

Seizure Case Definition Public Use Dataset (PUD) Documentation for 2017 through 2023

The Seizure Case Definition PUD contains EMS activation records for seizures.

Seizure case definitions and explanations are found here:

https://nemsis.org/media/nemsis_v3/master/CaseDefinitions/Seizure.pdf

Two data sets are included in the Seizure Case Definition PUD:

1. seizure_activations_[year] is a dataset of EMS activation records that met the definition of **at least one** of the seizure case definitions.
 - a. Data set structure: One row per EMS activation record
 - i. All data elements have a 1:1 relationship with the activation records
 - b. Data elements copied from research dataset, including computed elements. See the User Manual for more information: https://nemsis.org/wp-content/uploads/2021/05/2020-NEMESIS-RDS-340-User-Manual_v3-FINAL.pdf
 - i. pcrKey – EMS activation ID
 - ii. eDispatch_01 – Dispatch Reason
 - iii. eDisposition_12 – Incident/Patient Disposition
 - iv. eDisposition_19 – Final Patient Acuity
 - v. eDisposition_21 – Type of Destination
 - vi. ePatient_15 – Age
 - vii. ePatient_16 – Age Units
 - viii. eResponse_07 – Unit Transport and Equipment Capability
 - ix. eScene_09 – Incident Location Type
 - x. eSituation_02 – Possible Injury
 - xi. eSituation_09 – Primary Symptom
 - xii. eSituation_11 – Provider’s Primary Impression
 - xiii. eSituation_13 – Initial Patient Acuity
2. seizure_1M_[year] is a supplemental dataset with additional information about EMS activation records identified by seizure case definitions. This dataset contains variables with 1-to-many relationships and is arranged in a long format with element_name indicating the data element.
 - a. Data set structure: One row per data element value per data element per activation record
 - i. All data elements have a 1:many relationship with the activation records. These data elements are stacked in a long-format data sets.
 - b. Data elements
 - i. pcrKey – EMS activation ID
 - ii. element_name – name of the NEMESIS data element.
 1. Included data elements:
 - a. eDisposition_20 – Reason for Choosing Destination
 - b. eHistory_01 – Barriers to Patient Care
 - c. eHistory_17 – Alcohol/Drug Use Indicators

- d. eProtocols_01 – Protocols Used
 - e. eResponse_08 – Type of Dispatch Delay
 - f. eResponse_09 – Type of Response Delay
 - g. eResponse_10 – Type of Scene Delay
 - h. eResponse_11 – Type of Transport Delay
 - i. eSituation_10 – Other Associated Symptoms
 - j. eSituation_12 – Provider’s Secondary Impressions
 - iii. value – value of the NEMESIS data element
3. seizure_Medications_[year] is a supplemental dataset with information on medications given during EMS encounters. This dataset contains 1-to-many relationships.
- a. Data set structure: One row per medication administered per activation record
 - i. Data elements have a 1:many relationship with the activation records as a patient may receive more than 1 medication.
 - b. Data elements
 - i. pcrKey – EMS activation ID
 - ii. eMedications_03 – Medication Administered
 - iii. eMedications_03Descr – Medication Administered Description
 - iv. eMedications_05 – Medication Dosage
 - v. eMedications_06 – Medication Dosage Units
 - vi. eMedications_07 – Response to Medication
 - vii. eMedications_08 – Medication Complication

Details about each data element included in the NEMESIS EMS data standard are found here:

https://nemsis.org/media/nemsis_v3/release-3.4.0/DataDictionary/PDFHTML/DEMEMS/NEMESISDataDictionary.pdf