Performance Measures

Oregon Prehospital EMS Data System
June 15, 2020

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

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Definitions:

- EMS: emergency medical services
- NEMSIS: 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
# T1. PCR Submission Timeliness

**Measure ID**  
T1

**Topic**  
Timeliness

**Measure Title**  
PCR Submission Timeliness

**Description**  
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)

**Rationale**  
Timely submission of PCRs increases their usefulness, particularly for continuity of care (by making PCRs available to hospitals more quickly) and public health surveillance.

**Numerator**  
Median number of hours from Unit Notified Date/Time to date/time that PCR is accepted by the state system

**Denominator**  
N/A

**Filter**  
N/A

**Pseudocode Numerator**  
MEDIAN ( HOURS ( [Incident Record Created] – eTimes.03 ) )

**Pseudocode Denominator**  
N/A

**Pseudocode Filter**  
N/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. PCRs Submitted
C2. Agencies Submitting PCRs—Transport
C3. Agencies Submitting PCRs—Non-transport
C4. GCS Recorded—Trauma
C5. Scene and Injury Details Recorded—Transport Incidents
C6. Suspected Stroke Receiving Prehospital Stroke Assessment
C1. PCRs Submitted

Measure ID    C1

Topic          Completeness

Measure Title  PCRs Submitted

Description    The number of PCRs received by the state data system.

Rationale      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.

Numerator      Number of PCRs

Denominator    N/A

Filter         N/A

Pseudocode Numerator COUNT (PatientCareReport)

Pseudocode Denominator N/A

Pseudocode Filter N/A
C2. Agencies Submitting PCRs—Transport

**Measure ID**
C2

**Topic**
Completeness

**Measure Title**
Agencies Submitting PCRs—Transport

**Description**
The percentage of licensed transporting agencies submitting PCR data

**Rationale**
As more transporting agencies submit data, the state data system more completely represents statewide patient transports.

**Numerator**
Number of agencies submitting PCRs

**Denominator**
Number of agencies

**Filter**
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)”

**Pseudocode Numerator**
COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) )
WHERE EXISTS ( PatientCareReport )

**Pseudocode Denominator**
COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) )

**Pseudocode Filter**
[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /\^[\d]{4}$/ AND dAgency.09 in (9920001, 9920005, 9920013, 9920019)
### C3. Agencies Submitting PCRs—Non-transport

<table>
<thead>
<tr>
<th><strong>Measure ID</strong></th>
<th>C3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic</strong></td>
<td>Completeness</td>
</tr>
<tr>
<td><strong>Measure Title</strong></td>
<td>Agencies Submitting PCRs—Non-transport</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>The percentage of registered non-transporting 911 scene response agencies submitting PCR data</td>
</tr>
<tr>
<td><strong>Rationale</strong></td>
<td>As more non-transporting agencies submit data, the state data system more completely represents the statewide activity of all EMS responses.</td>
</tr>
<tr>
<td><strong>Numerator</strong></td>
<td>Number of agencies submitting PCRs</td>
</tr>
<tr>
<td><strong>Denominator</strong></td>
<td>Number of agencies</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>dAgency.09 Primary Type of Service is “911 Response (Scene) without Transport Capability,” “ALS Intercept,” “Hazmat,” “Rescue,” or “Community Paramedicine”</td>
</tr>
</tbody>
</table>

**Pseudocode**

**Numerator**

```sql
COUNT ( DISTINCT CONCAT ( dAgency.01, dAgency.02, dAgency,04 ) ) WHERE EXISTS ( PatientCareReport )
```

**Denominator**

```sql
COUNT ( DISTINCT CONCAT ( dAgency.01, dAgency.02, dAgency,04 ) )
```

**Pseudocode Filter**

```
[Agency Active Status] = 'Active' AND dAgency.01 MATCHES /^[\d]4$/ AND dAgency.09 in ( 9920003, 9920007, 9920011, 9920015, 9920017 )
```
C4. GCS Recorded—Trauma

