



November 10, 2009 Edition

Hello West Virginia EMS,

Welcome to the WV EMS Data Dashboard. This bi-monthly email update is coming to you from the WV Office of EMS and the EMS Performance Improvement Center (EMSPIC).

This information is also available at www.WVEMSData.org

Important 32nd Annual West Virginia EMS Conference

All reservations are to be made directly with **Days Hotel** at (304) 765-2032. The hotel is located at 2000 Sutton Lane, Sutton, WV 26601. For more information please see the last page of this dashboard.

NOW AVAILABLE – EMS Response Time Toolkit

The EMS Performance Improvement Toolkits are here!!!!

The EMS Toolkits are very detailed reports focusing on specific service delivery and patient care topics within EMS. The EMS Response Time Toolkit is now online and can be generated by Official Representatives through the reports section of CIS. The remaining 5 EMS Toolkits will be introduced, one at a time, over the next 4 months.

The EMS Response Time Toolkit is a comprehensive analysis of an EMS Agency's Response to a 911 Scene based EMS Event. This report provides a description of an EMS response from several perspectives and uses statistical analysis to measure an EMS Agency's response time performance. Included in this Toolkit are comparative Benchmarks with similar EMS Agencies and the State average.

EMS Toolkits are unique in their ability to assist local EMS agencies regardless of their knowledge or expertise in performance improvement. Suggestions for improvements (interventions) are provided to each EMS Agency based on their EMS Toolkit results. Each EMS Toolkit is designed to measure and adjust performance over time.

If you are an Official Representative the following instructions will assist you in generating your EMS Agency's Response Time Toolkit.

Instructions to Generate an EMS Response Time Toolkit

- Open an Internet Explorer browser and go to www.wvemsdata.org website
- Select EMS Agency Response Time Toolkit Worksheet and print
- Fill in answers to all questions on printed Worksheet
- After completing Worksheet, log on to CIS <https://apps.emspic.org/CIS/Go>
- Select Reports in box to left
- Under Reports, select Toolkits
- Under Toolkits, select Response
- The first time an EMS Response Time Toolkit is generated, the information collected on the Toolkit Worksheet must be entered. Once this information has been entered, it will be saved for future use. It will only need to be changed if there have been changes in your EMS Agency.
- On page 1 of 8, Make sure your Agency Name appears in EMS Service box. Select Next
- On page 2 of 8, Enter Start and End dates for time frame you wish to generate Response Toolkit, enter your name, email address and phone number. Since this is the first time you are generating the Toolkit, No action is needed in Interventions box on right. Select Next
- On pages 3 through 7, Refer to your Response Toolkit Worksheet and answer each question. Select Next after you complete each page.
- On page 8 of 8, Review the Toolkit Summary to make sure all of the information has been entered, scroll to the bottom of page and select Submit. Corrections cannot be made to Summary page. If corrections are needed, select Previous, and make the necessary corrections.

Your Response Toolkit is submitted and is generating, you will be notified by email when it is complete. You may log off if you wish.



Free Online 12-Lead ECG Training

The EMS Performance Improvement Center has licensed Tim Phalen's Online 12 Lead ECG Interpretation Course for all EMT-Paramedics in West Virginia. It is free to Paramedics and our goal is for every Paramedic who is actively caring for patients to complete this course by the end of 2009. You will receive 5 hours of CME upon completion of the course. [Click Here](#) for access to the course!

WV EMS Data System Submission Update: Turning WV Green

Check out the exciting progress of WV EMS agencies in the WV EMS Data system. [Click here](#) to see the WV EMS Data System Implementation Map. Watch West Virginia turn green as EMS agencies begin submitting data into the WV EMS Data project.

WV EMS Data System: 9/04/2009	
Total EMS Agencies**	201
Total EMS Agencies	163
Total First Responder Agencies	38
Total EMS Agencies who have received training	
157 (96.3%)	
Enrolled in PreMIS Web Application	54 (33.1%)
Enrolled in PreMIS Import	102 (62.6%)
Enrolled in Undecided	7 (4.3%)
Total Enrolled in the EMS Data System	171 (85.1%)
EMS Agencies Enrolled in Data System	163 (100.0%)
First Responders Enrolled in Data System	8 (21.1%)
Total Active and Submitting Data	
114 (69.9%)	

