Alabama ePCR Dataset Validations

Version 1.6

This document lists validations required for the Alabama dataset. During the pilot phase, ADPH will analyze submitted data for suitability. Based on this review, there may be an adjustment to the validations in the future.

The first table contains conditions that are common to multiple validations, such as Scene Delay. The second table lists each validation, its error message, and a description of the enforced rule. The version number of each item's last modification is also noted.

In some cases, an Incident will not contain a Procedure (for instance) because of a situation such as a cancelled call. Because the XSD is required to have some fields present, the following structure is needed to represent that no Procedure, etc. occurred:

* A null Procedure record should only have four nodes (E19_03, E19_05, E19_06, and E19_07). All of these should have a value of -25.

* A null Medication record should only have two nodes (E18_03 and E18_08). Each of these should have a value of -25.

* A null Condition Code record should only have one node (E07_35). It should have a value of -25 as well.

Changes from Version 1.5

New Validations - Ver 1.6

Val	Name
175	Pregnancy Not Female
176	Possible Injury Applicable

Modified Validations - Ver 1.6

Val	Name
66	Elec/Rape/Traumatic Inj
68	Anatomic Loc Not Applicable
70	Organ System Applicable
73	Primary System Applicable
77	MSX - Assoc Symptoms App
80	Prov Pri Impression Applicable
83	Prov Sec Impression Applicable
105	Procedure Required
120	Onset Time

Disabled Validations - Ver 1.6

Val	Name
45	MSX - Dispatch Delay None
46	MSX - Response Delay None
47	MSX - Scene Delay None
153	MSX - Dispatch Delay Not App
154	MSX - Dispatch Delay Negative
155	MSX - Response Delay Not App
156	MSX - Response Delay Negative
157	MSX - Scene Delay Not App
158	MSX - Scene Delay Negative
159	MSX - Transport Delay Not App
160	MSX - Transport Delay Negative
161	MSX - Transport Delay None
162	MSX - Turnaround Delay Not App
163	MSX - Turnaround Delay Negative
164	MSX - Turnaround Delay None

Alabama's Office of EMS and Trauma has announced this will be the final release of Validations for the first half of 2008. We are switching from an implementation to a maintenance mode and will be planning structured validation releases every 6 months. The only exception to this is if a validation must have immediate attention because of data quality issues.

Thanks to all pilot providers for their efforts toward making this new National EMS Dataset possible.

VERSION	CONDITION NAME	DESCRIPTION
1.2	InjuryIsPresent	E09_04 = YES
1.5	Arrived_At_Patient	E05_07 is entered
1.0	NoPatientFound_OR_Cancelled	E20_10 is Cancelled or No Patient Found
1.2	PatientContact	E20_10 is not (Cancelled or No Patient Found)
1.0	InterfacilityTransfer	E02_04='Interfacility Transfer'
1.2	SceneDelay	Difference between E05_06 and E05_09 > 30 minutes
1.2	DispatchDelay	Difference between E05_02 and E05_04 > 3 minutes
1.2	ResponseDelay	Difference between E05_04 and E05_05 > 10 minutes

	VALIDATION NAME	ERROR MESSAGE	DESCRIPTION	VER
1	MSX - Dispatch Delay	Dispatch Delay: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E02_06	1.3
2	MSX - Response Delay	Response Delay: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E02_07	1.3
3	MSX - Scene Delay	Scene Delay: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E02_08	1.3
4	MSX - Transport Delay	Transport Delay: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E02_09	1.3
5	MSX - Other Assoc Symptoms	Other Associated Symptoms: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E09_14	1.3
6	MSX - Use of Occu Safety Equip	Use of Occupant Safety Equipment: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E10_08	1.3
7	MSX - Mechanism of Injury	Mechanism of Injury: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E10_03	1.3
8	MSX - Airbag Deployment	Airbag Deployment: No Airbag Deployed, No Airbag Present, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E10_09	1.3

