National Registry of EMT’s Update

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Acknowledgement

- NREMT staff
- NREMT Board of Directors
- Participated in:
  - Item Writing
  - Committee activities
  - State Director orientation
State Director Orientation

• New State Directors
• Overview of NREMT functions
• Interact with staff
• NASEMSO Presence & Participation

• Reach out if we don’t contact you!
Total Nationally Certified EMS Providers
334,059

NH: 6,203
VT: 2,828
MA: 9,476
CT: 3,487
RI: 1,341
NJ: 2,520
DE: 1,820
MD: 7,455
DC: 900

Total National Certified Advanced EMT Professionals Map. June 2016
REPLICA
Recognition of Emergency Medical Services Personnel Licensure Interstate Compact
International EMS

- Ghana
- Bermuda
- Fatima College, Military Medics, UAE

- Same standards
National Continued Competency Program

NREMT Continued Competency Requirements
- National: 50% (updated every 4 years)
- Local: 25%
- Individual: 25%

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<th>Local</th>
<th>Individual</th>
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Recertification

• National EMS Certification expires every 2 years
  – EMR: September 30
  – EMT, AEMT, I85, I99, Paramedic: March 31

• Two methods
  – Traditional Continuing Education
  – Recertification by Examination

• Shift to electronic submission
Online Recertification

• Electronic verification of skills and education

• Algorithmic assessment of application
  – Decreases probability of incomplete application

• Decreased processing time
  – National average 11 hours and 24 minutes
Recertification by Exam

- Cognitive examination in lieu of continuing education
  - One attempt
  - Last 6 months of recertification
  - Utility for instructor/educator

- 1,467 registrants attempted exam in the 2014-2015 recertification season

- Success rate = 88%
Paramedic Student Portfolio

- Cohorts starting on August 1, 2016.
- Portfolio required for each student.
- Program director attestation.
- Individual Documentation of learning:
  - Emphasis on scenarios (early & often)
  - Team member (CRM)
  - Team leader
  - Real time with progressive length
  - Success & failure of skills
Updated Paramedic Psychomotor Exam

- Starting January 1, 2017

NRP candidates who have not started psychomotor testing on or after January 1, 2017

*Refresher and re-entry candidates use Pathway 3

NRP Phase 1 psychomotor exam (up to 2 full attempts)

Patient Assessment – Trauma, Dynamic Cardiology, Static Cardiology, Oral Station – Case A, Oral Station – Case B, Out-of-hospital Scenario
Transition from 12 to 6

Can only retest the following skills:
- Patient Assessment – Trauma
- Dynamic Cardiology
- Static Cardiology
- Oral Station – Case A
- Oral Station – Case B
  OR
Choose to complete the NRP Phase 1 psychomotor examination (up to 2 full attempts)

If retesting any of the following skills:
- Ventilatory Management – Adult
- Ventilatory Management – Supraglottic Device
- Intervenous Therapy
- Intravenous Medication
- Pediatric Intraosseous Infusion
- Random EMT Skills
Must complete the NRP Phase 1 psychomotor exam (up to 2 full attempts)

NRP candidates who have started psychomotor testing before January 1, 2017 and are eligible for retest
Integrated Out of Hospital Scenario

- New
- Candidate is the team leader
- Direct and provide care to manage complex patient conditions
- Full 20 minutes
- Real world
Scenario Development Workshops

- 22 across the nation
- NAEMSE partners
- Educator/instructor focus
- Develop formative & summative scenarios
# Fee Increase

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Mark King Reinstatement Initiative

• Reinstate your national certification
  – State license
  – Good standing
  – Required to maintain
  – No NREMT testing
Criminal Conviction Policy

- Evolving to increase effectiveness
- May not be needed with REPLICA

- Quiet Epidemic in EMS
- DWI/DUI/OVI
- Mental health, Addiction & substance abuse

- Work to be done
- Other professions?
Paramedic Program Accreditation and Student Performance
Research Question

