

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: February 28, 2019 **AUTHORIZATION:** Mark Miller, Director

TITLE: Statewide EMS Minimum Data Set

SUPERSEDES: December 15, 2010

Purpose:

- 1) To define the minimum data elements pertaining to each EMS call that ambulance services must ensure their EMS personnel are documenting in trip records, 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.
- 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 trip record. The minimum EMS data set defined in this Administrative Requirement (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 [NEMSIS Data Dictionary Version 3.4.0](#). The MATRIS data dictionary is derived from the 585 elements in the NEMSIS V3.4.0 data dictionary.

Timeline:

(A) **Transition Period:** By February 28, 2019, the MATRIS NEMSIS V3.4.0 site will be live. At that point, ambulance services may begin submitting data, in accordance with all the requirements of this AR, directly to the MATRIS NEMSIS V3.4.0 website, <https://matrisv3.dph.state.ma.us/elite>, or import from third-party software that has passed NEMSIS V3.4.0 compliance testing for EMS agencies as documented on the NEMSIS website [here](#). However, **prior to beginning submission of NEMSIS V3.4.0 data, services must submit any NEMSIS V2.2.1 data they have not yet submitted, from January 1, 2013 forward.**

(B) Services may continue to submit NEMSIS V2.2.1 data until August 31, 2019, after which all services will be required to submit data in accordance with the new NEMSIS V3.4.0 standard, and all requirements of this AR.

The minimum information required by this AR for each EMS call must be submitted to the Department within 14 days of the call, via import or direct on-line data entry, to the MATRIS NEMSIS V3.4.0 website, at <https://matrisv3.dph.state.ma.us/elite>.

Data Elements

(A) Each NEMSIS V3.4.0 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 V3.4.0 data dictionary, which can be found on the Department's website at

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www.mass.gov/dph/oems/matrix. The MATRIS data requirements are derived from the 585 elements in the [NEMESIS Data Dictionary Version 3.4.0](#).

For reference, the list below includes the NEMESIS Element Number and the Element Name in the MATRIS V3.4.0 and NEMESIS data set, as well as the designation of National Element if the data element is included in the NEMESIS electronic Patient Care Record (ePCR) minimum data set. There are 130 National Elements in this category that have been incorporated into MATRIS NEMESIS V3.4.0.

	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.05	CPR Care Provided Prior to EMS Arrival	National
10	eArrest.06	Who Provided CPR Prior to EMS Arrival	
11	eArrest.07	AED Use Prior to EMS Arrival	National
12	eArrest.08	Who Used AED Prior to EMS Arrival	
13	eArrest.09	Type of CPR Provided	National
14	eArrest.11	First Monitored Arrest Rhythm of the Patient	National
15	eArrest.12	Any Return of Spontaneous Circulation	National
16	eArrest.14	Date/Time of Cardiac Arrest	National
17	eArrest.16	Reason CPR/Resuscitation Discontinued	National
18	eArrest.17	Cardiac Rhythm on Arrival at Destination	National
19	eArrest.18	End of EMS Cardiac Arrest Event	National
20	eCrew.01	Crew Member ID	
21	eCrew.02	Crew Member Level	
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	

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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.12	Incident/Patient Disposition	National
33	eDisposition.16	EMS Transport Method	National
34	eDisposition.17	Transport Mode from Scene	National
35	eDisposition.18	Additional Transport Mode Descriptors	National
36	eDisposition.19	Final Patient Acuity	National
37	eDisposition.20	Reason for Choosing Destination	National
38	eDisposition.21	Type of Destination	National
39	eDisposition.22	Hospital In-Patient Destination	National
40	eDisposition.23	Hospital Capability	National
41	eDisposition.24	Destination Team Pre-Arrival Alert or Activation	National
42	eDisposition.25	Date/Time of Destination Prearrival Alert or Activation	National
43	eExam.01	Estimated Body Weight in Kilograms	
44	eExam.02	Length Based Tape Measure	
45	eExam.19	Mental Status Assessment	
46	eExam.20	Neurological Assessment	
47	eExam.21	Stroke/CVA Symptoms Resolved	
48	eHistory.01	Barriers to Patient Care	National
49	eHistory.02	Last Name of Patient's Practitioner	
50	eHistory.03	First Name of Patient's Practitioner	
51	eHistory.05	Advance Directives	
52	eHistory.17	Alcohol/Drug Use Indicators	National
53	eInjury.01	Cause of Injury	National
54	eInjury.02	Mechanism of Injury	
55	eInjury.03	Trauma Center Criteria	National
56	eInjury.04	Vehicular, Pedestrian, or Other Injury Risk Factor	National
57	eInjury.05	Main Area of the Vehicle Impacted by the Collision	
58	eInjury.06	Location of Patient in Vehicle	
59	eInjury.07	Use of Occupant Safety Equipment	
60	eInjury.08	Airbag Deployment	
61	eInjury.09	Height of Fall (feet)	
62	eMedications.01	Date/Time Medication Administered	National

