Florida Emergency Medical Services Advisory Council

Data Committee

John Simpson, Chair
January 8, 2025

Meeting started @ 1430hrs

EMSAC Data Committee Agenda

- Welcome/Opening Remarks
- Review/Approval of Prior Meeting Record
- Review/Discussion State Plan/Action Items
- Update – Florida Stroke Registry
- Review Florida V3.5 Implementation
- Review of Data Quality Focus
- Open Discussion

Florida HEALTH

Information- Biospatial purchased by ImageTrend, should be business as usual. They will honor all current agreements, and functions that are currently in place.

Roll Call & Approval of Minutes

Minutes approved from the October meeting

Roll Call

EMSTARS

Abrams, Chad	Kruger, Robert
Byers, Patricia	Lozano, Michael
Carney, Chris	Matzen, Brian
Donatto, Darrel	Pappas, Peter
Faul, Jacob	Ransom, LuWayne
Fishe, Jennifer	Serrao, Simon
Hendry, Phyllis	Simpson, John, Chair
Jameson, Angus	Staples, Ryan
Johnson, Colin	Taylor, Michael
Judah, Lindsay	Tedesco, Anthony
	Vass, Debbie

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No online service for this session
Not in attendance- Jacob Faul, Jennifer Fishe, Phyllis Hendry, Angus Jameson, Michael Lozano, Simon Serrao, Anthony Tedesco.

Review of Strategic Plan Measures

EMSTARS

Florida HEALTH

State Plan

- **Subcommittee meetings**
  - **Members**
    - **Colin Johnson**
    - **Anthony Tedesco**
    - **Robert Kruger**
    - **John Simpson**
    - **Chris Carney**
    - **Dr. Byers**
    - **Alicia Wolf**
    - **Dr. Pappas**
- **Monitor action plan to further accomplishment of strategic objectives assigned.**
- **Review and finalize action plan with full committee.**
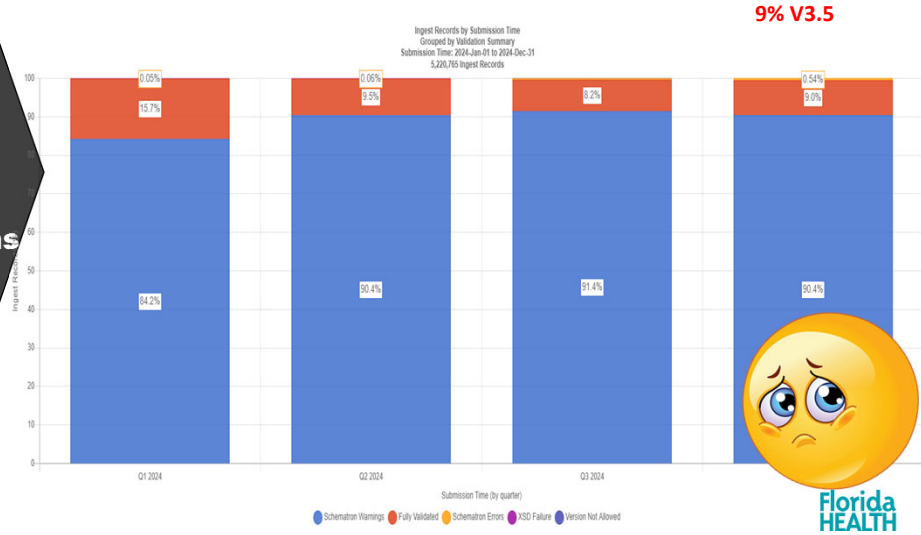- **Track/report on action plan.**

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Committee met in December to review goals and discuss action plan. Will reach out to strategic visions committee to ensure we are communicating all goals and plans as some interface with other committees and their goals.

Objective 1.1.C

Increase the percentage of data submission quality, specifically fully validated submissions from 38% to 90% by December 31, 2028

9% V3.5

Ingest Records by Submission Time
Grouped by Validation Summary
Submission Time: 2024-Jan-01 to 2024-Dec-31
5,220,765 Ingest Records

Q1 2024: 0.05%, 15.7%, 84.2%
Q2 2024: 0.06%, 9.5%, 90.4%
Q3 2024: 8.2%, 91.4%
0.54%, 9.0%, 90.4%

Submission Time (by quarter)

Schematron Warnings Fully Validated Schematron Errors XSD Failure Version Not Allowed

Tactics/Action

Activity Description	Person Responsible	Date	Activity Status
Activity/Intervention being carried out to address objective	Staff position responsible for carrying out or accountable for activity		Status of the indicator (Please see bottom of page for descriptions of selection choices)
• Develop Strategic Plan Implementation Plan	Data Committee Strategic Plan Subcommittee/Facilitator Brenda Clotfelter	1/30/25	On Track
• In coordination with Bureau, develop Data Committee communique to agencies of objective and how it is measured	Data Committee Strategic Plan Subcommittee/Facilitator Brenda Clotfelter	2/15/25	On Track
• Implement process of regularly communicating most common warnings statewide for distribution	BEMO/Data Unit	2/15/25	On Track
• Develop standard report of validation results by agency to be provided or acquired by agencies monthly	BEMO/Data Unit/biospatial	2/15/25	On Track
• Advertise and confirm the feedback loop for business rule issues/resolutions/changes	BEMO/Data Unit	Qtrly	On Track
• Monitor Validation results quarterly			On Track

Plan discussed by subcommittee and time line established.

