Emergency Medical Service Institute

Annual Report  Fiscal Year 2015-2016

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Financial Statement of Income and Expenses:
During Fiscal year 2015-2016, the Institute received a total budgeted amount of $1,691,031 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 2016.

Regional Activities/Organizational Management
EMS Update 2016 was held March 31, April 1, and 2, 2016. There were 79 sessions and the conference provided 4,046.5 continuing education credits (3,626.5 clinical/core and 843 other). 913 registered participants attended. 52 exhibitors participated (over 12,000 square feet of exhibition space). Within Pennsylvania, 46 counties were represented. 34% of the attendees were female; 78% of attendees were over the age of 34. 57% of attendees were certified at the BLS level. 77% of the attendees registered for two days or more. 96.16% of the attendees were satisfied/very satisfied at the conclusion of the conference.

Dr. Sheila Roth, Ted Fessides, John D'Angelo, Gary Harvat, and Martin Raniowski received EMS Recognition Awards received at the 2015 EMSI Annual Meeting held November 5 at the Doubletree by Hilton Pittsburgh/Cranberry.
EMSI staff participated in EMS Night at PNC Park, EMS Week activities, and other agency and education institute events.

Medical Direction
265 Medical Command Physicians were registered.

1,165 ALS providers were credentialed (paperwork submitted to office).

6 Medical Command facilities were renewed.

There are 32 medical command facilities in the region.

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

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

Systems Operations

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
<th>Renewal</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Service</td>
<td>Vehicle</td>
<td>Service</td>
</tr>
<tr>
<td>BLS</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>ALS</td>
<td>1</td>
<td>1</td>
<td>21</td>
</tr>
<tr>
<td>QRS</td>
<td>4</td>
<td>8</td>
<td>18</td>
</tr>
</tbody>
</table>

EMSI staff also assisted neighboring EMS councils with agency licensure:

EMMCO

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
<th>Renewal</th>
<th>New</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Service</td>
<td>Vehicle</td>
<td>Service</td>
</tr>
<tr>
<td>BLS</td>
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<td>0</td>
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<tr>
<td>ALS</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>QRS</td>
<td>1</td>
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<td>4</td>
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</table>

SAEMS

<table>
<thead>
<tr>
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<th>Renewal</th>
<th>New</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Service</td>
<td>Vehicle</td>
<td>Service</td>
</tr>
</tbody>
</table>
67 licensure applications were processed.

134 total EMS agencies in the region.

Total number of personnel (QRS, vehicle rescue, swiftwater) is 1,818 with 219 vehicles recognized.

EMSI staff conducted 6 unannounced agency inspections.

13 active swiftwater rescue agencies
7 advanced level rescue agencies
1 operations level rescue agency
9 basic level rescue agencies

928 total number of licensed vehicles in region.

### Practitioner Services

<table>
<thead>
<tr>
<th>Certified This Year</th>
<th>Total In Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMR</td>
<td>38</td>
</tr>
<tr>
<td>EMT</td>
<td>598</td>
</tr>
<tr>
<td>Advanced EMT</td>
<td>12</td>
</tr>
<tr>
<td>Paramedic</td>
<td>94</td>
</tr>
<tr>
<td>PHRN</td>
<td>35</td>
</tr>
<tr>
<td>PHPE</td>
<td>2</td>
</tr>
<tr>
<td>PHP</td>
<td>17</td>
</tr>
<tr>
<td>EMS-Instructor</td>
<td>116</td>
</tr>
<tr>
<td>EMSVO*</td>
<td>0</td>
</tr>
</tbody>
</table>

(note: EMS instructors are dual certified)
(EMSVO denotes sole certification)

9,979 certified practitioners in the region; 6,897 BLS providers; 3,082 ALS providers

1,553 photos and signatures were taken and placed on certification cards.

