

M A S S A C H U S E T T S
OFFICE OF EMERGENCY MEDICAL SERVICES
 DEPARTMENT OF PUBLIC HEALTH

ADMINISTRATIVE REQUIREMENT MANUAL

EFFECTIVE DATE: June 15, 2023 **AUTHORIZATION:** Susan Lewis, Acting Director

TITLE: Statewide EMS Minimum Data Set

SUPERSEDES: November 1, 2022

Purpose:

- 1) To define the minimum data elements pertaining to each EMS call that ambulance services must ensure their EMS personnel are documenting in all patient care reports, as required by 105 CMR 170.345, and which ambulance services must timely submit to the Department of Public Health (Department), in accordance with 105 CMR 170.347, and this administrative requirement (AR).
- 2) To define the minimum data elements that ambulance services are required to submit to the Department as template information at least annually, or as the information changes, in accordance with 105 CMR 170.347, and this administrative requirement.

Background:

Under M.G.L. c. 111C, §3(b)(15), the Department, as lead agency for EMS in the Commonwealth, is charged with the collection and maintenance of standardized patient data and information by ambulance services, which services must ensure their EMTs are collecting on a patient care report. The minimum EMS data set defined in this AR is being updated to align with the most current version available nationally and is based on the National EMS Information System Dataset (NEMSIS), as set out in the **MATRIS NEMSIS Data Dictionary Version 3.5.0**. The MATRIS data dictionary is derived from the 640 elements in the NEMSIS V3.5.0 data dictionary.

Transition Period Timeline:

- (A) By June 15, 2023, MATRIS will be ready to accept NEMSIS V3.5 data. At that point, ambulance services may begin submitting data, in accordance with all the requirements of this AR, directly to the MATRIS website, <https://matris.imagetrendelite.com/Elite/Organizationmatris/>, or import from third-party software that has passed NEMSIS V3.5.0 compliance testing for ambulance services, as documented on the NEMSIS website [here](#). However, **prior to beginning submission of NEMSIS V3.5.0 data, services must submit any NEMSIS V3.4.0 data they have not yet submitted.**
- (B) Until September 30, 2023, services may continue to submit NEMSIS V3.4.0. As of October 1, 2023, all services will be required to submit data in accordance with the new NEMSIS V3.5.0 standard, and all requirements of this AR.

Submission:

- (A) Ambulance services must submit data, in accordance with all the requirements of this AR, directly to the MATRIS NEMSIS website, <https://matris.imagetrendelite.com/Elite/Organizationmatris/>, in accordance with the transition period timeline above; or
- (B) Ambulance services must import from third-party software that has passed NEMSIS V3.5.0 compliance testing for EMS agencies as documented on the NEMSIS website [here](#).
- (C) The minimum information required by this AR for each EMS call must be submitted to the Department within 7 days of the call, via import or direct on-line data entry, to the MATRIS NEMSIS V3.4.0 website, at <https://matris.imagetrendelite.com/Elite/Organizationmatris/>

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Data Elements

(A) Each NEMSIS V3.5.0 patient care report shall at a minimum include the following information about the EMS call that it documents. The definitions, values and configuration information for each of these elements are available in the Massachusetts Ambulance Trip Record Information System (MATRIS) NEMSIS V3.5.0 data dictionary, which can be found on the Department’s website at www.mass.gov/dph/oems/matris. All but one of the MATRIS data requirements are derived from the 640 elements in the NEMSIS Data Dictionary Version 3.5.0. A custom state element to collect the numeric stroke scale score value is also included, itVitals.055.

For reference, the list below includes the NEMSIS Element Number and the Element Name in the MATRIS V3.5.0 and NEMSIS data set, as well as the designation of National Element if the data element is included in the NEMSIS electronic Patient Care Record (ePCR) minimum data set.