9	MSX - Vehicle Inj Indicators	Vehicular Injury Indicators: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E10_04	1.3
10	MSX - Resuscitation Attempted	Resuscitation Attempted: Not Attempted-Considered Futile, Not Attempted-Signs of Circulation, Not Attempted-DNR Orders, None, Not Applicable, Not Known, Not Recorded, Not Reporting, and Not Available may only be selected individually.	E11_03 cannot equal two or more of the following simultaneously: Not Attempted-Considered Futile, Not Attempted-Signs of Circulation, Not Attempted-DNR Orders, None, Not Applicable, Not Recorded, Not Reporting, Not Known, and Not Available	1.3
11	MSX - Medication Allergies	Allergies: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E12_08	1.3
12	MSX - Alcohol/Drug Use Ind	Alcohol/Drug Use Indicator: None, Not Applicable, Not Known, Not Available, Not Recorded, and Not Reporting may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E12_19	1.3
13	MSX - Advanced Directives	Advanced Directives: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E12_07	1.3
14	MSX - Barriers to Patient Care	Barriers to Patient Care: None, Not Applicable, Not Known, Not Available, Not Recording, and Not Reporting may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E12_01	1.3
15	MSX - NHTSA InjMatrix Ab NA	NHTSA Injury Matrix Abdomen: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_06	1.3
16	MSX - NHTSA InjMatrix Skin NA	NHTSA Injury Matrix External/Skin: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_01	1.3

17	MSX - NHTSA InjMatrix Skin BLD	NHTSA Injury Matrix External/Skin: Bleeding Controlled AND Bleeding Uncontrolled cannot be selected simultaneously.	E15_01 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
18	MSX - NHTSA InjMatrix Face NA	NHTSA Injury Matrix Face: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_03	1.3
19	MSX - NHTSA InjMatrix Head NA	NHTSA Injury Matrix Head: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_02	1.3
20	MSX - NHTSA InjMatrix LowEx NA	NHTSA Injury Matrix Lower Extremities: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_10	1.3
21	MSX - NHTSA InjMatrix Neck NA	NHTSA Injury Matrix Neck: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_04	1.3
22	MSX - NHTSA InjMatrix Pelv NA	NHTSA Injury Matrix Pelvis: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_09	1.3
23	MSX - NHTSA InjMatrix Spine NA	NHTSA Injury Matrix Spine: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_07	1.3
24	MSX - NHTSA InjMatrix Thor NA	NHTSA Injury Matrix Thorax: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_05	1.3
25	MSX - NHTSA InjMatrx Unspec NA	NHTSA Injury Matrix Unspecified: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_11	1.3

26	MSX - NHTSA InjMatrix UpEx NA	NHTSA Injury Matrix Upper Extremities: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E15_08	1.3
27	MSX - NHTSA InjMatrix Ab BLD	NHTSA Injury Matrix Abdomen: Bleeding Controlled AND Bleeding Uncontrolled cannot be selected simultaneously.	E15_06 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
28	MSX - NHTSA InjMatrix Face BLD	NHTSA Injury Matrix Face: Bleeding Controlled AND Bleeding Uncontrolled cannot be selected simultaneously.	E15_03 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
29	MSX - NHTSA InjMatrix Head BLD	NHTSA Injury Matrix Head: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_02 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
30	MSX - NHTSA InjMatrx LowEx BLD	NHTSA Injury Matrix Lower Extremities: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_10 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
31	MSX - NHTSA InjMatrix Neck BLD	NHTSA Injury Matrix Neck: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_04 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
32	MSX - NHTSA InjMatrix Pelv BLD	NHTSA Injury Matrix Pelvis: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_09 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
33	MSX - NHTSA InjMatrx Spine BLD	NHTSA Injury Matrix Spine: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_07 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
34	MSX - NHTSA InjMatrix Thor BLD	NHTSA Injury Matrix Thorax: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_05 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0

35	MSX - NHTSA InjMatrx Unspc BLD	NHTSA Injury Matrix Unspecified: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_11 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
36	MSX - NHTSA InjMatrix UpEx BLD	NHTSA Injury Matrix Upper Extremities: Bleeding Controlled and Bleeding Uncontrolled cannot be selected simultaneously.	E15_08 cannot equal both Bleeding Controlled AND Bleeding Uncontrolled at the same time	1.0
37	MSX - Protocols Used	Protocols Used: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E17_01	1.3
38	MSX - Successful IV Site	Successful IV Site: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E19_12	1.3
39	MSX - Type of Exposure NA	Type of Suspected Exposure: None, Not Applicable, Not Available, Not Reporting, Not Reported, and Not Known may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E23_06	1.3
40	MSX - Type of Exp - Needle Stk	Type of Suspected Exposure: Needle Stick with Fluid Injection and Needle Stick without Fluid Injection cannot be selected simultaneously.	E23_06 cannot equal both Needle Stick with Fluid Injection AND Needle Stick Without Fluid Injection at the same time	1.0
41	MSX - Personnel Exposed	Personnel Exposed: Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E23_07	1.3
42	MSX - Adv Dir DNR Form - Other	Advanced Directives: Other Healthcare DNR Form and Family/Guardian Request DNR (But No Documentation) cannot be selected simultaneously.	E12_07 cannot reflect that a DNR document did AND did not exist at the same time	1.0
43	MSX - Adv Dir DNR Form - State	Advanced Directives: State/EMS DNR Form and Family/Guardian Request DNR (But No Documentation) cannot be selected simultaneously.	E12_07 cannot reflect that a DNR document did AND did not exist at the same time	1.0