Top 10	NEMSIS Warnings	Occurrence	% of Occurrence
	[3.5.0.230317CP4|nemSch_e187] Level of Care Provided per Protocol should be recorded (with a value other than "No Care Provided") when Patient Evaluation/Care is "Patient Evaluated and Care Provided".	38355	31.64%
	[3.5.0.230317CP4|nemSch_e066] Primary Method of Payment should be recorded when Transport Disposition is "Transport by This EMS Unit...".	25670	21.18%
	[3.5.0.230317CP4|nemSch_e168] Final Patient Acuity should be recorded when Patient Evaluation/Care is "Patient Evaluated and Care Provided".	25350	20.91%
	[3.5.0.230317CP4|nemSch_e075] Date/Time of Symptom Onset should be recorded when Type of Service Requested is "Emergency Response (Primary Response Area)" and Patient Evaluation/Care is "Patient Evaluated and Care Provided".	23122	19.08%
	[3.5.0.230317CP4|nemSch_e025] Unit Left Scene Date/Time should be recorded unless Unit Disposition is "Cancelled Prior to Arrival at Scene".	22767	18.78%
	[3.5.0.230317CP4|nemSch_e084] Initial Patient Acuity should be recorded when Type of Service Requested is "Emergency Response (Primary Response Area)" and Patient Evaluation/Care is "Patient Evaluated and Care Provided".	21723	17.92%
	[3.5.0.230317CP4|nemSch_e078] Chief Complaint Anatomic Location should be recorded when Type of Service Requested is "Emergency Response (Primary Response Area)" and Patient Evaluation/Care is "Patient Evaluated and Care Provided".	18407	15.19%
	[3.5.0.230317CP4|nemSch_e159] Role/Type of Person Performing the Procedure should be recorded, unless Procedure Performed Prior to this Unit's EMS Care is "Yes".	15162	12.51%
9	[3.5.0.230317CP4|nemSch_e079] Chief Complaint Organ System should be recorded when Type of Service Requested is "Emergency Response (Primary Response Area)" and Patient Evaluation/Care is "Patient Evaluated and Care Provided".	14630	12.07%
	[3.5.0.230317CP4|nemSch_e067] Number of Patients at Scene should be "Multiple" or "Single" when Unit		

NEMSIS warnings, we have no control over. Committee is working to develop workarounds and best practices to reduce warnings.

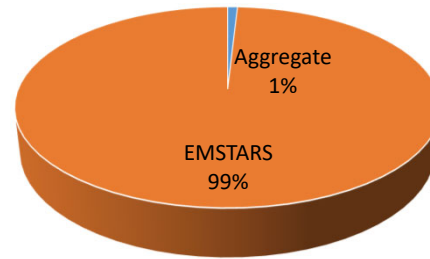| **Top 10**	Florida Warnings	Occurrence	% of Occurrence
	[3.5.0.211008CP3_FL_DOH_20240918|FL_33_eScene.01] First EMS Unit on Scene (eScene.01) cannot equal a NOT Value when Unit Arrived on Scene (eTimes.06) has a date/time value.	33396	27.55%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_180_eSituation.01] Date/Time of Symptom Onset/Last Normal (eSituation.01) cannot equal a NOT Value when Primary Symptom (eSituation.09) has a value other than a NOT VALUE.	27502	22.69%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_30_eResponse.10] Type of Scene Delay (eResponse.10) cannot equal a NOT Value when Unit Arrived on Scene (eTimes.06) has a date/time value.	26320	21.71%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_21_eResponse.09] Type of Response Delay (eResponse.09) cannot equal a NOT Value when En Route Date/Time (eTimes.05) has a date/time value.	22461	18.53%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_644_eTimes.09] Unit Left Scene Date/Time (eTimes.09) cannot equal a NOT Value when Unit Arrived on Scene Date/Time (eTimes.06) has a date/time value.	21688	17.89%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_328_eProcedures.11] Procedure Authorization (eProcedure.11) cannot be left blank when Procedure (eProcedures.03) has a valid SNOMED CT Code and no Pertinent Negatives.	18574	15.32%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_281_eVitals.23] Total Glasgow Coma Score (eVitals.23) cannot equal "Not Recorded", "Not Reported" or "Refused"	18184	15.00%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_36_eScene.06] Number of Patients at Scene (eScene.06) cannot equal a NOT Value when Unit Arrived on Scene (eTimes.06) has a date/time value.	17697	14.60%
	[3.5.0.211008CP3_FL_DOH_20240918|FL_1198_eProcedures.03] Procedure (eProcedures.03) should have a Florida Procedure List value.	17428	14.38%
10	[3.5.0.211008CP3_FL_DOH_20240918|FL_959_eResponse.11] Type of Transport Delay (eResponse.11) cannot equal a NOT Value when Transport Disposition (eDisposition.30) has a value of "Transport by This EMS Unit (This Crew Only)" or "Transport by This EMS Unit, with a Member of Another Crew" or "Transport by Another EMS Unit" or "Transport by Another EMS Unit, with a Member of This Crew" or "Non-Patient		

Florida Warnings, monitoring top 10 warnings and ways to improve. Will send out to agencies guides and information on their warnings

Objective 1.1.D

Increase the percentage of electronic patient care records (ePCR) submitted to the EMS Tracking and Reporting System (EMSTARS) from 79% to 95% by December 31, 2028.

