

Iowa EMS Patient Registry / Data Dictionary Information

In 2001 the National Association of EMS Directors in conjunction with the National Highway Traffic Safety Administration (NHTSA) and the Trauma/EMS systems program of Health Resources and Services Administration (HRSA) agreed to develop a national EMS database. From this agreement the NEMSIS project was grown. In 2003 the member states initiated a memorandum of understanding stating that they “recognized the need for EMS data collection at the national level” and agreed to abide by the assignment of “specific definitions to a set of data elements identified as desirable to be collected on a national level”. Between 2003 and 2005 the NEMSIS project developed an EMS and demographic dataset compiling them into a databook with a defined Extended Markup Language (XML) schema to facilitate transport of the data between systems. The databook consists of two datasets; the first is referred to as the demographic dataset. This dataset collects information on the submitting agency, their vehicles, personnel, stations, medical equipment, protocols and medical direction. The second is referred to as the EMS dataset and collects information on the event or patient encounter. The elements can be used to build an extensive patient care report for medical reporting purposes as well as data collection. The current databook includes over 400 data elements that are recommended to be included in an EMS data collection system and are also referred to as the Gold set. Knowing the difficulty in collecting this many elements from end users, NEMSIS has created a subset of the data elements known as “National Data Elements” also referred as the Silver set. The Silver subset consists of a total of 83 elements, 67 elements (13 mandatory) in the EMS dataset and 16 elements (8 mandatory) in the demographic dataset. NEMSIS and NHTSA require that states at minimum must collect the “National Data Elements” for submission to the national EMS database. *NEMSIS and NHTSA are now requesting states to submit their data to the national EMS database.*

NEMSIS is attempting to remove the difficulty for EMS software vendors in conducting business in multiple regions or states. The movement to an accepted standardized data dictionary and XML with a standardized format removes the complaints of software vendors in modifying their software between customers in different regions or states. NEMSIS offers free compliance tools and certification process for vendors to become NEMSIS compliant. These benefits assist to eliminate the noncompliance of EMS agencies in submitting data to the IEMSPR system.

The revised Iowa EMS Patient Registry will be posted soon. The new dataset will go into effect on July 1, 2007. Visit www.nemsis.org for more information on NEMSIS.

Iowa Data Element	NEMESIS Reference
EMS Agency Number	D01_01
EMS Agency State	D01_03
EMS Agency County	D01_04
Level of Service	D01_07
Organization Type	D01_08
Organization Status	D01_09
Statistical Year	D01_10
Total Service Size Area	D01_12
Total Service Area Population	D01_13
911 Call Volume per Year	D01_14
EMS Dispatch Volume per Year	D01_15
EMS Transport Volume per Year	D01_16
EMS Patient Contact per Year	D01_17
EMS Agency Time Zone	D01_19
National Provider Identifier	D01_21
Agency Contact Zip Code	D02_07
Lithocode	E01_01
Agency Number	E02_01
Unit Number	E02_12
Type of Service Requested	E02_04
Primary Role of the Unit	E02_05
Incident Number (PCR \ Response \ Trip Number)	E02_02
Incident Address	E08_11
Incident GPS Location	E08_10
Incident City / County FIPS Incident Zip Code	E08_12* E08_15
Location Type	E08_07
Incident / Patient Disposition	E20_10
Complaint Reported by Dispatch	E03_01
EMD Performed	E03_02
Crewmember Certification Type <i>(captured for all crew)</i>	E04_03
Crewmember Certification Number <i>(captured for all crew)</i>	E04_01
Crewmember Role <i>(captured for all crew)</i>	E04_03
Estimated Date/Time of Injury or Onset of Symptoms Date/Time PSAP Call	E05_01 E05_02
Date/Time Dispatched	E05_04
Date/Time Responding	E05_05
Date/Time Arrive Scene	E05_06
Date/Time Arrived Patient	E05_07
Date/Time Departed Scene	E05_09
Date/Time Arrive Destination	E05_10
Date/Time Available	E05_11
Date/Time Unit back at Home Location	E05_13
Type of Dispatch Delay	E02_06
Type of Response Delay	E02_07
Type of Scene Delay	E02_08
Type of Transport Delay	E02_09
Type of Turnaround Delay	E02_10
Number of Patients at Scene	E08_05
Mass Casualty Incident	E08_06
Patient's First Name	E06_02