44	Prior Aid and Transfer	Prior Aid: Must be Not Applicable when Type of Service is Interfacility Transfer.	If E02_04 = Interfacility Transfer, E09_01 must be Not Applicable	1.3
45	MSX - Dispatch Delay None	Dispatch Delay: None is invalid if PSAP Time more than 3 mins before Unit Notified by Dispatch Time.	If DispatchDelay, E02_06 cannot be None	Deleted 1.6
46	MSX - Response Delay None	Response Delay: None is invalid if Unit En Route Time more than 10 mins after Unit Notified by Dispatch Time.	If ResponseDelay, E02_07 cannot be None	Deleted 1.6
47	MSX - Scene Delay None	Scene Delay: None is invalid if Unit Left Scene Time more than 30 mins after Unit Arrived on Scene Time and NOT an Interfacility Transfer.	If SceneDelay and not an Interfacility Transfer, E02_08 cannot be None	Deleted 1.6
48	Dispatch Complaint Reported	Complaint Reported by Dispatch: If Type of Service is an Interfacility Transfer, this must be Transfer/Interfacility/Palliative Care.	If an Interfacility Transfer, E03_01 must be 'Transfer/Interfacility/Palliative Care'	1.0
49	Early PSAP Time	PSAP Time: Cannot be before Onset Time.	E05_02 >= E05_01	1.0
50	Early Dispatch Notified Time	Dispatch Notified Time: Cannot be before PSAP Time.	E05_03 >= E05_02	1.0
51	Early Dispatch NotifyUnit Time	Unit Notified by Dispatch Time: Cannot be before Dispatch Notified Time.	E05_04 >= E05_03	1.0
52	Early Unit En Route Time	Unit En Route Time: Cannot be before Unit Notified by Dispatch Time.	E05_05 >= E05_04	1.0
53	Early Unit Arrive OnScene Time	Unit Arrived on Scene Time: Cannot be before Unit En Route Time.	E05_06 >= E05_05	1.3
54	Early Arrived at Patient Time	Arrived At Patient Time: Cannot be before Unit Arrived on Scene Time.	E05_07 >= E05_06	1.0

55	Early Unit Left Scene Time	Unit Left Scene Time: Cannot be before Arrived at Patient Time.	E05_09 >= E05_07	1.0
56	Early Patient Arr at Dest Time	Patient Arrived At Destination Time: Cannot be before Unit Left Scene Time.	E05_10 >= E05_09	1.0
57	Early Back In Service Time	Unit Back in Service Time: Cannot be Before Patient Arrived at Destination Time.	E05_11 >= E05_10	1.0
58	Primary Pay Method Not App	Primary Method of Payment: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	E07_01 must be Not Applicable if E20_10 = (Cancelled or No Patient Found)	1.2
59	CMS Service Lvl Not Applicable	CMS Service Level: Must be Not Applicable if Patient Disposition is Cancelled, No Patient Found, No Treatment Required, or Patient Refused Care.	E07_34 must be Not Applicable if E20_10 = (Cancelled or No Patient Found or No Treatment Required or Patient Refused Care)	1.0
60	No Patients At Scene	Number of Patients at Scene: Must be None if Patient Disposition is No Patient Found or Cancelled.	E08_05 must be None if E20_10 = (Cancelled or No Patient Found)	1.0
61	Multiple Patients At Scene	Number of Patients at Scene: Must be Multiple if Mass Casualty Incident is Yes.	E08_05 must be Multiple if E08_06 = Yes	1.0
62	Mass Casualty	Mass Casualty: Cannot be Yes if Number of Patients is None or Single.	E08_06 cannot be Yes if E08_05 = (None or Single)	1.0
63	Injury Present Not Yes	Cause of Injury: Must be Not Applicable if Possible Injury is not Yes.	If E09_04 <> Yes, E10_01 must be Not Applicable	1.2
64	Injury Present - No Pt Contact	Possible Injury : Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_04 must be Not Applicable.	1.2