Aggregate 1%

EMSTARS 99%

	2023	2024 Partial Qtr 4
EMSTARS/biospatial	4,979,499	4,792,977
Aggregate	111.500	56,306
Totals	5,090,999	4,849,283
% EMSTARS	98%	99%

336 Total Licensed Agencies
300 Agencies in EMSTARS –
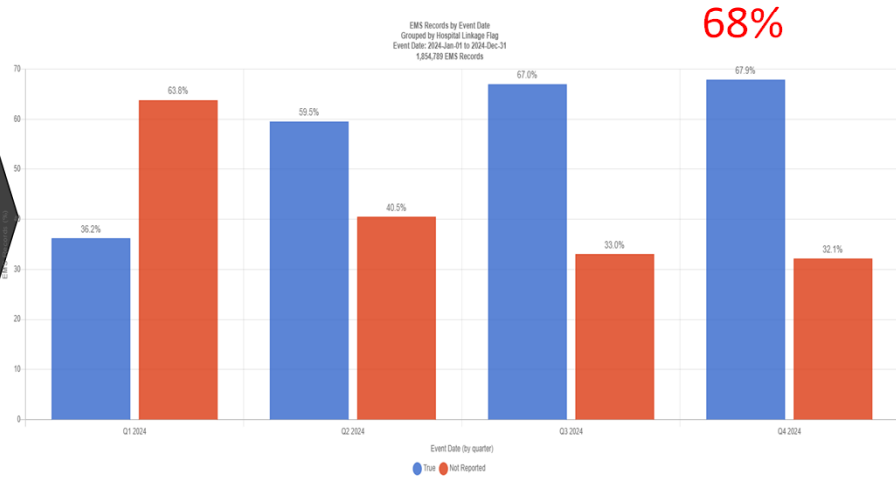　additional 10 subagencies
1 Pending
36 Aggregate

Goal achieved!

Objective 1.4.A

Increase the percentage of Health Information Exchange (HIE) outcome data matching to EMS records from 21% to 75% by December 31, 2028.

68%

EMS Records by Event Date
Grouped by Hospital Linkage Flag
Event Date: 2024-Jan-01 to 2024-Dec-31
1,854,789 EMS Records

Q1 2024: 36.2% / 63.8%
Q2 2024: 59.5% / 40.5%
Q3 2024: 67.0% / 33.0%
Q4 2024: 67.9% / 32.1%

Event Date (by quarter)
● True ● Not Reported

HIE is up to 68% currently. State has a bid out for a HIE vendor. This will allow us to renegotiate the rates that we match and what information is collected.

Tactics/Action

Activity Description	Person Responsible	Date	Activity Status
Activity/Intervention being carried out to address objective	**Staff position responsible for carrying out or accountable for activity**		**Status of the indicator (Please see bottom of page for descriptions of selection choices)**
• Identify/confirm HIE data matching elements	BEMO/Data Unit	2/1/25	On Track
• Collaborate with ACHA vendor and Conduct analysis of data matching problem areas/elements	BEMO/Data Unit	3/1/25	On Track
• Develop business rules to improve quality of matching elements	BEMO/Data Unit , Data Committee	4/1/25	On Track
• Implement communication/feedback process for matching issues	BEMO/Data Unit	4/1/25	On Track

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Plan for HIE,

If a new company is awarded the bid we are looking to add information like procedures and insurance information.

DOH keeps a copy which allows us to use for research and data development,

Medical examiners data- can we access and how is it used

Research/Publication Related

Objective 1.5.A – Increase the number of peer-reviewed EMS-related journal articles to which the Department contributed from 0 to 25 by December 31, 2028.

Objective 5.1.A – Increase the number of EMS research projects that the Department participates in from 3 to 5 by December 31, 2028.

Objective 5.2.B – Increase the number of predictive analytical reports from 0 to 10 by December 31, 2028.

Need Draft action plan to further accomplishment of strategic objectives assigned.

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Looking for ideas on research. You can also reach out to the data committee for any information needed for your research.

Send any request to Brenda.

Objective 5.2.C

Increase the number of collaborative programs with county health departments bi-directionally exchanging bio-surveillance data with EMS providers to identify emerging health threats from 1 to 67 by December 31, 2028.

Tactics/Actions

Activity Description	Person Responsible	Date	Activity Status
Activity/Intervention being carried out to address objective	Staff position responsible for carrying out or accountable for activity		Status of the indicator (Please see bottom of page for descriptions of selection choices)
• Review EMS Survey questions to determine needed modifications/additions	Data Committee	1/30/25	On Track
• Coordinate with ESSENSE Team to determine current collaborative activities in County Health Departments	BEMO	3/1/25	On Track

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Potential Changes/Additions to EMS Survey

- As FL ranks # in MC Deaths in FL, would like to add a couple of things.

- Workforce question should be changed on page 3. Instead of saying shortage of EMTs/ Paramedics, maybe something like "operating at staffing levels under a full roster". I think the term "staffing shortage" has been demonized over the past few years.

- On page 9 for the stroke questions. With ACFR introducing the mobile stroke unit to Florida, and providing that resource to neighboring counties; and with other agencies beginning to look at this model; could we add a question or two about agencies that have a mobile stroke truck, agencies that use mutual aid for a stroke truck and agencies that are actively pursuing adding a stroke truck to their response fleet.

- For the mental wellness questions, K9 programs are becoming more and more popular. There is only one mention of a K9 program in the survey as a multiple choice answer to a question about what programs are offered. Perhaps adding a question like, if your agency has a K9 program, how are they utilized? station dogs, trained therapy dogs, deployable with peer support, etc.

- Suggest a question(s) on Agency participation in PI programs for our Comprehensive Stroke and Trauma centers.

  - Do they participate?
  - How do they participate (regular attendance or invitation for specific events to EMS Chief and/or EMS Medical Director?)

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Develop survey questions for the survey related to the above. Send survey questions you would like to addd to Brenda as soon as possible. Hope to have the survey out by the June meeting.