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63	eMedications.02	Medication Administered Prior to this Unit's EMS Care	National
64	eMedications.03	Medication Given	National
65	eMedications.04	Medication Administered Route	
66	eMedications.05	Medication Dosage	National
67	eMedications.06	Medication Dosage Units	National
68	eMedications.07	Response to Medication	National
69	eMedications.08	Medication Complication	National
70	eMedications.10	Role/Type of Person Administering Medication	National
71	eNarrative.01	Patient Care Report Narrative	
72	eOther.05	Suspected EMS Work Related Exposure, Injury, or Death	National
73	eOther.06	The Type of Work-Related Injury, Death or Suspected Exposure	
74	eOther.07	Natural, Suspected, Intentional, or Unintentional Disaster	
75	eOutcome.01	Emergency Department Disposition	National
76	eOutcome.02	Hospital Disposition	National
77	ePatient.02	Last Name	
78	ePatient.03	First Name	
79	ePatient.05	Patient's Home Address	
80	ePatient.06	Patient's Home City	
81	ePatient.07	Patient's Home County	National
82	ePatient.08	Patient's Home State	National
83	ePatient.09	Patient's Home Zip Code	National
84	ePatient.10	Patients Country of Residence	
85	ePatient.13	Gender	National
86	ePatient.14	Race	National
87	ePatient.15	Age	National
88	ePatient.16	Age Units	National
89	ePatient.17	Date of Birth	
90	ePayment.01	Primary Method of Payment	National
91	ePayment.50	CMS Service Level	National
92	eProcedures.01	Date/Time Procedure Performed	National
93	eProcedures.02	Procedure Performed Prior to this Unit's EMS Care	National
94	eProcedures.03	Procedure	National
95	eProcedures.05	Number of Procedure Attempts	National
96	eProcedures.06	Procedure Successful	National

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97	eProcedures.07	Procedure Complication	National
98	eProcedures.08	Response to Procedure	National
99	eProcedures.10	Role/Type of Person Performing the Procedure	National
100	eProtocols.01	Protocols Used	National
101	eProtocols.02	Protocol Age Category	National
102	eRecord.01	Patient Care Report Number	National
103	eRecord.02	Software Creator	National
104	eRecord.03	Software Name	National
105	eRecord.04	Software Version	National
106	eResponse.01	EMS Agency Number	National
107	eResponse.03	Incident Number	National
108	eResponse.04	EMS Response Number	National
109	eResponse.05	Type of Service Requested	National
110	eResponse.07	Primary Role of the Unit	National
111	eResponse.08	Type of Dispatch Delay	National
112	eResponse.09	Type of Response Delay	National
113	eResponse.10	Type of Scene Delay	National
114	eResponse.11	Type of Transport Delay	National
115	eResponse.12	Type of Turn-Around Delay	National
116	eResponse.13	EMS Vehicle (Unit) Number	National
117	eResponse.14	EMS Unit Call Sign	National
118	eResponse.15	Level of Care of This Unit	National
119	eResponse.16	Vehicle Dispatch Location	
120	eResponse.23	Response Mode to Scene	National
121	eResponse.24	Additional Response Mode Descriptors	National
122	eScene.01	First EMS Unit on Scene	National
123	eScene.06	Number of Patients at Scene	National
124	eScene.07	Mass Casualty Incident	National
125	eScene.08	Triage Classification for MCI Patient	National
126	eScene.09	Incident Location Type	National
127	eScene.10	Incident Facility Code	
128	eScene.11	Scene GPS Location	
129	eScene.12	Scene US National Grid Coordinates	
130	eScene.13	Incident Facility or Location Name	
131	eScene.15	Incident Street Address	