65	Injury Present	Possible Injury: Must be Yes if Procedures are Chest Decompression, MAST, Spinal Immobilization, Splinting, Splinting-Traction, or Wound Care.	If E19_03 includes Chest Decompression, MAST, Spinal Immobilization, Splinting, Splinting-Traction, or Wound Care, E09_04 = Yes	1.0
66	Elec/Rape/Traumatic Inj	Possible Injury : Must be Yes if Primary Impression OR Secondary Impression is Electrocution, Sexual Assault/Rape, or Traumatic Injury.	If E09_15 OR E09_16 includes Electrocution, Sexual Assault/Rape, or Traumatic Injury, E09_04 must be Yes	1.6
67	Anatomic Loc Not Applicable	Anatomic Location: Must be Not Applicable if Arrived at Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_11 must be Not Applicable.	1.0
68	Anatomic Loc Applicable	Anatomic Location: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_11 cannot be Not Applicable	1.6
69	Organ System Not Applicable	Chief Complaint Organ System: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_12 must be Not Applicable.	1.0
70	Organ System Applicable	Chief Complaint Organ System: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_12 cannot be Not Applicable	1.6
71	Organ System - Not Female	Chief Complaint Organ System: Cannot be OB/GYN if Patient is Male.	E06_11 must be Female if E09_12 = OB/GYN	1.0
72	Primary Symptom Not Applicable	Primary Symptom: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_13 = Not Applicable	1.0

73	Primary Symptom Applicable	Primary Symptom: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_13 cannot be Not Applicable	1.6
74	Primary Symptom - Wound	Possible Injury: Must be Yes if Primary Symptom is Wound.	If E09_13 = Wound, E09_04 = Yes	1.0
75	MSX - Assoc Symptoms None	Other Associated Symptom: Must be None if Primary Symptom is None.	If E09_13 = None, E09_14 must be None	1.0
76	MSX - Assoc Symptoms Not App	Other Associated Symptoms: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_14 = Not Applicable	1.0
77	MSX - Assoc Symptoms App	Other Associated Symptoms: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_14 cannot be Not Applicable	1.6
78	MSX - Assoc Symp is Wound	Possible Injury: Must be Yes if Other Associated Symptom is Wound.	If E09_14 = Wound, E09_04 = Yes	1.0
79	Prov Pri Impression Not App	Provider's Primary Impression: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_15 = Not Applicable	1.0
80	Prov Pri Impression Applicable	Provider's Primary Impression: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_15 cannot be Not Applicable	1.6
81	Prov Pri Impression Female	Gender: Must be Female if Provider's Primary Impression is Pregnancy/OB Delivery OR Vaginal Hemorrhage.	E06_11 must be Female if E09_15 = (Pregnancy/OB Delivery OR Vaginal Hemorrhage')	1.0

82	Prov Sec Impression Not App	Provider's Secondary Impression: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E09_16 = Not Applicable	1.0
83	Prov Sec Impression Applicable	Provider's Secondary Impression: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_16 cannot be Not Applicable	1.6
84	Cause of Injury Not Applicable	Cause of Injury : Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E10_01 is Not Applicable	1.0
85	Cause Of Injury Applicable	Cause of Injury: Cannot be Not Applicable if Possible Injury is Yes.	If InjuryIsPresent, E10_01 cannot be Not Applicable	1.0
86	MSX - Mech of Injury Not App	Mechanism of Injury: Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E10_03 is Not Applicable	1.0
87	MSX - Mech of Injury App	Mechanism of Injury: Cannot be Not Applicable if Possible Injury is Yes.	If InjuryIsPresent, E10_03 cannot be Not Applicable	1.0
88	MSX - Safety Equip Not App	Use of Occupant Safety Equipment: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E10_08 is Not Applicable	1.0
89	MSX - Airbag Deploy Not App	Airbag Deployment: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E10_08 is Not Applicable	1.0
90	Cardiac Arrest Not App	Cardiac Arrest: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E11_01 is Not Applicable	1.0