Tactics/Actions

Goal 1.4

Enhance Data Systems and Linkages to Provide the Infrastructure to Facilitate Data Driven Advancement of EMS Care

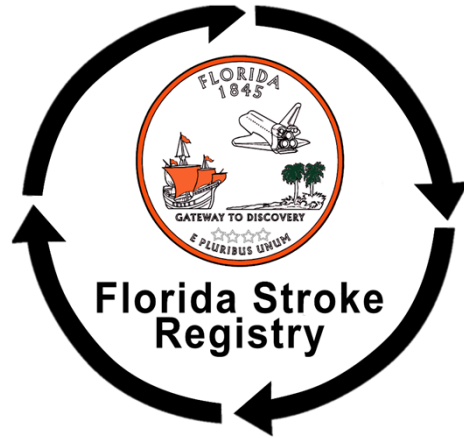| Activity Description	Person Responsible	Date	Activity Status
Activity/Intervention being carried out to address objective	Staff position responsible for carrying out or accountable for activity		Status of the indicator (Please see bottom of page for descriptions of selection choices)
• Complete planned bidirectional link with Florida Stroke Registry	BEMO/FSR	1/1/26	On Track
• Reestablishment of Crash Record Linkage via a new MOU	BEMO/HSMV	3/1/25	On Track
• Implement Cares Export	BEMO	2/1/25	On Track

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Data Linkage plan-

CARES Integration Business Rules

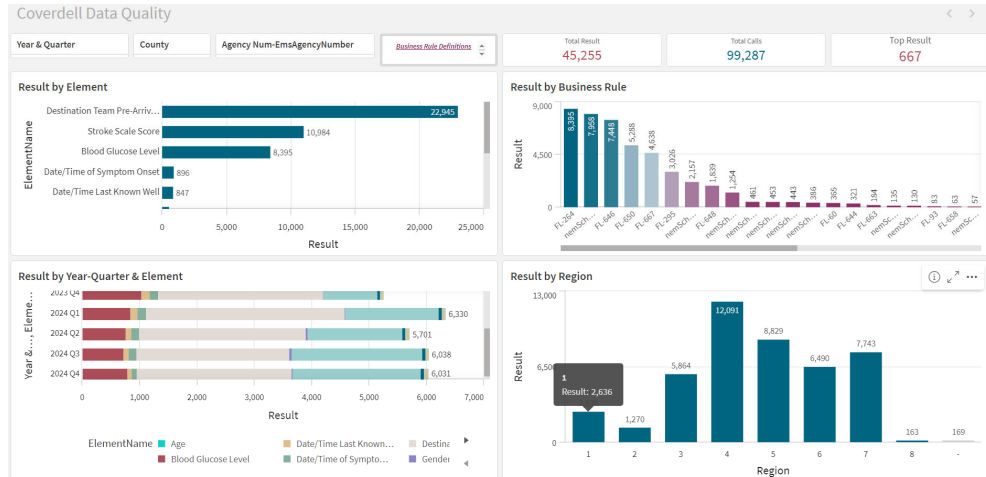| Cares Recommended Rules	Recommended Rule Type	Florida Business Rule	Associated Element
If any eScene.ResponderGroup contains eScene.03 but none of the ResponderGroup elements contain eScene.24 = Yes(9923003), a warning should be issued	Warning	If Other EMS or Public Safety Agencies at Scene (eScene.02) or Other EMS or Public Safety Agency ID Number (eScene.03) Has a value then First Other EMS or Public Safety Agency at Scene to Provide Patient Care (eScene.24) should Have a value "Yes" or "No"	eScene.24
If CPR was initiated by the first responder (eArrest.20 is 3020007, 3020009, or 3020011), there must be a eScene.ResponderGroup with eScene.03 and eScene.24 = Yes (9923003). Otherwise, an error should be issued	Error	If Who First Initiated CPR(eArrest.20) has a value of ("3020007" or "3020009", or "3020011") then there must be at least one First Other EMS or Public Safety Agency at Scene to Provide Patient Care(eScene.24) has a value "Yes"	eArrest.20
If AED was first applied by the first responder (eArrest.21 is 3021007, 3021009, or 3021011), there must be a eScene.ResponderGroup with eScene.03 and eScene.24 = Yes (9923003). Otherwise, an error should be issued	Error	If Who First Applied the AED(eArrest.21) has a value of ("3021007" or "3021009", or "3021011") then there must be at least one First Other EMS or Public Safety Agency at Scene to Provide Patient Care(eScene.24) has a value "Yes"	eArrest.21
If the patient was first defibrillated by the first responder (eArrest.22 is 3022007, 3022009, or 3022011), there must be a eScene.ResponderGroup with eScene.03 and eScene.24 = Yes (9923003). Otherwise, an error should be issued.	Error	If Who First Defibrillated the Patient(eArrest.22) has a value of ("3022007" or "3022009", or "3022011"), there must be at least one First Other EMS or Public Safety Agency at Scene to Provide Patient Care(eScene.24) has a value "Yes"	eArrest.22
Multiple eScene.ResponderGroup elements containing eScene.03 and eScene.24 = Yes (9923003) should produce a warning.	Warning	in case of a multiple eScene.ResponderGroup only one First Other EMS or Public Safety Agency at Scene to Provide Patient Care(eScene.24) can be recorded as "Yes" all other First Other EMS or Public Safety Agency at Scene to Provide Patient Care(eScene.24) should be recorded as "No"	eScene.24

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CARES integration will require new business rules. Will look to implement these 5 rules around the first few months of this year.