Patient's Last Name	E06_01
Patient Street Address	E06_04
City of Residence	E06_05
State of Residence	E06_07
Zip Code of Residence	E06_08
Social Security Number	E06_10
Date of Birth	E06_16
Age	E06_14
Age Units *(separated from Age)	E06_15
Gender	E06_11
Race	E06_12
Ethnicity	E06_13
Response Mode (Lights and Sirens to Scene)	E02_20
Transport Mode (Lights and Sirens used from Scene)	E20_14
Primary Signs and Symptom	E09_13
Secondary Signs and Symptoms	E09_14
Provider Primary Impression	E09_15
Providers Secondary Impression	E09_16
Chief Complaint Organ System	E09_12
Possible Injury	E09_04
Cause of Injury	E10_01
Intent of Injury	E10_02
Height of Fall	E10_10
NHTSA Injury Matrix External/Skin	E15_01
NHTSA Injury Matrix Head	E15_02
NHTSA Injury Matrix Face	E15_03
NHTSA Injury Matrix Neck	E15_04
NHTSA Injury Matrix Thorax	E15_05
NHTSA Injury Matrix Abdomen	E15_06
NHTSA Injury Matrix Spine	E15_07
NHTSA Injury Matrix Upper Extremities	E15_08
NHTSA Injury Matrix Pelvis	E15_09
NHTSA Injury Matrix Lower Extremities	E15_10
NHTSA Injury Matrix Unspecified	E15_11
Safety Devices	E10_08
Air Bag Deployment	E10_09
Seat Row Location of Patient	E10_06
Position of Patient in Vehicle	E10_07
Motor Vehicle Impact	E10_05
Cardiac Arrest	E11_01
Cardiac Arrest Etiology	E11_02
Resuscitation Attempted	E11_03
Witnessed Arrest	E11_04
Time of Cardiac Arrest	E11_08
Time CPR Discontinued	E11_09
Time of Spontaneous Circulation	E11_06
Alcohol / Drug Use	E12_19
Time/Date Vital Signs (**submit all vital signs obtained, each must have time/date stamp)	E14_01
Pulse Rate	E14_07
Respiratory Rate	E14_11

Systolic Blood Pressure	E14_04
Diastolic Blood Pressure	E14_05
Method of Blood Measurement	E14_06
Pulse Oximetry	E14_09
Carbon Dioxide (Capnography)	E14_13
Skin Perfusion	E16_04
Glasgow Eye Opening Component	E14_15
Glasgow Verbal Component	E14_16
Glasgow Motor Component	E14_17
Cardiac Rhythm	E14_03
Date/Time of Procedure	E19_01
Procedure or Treatment Name	E19_03
Crewmember performing Procedure	E19_09
Number of Procedure Attempts	E19_05
Procedure Successful	E19_06
Procedure Complications	E19_07
Level of Care Provided (Nature of Incident)	E07_34
Date/Time of Medication	E18_01
Medication Name	E18_03
Crewmember administering Medication	E18_09
Medication Complication	E18_08
Prior Aid	E09_01
Prior Aid Performed By	E09_02
Outcome of Prior Aid	E09_03
Receiving Agency	E20_02
Destination Zip Code	E20_07
Destination Determination	E20_16
Destination Type	E20_17
Software Creator	E01_02
Software Name	E01_03
Software Version	E01_04
Primary Method of Payment	E07_01
Condition Code Number	E07_35
Emergency Department Disposition	E22_01
Hospital Disposition	E22_02