Non-transport Agencies

<i>Measure ID</i>	I2
<i>Topic</i>	Integration
<i>Measure Title</i>	Licensing System Integration—Non-transport Agencies
<i>Description</i>	The percentage of registered non-transporting 911 scene response agencies which have been linked between the licensing system and the prehospital system
<i>Rationale</i>	Integration between the licensing system and the prehospital EMS data system ensures that information about registered non-transporting agencies remains consistent with registration records.
<i>Numerator</i>	Number of agencies which have been linked between the licensing system and the prehospital system
<i>Denominator</i>	Number of agencies
<i>Filter</i>	Service Active Status is “Yes” and Service License is “Primary” and Service License Level is “Agencies-NonTransport”
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT [Service ID] ) WHERE EXISTS [Sync Method] = 'Oregon Elite Sync'
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT [Service ID] )
<i>Pseudocode Filter</i>	[Services Active Service] = 'Yes' AND [Certification is Primary] = 'Yes' AND Service License Level = 'Agencies-NonTransport'

### I3. Hospital Outcomes Recorded—Trauma (replaced)

<i>Measure ID</i>	I3
<i>Topic</i>	Integration
<i>Measure Title</i>	Hospital Outcomes Recorded—Trauma
<i>Description</i>	Where CDC trauma triage criteria <u>are not blank</u> and a patient is transported by EMS, the percentage of PCRs last modified in a given month with Emergency Department Disposition or Hospital Disposition recorded
<i>Rationale</i>	It is important for EMS to receive hospital outcome information in order to evaluate performance and improve patient care.
<i>Numerator</i>	Number of PCRs with a non-blank value in eOutcome.01 Emergency Department Disposition or eOutcome.02 Hospital Disposition
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eInjury.03 Trauma Center Criteria or eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor <u>is not blank</u> and eDisposition.12 Incident/Patient Disposition is “Patient Treated, Transported by this EMS Unit” Date/Time filter is based on record modification date/time ([Incident Record Modified] = ?)
<i>Pseudocode Numerator</i>	COUNT ( eOutcome.01 IS NOT NULL OR eOutcome.02 IS NOT NULL )
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	( eInjury.03 IS NOT NULL OR eInjury.04 IS NOT NULL ) AND eDisposition.12 = 4212033

*This measure is replaced by measure I5.*

#### I4. Hospital Outcomes Recorded—Non-trauma (suspended)

<i>Measure ID</i>	I4
<i>Topic</i>	Integration
<i>Measure Title</i>	Hospital Outcomes Recorded—Non-trauma
<i>Description</i>	Where CDC trauma triage criteria <u>are blank</u> and a patient is transported by EMS, the percentage of PCRs last modified in a given month with Emergency Department Disposition or Hospital Disposition recorded
<i>Rationale</i>	It is important for EMS to receive hospital outcome information in order to evaluate performance and improve patient care.
<i>Numerator</i>	Number of PCRs with a non-blank value in eOutcome.01 Emergency Department Disposition or eOutcome.02 Hospital Disposition
<i>Denominator</i>	Number of PCRs
<i>Filter</i>	eInjury.03 Trauma Center Criteria and eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor <u>are blank</u> and eDisposition.12 Incident/Patient Disposition is “Patient Treated, Transported by this EMS Unit” Date/Time filter is based on record modification date/time ([Incident Record Modified] = ?)
<i>Pseudocode Numerator</i>	COUNT ( eOutcome.01 IS NOT NULL OR eOutcome.02 IS NOT NULL )
<i>Pseudocode Denominator</i>	COUNT ( PatientCareReport )
<i>Pseudocode Filter</i>	( eInjury.03 IS NULL AND eInjury.04 IS NULL ) AND eDisposition.12 = 4212033

*This measure is suspended until a project is in place to work on it.*

**I5. Trauma Registry Outcomes Received**

<i>Measure ID</i>	I5
<i>Topic</i>	Integration
<i>Measure Title</i>	Trauma Registry Outcomes Received
<i>Description</i>	The number of PCRs for which outcome data was received from the trauma registry in a given month
<i>Rationale</i>	It is important for EMS to receive hospital outcome information in order to evaluate performance and improve patient care.
<i>Numerator</i>	Number of PCRs
<i>Denominator</i>	N/A
<i>Filter</i>	Integration Account Name is "Lancet Outcome Import" AND Import Status is "Completed" Date/Time filter is based on import date/time
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT PatientCareReport )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	[Integration Account Name] = "Lancet Outcome Import" AND [Import Status] = "Completed" AND [Import History Created On] = ?

## I6. Agencies with CARES Integration

<i>Measure ID</i>	I6
<i>Topic</i>	Integration
<i>Measure Title</i>	Trauma Registry Outcomes Received
<i>Description</i>	The total number of EMS agencies for which CARES integration has been implemented
<i>Rationale</i>	Integration with the Cardiac Arrest Registry to Enhance Survival (CARES) enables agencies to automatically send PCR data to CARES, reducing the reporting burden and improving consistency between PCR data and CARES data.
<i>Numerator</i>	Number of Agencies
<i>Denominator</i>	N/A
<i>Filter</i>	Integration Account Name is "CARES" AND Export Status is "Completed" Date/Time filter is based on export date/time
<i>Pseudocode Numerator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	[Integration Account Name] = "CARES" AND [Export Status] = "Completed" AND [Export DateTime] = ?

## **Accessibility**

A1. System Feedback Received

A2. Agencies Receiving Quarterly Feedback Report (suspended)

## A1. System Feedback Received

<i>Measure ID</i>	A1
<i>Topic</i>	Accessibility
<i>Measure Title</i>	System Feedback Received
<i>Description</i>	The number of data system feedback submissions received by the state data system via PCRs
<i>Rationale</i>	It is important for the state to provide a formal feedback mechanism so users of the data system can report issues affecting the usability of the system.
<i>Numerator</i>	Number of data system feedback submissions
<i>Denominator</i>	N/A
<i>Filter</i>	System feedback is recorded Record status filter is not used
<i>Pseudocode Numerator</i>	COUNT ( [System Feedback] )
<i>Pseudocode Denominator</i>	N/A
<i>Pseudocode Filter</i>	[System Feedback] IS NOT NULL

**A2. Agencies Receiving Quarterly Feedback Report (suspended)**

<i>Measure ID</i>	A2
<i>Topic</i>	Accessibility
<i>Measure Title</i>	Agencies Receiving Quarterly Feedback Report
<i>Description</i>	The percentage of reporting EMS agencies receiving a feedback report from the state each quarter
<i>Rationale</i>	It is important for the state to provide feedback to agencies so that agencies can improve data quality.
<i>Numerator</i>	Number of agencies to which a feedback report was sent by the state
<i>Denominator</i>	Number of agencies submitting data
<i>Filter</i>	Agency Active Status is "Active" and Agency Unique State ID is four digits
<i>Pseudocode Numerator</i>	COUNT ( [Feedback Report] )
<i>Pseudocode Denominator</i>	COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency,04 ) ) WHERE EXISTS ( PatientCareReport )
<i>Pseudocode Filter</i>	[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /\^d{4}\$/

*This measure is tracked quarterly.*

*This measure is suspended until a project is in place to work on it.*