Dr. Carolina M. Gutierrez

Presentation from Dr. Gutierrez on the Stroke Registry slides 19-24

Coverdell Measure Dashboard

Dashboard is not yet available to agencies

Florida Stroke Registry EMS Dashboard
12 proposed measures reflecting a
system of stroke care

Pre-Hospital (EMSTARS data)
1. % documentation of Last Know Well
2. % documentation of Blood Glucose
3. % documentation of Stroke Screen

"Acute Stroke Measures" (EMSTARS linked to GWTG-S acute stroke data)
1. % final diagnosis stroke (EMS Stroke Alerts compared to in-hospital stroke diagnosis)
      (AIS within 24 hrs)
2. % final diagnosis stroke that received IVT
3. % final diagnosis stroke that received EVT
4. % final diagnosis stroke that received Both
5. % final diagnosis stroke discharge HOME
6. % final diagnosis stroke discharge Rehab
7. % final diagnosis stroke Died In Hospital

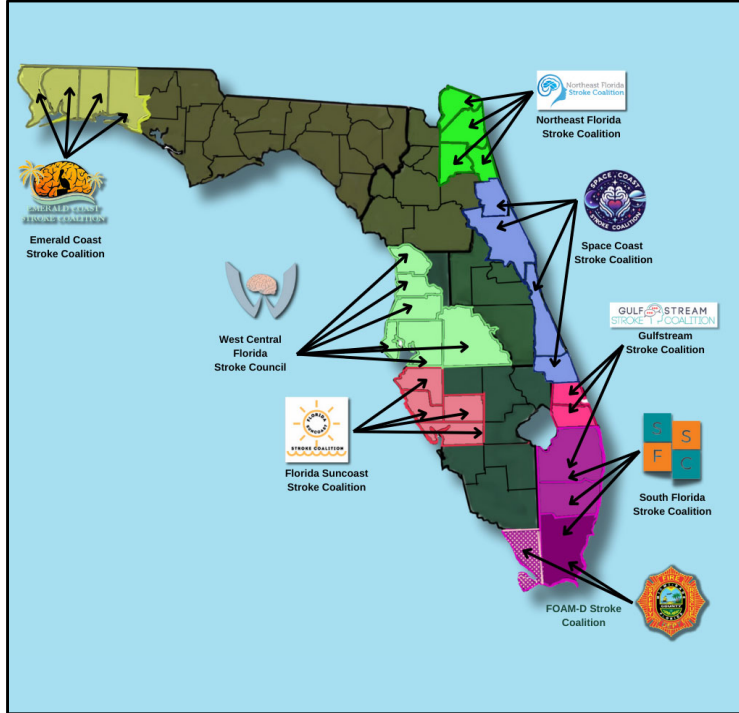**Outcome Measures (EMSTARS linked to GWTG-S linked to AHCA**
1. % final diagnosis stroke returned to hospital in 90 days
2. % final diagnosis stroke died in 90 days

Florida Stroke Registry EMS Dashboard
proposed dissemination
and application methods

- **Timeline**: Quarterly quality improvement reports composed local EMS blinded performance data
- **Dissemination:** In collaboration with BEMO, FSR will notify EMS medical directors of the latest report, code representing the blinded data (agency)
- **Application**: Suggested to be reviewed in local stroke coalition meetings
- **Data-level**: Recommended Agency-specific, blinded, benchmarked by the county/region and state
- **Purpose**: Collaborative review will enhance communication and data transparency between EMS and hospitals
- Contact us with feedback and suggestions- flstrokeregistry@miami.edu

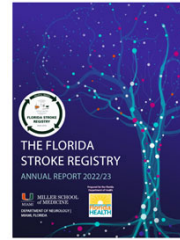# Applied in Local Stroke Coalitions Recognized by the FSR

- FSR Regional Dashboards are provided only to hospitals and EMS systems participating in FSR recognized stroke coalitions (8 to date)
- County/Region-specific hospital reperfusion performance measures are displayed side-by-side allowing comparison across (blinded) local stroke centers and benchmarked by neighboring counties and the state.

Emerald Coast Stroke Coalition

Northeast Florida Stroke Coalition

Space Coast Stroke Coalition

West Central Florida Stroke Council

Gulfstream Stroke Coalition

Florida Suncoast Stroke Coalition

South Florida Stroke Coalition

FOAM-D Stroke Coalition

Thank you

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Email: flstrokeregistry@miami.edu
Website:
https://floridastrokecollaboration.org/

Want More FSR?
View Our Annual
Report Here

Chief Debo gave a presentation on NIFRS in biospatial. This will serve as a back up for NFIRS. NIFRS will sunset at some point, this allows record retention for a greater period. Can be used to pull look at civilian casualties and other queries. EMS based will have easy access. Non EMS Fire will have to request access.

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Open Discussion - Mobile Stroke Unit Procedure/Med codes

Here are the CPT codes for items / care provided on the MSTU.

- **Head CT without contrast: 70450**
- **PT w/INR: 85610**
- **HgB: 85018**
- **POCT Glucose: 82947**
- **BMP: 80047**

For the injections IV meds, would use one of the following CPTs, depending on what other (injectable) meds were given during the encounter: 96374, 96375, 96376.

Intravenous infusion (procedure)
SCTID: 14152002

Intravenous infusion of thrombolytic (procedure)
SCTID: 307521008

Computed tomography of head without contrast (procedure)
SCTID: 383371000119108

Laboratory blood sugar (procedure)
SCTID: 166896004

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Collaborating with the MSTU on new codes

Florida's V3.5 Implementation

Have you transitioned to V3.5?