91	Prior Aid Not App - Outcome	Prior Aid: Must not be Not Applicable when Outcome of Prior Aid is Improved, Unchanged, or Worse.	If E09_03 is a non-negative value, E09_01 cannot be Not Applicable	1.3
92	Card Arrest Cause Not App	Cardiac Arrest Etiology: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E11_02 = Not Applicable	1.0
93	Card Arrest Cause App	Cardiac Arrest Etiology: Cannot be Not Applicable if the following Prior Aid or Procedures are executed: CPR, Defibrillation-Automated (AED), or Defibrillation-Manual.	E11_02 <> Not Applicable when a PRIOR AID or PROCEDURE subentry contains CPR, Defibrillation-Automated (AED), or Defibrillation-Manual	1.1
94	MSX - Resus Attempt Not App	Resuscitation Attempted: Must be Not Applicable if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E11_03 is Not Applicable	1.0
95	MSX - Resus Attempt App	Resuscitation Attempted: Cannot be Not Applicable if the following Prior Aid Procedures are executed: CPR, Defibrillation-Automated (AED), or Defibrillation-Manual.	E11_03 <> Not Applicable when a PRIOR AID subentry contains CPR, Defibrillation-Automated (AED), or Defibrillation-Manual	1.0
96	MSX - Resus Att Defib	Resuscitation Attempted: Must include Defibrillation Attempted if Defibrillation-Automated (AED) or Defibrillation-Manual.	E11_03 <> Not Applicable when a PROCEDURE subentry contains CPR, Defibrillation-Automated (AED), or Defibrillation-Manual	1.0
97	Systolic BP Blank	Systolic Blood Pressure : Must be blank if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E14_04 must be blank	1.0
98	Diastolic BP Blank	Diastolic Blood Pressure : Must be blank if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E14_05 must be blank	1.0

99	Pulse Rate Blank	Pulse Rate : Must be blank if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E14_07 must be blank	1.0
100	Resp Rate Blank	Respiratory Rate : Must be blank if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E14_11 must be blank	1.0
101	Procedures Not Allowed	No Procedures may be included if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, Procedure records should not exist	1.3
102	Procedure - Female	Gender: Must be Female if Incident Procedure is Childbirth.	If E19_03 includes Childbirth, E06_11 must be Female	1.0
103	Early Cancelled Time	Cancelled Time: Time entered must not be earlier than any of the times up to and including Patient Arrived at Destination.	If E05_12 exists, the time entered must not be before the last entered time in the set of collected Incident times from E05_01 thru E05_10 (do not compare to E05_11)	1.5
104	Early Back Home Time	Unit Back Home Time: Cannot be Before Unit Back In Service Time.	E05_13 >= E05_11	Deleted 1.2
105	Procedure Required	Incident Procedure: Required if Protocols Used contains an actual Protocol.	If E17_01 is not blank, Not Available, Not Known, Not Reporting, Not Recorded, or Not Applicable, then E19_03 must be entered	1.6
106	Destination Name Required	Destination Name: Is Required if Type of Destination is not Hospital AND Patient Disposition is not No Patient Found or Cancelled.	If NOT NoPatientFound_OR_Cancelled and E20_17 <> Hospital, E20_01 is required	1.0

107	Cardiac Prior Aid	Cardiac Arrest: Must be Yes, Prior to EMS Arrival OR Yes, After EMS Arrival if the following Prior Aid or Procedures are executed: CPR, Defibrillation-Automated (AED), or Defibrillation-Manual.	E11_01 must be either Yes, Prior to EMS Arrival OR Yes, After EMS Arrival if a PRIOR AID or PROCEDURE subentry contains CPR, Defibrillation-Automated (AED), or Defibrillation-Manual	1.1
108	Outcome of Prior Aid and Xfer	Outcome of the Prior Aid: Must be Not Applicable when Type of Service is Interfacility Transfer.	If E02_04 = Interfacility Transfer, E09_03 must be Not Applicable	1.3
109	Destination Zip Code	Destination Zip Code: Can only enter a five-digit number, Not Applicable, Not Available, Not Known, Not Recorded, or Not Reporting.	E20_07 must either be five chars long or else one of the negative values	1.4
110	Prior Aid Perf By and Transfer	Prior Aid Performed By: Must be Not Applicable when Type of Response is Interfacility Transfer.	If E02_04 = Interfacility Transfer, E09_02 must be Not Applicable	1.3
111	Outcome of Prior Aid	Outcome of the Prior Aid: Must be Not Applicable when Prior Aid is Not Known or Not Applicable.	E09_03 is Not Applicable if E09_01 is Not Known OR Not Applicable	1.3
112	MSX - Resus Att Chest	Resuscitation Attempted: Must include Initiated Chest Compressions if Procedures include CPR.	If E19_03 = CPR, E11_03 must include Chest Compressions	1.0
113	Chief Complaint Required	Chief Complaint: Must be Entered if Patient Contact and if Call Type is not Interfacility Transfer.	If E02_04 <> Interfacility Transfer and PatientContact, E09_05 must be entered	1.2
114	Patient Zip Code	Patient Zip Code: Can only enter a five-digit number, Not Applicable, Not Available, Not Known, Not Recorded, or Not Reporting.	E06_08 must either be five chars long or else one of the negative values	1.4

