

OKEMISIS v3.3.4

Martin Lansdale, MPH

Emergency Systems

Protective Health Services

Oklahoma State Department of Health



Oklahoma
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of Health



What is OKEMSIS?

- Oklahoma Emergency Medical Services Information System (OKEMSIS)- state data repository for all licensed/certified EMS agency types (ambulance agencies, EMRA, and Stretcher Aid Vans (SAV)).
- Data submission is required by Oklahoma EMS regulation- §63-1-2511 *Commissioner - Powers and duties relating to Oklahoma Emergency Medical Services Improvement Program, paragraph 6.*
- The OKEMSIS v3.3.4 data dictionary documents what elements are required for ambulance providers by the State of Oklahoma (no dictionary yet for EMRA/SAV).



What is OKEMSIS?

- Oklahoma Emergency Medical Services Statutes and Regulations regarding OKEMSIS data submission:
 - 1.) *OAC 310:641-3-63 (3) (f)*
 - 2.) *OAC 310:641-11-22 (3) (l)*
 - 3.) *OAC 310:641-13-21 (4) (g)*
 - 4.) *OAC 310:641-15-22 (2) (j)*
 - 5.) *OAC 310:641-17-18 (1) (l)*
- All the Oklahoma Emergency Medical Services Statutes and Regulations can be found by using the below link:

https://www.ok.gov/health/Protective_Health/Emergency_Systems/EMS_Division/index.html



What is OKEMSIS?

- EMS data submission into the OKEMSIS system is required on a monthly basis.
- If a ground or air unit leaves their station for a call into or out of Oklahoma, we require the information for that call to be entered into the OKEMSIS database. *If the air or ground ambulance never leaves the station, we do not require the run to be entered into OKEMSIS.*
- Licensed EMS providers who do not submit data into the state database will be cited by OSDH personnel and a plan of correction will be required from that provider.



What is OKEMSIS?

- Repeated failure to submit the required EMS ambulance data after an approved plan of correction is in place can result in legal action and a fine of \$100/day until the data is submitted.
- Once EMS data is submitted, it is available on the OKEMSIS website for reports, QA/QI, investigations, and data requests (upon approval by OSDH staff).
- Data is searchable if OSDH staff receives a verified patient release (signature) and is approved by the state privacy officer.





What is OKEMSIS?

- EMS data is also used for research and development purposes by OSDH staff (see citation handout).
- In an effort to enhance data collection in the State of Oklahoma and adhere to the national data standard, the OKEMSIS data dictionary, state run form, and state website have been upgraded to OKEMSIS v3.3.4.
- The OKEMSIS v3.3.4 data dictionary is based off NEMSIS v3.3.4 (National Emergency Medical Services Information System).



OKEMISIS v3.3.4



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NEMESIS Data Standard

- NEMESIS was formed as a national effort to standardize data collected from EMS agencies. The Oklahoma v3.3.4 Data Dictionary is based off NEMESIS v3.3.4.
- Ultimate goal is to have all states submit EMS data into the national database to make a national (repository) for research to improve the pre-hospital system in the United States.
- In order to meet national health data standards (HL7) NEMESIS released version 3.3.4 with a goal of nation-wide conversion to the new standard by 2018 (originally 2015).





OKEMISIS v3 Dictionary Committee

- The OKEMISIS Data Dictionary sub-committee was formed in April of 2012 to create a version 3 data dictionary for Oklahoma.
- The data dictionary committee looked at every element in the current version 2 OKEMISIS dictionary and either kept that element for version 3 or decided not to require it.
- Most of the elements in v2.2.1 were kept for version 3 but there were some changes and additions to the OKEMISIS data dictionary.





OKEMISIS v3.3.4 Overview

- The OKEMISIS v3.3.4 data dictionary has 164 ePCR elements (which includes 4 state required custom elements) along with 33 demographic elements for a total of 197 OKEMISIS data elements (145 total in v2).
- Data dictionary has one element per page with the corresponding Oklahoma run form PCR number included (289 total pages).
- Dictionary is hyper-linked for ease of navigation and data element comments/validation rules accompany each element.





v3.3.4: Additions/Subtractions

- OKEMISIS database usage and guidelines were added to the v3.3.4 data dictionary.
- Submission guidelines and required call types into the OKEMISIS database are now included.
- A table of contents and definitions for key terms were added to better define elements or choices.
- Invasive airway and arrest sections were expanded/added to better define both procedures/conditions.