61 agencies still on V3.4

3.4 NEMSIS timeline

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Need agencies on 3.4 to move to 3.5

V3.5 Implementation

Vendor State of Readiness

12 vendors validated to submit V3.5

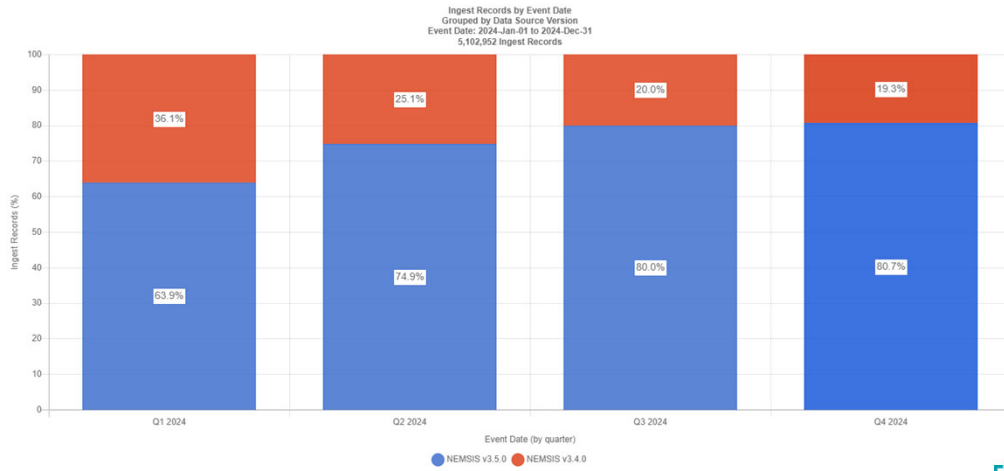| Vendor	Validated
ESO Solutions	Yes
First Due	Yes
Zoll -Rescue net	Yes
Image Trend, Inc.	Yes
Documed	Yes
EMSCharts, Inc.	Yes
SafetyPad	
American Medical Response	
Digitech	Yes
EPR Systems USA Inc	Yes
Truamasoft LLC	Yes
Emergency Reporting	
Emergency Networking	Yes
EMS Consultants Ltd.	
Cloud PCR LLC	
Metro pcr - Saffire Software	Yes
Stryker formerly Physio-Control (Sansio)	
Creatie EMS	
FIREHOUSE Software, A Xerox Solution	
Beyond Lucid	Yes

Grant V3.5 Objective - Of those EMS Runs submitted to EMSTARS; Increase % of NEMSIS V3.5 or higher to 95% by December 2025.
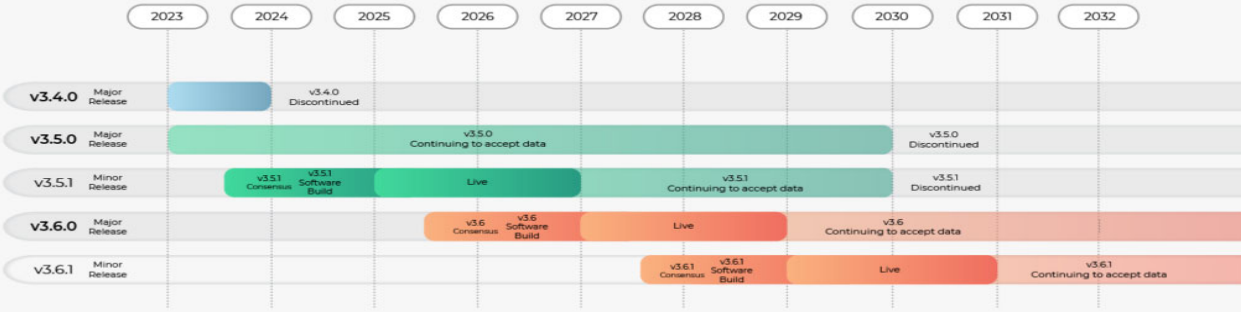
V3.5   81% of runs

Ingest Records by Event Date
Grouped by Data Source Version
Event Date: 2024-Jan-01 to 2024-Dec-31
5,102,952 Ingest Records

Quarter	NEMSIS v3.5.0	NEMSIS v3.4.0
Q1 2024	63.9%	36.1%
Q2 2024	74.9%	25.1%
Q3 2024	80.0%	20.0%
Q4 2024	80.7%	19.3%

Event Date (by quarter)

● NEMSIS v3.5.0 ● NEMSIS v3.4.0

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EMS Data Standard Versioning 10-Year Project Plan

NEMSIS may not take 3.4 past this year.

NEMSIS 3.5.1

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What's in V3.5.1

• New Elements	12
• Definition Change	15
• New Field Value/code list/PN	16
• Field Description /Name	3
• Field Value Change	4
• Field Value Description	7
• Data Element Comment Change	7
• Data Element Comment Change URL	25
• Pattern change	4

Subcommittee Review

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Changes in 3.5.1 slides 33-64

New Element

dAgency.27

Add New Element

Description:
Element number: dAgency.27
Element name: Licensed Agency

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Adding an new element

NEMSIS Version 3.5.1.240801CR1

dAgency.27

dAgency.27 - Licensed Agency

Definition

Indication if the agency is licensed by the state that issued the EMS Agency Number (dAgency.02).

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0 : 1

Code List

Code	Description
9923001	No
9923003	Yes

Data Element Comment

Associated with each of the EMS Agency Number (dAgency.02).

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dRecord.01

Add New Element

Description:
Element number: dRecord.01
Element name: Software Creator

dRecord.01 - Software Creator

Definition

The name of the vendor who designed the application that created the record for the agency listed in dAgency02.

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Constraints

Data Type	minLength	maxLength
string	1	50

Data Element Comment

This was added to document the software used to generate the Demographic XML file. This is not the last software which sent the demographic file from another software.

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dRecord.02

Add New Element

Description:
Element number: dRecord.02
Element name: Software name

dRecord.02

dRecord.02 - Software Name

Definition

The name of the application used to create the record for the agency listed in dAgency.02.

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Constraints

Data Type	minLength	maxLength
string	1	50

Data Element Comment

This was added to document the software used to generate the Demographic XML file. This is not the last software which sent the demographic file from another software.