	Element Number	Element Name	National
1	eAirway.03	Airway Device Being Confirmed	
2	eAirway.04	Airway Device Placement Confirmed Method	
3	eAirway.08	Airway Complications Encountered	
4	eAirway.09	Suspected Reasons for Failed Airway Management	
5	eArrest.01	Cardiac Arrest	National
6	eArrest.02	Cardiac Arrest Etiology	National
7	eArrest.03	Resuscitation Attempted By EMS	National
8	eArrest.04	Arrest Witnessed By	National
9	eArrest.07	AED Use Prior to EMS Arrival	National
10	eArrest.09	Type of CPR Provided	National
11	eArrest.11	First Monitored Arrest Rhythm of the Patient	National
12	eArrest.12	Any Return of Spontaneous Circulation	National
13	eArrest.14	Date/Time of Cardiac Arrest	National
14	eArrest.16	Reason CPR/Resuscitation Discontinued	National
15	eArrest.17	Cardiac Rhythm on Arrival at Destination	National
16	eArrest.18	End of EMS Cardiac Arrest Event	National
17	eArrest.20	Who First Initiated CPR	National
18	eArrest.21	Who First Applied the AED	National
19	eArrest.22	Who First Defibrillated the Patient	National
20	eCrew.01	Crew Member ID	
21	eCrew.02	Crew Member Level	

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22	eDispatch.01	Complaint Reported by Dispatch	National
23	eDispatch.02	EMD Performed	National
24	eDisposition.01	Destination/Transferred To, Name	
25	eDisposition.02	Destination/Transferred To, Code	
26	eDisposition.03	Destination Street Address	
27	eDisposition.04	Destination City	
28	eDisposition.05	Destination State	National
29	eDisposition.06	Destination County	National
30	eDisposition.07	Destination Zip Code	National
31	eDisposition.08	Destination Country	
32	eDisposition.16	EMS Transport Method	National
33	eDisposition.17	Transport Mode from Scene	National
34	eDisposition.18	Additional Transport Mode Descriptors	National
35	eDisposition.19	Final Patient Acuity	National
36	eDisposition.20	Reason for Choosing Destination	National
37	eDisposition.21	Type of Destination	National
38	eDisposition.22	Hospital In-Patient Destination	National
39	eDisposition.23	Hospital Capability	National
40	eDisposition.24	Destination Team Pre-Arrival Alert or Activation	National
41	eDisposition.25	Date/Time of Destination Prearrival Alert or Activation	National
42	eDisposition.27	Unit Disposition	National
43	eDisposition.28	Patient Evaluation/Care	National
44	eDisposition.29	Crew Disposition	National
45	eDisposition.30	Transport Disposition	National
46	eDisposition.31	Reason for Refusal/Release	
47	eDisposition.32	Level of Care Provided per Protocol	National
48	eExam.01	Estimated Body Weight in Kilograms	
9	eExam.02	Length Based Tape Measure	
50	eExam.19	Mental Status Assessment	
51	eExam.20	Neurological Assessment	
52	eExam.21	Stroke/CVA Symptoms Resolved	
53	eHistory.01	Barriers to Patient Care	National
54	eHistory.02	Last Name of Patient's Practitioner	
55	eHistory.03	First Name of Patient's Practitioner	

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56	eHistory.05	Advance Directives	
57	eHistory.17	Alcohol/Drug Use Indicators	National
58	eInjury.01	Cause of Injury	National
59	eInjury.03	Trauma Triage Criteria (Steps 1 and 2)	National
60	eInjury.04	Trauma Triage Criteria (Steps 3 and 4)	National
61	eInjury.05	Main Area of the Vehicle Impacted by the Collision	
62	eInjury.06	Location of Patient in Vehicle	
63	eInjury.07	Use of Occupant Safety Equipment	
64	eInjury.08	Airbag Deployment	
65	eInjury.09	Height of Fall (feet)	
66	eMedications.01	Date/Time Medication Administered	National
67	eMedications.02	Medication Administered Prior to this Unit's EMS Care	National
68	eMedications.03	Medication Given	National
69	eMedications.04	Medication Administered Route	National
70	eMedications.05	Medication Dosage	National
71	eMedications.06	Medication Dosage Units	National
72	eMedications.07	Response to Medication	National
73	eMedications.08	Medication Complication	National
74	eMedications.10	Role/Type of Person Administering Medication	National
75	eNarrative.01	Patient Care Report Narrative	
76	eOther.05	Suspected EMS Work Related Exposure, Injury, or Death	
77	eOther.06	The Type of Work-Related Injury, Death or Suspected Exposure	
78	eOther.07	Natural, Suspected, Intentional, or Unintentional Disaster	
79	eOutcome.01	Emergency Department Disposition	National
80	eOutcome.02	Hospital Disposition	National
81	ePatient.02	Last Name	
-82	ePatient.03	First Name	
83	ePatient.05	Patient's Home Address	
84	ePatient.06	Patient's Home City	
85	ePatient.07	Patient's Home County	National
86	ePatient.08	Patient's Home State	National