v3.3.4: Additions/Subtractions

- 8 data elements were completely “retired” or re-arranged by NEMESIS for v3:
 1. Required Reportable Conditions- retired.
 2. Ethnicity- incorporated into the Race element.
 3. Prior Aid Performed By- Included in the medication/procedures elements in v3.
 4. Outcome of Prior Aid- Included in the medication/procedures elements in v3.
 5. Prior Aid- Included in the medication/procedures elements in v3.
 6. Position of Patient in the Seat of the Vehicle.
 7. Pediatric Trauma Score- retired.
 8. Eye Exams- exam incorporated into other exams.





v3.3.4: Additions/Subtractions

- Condition Code is no longer a mandatory element in Oklahoma as there are now 41,000 ICD 10 codes associated with that element (Standby Purpose added as replacement).
- 34 ePCR elements cannot have null values (blank, Not Applicable, Not Recorded) and must have a real answer or that file will be rejected (listed in dictionary).
- Other ePCR elements will be patient disposition dependent and specific exams will not be required but some type of exam will be required for patient contact.





v3.3.4: Suggested Lists

- Suggested lists (drop-down or pick lists) have been expanded in v3 (9 total) and are “owned”.
- Although the lists are owned, several do have custom codes added by OSDH staff.
- Most of these lists have switched from ICD 9 codes to ICD 10 (medications created by RxNorm).
- Destination/Incident Codes now use NPI numbers (National Provider Index) instead of encoder numbers (some still use 3 digit encoder as a custom code).





v3.3.4: Demographic

- NEMESIS v3.3.4 has 33 demographic elements that are mandatory to be in the v3 dataset.
- Demographic elements are not required for every ePCR but are required for initial set up in the ELITE OKEMESIS website and updated once a year or when needed.
- EMS providers will be required to put in the name of the protocols, medications, and procedures they use and the state EMT licensure level allowed to use them.
- The State will then send the demographic elements to NEMESIS.



v3.3.4: State Required Elements

- The number of custom elements required by the State decreases from 15 in v2 to 4 in OKEMISIS v3.3.4 (see data dictionary for custom elements).
- 6 previously custom elements are now included in the normal ePCR dataset (see UPDATES handout).
- Although the above elements are no longer “custom”, eInjury.03 and eSituation.13 have custom codes that are required to be in the OKEMISIS v3.3.4 dataset. EMS providers are responsible for confirming that these codes are provided by the vendors.



v3.3.4: ePCR and Custom Codes

- There are 5 additional non-custom elements where custom codes have been added to their suggested lists which are also required to be in the OKEMISIS v3 dataset (see UPDATES handout).
- EMS providers are responsible for confirming that these custom codes are provided by the vendors and all custom codes are highlighted in the OKEMISIS v3.3.4 data dictionary for both custom and non-custom elements.
- The state run form (required by EMS regulation to be provided) has been updated to v3.3.4 and is available on the OSDH website for download.



v3.3.4: Timelines/System Info

- Users, User ID's, and passwords were migrated over from the v2.2.1 database for each agency as well as permission levels, custom zones/districts, agency locations (formerly stations), insurance companies, vehicles/call signs, and favorite locations/postal codes.
- A v3.3.4 test site is available to all EMS providers: <http://okemsiselite.health.ok.gov/elite> .
- All EMS providers in the State of Oklahoma were required to be switched over to v3.3.4 by January 1st, 2016 (extensions were granted by approval of OSDH staff).



OKEMISIS v2 Database/Website

- The v2 OKEMISIS database was locked down on April 4th, 2016.
- EMS agency administrators can still log into the v2 database and use Report Writer or see PDF's of all the runs submitted for their agency prior to the transition to v334 (limited time).
- Version 2 (years 2009-2016) data is now available in the Elite v334 database through the Report Writer function (will not be able to open the individual run in v334).



OKEMISIS v3.3.4: Conclusion

- Information can be found for v3.3.4 on the OKEMISIS OSDH website ([OSDH OKEMISIS website](#)) which includes the data dictionary, timelines, updates, validation rules, computer requirements, and a schedule of free ELITE database trainings (regional basis).
- Information can also be found on the [NEMISIS website](#).
- If you have any questions about OKEMISIS v3.3.4 please contact Emergency Systems at (405)271-4027 or e-mail Martin Lansdale at martinl@health.ok.gov .



Contacts

- Martin Lansdale, Emergency Systems
e-mail: martinl@health.ok.gov
Phone: (405)271-4027
- Kenneth Stewart, Emergency Systems
e-mail: kenneth@health.ok.gov
Phone: (405)271-4027
- Elite v334 State EMS Website:
<https://okemsiselite.health.ok.gov/elite>
- OKEMISIS/OSDH EMS Website:
http://www.ok.gov/health/Protective_Health/Emergency_Systems/EMS_Division/index.html