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dRecord.03

Add New Element

Description:
Element number: dRecord.03
Element name: Software Version

dRecord.03

dRecord.03 - Software Version

Definition
The version of the application used to create the record for the agency listed in dAgency.02.

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes
NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Constraints
Data Type	minLength	maxLength
string	1	50

Data Element Comment
This was added to document the software version used to generate the Demographic XML file. This is not the last software which sent the demographic file from another software.

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eMedications.13

Add new element

Description:
Element Number: eMedication.13
Element Name: Medication Administered by Another Unit

eMedications.13

State

eMedications.13 - Medication Administered by Another Unit

Definition

Indicates the medication was administered by someone other than the EMS clinicians in this EMS unit. This is not for prior to arrival medications, but for medications administered when multiple units/caregivers are on scene simultaneously providing patient care.

National Element	No	Pertinent Negatives (PN)	No
State Element	Yes	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Code List

Code	Description
9923001	No
9923003	Yes

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eOutcome.21

Add New Element

Description:

Element number: eOutcome.21

Element name: Injury Severity Score

This is not for EMS Clinicians to complete. This would be a spot for the information to be populated by Information exchange. This would come from ER records, and be utilized by Trauma Registries, ACS, Traffic Data

Not intended for EMS to use

ePatient.23

Add New Element

Description:
Element number: ePatient.23
Element name: Name Suffix

NEMSIS Version 3.5.1.240801CR1

ePatient.23 - Name Suffix

Definition

The patient's name component following family name that may be used to describe a person's position in a family.

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0 : 1

Constraints

Data Type	minLength	maxLength
string	1	50

Data Element Comment

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ePatient.24

Add New Element

Description:
Element number: ePatient.24
Element name: Patient's Preferred Language

ePatient.24

ePatient.24 - Patient's Preferred Language

Definition			
The patient's preferred language.			
National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0 : M

Attributes

CorrelationID
Data Type: string   **minLength:** 2   **maxLength:** 255

Code List

Code	Description
amh	Amharic
ara	Arabic
arm	Armenian
ben	Bengali
crp	Cajun (Creole and Pidgins)
chi	Chinese

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eProcedures.14

Add New Element

Description:
Element number: eProcedures.14
Element name: Airway Placement Technique

eProcedures.14

State

eProcedures.14 - Airway Placement Technique

Definition

The manner/equipment used during the placement of the advanced airway.

National Element	No	Pertinent Negatives (PN)	No
State Element	Yes	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : M

Associated Performance Measure Initiatives

Airway

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

CorrelationID
Data Type: string   **minLength:** 2   **maxLength:** 255

Code List

Code	Description
3914001	Blind Digital Technique
3914003	Cross Finger Technique
3914005	Direct Laryngoscopy
3914007	Fiberoptic Laryngoscopy
3914009	Indirect Laryngoscopy
3914011	Video Laryngoscopy

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eProcedures.15

Add New Element

Description:
Element number: eProcedures.15
Element name: Procedure Performed by Another Unit

eProcedures.15

State

eProcedures.15 - Procedure Performed by Another Unit

Definition

Indicates the procedure was performed by someone other than the EMS clinicians in this EMS unit. This is not for prior to arrival procedures, but for procedures performed when multiple units/caregivers are on scene simultaneously providing patient care.

National Element	No	Pertinent Negatives (PN)	No
State Element	Yes	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Code List

Code	Description
9923001	No
9923003	Yes

Data Element Comment

This is the method to document when care is provided by others when multiple units are present at the scene.

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eScene.25

Add New Element

Description:
Element number: eScene.25
Element name: Transferred Patient/Care To/From Agency

State

eScene.25 - Transferred Patient/Care To/From Agency

Definition

Whether primary responsibility for the care of the patient was transferred in the field to or from the EMS agency listed in eScene.02.

National Element	No	Pertinent Negatives (PN)	No
State Element	Yes	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Code List

Code	Description
2725001	Transferred Patient to Agency
2725003	Received Patient from Agency
2725005	No Transfer of Patient/Care To/From Agency

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eVitals.34

Add New Element

Element number: eVitals.34
Element name: Stroke Severity Score

eVitals.34

State

eVitals.34 - Stroke Severity Score

Definition			
The stroke severity value associated with the stroke scale type listed in eVitals.30.			
National Element	No	Pertinent Negatives (PN)	Yes
State Element	Yes	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Recommended	Recurrence	0 : 1