• Is there a difference in performance between candidates graduating from accredited versus non-accredited programs on the National Paramedic Certification examination?
Study Population

- All 2012 Paramedic program graduates who applied for National Certification

8,404 Paramedic Candidates

- 87% (n=7,317) Accredited
- 13% (n=1,087) Non-Accredited
Methodology

• Chi-Square
• Independent Sample t-test
• Logistic regression

*All theta scores have been transformed from a logit to a 0-1000 scale
Accredited/Non-Accredited Candidate Performance

1\textsuperscript{st} Attempt Pass Rates

- 1\textsuperscript{st} Attempt Pass Rates
  - Accredited: 76%
  - Non-accredited: 67%
  * $p<0.001$
Accredited/Non-Accredited Candidate Performance

Cumulative 3rd Attempt Pass Rates

- Cumulative 3rd Attempt Pass Rates
  - Accredited: 89%
  - Non-accredited: 82%
  * p<0.001
Odds of Passing 1st Attempt

- Accredited program graduates
  - OR: 1.51 (95% CI: 1.31-1.73)
  - *p<0.001
Content Area Performance by Accreditation Status

*p<0.001
Conclusions

• Accredited program graduates:
  – Higher 1st and cumulative 3rd attempt pass rates
  – 50% greater odds of first-time success on cognitive examination
  – Higher cognitive performance in all content areas with the exception of EMS operations
Impact of High-Performing v. Low-Performing EMS Education Programs
Research Question

• Is attending a high-performing EMS education program associated with student performance on the National EMS Certification examinations?
High/Low Performing Program Definitions

• Modified Margolis Method
  – Benchmark: 2012 1st time pass rates
    • EMT: 65%
    • Paramedic: 68%
  – Programs were classified as high-performing if 2013 1st time pass rate was above benchmark
Study Population

- All 2013 EMT and Paramedic programs and graduates who applied for National Certification

2,242 EMT Programs
- 52% (n=1,168) High-Performing
- 31% (n=1,074) Low-Performing

746 Paramedic Programs
- 57% (n=425) High-Performing
- 43% (n=321) Low-Performing
Methodology

• Chi-Square
• Independent Sample t-test
• Logistic regression

*All theta scores have been transformed from a logit to a 0-1000 scale
EMT and Paramedic Graduates

- 67,716 EMT graduates in 2013
  - 59% (n=40,237) of EMT graduates attended a high-performing program

- 11,177 Paramedic graduates in 2013
  - 65% (n=7,262) of paramedic graduates attended a high-performing program
High/Low Performing Program

1st Attempt Pass Rates

- EMT 1st Attempt Pass Rates
  - High-Performing: 83%
  - Low-Performing: 43%
  * p<0.001

- Paramedic 1st Attempt Pass Rates
  - High-performing: 88%
  - Low-performing: 44%
  * p<0.001
High/Low Performing Program

Cumulative 3\textsuperscript{rd} Attempt Pass Rates

- **EMT** Cumulative 3\textsuperscript{rd} Attempt Program Pass Rates
  - High-Performing: 90%
  - Low-Performing: 60%
    * $p<0.001$

- **Paramedic** Cumulative 3\textsuperscript{rd} Attempt Program Pass Rates
  - High-performing: 95%
  - Low-performing: 67%
    * $p<0.001$
Odds of Passing 1st Attempt

• **EMT** from high-performing program
  – OR: 3.63 (95%CI: 3.51-3.76)

• **Paramedic** from high-performing program
  – OR: 4.68 (95%CI: 4.29-5.12)
EMT Content Area Performance

*p<0.001
Paramedic
Content Area Performance

*p<0.001
Conclusions

• High-performing program graduates
• Higher 1\textsuperscript{st} and cumulative 3\textsuperscript{rd} attempt pass rates
• Nearly 4-fold increase in odds of passing 1\textsuperscript{st} attempt
• Higher cognitive performance in all content areas
New Website

• [www.nremt.org](http://www.nremt.org)
Questions