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87	ePatient.09	Patient's Home Zip Code	National
88	ePatient.10	Patients Country of Residence	
89	ePatient.13	Gender	National
90	ePatient.14	Race	National
91	ePatient.15	Age	National
92	ePatient.16	Age Units	National
93	ePatient.17	Date of Birth	
94	ePatient.22	Alternate Home Residence	
95	ePayment.01	Primary Method of Payment	National
96	ePayment.50	CMS Service Level	National
97	eProcedures.01	Date/Time Procedure Performed	National
98	eProcedures.02	Procedure Performed Prior to this Unit's EMS Care	National
99	eProcedures.03	Procedure	National
100	eProcedures.05	Number of Procedure Attempts	National
101	eProcedures.06	Procedure Successful	National
102	eProcedures.07	Procedure Complication	National
103	eProcedures.08	Response to Procedure	National
104	eProcedures.10	Role/Type of Person Performing the Procedure	National
105	eProtocols.01	Protocols Used	National
106	eProtocols.02	Protocol Age Category	National
107	eRecord.01	Patient Care Report Number	National
108	eRecord.02	Software Creator	National
109	eRecord.03	Software Name	National
110	eRecord.04	Software Version	National
111	eResponse.01	EMS Agency Number	National
112	eResponse.03	Incident Number	National
113	eResponse.04	EMS Response Number	National
114	eResponse.05	Type of Service Requested	National
115	eResponse.07	Unit Transport and Equipment Capability	National
116	eResponse.08	Type of Dispatch Delay	National
117	eResponse.09	Type of Response Delay	National
118	eResponse.10	Type of Scene Delay	National
119	eResponse.11	Type of Transport Delay	National
120	eResponse.12	Type of Turn-Around Delay	National
121	eResponse.13	EMS Vehicle (Unit) Number	National

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122	eResponse.14	EMS Unit Call Sign	National
123	eResponse.16	Vehicle Dispatch Location	
124	eResponse.23	Response Mode to Scene	National
125	eResponse.24	Additional Response Mode Descriptors	National
126	eScene.01	First EMS Unit on Scene	National
127	eScene.06	Number of Patients at Scene	National
128	eScene.07	Mass Casualty Incident	National
129	eScene.08	Triage Classification for MCI Patient	National
130	eScene.09	Incident Location Type	National
131	eScene.10	Incident Facility Code	
132	eScene.11	Scene GPS Location	
133	eScene.12	Scene US National Grid Coordinates	
134	eScene.13	Incident Facility or Location Name	
135	eScene.15	Incident Street Address	
136	eScene.16	Incident Apartment, Suite, or Room	
137	eScene.17	Incident City	
138	eScene.18	Incident State	National
139	eScene.19	Incident Zip Code	National
140	eScene.20	Scene Cross Street or Directions	
141	eScene.21	Incident County	National
142	eScene.24	First Other EMS or Public Safety Agency at Scene to Provide Patient Care	
143	eSituation.01	Date/Time of Symptom Onset	National
144	eSituation.02	Possible Injury	National
145	eSituation.03	Complaint Type	
146	eSituation.04	Complaint	
147	eSituation.07	Chief Complaint Anatomic Location	National
148	eSituation.08	Chief Complaint Organ System	National
149	eSituation.09	Primary Symptom	National
150	eSituation.10	Other Associated Symptoms	National
151	eSituation.11	Provider's Primary Impression	National
152	eSituation.12	Provider's Secondary Impressions	National
153	eSituation.13	Initial Patient Acuity	National
154	eSituation.14	Work-Related Illness/Injury	
155	eSituation.18	Date/Time Last Known Well	National

