

Seizure Case Definition Public Use Dataset (PUD) Documentation for 2024

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/2025/09/2024-NEMESIS-RDS-350-User-Manual-v3.pdf>
 - i. pcrKey – EMS activation ID
 - ii. eDispatch_01 – Dispatch Reason
 - iii. eDisposition_19 – Final Patient Acuity
 - iv. eDisposition_21 – Type of Destination
 - v. eDisposition_27 – Unit Disposition
 - vi. eDisposition_28 – Patient Evaluation/Care
 - vii. eDisposition_29 – Crew Disposition
 - viii. eDisposition_30 – Transport Disposition
 - ix. ePatient_15 – Age
 - x. ePatient_16 – Age Units
 - xi. eResponse_07 – Unit Transport and Equipment Capability
 - xii. eScene_09 – Incident Location Type
 - xiii. eSituation_02 – Possible Injury
 - xiv. eSituation_09 – Primary Symptom
 - xv. eSituation_11 – Provider’s Primary Impression
 - xvi. 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-3.5.0/DataDictionary/PDFHTML/EMSDEMSTATE/index.html