**Measure ID**
C4

**Topic**
Completeness

**Measure Title**
GCS Recorded—Trauma

**Description**
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

**Rationale**
GCS is a reliable and objective measure of the condition of a trauma patient.

**Numerator**
The number of PCRs with at least one set of vital signs where all Glasgow Coma Score components (eVitals.19–23) are non-blank

**Denominator**
Number of PCRs

**Filter**
eInjury.03 Trauma Center Criteria or eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor is not blank and eDisposition.12 Incident/Patient Disposition includes “Patient Treated”

**Pseudocode**

**Numerator**

\[
\text{COUNT ( PatientCareReport ) WHERE EXISTS ( eVitals.19 IS NOT NULL and eVitals.20 IS NOT NULL AND eVitals.21 IS NOT NULL AND eVitals.22 IS NOT NULL AND eVitals.23 IS NOT NULL )}
\]

**Denominator**

\[
\text{COUNT ( PatientCareReport )}
\]

**Pseudocode Filter**

\[
( eInjury.03 IS NOT NULL OR eInjury.04 IS NOT NULL ) AND eDisposition.12 IN ( 4212027, 4212029, 4212031, 4212033, 4212035, 4212037 )
\]
C5. Scene and Injury Details Recorded—Transport Incidents

Measure ID: C5

Topic: Completeness

Measure Title: Scene and Injury Details Recorded—Transport Incidents

Description: 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

Rationale: Scene and injury information are important for traffic safety analysis.

Numerator: Number of the following elements with a non-blank value, divided by the number of elements (17):
- eScene.09 Incident Location Type
- eScene.11 Scene GPS Location
- eScene.15 Incident Street Address
- eScene.17 Incident City
- eScene.18 Incident State
- eScene.19 Incident ZIP Code
- eScene.20 Scene Cross Street or Directions
- eScene.21 Incident County
- eSituation.14 Work-Related Illness/Injury
- eInjury.02 Mechanism of Injury
- eInjury.03 Trauma Center Criteria
- eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor
- eInjury.05 Main Area of the Vehicle Impacted by the Collision
- eInjury.06 Location of Patient in Vehicle
- eInjury.07 Use of Occupant Safety Equipment
- eInjury.08 Airbag Deployment
- eDisposition.21 Type of Destination

Denominator: Number of PCRs

Filter: eInjury.01 Cause of Injury is a transport incident (ICD-10 code starts with “V”)

Pseudocode:

Numerator: \[
\text{SUM ( eScene.09 IS NOT NULL + eScene.11 IS NOT NULL + eScene.15 IS NOT NULL + eScene.17 IS NOT NULL + eScene.18 IS NOT NULL + eScene.19 IS NOT NULL + eScene.20 IS NOT NULL + eScene.21 IS NOT NULL + eSituation.14 IS NOT NULL + eInjury.02 IS NOT NULL + eInjury.03 IS NOT NULL + eInjury.04 IS NOT NULL + eInjury.05 IS NOT NULL + eInjury.06 IS NOT NULL + eInjury.07 IS NOT NULL + eInjury.08 IS NOT NULL + eDisposition.21 IS NOT NULL ) / 17 }
\]

Denominator: \[
\text{COUNT ( PatientCareReport )}
\]

Pseudocode Filter: eInjury.01 LIKE 'V%'

11
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

**Measure ID**  
C7

**Topic**  
Completeness

**Measure Title**  
Patient Age Recorded

**Description**  
Where a patient is treated, the percentage of PCRs with patient age (including age units) recorded

**Rationale**  
Patient age impacts assessment and treatment decisions, especially with pediatric and elderly patients.

**Numerator**  
Number of PCRs where ePatient.15 Age and ePatient.16 Age Units are non-blank

**Denominator**  
Number of PCRs

**Filter**  
eDisposition.12 Incident/Patient Disposition begins with “Patient”

**Pseudocode**  
- **Numerator**
  
  \[
  \text{COUNT ( PatientCareReport ) WHERE ePatient.15 IS NOT NULL and ePatient.16 IS NOT NULL}
  \]