**Represents total EMS agencies required to be using the WV EMS Data System by October 31, 2009.

Hot off the Press

Inside the August 2009 edition of JEMS there is a supplement dedicated to EMS data systems. The entire supplement is very valuable but we especially recommend the following article:

Going Electronic—Avoid Information Overload, Now that you Have Data, what do you want to do with it?, Supplement to JEMS, August 2009, Greg Mears, MD

NOW AVAILABLE – PreMIS Short and Long Patient Handoff Forms

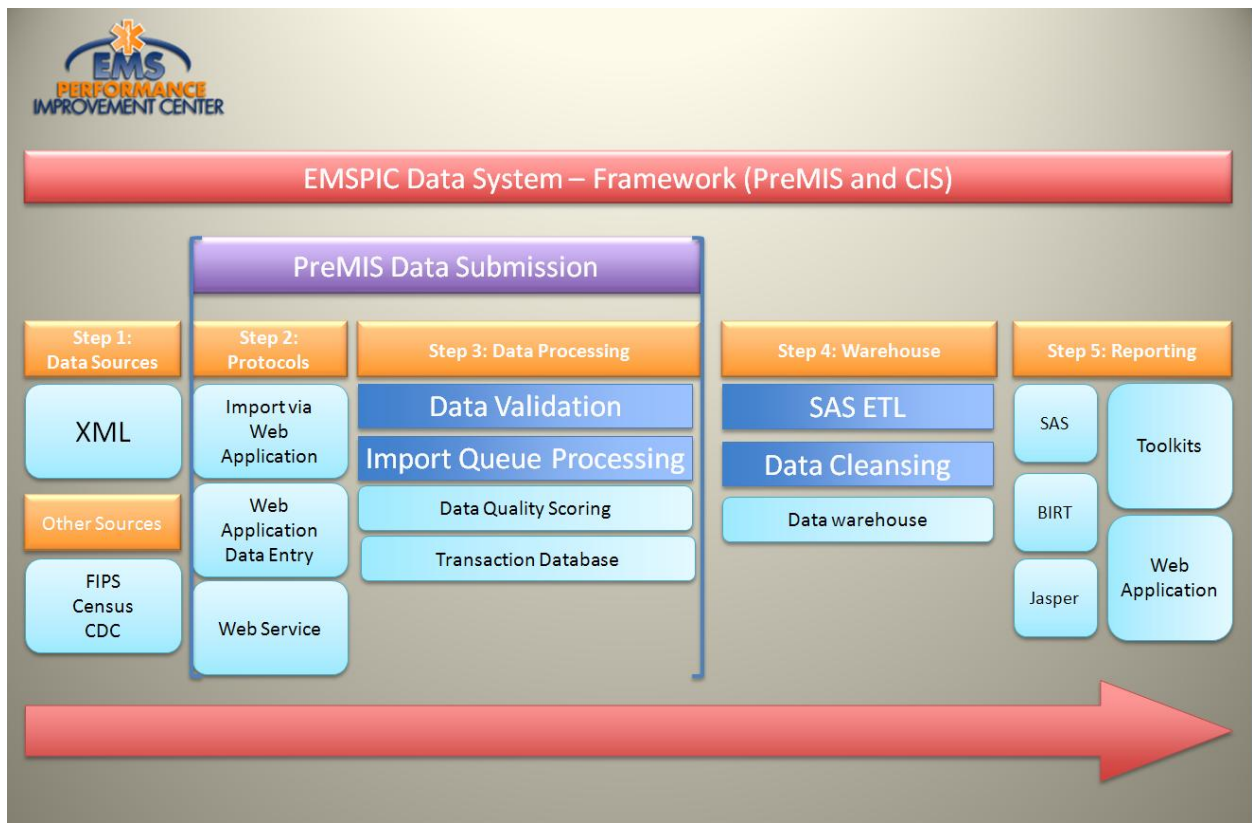
We are pleased to announce the new **PreMIS Short and Long Patient Handoff Forms**. These new forms serve as a tool for recording event and patient information. The [Short Form](#) may be signed at the destination facility with a copy being left at the location. The [Long Form](#) may be used in the same way, or as a training tool to ensure important fields are frequently recorded.

Both forms will allow PreMIS Web Application Users to record the required events needed for manual entry.

WV EMS Data System Framework: How does the Data System work?