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156	eSituation.20	Reason for Interfacility Transfer/Medical Transport	National
157	eTimes.01	PSAP Call Date/Time	National
158	eTimes.03	Unit Notified by Dispatch Date/Time	National
159	eTimes.05	Unit En Route Date/Time	National
160	eTimes.06	Unit Arrived on Scene Date/Time	National
161	eTimes.07	Arrived at Patient Date/Time	National
162	eTimes.09	Unit Left Scene Date/Time	National
163	eTimes.10	Arrival at Destination Landing Area Date/Time	
164	eTimes.11	Patient Arrived at Destination Date/Time	National
165	eTimes.12	Destination Patient Transfer of Care Date/Time	National
166	eTimes.13	Unit Back in Service Date/Time	National
167	eTimes.17	Unit Arrived at Staging Area Date/Time	
168	eVitals.01	Date/Time Vital Signs Taken	National
169	eVitals.02	Obtained Prior to this Unit's EMS Care	National
170	eVitals.03	Cardiac Rhythm / Electrocardiography (ECG)	National
171	eVitals.04	ECG Type	National
172	eVitals.05	Method of ECG Interpretation	National
173	eVitals.06	SBP (Systolic Blood Pressure)	National
174	eVitals.07	DBP (Diastolic Blood Pressure)	
175	eVitals.10	Heart Rate	National
176	eVitals.12	Pulse Oximetry	National
177	eVitals.14	Respiratory Rate	National
178	eVitals.16	End Tidal Carbon Dioxide (ETCO2)	National
179	eVitals.18	Blood Glucose Level	National
180	eVitals.19	Glasgow Coma Score-Eye	National
181	eVitals.20	Glasgow Coma Score-Verbal	National
182	eVitals.21	Glasgow Coma Score-Motor	National
183	eVitals.22	Glasgow Coma Score-Qualifier	National
184	eVitals.23	Total Glasgow Coma Score	
185	eVitals.24	Temperature	
186	eVitals.25	Temperature Method	
187	eVitals.26	Level of Responsiveness (AVPU)	National
188	eVitals.27	Pain Scale Score	National
189	eVitals.28	Pain Scale Type	
190	eVitals.29	Stroke Scale Score	National

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191	eVitals.30	Stroke Scale Type	National
192	eVitals.31	Reperfusion Checklist	National
193	eVitals.32	APGAR	
194	eVitals.33	Revised Trauma Score	
195	itVitals.055	Stroke Scale Score Value	

(B) In addition, each ambulance service shall review and report at least annually, and upon changes to any of the elements listed below, the following demographic information to the MATRIS website, at <https://matris.imagetrendelite.com/Elite/Organizationmatris/>. The full definitions for each of these demographic elements are available in the Massachusetts Ambulance Trip Record Information System (MATRIS) NEMSIS V3.5.0 data dictionary, which can be found on the Department's website at www.mass.gov/dph/oems/matris. For reference, the list below includes the NEMSIS Element Number and the Element Name in the MATRIS V3.5.0 and NEMSIS data set, as well as the designation of National Element if the data element is included in the NEMSIS demographic minimum data set. There are 10 National Elements in this category.

	Element Number	Element Name	National
1	dAgency.05	EMS Agency Service Area States	National
2	dAgency.06	EMS Agency Service Area County(ies)	National
3	dAgency.09	Primary Type of Service	National
4	dAgency.11	Level of Service	National
5	dAgency.12	Organization Status	National
6	dAgency.13	Organizational Type	National
7	dAgency.14	EMS Agency Organizational Tax Status	National
8	dAgency.25	National Provider Identifier	National
9	dConfiguration.13	Emergency Medical Dispatch (EMD) Provided to EMS Agency Service Area	National
10	dConfiguration.16	Crew Call Sign	National