- **Denominator**
  
  \[
  \text{COUNT ( PatientCareReport )}
  \]

- **Filter**
  
  eDisposition.12 IN ( 4212013, 4212015, 4212017, 4212019, 4212021, 4212023, 4212025, 4212027, 4212029, 4212031, 4212033, 4212035, 4212037 )

C8. Primary Impression Recorded

**Measure ID**  
C8

**Topic**  
Completeness

**Measure Title**  
Primary Impression Recorded

**Description**  
Where a patient is treated, the percentage of PCRs with provider's primary impression recorded

**Rationale**  
Provider's primary impression is a key data element for understanding the reason for an EMS call.

**Numerator**  
Number of PCRs where eSituation.11 Provider's Primary Impression is non-blank

**Denominator**  
Number of PCRs

**Filter**  
eDisposition.12 Incident/Patient Disposition begins with “Patient Treated” or includes "-Resuscitation Attempted"

**Pseudocode Numerator**  
COUNT ( PatientCareReport ) WHERE eSituation.11 IS NOT NULL

**Pseudocode**  
COUNT ( PatientCareReport )

**Pseudocode Filter**  
eDisposition.12 IN ( 4212017, 4212019, 4212027, 4212029, 4212031, 4212033, 4212035, 4212037 )
C9. Additional Response Mode Descriptors Recorded

**Measure ID**  
C9

**Topic**  
Completeness

**Measure Title**  
Additional Response Mode Descriptors Recorded

**Description**  
Where the type of service requested is a 911 response to scene, the percentage of PCRs with additional response mode descriptors recorded.

**Rationale**  
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.

**Numerator**  
Number of PCRs where eResponse.24 Additional Response Mode Descriptors is non-blank.

**Denominator**  
Number of PCRs

**Filter**  
eResponse.05 Type of Service Requested is "911 Response (Scene)"

**Pseudocode**  

Numerator:  
COUNT ( PatientCareReport ) WHERE eResponse.24 IS NOT NULL

Denominator:  
COUNT ( PatientCareReport )

Filter:  
eResponse.05 = '2205001'
### C10. Additional Transport Mode Descriptors Recorded

**Measure ID**  
C10

**Topic**  
Completeness

**Measure Title**  
Additional Transport Mode Descriptors Recorded

**Description**  
Where the type of service requested is a 911 transport to scene and the responding EMS unit transports a patient, the percentage of PCRs with additional transport mode descriptors recorded.

**Rationale**  
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.

**Numerator**  
Number of PCRs where eDisposition.18 Additional Transport Mode Descriptors is non-blank

**Denominator**  
Number of PCRs

**Filter**  
eResponse.05 Type of Service Requested is "911 Transport (Scene)" AND eDisposition.12 Incident/Patient Disposition is "Patient Treated, Transported by this EMS Unit"

**Pseudocode Numerator**  
COUNT ( PatientCareReport ) WHERE eDisposition.18 IS NOT NULL

**Pseudocode Denominator**  
COUNT ( PatientCareReport )

**Pseudocode Filter**  
eResponse.05 = '2205001' AND eDisposition.12 = '4212033'
C11. Personal Protective Equipment Usage Recorded

**Measure ID**

C11

**Topic**

Completeness

**Measure Title**

Personal Protective Equipment Usage Recorded

**Description**

In patient contacts with possible infectious disease, the percentage of PCRs with provider personal protective equipment usage recorded

**Rationale**

Information about personal protective equipment usage is important for evaluating the risk exposure of EMS personnel to infectious diseases.

**Numerator**

Number of PCRs where eOther.03 Personal Protective Equipment Used is non-blank

**Denominator**

Number of PCRs

**Filter**

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"

**Pseudocode**

**Numerator**

COUNT ( PatientCareReport ) WHERE eOther.03 IS NOT NULL

**Denominator**

COUNT ( PatientCareReport )

**Pseudocode Filter**

(eSituation.11, eSituation.12) MATCHES /^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)
Uniformity

No Uniformity measures are currently selected. Measures U1 and U2 are retired since their goals have been achieved.