104 EMS providers requested re-registration packets; 11 providers achieved re-certification, 31 candidates are still in the process of completing requirements

52 letters of Good Standing/Verification of EMS Status were prepared for providers seeking certification in other states.
172 reciprocity packets were requested; 40 providers became PA certified (29 EMT and 11 Paramedic). 16 candidates are still in process of completing requirements.

88 criminal history/driver’s license suspensions investigated.

<table>
<thead>
<tr>
<th>Renewal rates</th>
<th>EMR</th>
<th>EMT</th>
<th>Paramedic</th>
<th>PHRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1, 2015</td>
<td>63%</td>
<td>67%</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>October 1, 2015</td>
<td>32%</td>
<td>67%</td>
<td>45%</td>
<td>36%</td>
</tr>
<tr>
<td>January 1, 2016</td>
<td>56%</td>
<td>64%</td>
<td>50%</td>
<td>49%</td>
</tr>
<tr>
<td>April 1, 2016</td>
<td>47%</td>
<td>85%</td>
<td>52%</td>
<td>38%</td>
</tr>
<tr>
<td>July 1, 2016</td>
<td>24%</td>
<td>70%</td>
<td>54%</td>
<td>61%</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 18.6% 1100 - 1200
2) Breathing Problems 5.8% 1000 - 1100
3) Traumatic Injury 5.4% 1700 - 1800
4) Fall Victim 4.6% 1600 - 1700
5) Chest Pain 4.0% 1100 - 1200
6) Unconscious/Fainting 3.6% 1200 - 1300
7) Abdominal Pain 3.1% 1500 - 1600
8) Traffic Accident 2.6% 1500 - 1600
9) Psychiatric Problem 2.5% 1700 - 1800
10) Stroke/CVA 1.8% 1000 - 1100

Busiest time of the day for EMS calls is between 1400 and 1500. That is followed by 1500-1600, 1300-1400, 1200-1300 and 1100-1200. 45% of the daily calls occur between 1000 and 1600.

Busiest day of the week is Wednesday, followed by Friday and then Thursday.

73.4% of calls are treated, transported by EMS. Nearly 9.8 percent of the patients seen (according to PCRs) require no treatment. 4.6% of the patients (again, according to PCRs) refuse care. 5.6% of calls are canceled prior to EMS arrival.

14.3% of patient destination basis is by patient choice. 14.5% of the time it is based on closest facility, 4.5% based on family choice and 9.1% of patients are transported to a destination based on patient’s physician choice. 5.1 percent of the patients are transported to specialty resource centers. Over half of the PCRs do not record destination basis.
Medications administered (based on PCR chart review):

1) Normal Saline
2) Albuterol
3) Nitroglycerin
4) Fentanyl
5) Ondansetron
6) Aspirin
7) Epinephrine 1:10,000
8) Naloxone
9) Methylprednisolone
10) Midazolam

18 EMS agencies received 2016 American Heart Association Mission: Lifeline EMS Performance Achievement Awards (7 Gold, 4 Silver, and 7 Bronze).

**Education**

17 EMR programs ran in the region

59 EMT programs ran in the region

<table>
<thead>
<tr>
<th>County</th>
<th>EMT Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny</td>
<td>29</td>
</tr>
<tr>
<td>Armstrong</td>
<td>1</td>
</tr>
<tr>
<td>Beaver</td>
<td>2</td>
</tr>
<tr>
<td>Butler</td>
<td>3</td>
</tr>
<tr>
<td>Fayette</td>
<td>4</td>
</tr>
<tr>
<td>Greene</td>
<td>2</td>
</tr>
<tr>
<td>Indiana</td>
<td>4</td>
</tr>
<tr>
<td>Lawrence</td>
<td>2</td>
</tr>
<tr>
<td>Washington</td>
<td>2</td>
</tr>
<tr>
<td>Westmoreland</td>
<td>11</td>
</tr>
</tbody>
</table>

2 AEMT programs ran in the region

6 Paramedic programs ran in the region

4 EMS-Instructor classes were held

40 Basic Vehicle Rescue classes and 3 Special Vehicle Rescue classes were held

EMSI held 3 CPR classes at our office for healthcare providers.