Associated Performance Measure Initiatives
Stroke

Attributes

NOT Values (NV)
7701001 - Not Applicable   7701003 - Not Recorded

Pertinent Negatives (PN)
8801023 - Unable to Complete

Constraints

Data Type	minInclusive	maxInclusive
integer	0	42

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Definition Change

Element Number : dContact.16

Element Number : eArrest.14

Element Number : eArrest.03

Element Number : eDispatch.03

Element Number : eDisposition.19

Element Number : eDisposition.20

Element Number : eDisposition.27

Element Number : eHistory.01

Element Number : eLabs.01

Element Number : eOther.19

Element Number : eOther.20

Element Number : eOther.21

Element Number : ePatient.15

Element Number : eScene.02

Element Number : eTimes.13

New Field Values

Element Number : dPersonnel.13

Element Number : dPersonnel.20

Element Number : eAirway.08

Element Number : eArrest.14

Element Number : eDispatch.01

Element Number : eDisposition.14

Element Number : eDisposition.31

Element Number : eExam.13

Element Number : eExam.16

Element Number : eHistory.17

Element Number : eOther.06

Element Number : ePatient.14

Element Number : ePatient.15

Element Number : eProcedures.15

Element Number : eResponse.09

Element Number : eVitals.30

Field Value Change

Element Number : eAirway.08

Element Number : eLabs.03

Element Number : ePatient.15

Element Number : eSituation.18

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Field Description Change

Element Number : dContact.16

Element Number : eDispatch.03

Element Number : eDisposition.19

Field Value Description Change

Element Number : eArrest.09

Element Number : eDisposition.30

Element Number : eExam.24

Element Number : eExam.25

Element Number : eHistory.20

Element Number : eLabs.05

Element Number : eScene.04

Data Element Comment Change

Element Number : dAgency.04

Element Number : eDisposition.19

Element Number : eDisposition.20

Element Number : eOutcome.02

Element Number : ePayment.09

Element Number : eResponse.05

Element Number : eSituation.19

Data Element Comment URL Change

Element Number : dAgency.07
Element Number : dContact.09
Element Number : dPersonnel.08
Element Number : dPersonnel.13
Element Number : dPersonnel.14
Element Number : eArrest.01
Element Number : eArrest.10
Element Number : eArrest.20
Element Number : eArrest.21
Element Number : eArrest.22
Element Number : eDispatch.05
Element Number : eDisposition.08
Element Number : eOutcome.01

Element Number : ePatient.11
Element Number : ePatient.14
Element Number : ePayment.16
Element Number : ePayment.30
Element Number : ePayment.38
Element Number : eScene.02
Element Number : eScene.03
Element Number : eScene.22
Element Number : eScene.23
Element Number : eScene.24
Element Number : eSituation.13
Element Number : eSituation.14

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Update Regex Pattern

Element Number : eSituation.09

Element Number : eSituation.10

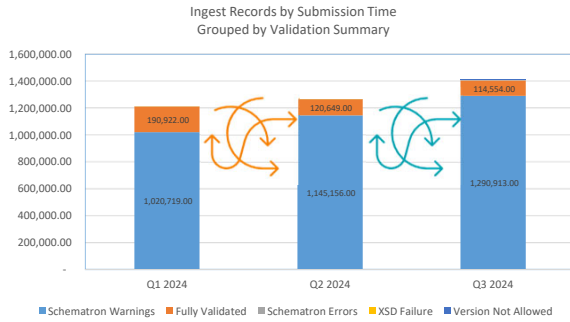Element Number : eSituation.11

Element Number : eSituation.12

All of these elements need to be added to the data dictionary.

Continuing the Data Quality Focus

Data quality

EMS Data Collection

Ingest Records by Submission Time
Grouped by Validation Summary

1,600,000.00	
1,400,000.00	
1,200,000.00	114,554.00
1,000,000.00	
800,000.00	
600,000.00	
400,000.00	
200,000.00	
-	

Q1 2024: 190,922.00 / 1,020,719.00
Q2 2024: 120,649.00 / 1,145,156.00
Q3 2024: 114,554.00 / 1,290,913.00

■ Schematron Warnings ■ Fully Validated ■ Schematron Errors ■ XSD Failure ■ Version Not Allowed

DATA CONCERNS

- Are we getting all the data?
- Is the data we are collecting correct?
- Is it valuable?
- Are we getting it on time?

Can we make decisions based on this data?

V3.5....

Data Quality Improvement Efforts

DATA QUALITY METRICS

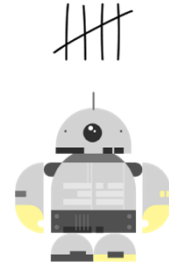| COMPLETENESS	ACCURACY	TIMELINESS	RELEVANCE
Data Submission Completeness Measure (based on predictive average call volume) • Ratio of submitted records received to the expected number of records to be submitted to biospatial **>90% – 5** **89%-80% – 4** **79%-69% – 3** **68%-50% – 2** **<50% – 1**	Business Rule Adherence Measure • % fully validated • % 1-5 warnings • % >5 warnings • % errors	Submission Timeliness Measure • % received within 12 hours of event • % of monthly demographic submissions	Business Rule Adherence to a Specific Performance Measure and Its Elements • Like the accuracy but focuses on measuring accuracy of elements within the selected performance measures • Can be expanded to clinical

Metrics for Data Quality. If you have ESO you will have a challenge in the getting the information in on time. ESO is working on this issue.

Take Aways

- **Low Validation scores**
  - **In some cases, state schematron not implemented**

- **Poor policy adherence to demographic data submissions**

- **Targeted data element issues in Coverdell measures**

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Next Steps

- **Created regional views**

- **Regional coordinators to track**

- **What would you like to see?????**

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NASEMSO Data Managers Council (DMC)

**Blood Product Administration
Documentation
Best Practice Guidance Proposal
Discussion**

Blood product administration in out-of-hospital settings is gaining attention for its life saving potential.

Need for consistent and reliable data is necessary to fully capture its benefits in this setting.

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How to Document Blood Product Administration

Step 1: Document blood products were given as a Procedure and complete corresponding Procedure elements

116859006   **Transfusion of blood product**

Step 2: Document the specific blood product administered and complete the corresponding Medication elements

116795008	Transfusion of cryoprecipitate	Cryoprecipitate
116861002	Transfusion of fresh frozen plasma	Fresh frozen plasma
116865006	Administration of albumin	Albumin
180208003	Intravenous blood transfusion of platelets	Platelets
33389009	Transfusion of whole blood	Whole blood
71493000	Transfusion of packed red blood cells	Packed red blood cells (RBC)

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Process for documenting blood products. One (1) procedure per blood product. If the product you use is not on the list please get with Brenda

Other Data Quality or coding issues

Ideas for next meeting?

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Open Discussion

We appreciate your continued support.

Brenda Clotfelter

Data Unit / Bureau of Emergency Medical Oversight

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Meeting Participant List

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