Future performance measures will look at the proportion of records (or agencies) using NEMSIS version 3.5, once version 3.5 is available.

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

U2. Agencies Submitting NEMSIS 2 PCRs—Non-transport (retired)
U1. Agencies Submitting NEMSIS 2 PCRs—Transport (retired)

**Measure ID**  
U1

**Topic**  
Uniformity

**Measure Title**  
Agencies Submitting NEMSIS 2 PCRs

**Description**  
The number of licensing transporting agencies submitting NEMSIS version 2 data

**Rationale**  
All agencies should transition to NEMSIS 3 reporting to improve uniformity. The number of agencies reporting NEMSIS 2 data should reduce to zero.

**Numerator**  
Number of agencies submitting PCRs

**Denominator**  
N/A

**Filter**  
NEMSIS 2 data system

**Pseudocode**  
COUNT ( DISTINCT CONCAT ( D01_01 , D01_03 ) )

**Numerator**  
N/A

**Denominator**  
N/A

**Pseudocode Filter**  
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)

Measure ID: U2

Topic: Uniformity

Measure Title: Agencies Submitting NEMSIS 2 PCRs

Description: The number of registered non-transporting 911 scene response agencies submitting NEMSIS version 2 data

Rationale: All agencies should transition to NEMSIS 3 reporting to improve uniformity. The number of agencies reporting NEMSIS 2 data should reduce to zero.

Numerator: Number of agencies submitting PCRs

Denominator: N/A

Filter: NEMSIS 2 data system

Pseudocode Numerator: COUNT ( DISTINCT CONCAT ( D01_01 , D01_03 ) )

Pseudocode Denominator: N/A

Pseudocode Filter: EXISTS ( Record ) AND D01_05 in ( 5620 , 5640 , 5660 , 5670 )

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

Measures I1, I2, and I4 are suspended until projects are in place to work on them.

I1. Licensing System Integration—Transport Agencies (suspended)
I2. Licensing System Integration—Non-transport Agencies (suspended)
I3. Hospital Outcomes Recorded—Trauma
I4. Hospital Outcomes Recorded—Non-trauma (suspended)
I1. Licensing System Integration—Transport Agencies (suspended)

Measure ID: I1

Topic: Integration

Measure Title: Licensing System Integration—Transport Agencies

Description: The percentage of licensed transporting agencies for which licensing data has been transmitted from the licensing system to the prehospital system.

Rationale: Integration between the licensing system and the prehospital EMS data system ensures that information about licensed transporting agencies remains consistent with official licensing records.

Numerator: Number of agencies for which licensing data has been transmitted from the licensing system to the prehospital system.

Denominator: Number of agencies.

Filter: Licensing System: dAgency.09 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)”

Pseudocode:

Numerator: COUNT ( DISTINCT CONCAT ( dAgency.01 ,  dAgency.02 , dAgency,04 ) ) WHERE EXISTS [Sync Log]

Denominator: COUNT ( DISTINCT CONCAT ( dAgency.01 ,  dAgency.02 , dAgency,04 ) )

Filter: dAgency.09 in ( 9920001 , 9920005 , 9920013 , 9920019 )

This measure is suspended until a project is in place to work on it.
I2. Licensing System Integration—Non-transport Agencies (suspended)

**Measure ID**
I2

**Topic**
Integration

**Measure Title**
Licensing System Integration—Non-transport Agencies

**Description**
The percentage of registered non-transferring 911 scene response agencies for which licensing data has been transmitted from the licensing system to the prehospital system.

**Rationale**
Integration between the licensing system and the prehospital EMS data system ensures that information about registered non-transferring agencies remains consistent with registration records.

**Numerator**
Number of agencies for which licensing data has been transmitted from the licensing system to the prehospital system.