115	Incident Zip Code	Incident Zip Code: Can only enter a five-digit number, Not Applicable, Not Available, Not Known, Not Recorded, or Not Reporting.	E08_15 must either be five chars long or else one of the negative values	1.4
116	Early Onset Time	Onset Time: Cannot be before Patient's DOB.	E05_01 >= E06_16	1.0
117	Crew Member ID Required	Crew Member ID: Must not be blank.	E04_01 cannot be blank	1.0
118	Crew Member Level Required	Crew Member Level: Must not be blank.	E04_03 cannot be blank	1.0
119	Crew Member Role Required	Crew Member Role: If Patient Disposition is not No Patient Found or Cancelled, Crew Member Role cannot be blank.	If not NoPatientFound_OR_Cancelled, 06_01 cannot be blank	1.4
120	Onset Time Required	Onset Time: Must not be blank if Type of Service is other than Interfacility Transfer, Medical Transport, or Standby.	E05_01 cannot be blank if E02_04 is not Interfacility Transfer, Medical Transport, or Standby.	1.6
121	Dispatch Time Required	Dispatch Notified Time: Must not be blank.	E05_03 cannot be blank	1.0
122	Pat Last Name Required	Patient Last Name: Required if Patient Disposition is neither No Patient Found nor Cancelled.	If Patient Contact, E06_01 cannot be blank	1.4
123	Pat First Name Required	Patient First Name: Required if Patient Disposition is neither No Patient Found nor Cancelled.	If Patient Contact, E06_02 cannot be blank	1.4

124	Soc Security Required	Social Security Number: Cannot be Blank or Not Applicable if Patient Disposition is neither No Patient Found nor Cancelled.	If Patient Contact, E06_10 cannot be blank or Not Applicable	1.4
125	Gender Not Negative	Gender: If Patient Contact, Gender must either be Male or Female.	If PatientContact, E06_11 must be either Male or Female	1.2
126	Race Not Negative	Race: If Patient Contact, Race cannot be Not Applicable, Not Available, Not Reporting, Not Recorded, or Not Known.	If PatientContact, E06_12 cannot be Not Applicable, Not Available, Not Reporting, Not Recorded, or Not Known	1.3
127	Ethnicity Not Negative	Ethnicity: If Patient Contact, Ethnicity cannot be Not Applicable, Not Available, Not Reporting, Not Recorded, or Not Known.	If PatientContact, E06_13 cannot be Not Applicable, Not Available, Not Reporting, Not Recorded, or Not Known	1.3
128	MSX - Turnaround Delay	Turnaround Delay: None, Not Applicable, Not Known, Not Reporting, Not Recorded, and Not Available may only be selected individually.	Within the set of negative values (plus option NONE), cannot choose more than one of these for E02_07	1.0
129	MSX - Med Allergies Required	Allergies: If Type of Response is Not Interfacility Transfer AND Patient Disposition is neither Not Found nor Cancelled, Allergies must be entered.	If NOT InterfacilityTransfer AND NOT NoPatientFound_OR_Cancelled, E12_08 must be entered	1.4
130	AVPU Required	AVPU: If Type of Response is Not Interfacility Transfer AND Patient Disposition is neither Not Found nor Cancelled, AVPU must be entered at least once.	If NOT InterfacilityTransfer AND NOT NoPatientFound_OR_Cancelled, E14_22 must be entered at least once	1.4
131	MSX - Protocols Required	Protocols Used: If NOT Interfacility Transfer AND NOT Cancelled or Not Found, Protocols must be entered.	If NOT InterfacilityTransfer AND NOT NoPatientFound_OR_Cancelled, E17_01 must be entered	Deleted 1.2

