

NEMESIS v3 HAZDataSet Guide

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Overview

The NEMESIS v3 Data Standard includes three data sets: DEMDataSet (snapshot information about EMS agencies), EMSDataSet (EMS patient care reports), and StateDataSet (state reporting requirements and resources).

This guide discusses a newly developed dataset, the HAZDataSet. The HAZDataSet is intended to cover various hazardous situations that EMS personnel may experience or encounter while on duty. Currently, the elements within the HAZDataSet adhere to the national standard but stand alone as an optional set of new data elements that an EMS agency or state, working with their software vendor, can implement. The HAZDataSet will be renewed on a different lifecycle than the NEMESIS Data Standard.

The first topic developed under the HAZDataSet is the Violence Against EMS Personnel (hereafter: Violence) document, which is a new set of data elements intended to be completed when an EMS personnel experiences physical, mental, or emotional violence. The Violence document includes data elements that can be mapped from an electronic patient care report (ePCR) and new data elements for describing the violent incident and the follow-up actions taken. A Violence report, that incorporates the structured elements and narrative, is intended to be maintained separately from the ePCR.

Future topics covered under the HAZDataSet are anticipated to include topics such as needle sticks and struck-by incidents along the roadside. The HAZDataSet data dictionary is on the [Guides and Usage](#) page of the NEMESIS Website.

Purpose of the HAZDataSet

The NEMESIS Technical Assistance Center (TAC) created the HAZDataSet Data Dictionary to provide a consistent format for local EMS agencies, states, and their vendors to collect information on hazards encountered by the EMS workforce. The HAZDataSet's Violence elements are intended for a Violence report that can be

used to comprehensively and securely document violence experienced by EMS personnel within existing ePCR platforms.

The HAZDataSet supports an EMS agency or state by characterizing the frequency, type, and impact of hazards experienced by the EMS workforce at agency and state levels, which informs necessary actions from policymakers and elected officials, and identifies the resources, training, and education EMS clinicians need for preparation, mitigation, and response to hazardous incidents.

HAZDataSet at the EMS Agency Level

The HAZDataset is not a national data set. Rather, it is designed for agency-level information collection on hazards experienced by EMS personnel while on duty. The initially developed elements on Violence allow EMS personnel or their supervisors to document violence directed at an individual EMS personnel member while on duty. If multiple EMS personnel are harmed in a single incident, a separate violence report should be created for each individual, as the harm encountered and necessary follow-up may differ. EMS agencies and states, working with their vendors, should implement the HAZDataset elements so that violent incidents and other hazards can be documented whether they occur during an EMS encounter with a patient or while personnel are performing other non-patient care duties.

HAZDataSet Sections

hDispatch	hHistory	hPatient	hPersonnel	hResponse	hScene
hSituation		hSupervisor	hTimes	hViolence	

HAZDataSet: Violence Against EMS Personnel Elements

The HAZDataSet’s Violence document includes the following sections and elements intended to be incorporated into a Violence report. There are new elements and existing NEMSIS Data Standard elements (completed during a patient encounter in the ePCR) that can be mapped into the Violence report.

Not Values are included to allow for data documentation when an incident of violence against EMS personnel is not associated with an EMS patient encounter.

- “Not Values” are used (where permitted) to document that a data element was not applicable, not completed, or not collected.
- “Not Values” are documented as an attribute of an element.

Each element within the HAZDataSet has a recurrence status which indicates how

often the element may appear in the Violence document.

- **0:1** = element is not required and can occur only once.
- **0:M** = element is not required and can repeat multiple times.
- **1:1** = element is required and can occur only once.
- **1:M** = element is required and can repeat multiple times.

HAZDataSet Section Descriptions (see associated spreadsheet)

Recommendations are provided for local and state systems to generate and process elements in the HAZDataSet spreadsheet file. Each section of the HAZDataSet's Violence document is made up of elements intended to collect different aspects of the violent incident. A HAZDataSet Violence Data Dictionary is posted in a spreadsheet on the [Guides and Usage](#) page of the NEMSIS website. A description of each column is listed below. New data elements highlighted in blue do not correspond to any existing NEMSIS data standard elements or NEMSIS data types.

Column A – Violence Against EMS Personnel data element number.

Column B – The existing NEMSIS demographic or PCR data element from which data can be copied into the Violence against EMS Personnel data element.

Column C – Violence Against EMS Personnel data element name

Column D – Violence Against EMS Personnel data element definition

Column E – Violence Against EMS Personnel data type / field values

Column F – NEMSIS XSD Data Type for the Violence Against EMS Personnel data element.

Column G – Violence Against EMS Personnel Recurrence data element recurrence.

hDispatch Elements Section

This section includes dispatch information such as the dispatch reason. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call.

hHistory Elements Section

This section includes information describing the patient's current condition regarding alcohol/drug use. This information should be mapped from the ePCR into the Violence document if the violent act occurred during an EMS call and the patient committed the violent act directed at EMS personnel.

hPatient Elements Section

This section includes information about the patient (encountered by EMS) if the patient committed the violent act directed at EMS personnel. This information includes patient name, home address, age, and sex, and should be mapped from the ePCR into the Violence document if the violence incident occurred during an

EMS call and the patient was the individual who committed the act of violence. If a patient's family member, another bystander, or another person (who is NOT the patient), committed the act of violence directed at EMS personnel, information about the patient should NOT be mapped to the Violence report.

hCrew Elements Section

This section includes information about the crew associated with the unit that was the target of the violent act. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call.

hPersonnel Demographic Elements Section

This Section includes the name and licensure level of the EMS personnel who were the recipient or target of the violent act. This information should be mapped from the personnel's record in agency demographic data (DEMDataset) into the Violence report.

hResponse Elements Section

This section includes agency and unit response information, such as incident number, response number, type of service requested, and the response mode to the scene. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call.

hScene Elements Section

This section includes information on the scene where the violent act occurred, including incident location information. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call.

hSituation Elements Section

This section includes information describing the patient's medical condition at the time of the violent act. Data elements include symptoms and impressions of the patient. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call and the patient committed the violent act directed at EMS personnel.

hSupervisor Elements Section

This section includes follow-up information on the status and condition of the EMS personnel who was the target of the violent act. Supervisors may use the elements in this section to document 30-, 60-, and 90-day post-violent incident statuses and conditions of the EMS personnel. This section also allows for documentation of pre-arrival alerts sent to the dispatch center for future responses, if applicable.

hTimes Elements Section

This section includes the date and time information associated with the violent

incident. The dates and times recorded can include dispatch date/time, scene date/time, and arrival at scene or destination date/time. This information should be mapped from the ePCR into the Violence report if the violent act occurred during an EMS call.

hViolence Elements Section

This section includes additional details about the violent incident, such as the time of the violent act, number of assailants, and physical, emotional, and/or mental harms to EMS Personnel. This section's data elements also characterize information regarding who committed the act, the circumstances surrounding the violent act, the phase of the call in which the violent act occurred, and whether law enforcement witnessed or was notified of the violent incident.

Conclusion

The HAZDataSet provides a format in which Violence Against EMS Personnel information can be collected in a consistent format which facilitates improved local and state policies, training, and action.