Emergency Medical Service Institute
Annual Report     Fiscal Year 2014-2015

Medical Direction
326 Medical Command Physicians were registered.

1,330 ALS providers were credentialed (paperwork submitted to office).

18 Medical Command facilities were renewed.

There are 32 medical command facilities in the region.

The Study of Tranexamic Acid during Air Medical Prehospital Transport (STAMPP) Study was approved to be researched in the EMSI region.

There are 19 PA DOH accredited primary stroke centers in the region.

EMSI rolled out revised ALS skills review classes.

Both air medical services licensed to operate in the region had their protocols approved.

The regional Medical Advisory Committee met four times. One of these meetings was held in conjunction with physicians from EMMCO East and Southern Alleghenies.

Systems Operations

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
<th></th>
<th>Renewal</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Service</td>
<td>Vehicle</td>
<td>Service</td>
<td>Vehicle</td>
<td>Vehicle</td>
</tr>
<tr>
<td>BLS</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALS</td>
<td>4</td>
<td>8</td>
<td>58</td>
<td>380</td>
<td>5</td>
</tr>
<tr>
<td>QRS</td>
<td>11</td>
<td>14</td>
<td>18</td>
<td>73</td>
<td>4</td>
</tr>
</tbody>
</table>

96 licensure applications were processed.

218 total EMS agencies in the region - 134 licensed EMS agencies, 84 QRS agencies. This does not include 13 Swiftwater agencies and 1 new Rescue service.

Total number of personnel (QRS, vehicle rescue, swiftwater) is 1,704 with 219 vehicles recognized.

EMSI staff conducted 4 unannounced agency inspections.
1 new vehicle rescue service

1 swiftwater rescue renewal

4 new swiftwater rescue services

**Practitioner Services**

<table>
<thead>
<tr>
<th>Certified This Year</th>
<th>Total In Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMR</td>
<td>44</td>
</tr>
<tr>
<td>EMT</td>
<td>491</td>
</tr>
<tr>
<td>Advanced EMT</td>
<td>8</td>
</tr>
<tr>
<td>Paramedic</td>
<td>76</td>
</tr>
<tr>
<td>PHRN</td>
<td>25</td>
</tr>
<tr>
<td>PHPE</td>
<td>1</td>
</tr>
<tr>
<td>PHP</td>
<td>15</td>
</tr>
<tr>
<td>EMS-Instructor</td>
<td>30</td>
</tr>
</tbody>
</table>

(note: EMS instructors are dual certified)

11,550 certified practitioners in the region; 7,524 BLS providers; 4,026 ALS providers

4,832 photos and signatures were taken and placed on certification cards.

123 EMS providers requested re-registration packets; 16 achieved re-certification, 22 are still in the process of completing requirements

163 reciprocity packets were requested; 53 providers became PA certified (46 EMT and 7 Paramedic).

127 criminal history/driver's license suspensions investigated.

<table>
<thead>
<tr>
<th>Retention rates (active providers):</th>
<th>EMR</th>
<th>EMT</th>
<th>Paramedic</th>
<th>PHRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 1, 2015</td>
<td>78%</td>
<td>86%</td>
<td>98%</td>
<td>93%</td>
</tr>
<tr>
<td>July 1, 2015</td>
<td>88%</td>
<td>84%</td>
<td>96%</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Management Systems**

There were over 600,000 Patient Care Reports generated in the region and processed at EMSI.
Most Common Medical Categories (as seen by EMS [excluding not applicable/not available/transfers]) and busiest time of the day are:

1) Sick person 18%  1000 - 1100
2) Breathing Problems 5.6%  1300 - 1400
3) Fall Victim 4.8%  1300 - 1400
4) Traumatic Injury 4.7%  2000 - 2100
5) Chest Pain 4.0%  1200 - 1300
6) Traffic Accident 3.0%  1700 - 1800
7) Unconscious/Fainting 2.9%  1200 - 1300
8) Abdominal Pain 2.8%  0900 - 1000
9) Psychiatric Problem 2.4%  2000 - 2100
10) Stroke/CVA 1.5%  1400 - 1500

Busiest time of the day for EMS calls is between 1400 and 1500 with 6.7%. That is followed by 1300-1400, 1500-1600, 1000-1100 and 1200-1300. 38.1% of the daily calls occur between 1000 and 1600.

Busiest day of the week is Friday, followed by Tuesday and then Monday.

73.6% of calls are treated, transported by EMS. Nearly ten percent of the patients seen (according to PCRs) require no treatment. 4.5% of the patients (again, according to PCRs) refuse care.

29% of patient destination basis is by patient choice. 27% of the time it is based on closest facility and 18% of patients are transported to a destination based on patient’s physician choice. Ten percent of the patients are transported to specialty resource centers.

Staff participated in multiple PCR vendor roll-outs.

18 EMS agencies received 2015 American Heart Association Mission: Lifeline EMS Performance Achievement Awards.

Education

17 EMR programs ran in the region

50 EMT programs ran in the region

Allegeny 21  Armstrong 1  Beaver 2  Butler 2
Fayette 7  Greene 1  Indiana 4  Lawrence 2
Washington 4  Westmoreland 6

2 AEMT programs ran in the region

5 Paramedic programs ran in the region
4 EMS-Instructor classes were held

32 Basic Vehicle Rescue classes and 7 Special Vehicle Rescue classes were held

EMSI held 4 CPR classes at our office for healthcare providers.

EMSI hosted an EMS Instructor program in conjunction with CCAC attracting 23 students.