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132	eScene.16	Incident Apartment, Suite, or Room	
133	eScene.17	Incident City	
134	eScene.18	Incident State	National
135	eScene.19	Incident Zip Code	National
136	eScene.20	Scene Cross Street or Directions	
137	eScene.21	Incident County	National
138	eSituation.01	Date/Time of Symptom Onset	National
139	eSituation.02	Possible Injury	National
140	eSituation.03	Complaint Type	
141	eSituation.04	Complaint	
142	eSituation.07	Chief Complaint Anatomic Location	National
143	eSituation.08	Chief Complaint Organ System	National
144	eSituation.09	Primary Symptom	National
145	eSituation.10	Other Associated Symptoms	National
146	eSituation.11	Provider's Primary Impression	National
147	eSituation.12	Provider's Secondary Impressions	National
148	eSituation.13	Initial Patient Acuity	National
149	eSituation.14	Work-Related Illness/Injury	
150	eSituation.18	Date/Time Last Known Well	
151	eTimes.01	PSAP Call Date/Time	National
152	eTimes.03	Unit Notified by Dispatch Date/Time	National
153	eTimes.05	Unit En Route Date/Time	National
154	eTimes.06	Unit Arrived on Scene Date/Time	National
155	eTimes.07	Arrived at Patient Date/Time	National
156	eTimes.09	Unit Left Scene Date/Time	National
157	eTimes.10	Arrival at Destination Landing Area Date/Time	
158	eTimes.11	Patient Arrived at Destination Date/Time	National
159	eTimes.12	Destination Patient Transfer of Care Date/Time	National
160	eTimes.13	Unit Back in Service Date/Time	National
161	eVitals.01	Date/Time Vital Signs Taken	National
162	eVitals.02	Obtained Prior to this Unit's EMS Care	National
163	eVitals.03	Cardiac Rhythm / Electrocardiography (ECG)	National
164	eVitals.04	ECG Type	National
165	eVitals.05	Method of ECG Interpretation	National
166	eVitals.06	SBP (Systolic Blood Pressure)	National

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167	eVitals.07	DBP (Diastolic Blood Pressure)	
168	eVitals.08	Method of Blood Pressure Measurement	National
169	eVitals.10	Heart Rate	National
170	eVitals.12	Pulse Oximetry	National
171	eVitals.14	Respiratory Rate	National
172	eVitals.16	End Tidal Carbon Dioxide (ETCO2)	National
173	eVitals.18	Blood Glucose Level	National
174	eVitals.19	Glasgow Coma Score-Eye	National
175	eVitals.20	Glasgow Coma Score-Verbal	National
176	eVitals.21	Glasgow Coma Score-Motor	National
177	eVitals.22	Glasgow Coma Score-Qualifier	National
178	eVitals.23	Total Glasgow Coma Score	
179	eVitals.24	Temperature	
180	eVitals.25	Temperature Method	
181	eVitals.26	Level of Responsiveness (AVPU)	National
182	eVitals.27	Pain Scale Score	National
183	eVitals.28	Pain Scale Type	
184	eVitals.29	Stroke Scale Score	National
185	eVitals.30	Stroke Scale Type	National
186	eVitals.31	Reperfusion Checklist	National
187	eVitals.32	APGAR	
188	eVitals.33	Revised Trauma Score	

(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://matrisv3.dph.state.ma.us/elite>. The full definitions for each of these demographic elements are available in the Massachusetts Ambulance Trip Record Information System (MATRIS) NEMSIS V3.4.0 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 V3.4.0 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 19 National Elements in this category.

	Element Number	Element Name	National
1	dAgency.05	EMS Agency Service Area States	National

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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.15	Statistical Calendar Year	National
9	dAgency.16	Total Primary Service Area Size	National
10	dAgency.17	Total Service Area Population	National
11	dAgency.18	911 EMS Call Center Volume per Year	National
12	dAgency.19	EMS Dispatch Volume per Year	National
13	dAgency.20	EMS Patient Transport Volume per Year	National
14	dAgency.21	EMS Patient Contact Volume per Year	National
15	dAgency.25	National Provider Identifier	National
16	dConfiguration.11	EMS Agency Specialty Service Capability	National
17	dConfiguration.13	Emergency Medical Dispatch (EMD) Provided to EMS Agency Service Area	National
18	dConfiguration.15	Patient Monitoring Capability(ies)	National
19	dConfiguration.16	Crew Call Sign	National