**Denominator**
Number of agencies.

**Filter**
Licensing System: dAgency.09 Primary Type of Service is “911 Response (Scene) without Transport Capability,” “ALS Intercept,” “Hazmat,” “Rescue,” or “Community Paramedicine”

**Pseudocode**

**Numerator**
COUNT ( DISTINCT CONCAT ( dAgency.01 ,  dAgency.02 , dAgency,04 ) ) WHERE EXISTS [Sync Log]

**Denominator**
COUNT ( DISTINCT CONCAT ( dAgency.01 ,  dAgency.02 , dAgency,04 ) )

**Pseudocode Filter**
dAgency.09 in ( 9920003 , 9920007 , 9920011 , 9920015 , 9920017 )

*This measure is suspended until a project is in place to work on it.*
### I3. Hospital Outcomes Recorded—Trauma

**Measure ID**
I3

**Topic**
Integration

**Measure Title**
Hospital Outcomes Recorded—Trauma

**Description**
Where CDC trauma triage criteria are not blank 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

**Rationale**
It is important for EMS to receive hospital outcome information in order to evaluate performance and improve patient care.

**Numerator**
Number of PCRs with a non-blank value in eOutcome.01 Emergency Department Disposition or eOutcome.02 Hospital Disposition

**Denominator**
Number of PCRs

**Filter**
eInjury.03 Trauma Center Criteria or eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor is not blank 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] = ?)

**Pseudocode**

<table>
<thead>
<tr>
<th><strong>Numerator</strong></th>
<th>COUNT ( eOutcome.01 IS NOT NULL OR eOutcome.02 IS NOT NULL )</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Denominator</strong></td>
<td>COUNT ( PatientCareReport )</td>
</tr>
</tbody>
</table>

| **Pseudocode Filter** | ( eInjury.03 IS NOT NULL OR eInjury.04 IS NOT NULL ) AND eDisposition.12 = 4212033 |
I4. Hospital Outcomes Recorded—Non-trauma (suspended)

**Measure ID**  
I4

**Topic**  
Integration

**Measure Title**  
Hospital Outcomes Recorded—Non-trauma

**Description**  
Where CDC trauma triage criteria are blank 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

**Rationale**  
It is important for EMS to receive hospital outcome information in order to evaluate performance and improve patient care.

**Numerator**  
Number of PCRs with a non-blank value in eOutcome.01 Emergency Department Disposition or eOutcome.02 Hospital Disposition

**Denominator**  
Number of PCRs

**Filter**  
eInjury.03 Trauma Center Criteria and eInjury.04 Vehicular, Pedestrian, or Other Injury Risk Factor are blank 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] = ?)

**Pseudocode**

**Numerator**  
COUNT ( eOutcome.01 IS NOT NULL OR eOutcome.02 IS NOT NULL )

**Denominator**  
COUNT ( PatientCareReport )

**Pseudocode Filter**  
( 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.*
Accessibility

A1. System Feedback Received
A1. System Feedback Received

Measure ID      A1
Topic           Accessibility
Measure Title   System Feedback Received
Description     The number of data system feedback submissions received by the state data system via PCRs
Rationale       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.
Numerator       Number of data system feedback submissions
Denominator     N/A
Filter          System feedback is recorded
                 Record status filter is not used
Pseudocode      COUNT ( [System Feedback] )
Numerator
Pseudocode      N/A
Denominator
Pseudocode Filter  [System Feedback] IS NOT NULL
A2. Agencies Receiving Quarterly Feedback Report

Measure ID  A2

Topic  Accessibility

Measure Title  Agencies Receiving Quarterly Feedback Report

Description  The percentage of reporting EMS agencies receiving a feedback report from the state each quarter

Rationale  It is important for the state to provide feedback to agencies so that agencies can improve data quality.

Numerator  Number of agencies to which a feedback report was sent by the state

Denominator  Number of agencies submitting data

Filter  Agency Active Status is “Active” and Agency Unique State ID is four digits

Pseudocode Numerator  COUNT ( [Feedback Report] )

Pseudocode Denominator  COUNT ( DISTINCT CONCAT ( dAgency.01 , dAgency.02 , dAgency.04 ) )

Pseudocode Filter  [Agency Active Status] = 'Active' AND dAgency.01 MATCHES /\d{4}$/

This measure is tracked quarterly.