You may be wondering, “*What happens to our data after we submit to the Data System?*” – Very good question! The chart below illustrates the Data System Framework and steps taken during EMS Data Processing

Each step definition (below the image) explains how your data moves through the system!



EMSPIC Data System – Framework Definitions

Step 1: Data Sources: Defining PreMIS (PreHospital Medical Information System)

NEMSIS NHTSA Dataset Version 2.2.1 is the current standard for EMS Data collection and submission. The NHTSA Dataset Version 2.2.1 is made of XML Schema Definitions. The schema definitions are made of XSD files, with over 400 data elements that are defined to allow standardized data exchange between EMS data systems.

Other data sources used within PreMIS include FIPS (Federal Information Processing Standards), Census, and CDC data.

Step 2: Data Submission into PreMIS

Currently, the following methods are used to submit data into PreMIS:

- Import via the web application
- A defined web services protocol
- Web application data entry

Importing data via the web application upload servlet or via web services must be provided in the NHTSA Dataset Version 2.2.1 xml file format. The PreMIS web application is a secured online j2ee application ran in a clustered environment. The user must input data through a screen-by-screen web interface. This automatically saves all data to the transactional database.

Step 3: Data Processing

The PreMIS Web Application allows data to be written to the transaction database in real-time. Therefore, all data processing is handled while the data is entered. There are many business logic checks to ensure quality data.

Importing data via the PreMIS web application upload servlet or through web services, an import queue handling is implemented. The xml file is first validated to check its compliance to the NHTSA Dataset Version 2.2.1 schema. If the file passes validation it will be moved to the import-processing queue. Here, all information will be scored for data quality and written to the transaction database. The user will then have the ability to view their import logs which shows in detail the Patient Care Reports (PCR) that were add, updated or that may have failed, along with the time of completion. The user can also view the imported PCR to check the data quality scores for each PCR.

Step 4: ETL to the Data Warehouse

A nightly ETL (Extract, Transform, Load) process is used to cleanse the transactional data and populate the data warehouse. The data warehouse is used to store

normalized data for reports generation. The nightly SAS ETL process is a wipe and load, so all data is refreshed nightly. The ETL process is also used to export data to several other State Agencies, including public health for syndromic surveillance.

Step 5: Reporting

PreMIS currently contains three types of reporting engines, SAS, BIRT, and Jasper. All of the reports are available through CIS (Credentialing Information System), and are secured based on the user's role. These reports are real time and can be viewed in the browser or downloaded to a PDF document. Ad-hoc custom reports can be added at any time.

Another form reporting is the EMS Performance Improvement Toolkits:

The EMS Toolkits are a web-based reporting system focusing on specific patient care areas within EMS. The goal of each EMS Toolkit is to apply knowledge, data, and experience to evaluate and improve EMS service delivery, personnel performance, and clinical care.

A special emphasis is placed on assisting local and state EMS agencies regardless of their knowledge or expertise in performance improvement. Suggestions for improvements (interventions) are generated based on the EMS Toolkit results. Each EMS Toolkit is designed to measure and adjust performance over time. EMS Toolkit areas of analysis include the following:

- * EMS System Response
- * EMS Trauma Care
- * EMS Cardiac Arrest Care
- * EMS Acute Cardiac Care (STEMI)
- * EMS Acute Stroke Care
- * EMS Acute Pediatric Care

Mark your calendars for the 32nd Annual EMS Conference!

<http://www.wvoems.org/events/ems-conference>

Location

Flatwoods Days Hotel Conference Center
2000 Sutton Lane, Sutton, WV 26001
(304) 765-2032 FAX: (304) 765-2053

Lodging

Single: \$71.96 (plus hotel tax)
Double: \$80.96 (plus hotel tax)

Pre-conference

Thursday, November 12, 2009

General Conference

Friday, November 13-14, 2009.

About the Conference

Annually, the Office of Emergency Medical Services and West Virginia EMS Technical Support Network, Inc. host the Annual West Virginia EMS Conference, bringing vendors, speakers, and attendees together from across the state and the country.

Read the 2008 [Attendee Registration Package and Program](#) for more information about the most recent event held in Flatwoods, WV at the Days Hotel and Conference Center.

**No attendee registration packet has been developed for the 2009 conference.
Check back here!**

For additional information, contact [Carla Wisman](#) at WV EMS TSN.

Vendors

Looking for vendor/exhibit information? Download and complete our [Vendor/Sponsor Registration Packet](#).