132	MSX - Procedure Complication	Procedure Complication: None, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus None) in E19_07	1.3
133	Procedure - Attempts	Number of Procedure Attempts: Cannot be blank nor zero if Incident Procedure is not blank.	If a Procedure is entered, E19_05 must be at least 1	1.0
134	Procedure Success - Yes or No	Procedure Successful: Must be either Yes or No if Incident Procedure is performed.	If a Procedure is entered, E19_06 must equal either YES or NO	1.0
135	MSX - Cardiac Rhythm	Cardiac Rhythm: None, Not Applicable, Not Known, and Not Available may only be selected individually.	Can choose no more than ONE of the negative values in E14_03_CR	1.3
136	Systolic BP Valid	Systolic Blood Pressure: Must be between 0 and 299.	E14_04 must be between 0 and 299	1.0
137	Systolic BP Low	Systolic Blood Pressure: Must not be lower than Diastolic Blood Pressure.	E14_04 must not be less than E14_05_DBP	1.0
138	Diastolic BP Valid	Diastolic Blood Pressure: Must be between 0 and 299.	E14_05 must be between 0 and 299	1.0
139	Pulse Rate Valid	Pulse Rate: Must be between 0 and 299.	E14_07 must be between 0 and 299	1.0
140	Resp Rate Valid	Respiratory Rate: Must be between 0 and 99.	E14_11 must be between 0 and 99	1.0

141	MSX - Normal Skin Assess	Skin Assessment : Normal, Not Done, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus Not Done and Normal) in E16_04	1.3
142	MSX - Warm/Cold Skin Assess	Skin Assessment: Warm and Cold may only be selected individually.	Cannot choose value=cold AND value=warm for E16_04	1.0
143	MSX - Mental Status Assessment	Mental Status Assessment: Normal, Not Done, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus Not Done and Normal) in E16_23	1.3
144	MSX - Neurological Assessment	Neurological Assessment: Normal, Not Done, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus Not Done and Normal) in E16_24	1.3
145	MSX - Eye Right Assessment NA	Eyes - Right Assessment: Not Done, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus Not Done) in E16_22	1.3
146	MSX - Eye Left Assessment NA	Eyes- Left Assessment: Not Done, Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable may only be selected individually.	Can choose no more than ONE of the negative values (plus Not Done) in E16_21	1.3
147	MSX - Eye Right Assess mm	Eyes - Right Assessment: 2-mm, 3-mm, 4-mm, 5-mm, 6-mm, and 7-mm may only be selected individually.	E16_22 can only equal ONE of the pupil measurements	1.0
148	MSX - Eye Left Assess mm	Eyes - Left Assessment: 2-mm, 3-mm, 4-mm, 5-mm, 6-mm, and 7-mm may only be selected individually.	E16_21 can only equal ONE of the pupil measurements	1.0
149	Prior Aid Perf By	Prior Aid Performed By: Must be Not Applicable when Prior Aid is Not Known or Not Applicable.	If E09_01 is Not Known or Not Applicable, E09_02 must be Not Applicable	1.3

150	Prov Sec Impression Female	Gender: Must be Female if Provider's Secondary Impression is Pregnancy/OB Delivery OR Vaginal Hemorrhage.	E06_11 must be Female if E09_16 = (Pregnancy/OB Delivery OR Vaginal Hemorrhage')	1.1
151	MSX - Medication Complication	Medication Complication: None, Not Applicable, Not Known, Not Available, Nor Recorded, and Not Reporting may only be selected individually.	Can choose no more than ONE of the negative values (plus None) in E18_08	1.3
152	Response Mode Blank	Response Mode to Scene: Must be entered if Unit En Route Date/Time is entered.	E02_20 must be entered if E05_05 is entered	1.2
153	MSX - Dispatch Delay Not App	Dispatch Delay: Must be Not Applicable if either PSAP Time or Unit Notified by Dispatch Time is not entered.	E02_06 must be Not Applicable if either E05_02 and E05_04 is blank	Deleted 1.6
154	MSX - Dispatch Delay Negative	Dispatch Delay: Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable are invalid if both PSAP Time and Unit Notified by Dispatch Time are entered.	E02_06 cannot be a negative value if both E05_02 and E05_04 are entered	Deleted 1.6
155	MSX - Response Delay Not App	Response Delay: Must be Not Applicable if either Unit Notified by Dispatch Time or Unit En Route Time is not entered.	E02_07 must be Not Applicable if either E05_04 and E05_05 is blank	Deleted 1.6
156	MSX - Response Delay Negative	Response Delay: Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable are invalid if both Notified by Dispatch Time and Unit En Route Time are entered.	E02_07 cannot be a negative value if both E05_04 and E05_05 are entered	Deleted 1.6
157	MSX - Scene Delay Not App	Scene Delay: Must be Not Applicable if either Unit Arrived on Scene Time or Unit Left Scene Time is not entered and if not an Interfacility Transfer.	If NOT Interfacility Transfer, E02_08 must be Not Applicable if either E05_06 and E05_09 is entered	Deleted 1.6
158	MSX - Scene Delay Negative	Scene Delay: Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable are invalid if both Unit Arrived on Scene Time and Unit Left Scene Time are entered and if not an Interfacility Transfer.	If NOT Interfacility Transfer, E02_08 cannot be a negative value if both E05_06 and E05_09 are entered	Deleted 1.6