EMSI hosted an EMS Instructor program in conjunction with CCAC attracting 20 students.

59 PHRN applications were received; 20 successful completions of the PHRN – BLS psychomotor exam; 28 successful completions of the PHRN – ALS cognitive exam. 7 paramedics were upgraded to PHRN.

EMSI conducted 46 BLS psychomotor examinations (1,224 candidates tested) and 6 ALS psychomotor examinations.

EMSI conducted 84 first class visits.
5 educational institute were re-accredited this year.

12 PHRN Prepare courses were conducted in Pittsburgh and Clearfield.

62 EMS Virtual Drive classes were conducted at multiple EMS agencies in the region with 624 providers participating.

Education staff worked with the National Domestic Preparedness Consortium to develop their Effectiveness Case Study.

**Continuing Education**

2,131 Con-Ed courses were registered in the region with 39,154 students enrolled.

**Con-ed classes by county**

<table>
<thead>
<tr>
<th>County</th>
<th>Con-Ed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny</td>
<td>1,194</td>
</tr>
<tr>
<td>Butler</td>
<td>288</td>
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<tr>
<td>Indiana</td>
<td>118</td>
</tr>
<tr>
<td>Westmoreland</td>
<td>321</td>
</tr>
<tr>
<td>Armstrong</td>
<td>68</td>
</tr>
<tr>
<td>Fayette</td>
<td>132</td>
</tr>
<tr>
<td>Lawrence</td>
<td>44</td>
</tr>
<tr>
<td>Beaver</td>
<td>69</td>
</tr>
<tr>
<td>Greene</td>
<td>75</td>
</tr>
<tr>
<td>Washington</td>
<td>244</td>
</tr>
</tbody>
</table>

793 Con-Ed by endorsement applications were processed.

21 continuing education sponsors were re-accredited. There are 166 sponsors in the EMSI region. EMSI approved 6 new sponsors.

EMSI approved 68 new continuing education course applications.

EMSI conducted 7 continuing education sponsor workshops.

264 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. Allegheny General Hospital
3. Butler County Community College
4. CCAC
5. Ambulance and Chair  
6. EMSI  
7. IUP  
8. STAT MedEvac  
9. Mutual Aid Ambulance Service  
10. Pittsburgh Bureau of Fire  
11. Valley Ambulance Authority  
12. City of Pittsburgh EMS  
13. Ross/West View EMS  
14. Cranberry Township EMS  
15. Alpha Natural Resources, Emerald Mine

Top ten continuing education classes offered:

1. AHA-ACLS Update Course  
2. Haz Mat ops refresher  
3. 2015 Statewide BLS Protocols  
4. Naloxone Administration for the EMR  
5. EMSI Regional Skills Verification Module 1  
6. EVDT Program  
7. PALS Update with Optional Lessons  
8. AHA-ACLS Provider Course  
9. Intersections – Operation Safe Arrival  
10. 2015 Statewide ALS Protocols

Continuous Quality Improvement
17 complaints received at EMSI and investigated.  
195 Fatal Accident Reports were researched.  
23 accidents involving ambulances/EMS personnel were reported in the EMSI region with 2 injuries.  
The regional QI committee met three times.

WMD/Emergency Preparedness Activities
53 Task Force Meetings were held; 4 Table Top Exercises were conducted; and 4 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:

- Tri-annual Disaster Drill at Pittsburgh International Airport
- Active Shooter Drill at Pittsburgh International Airport
- Two Exercises at Beaver Valley Nuclear Power Plant
- Regional 4 Nature Winds Deployment
- Regional Weather Exercise
- Groundhog Day in Punxsutawney
- US Men’s Open at Oakmont Country Club
- Papal Visit to Philadelphia
- Active Shooter Drill at Brookville School District

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.