70 PHRN applications received; 32 successful completions of the PHRN – BLS psychomotor exam; 18 successful completions of the PHRN – ALS cognitive exam. 7 paramedics were upgraded to PHRN.

EMSI conducted 49 BLS psychomotor examinations (1,133 candidates tested) and 7 ALS psychomotor examinations.

EMSI conducted 78 first class visits.

One educational institute was re-accredited this year.

10 PHRN Prepare courses were conducted at EMSI.

**Continuing Education**

2,455 Con-Ed courses were registered in the region with 35,180 students enrolled.

Con-ed classes by county

<table>
<thead>
<tr>
<th>County</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny</td>
<td>1,296</td>
</tr>
<tr>
<td>Butler</td>
<td>277</td>
</tr>
<tr>
<td>Indiana</td>
<td>95</td>
</tr>
<tr>
<td>Westmoreland</td>
<td>269</td>
</tr>
<tr>
<td>Armstrong</td>
<td>72</td>
</tr>
<tr>
<td>Fayette</td>
<td>95</td>
</tr>
<tr>
<td>Lawrence</td>
<td>46</td>
</tr>
<tr>
<td>Beaver</td>
<td>62</td>
</tr>
<tr>
<td>Greene</td>
<td>75</td>
</tr>
<tr>
<td>Washington</td>
<td>168</td>
</tr>
</tbody>
</table>

613 Con-Ed by endorsement applications were processed.

22 continuing education sponsors were re-accredited. There are 159 sponsors in the EMSI region. EMSI approved 7 new sponsors.

EMSI approved 132 new continuing education course applications.

EMSI conducted 2 continuing education sponsor workshops.

269 patient actors/EMT assistants participated in NREMT psychomotor exams and received continuing education endorsement for their participation.
EMSI staff participated in the DOH EMSRS beta testing project.

Top fifteen continuing education sponsors by volume:

1. UPMC Prehospital Care
2. Butler County community College
3. Allegheny General Hosp
4. Ambulance and Chair
5. CCAC
6. Pittsburgh Bureau of Fire
7. IUP
8. City of Pgh EMS
9. Cumberland Mine
10. Mutual Aid
11. PA DEP Bureau of Mine Safety
12. Stat Medevac
13. Valley Amb
14. Allegheny Co Fire Academy
15. Westmoreland Co. Community College

Top ten continuing education classes offered:

1. 2015 Statewide BLS protocols
2. Haz Mat ops refresher
3. ACLS update
4. ALS skills review 2011
5. Naloxone for EMR
6. PALS update
7. EVDT
8. Grand Rounds 2 hr.
9. ACLS provider
10. Intersections/ operation safe arrival (EMSVO video)

Continuous Quality Improvement
15 complaints received at EMSI and investigated.
191 Fatal Accident Reports were researched.
54 accidents involving ambulances/EMS personnel were reported in the EMSI region.
The regional QI committee met four times.

WMD/Emergency Preparedness Activities
52 Task Force Meetings were held; 5 Table Top Exercises were conducted; and 3 Full Scale Field Exercises were completed.

One of the mandated responsibilities of the Regional EMS Councils is to assist Federal, State or local agencies, upon request, in the provision of onsite mitigation, technical assistance, and situation assessment, coordination of functions or post-incident evaluations in the event of a potential or actual disaster, mass casualty situation or other substantial threat to public health. As part of its fulfillment of these tasks, the Institute's WMD/Emergency Preparedness Division in conjunction with the PA Department of Health, and the Bureau of EMS actively participates with the Region 13 Task Force, as well as with Emergency Management officials throughout the region. During the past year, our personnel participated in the following meetings, exercises, events and real time disasters:

- Active Shooter Public Safety Training Drill in Brownsville
- Groundhog Day in Punxsutawney
- Mine Disaster Exercise Bailey Mine
- The Medical Reserve Corp RSS Training Exercise
- Region 13 Weather Exercise
- City of Bradford & Bradford Regional Medical Center Water Main Break
- Penn Highlands Elk MCI Exercise
- Active Shooter/MCI Exercise in Clearfield County
- Ebola/PPE Exercise

EMSI staff participated on Medical Subcommittee of the Joint Readiness Center, Region 13 EMS Committee, MMRS Health & Medical subcommittee and Steering Committee, Allegheny County Local Emergency Planning Committee, and Allegheny County Citizen Corp Council.

Organizational Management/Regional Activities

EMSI Update 2015 was held March 26, 27, and 28, 2015. There were 77 sessions and the conference provided 4,025 continuing education credits (2,972.5 clinical/core and 1,052.5 other). 943 registered participants attended. 47 exhibitors participated (over 12,000 square feet of exhibition space). Within Pennsylvania, 40 counties were represented. 40% of the attendees were female; 64% of attendees were over the age of 41. 58% of attendees were certified at the BLS level. 75% of the attendees registered for two days or more.

Richard Biernstein and the Jewish Healthcare Foundation received EMS Recognition Awards at the 2014 EMSI Annual Meeting held November 6 at the Pittsburgh Hilton Garden Inn.

EMSI, in conjunction with the Jewish Healthcare Foundation, hosted a QI workshop for EMS agencies.

EMSI hosted an EMS Agency Chief meeting involving guest speakers on criminal history research, line of duty death benefits, credentialing and continuing education. Seventy-five agencies were represented.
EMSI staff participated in EMS Night at PNC Park, EMS Week activities, and other agency and education institute events.

During Fiscal year 2014-2015, the Institute received a total budgeted amount of $1,838,077 from the Department of Health and spent the entire amount to support the EMS system in its ten-county region. An independent financial audit will be released in the fall of 2015.

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