159	MSX - Transport Delay Not App	Transport Delay: Must be Not Applicable if either Unit Left Scene Time or Arrival at Destination Time is not entered.	E02_09 must be Not Applicable if either E05_09 and E05_10 is blank	Deleted 1.6
160	MSX - Transport Delay Negative	Transport Delay: Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable are invalid if both Unit Left Scene Time and Arrival at Destination Time are entered.	E02_09 cannot be a negative value if both E05_09 and E05_10 are entered	Deleted 1.6
161	MSX - Transport Delay None	Transport Delay: None is invalid if Patient Arrived at Destination Time more than 30 mins after Unit Left Scene Time.	E02_09 cannot be None if difference between E05_09 and E05_10 > 30 minutes	Deleted 1.6
162	MSX - Turnaround Delay Not App	Turnaround Delay: Must be Not Applicable if either Patient Arrived at Destination Time or Unit Back in Service is not entered.	E02_10 must be Not Applicable if either E05_10 and E05_11 is blank	Deleted 1.6
163	MSX - Turnaround Delay Negative	Turnaround Delay: Not Available, Not Known, Not Reporting, Not Recorded, and Not Applicable are invalid if Patient Arrived at Destination Time and Unit Back In Service Time are entered.	E02_10 cannot be a negative value if both E05_10 and E05_11 are entered	Deleted 1.6
164	MSX - Turnaround Delay None	Turnaround Delay: None is invalid if Unit Back in Service Time more than 30 mins after Patient Arrived at Destination Time.	E02_10 cannot be None if the difference between E05_10 and E05_11 > 30 minutes	Deleted 1.6
165	Incident Address Required	Incident Address: Must not be blank.	E08_11 cannot be blank	1.2
166	Incident City Required	Incident City: Must not be blank.	E08_12 cannot be blank	1.2
167	Incident County Required	Incident County: Must not be blank.	E08_13 cannot be blank.	1.2

168	Incident State Required	Incident State: Must not be blank.	E08_14 cannot be blank	1.2
169	Prior Aid Not App - Perf By	Prior Aid: Must not be Not Applicable when Prior Aid Performed By is EMS Provider, Law Enforcement, Lay Person, Other Healthcare Provider, or Patient.	If E09_02 is a non-negative entry, E09_01 must be Not Applicable	1.3
170	Medications Not Allowed	No Medications may be included if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, Medication records should not exist	1.3
171	Vital Signs Not Allowed	No Vital Signs may be included if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, Vital Sign records should not exist	1.3
172	Assessments Not Allowed	No Assessments may be included if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, Assessment records should not exist	1.3
173	Run Report Narrative Required	Run Report Narrative: Must not be blank.	E13_01 cannot be blank	1.4
174	Arrived at Patient Time Blank	Arrived at Patient Time: Must be blank if Patient Disposition is No Patient Found or Cancelled.	If NoPatientFound_OR_Cancelled, E05_07 must be blank	1.5
175	Pregnancy Not Female	Pregnancy: Cannot be Yes if Gender is not Female.	If E06_11 is not Female, E12_20 cannot be Yes	1.6
176	Possible Injury Applicable	Possible Injury: Cannot be Not Applicable if Arrived at Patient is entered and Type of Service is neither Interfacility Transfer nor Medical Transport.	If Arrived_At_Patient and E02_04 <> (Interfacility Transfer or Medical Transport), E09_04 cannot be Not Applicable	1.6