

National EMS Advisory Council Provider and Community Education Subcommittee Report DRAFT June 2016

Title: A Practice Analysis of Community Integrated Healthcare: A method to determine the need for a new scope of practice and education standard.

Background

Mobile integrated healthcare (MIH) is a term used to describe an increasingly common health care delivery model offered by EMS agencies. There are many derivatives of the MIH title. This model differs from the traditional EMS model in that it is not transportation and emergency care focused. Instead, MIH programs focus on assessing the health and social needs of an individual, and then helping the individual to gain access to these health and social services resources, frequently in a non-hospital setting.

EMS professionals who work in a MIH system are commonly called community paramedics (CP) or some derivative of this title.

MIH programs are increasing in number across the United States.¹⁻³ A common characteristic of MIH programs is the use of an existing workforce - EMS professionals - to assess the unmet social or health needs in a community. In this function, EMS professionals partner with other healthcare providers including community health, home health, and hospice providers.

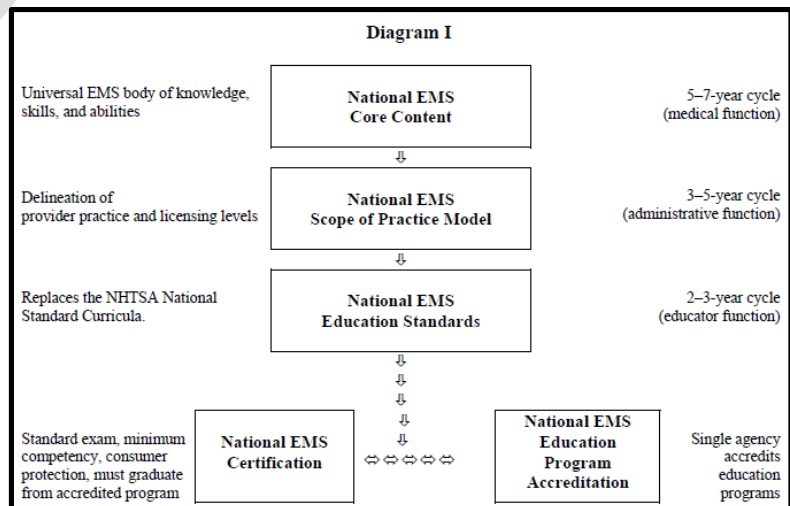
For the purposes of this document, 'practice analysis' means a systematic review of the cognitive and psychomotor skills used in the MIH setting by EMS personnel.

Problem Statement

Research has demonstrated the value and importance of the use of standards in many industries, including health care. EMS, like all other health care delivery models, functions optimally when supported by standards.

There is a strong tradition in the United States for a standards-driven practice of EMS. Evidence for this includes guidelines developed by the American Heart Association for treating cardiovascular disease and by the American College of Surgeons and the National Association of EMTs for the treatment of injuries.

There is also a strong tradition of standardization in healthcare education and credentialing. EMS has followed that tradition as evidenced by the National EMS Core Content, National EMS



Scope of Practice Model, National EMS Education Standards and common national certification and education program accreditation organizations – each of which is referenced in the pivotal publication, *National EMS Education Agenda for the Future: a Systems Approach*.⁴⁻⁷ (Diagram 1)

To date, in the United States there has been no systematic assessment of the cognitive foundation of knowledge or the psychomotor skills performed by EMS personnel operating in the MIH setting that has been published in peer review journals.^{8,9} Nor has there been an assessment of the education requirements necessary to address the cognitive foundation of knowledge and psychomotor skills for MIH that has been published in the peer-reviewed literature.⁹⁻¹¹

Reputable curricula have been developed for specific MIH initiatives; however, these are proprietary and are specific to the scope of a particular MIH initiative.^{12,13} Recently, a practice analysis of a limited number of MIH initiatives was completed¹. These resources can help guide the creation of national standards if the results of the practice analysis suggests that a separate scope of practice is needed for the CP working in MIH.

EMS medical directors would benefit from standardization of education, credentialing and treatment because EMS providers operate under their delegated authority.

EMS educators would benefit from national standards for scope of practice and education because it would provide a foundational basis for the education methodology and improve access to relevant curricula for instruction.

EMS regulators would benefit from standardization as this facilitates credentialing of EMS professionals and EMS educators and helps to ensure consistency in practice across communities.

Payors of EMS service would benefit from standardization as this facilitates evaluation of benefits for consumers.^{2,3,14-17}

Finally, because NHTSA has committed to updating the *EMS Agenda for the Future: a Systems Approach* and the National EMS Scope of Practice, a timely opportunity exists to incorporate MIH into the various national standards documents.

Resources/references related to the issue

1. Mobile integrated healthcare and community paramedicine (MIH-CP): a national survey. *EMS World*. 2015;Supp:5-16.
2. McGinnis K, Thompson K, Detenine J. *EMS Office Assessment of the Status of Community Paramedicine/Mobile Integrated Healthcare in the States and Territories*.; 2015.
3. *Final Advisory on Community Paramedicine*. Washington D.C; 2014.
4. *National EMS Core Content*. Washington D.C.; 2005.
5. Greenbauer L. *National EMS Education Standards*. Washington D.C.; 2009. papers3://publication/uuid/856DC761-53F3-47CC-9387-BA7E1F36CC41.
6. *National EMS Scope of Practice*. Washington D.C.
7. *EMS Education Agenda for the Future: A Systems Approach*. Vol 4. Washington

¹ Ask Anne for a citation

- D.C.; 2000. <http://www.nhtsa.gov/people/injury/ems/EdAgenda/final/index.html>.
8. Choi B, Blumberg B, Williams K. Mobile Integrated Health Care and Community Paramedicine: An Emerging Emergency Medical Services Concept. *Ann Emerg Med*. 2016;67(3):361-366.
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10. Iezzoni LI, Dorner SC, Sc M, Ajayi T. Community Paramedicine — Addressing Questions as Programs Expand. *N Engl J Med*. 2016;374(12):1107-1109.
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14. Medical Direction of Mobile Integrated Health Care and Community Paramedicine Programs. *Ann Emerg Med*. 2015;66(6):692-693.
doi:10.1016/j.annemergmed.2015.08.020.
15. *A National Agenda for Community Paramedicine Research*.; 2012.
16. *Expanding the Roles of Emergency Medical Services Providers: A Legal Analysis*. Arlington, VA; 2014.
17. Barr N, Bell J, Faraone L, et al. *Emergency Nursing Interface with Mobile Integrated Health (MIH) and Community Paramedicine (CP) Programs*.; 2015.

Crosswalk with other standards documents or past recommendations

EMS Agenda for the Future
EMS Education Agenda for the Future: a Systems Approach
National EMS Core Content
National EMS Scope of Practice
National EMS Education Standards
NEMSAC Final Advisory on Community Paramedicine

Analysis

The use of standards in healthcare is well established. The public-at-large, as well as EMS stakeholders, have benefitted from the structured approach to EMS enabled by the *EMS Education Agenda for the Future: A Systems Approach* and its accompanying resources which are the National EMS Core Content, National EMS Scope of Practice, and the National EMS Education Standards.⁵⁻⁷

Standardization of EMS is not meant to prevent variation in practice. Its purpose is to establish the base capability of a certified EMS provider, and to facilitate the physician-to-EMS provider delegation of practice necessary to meet the unique needs of each community.

This systems approach begins with an assessment of the activities of EMS providers in the work environment – a practice analysis. From the practice analysis the

core content and competencies for each level of certification are identified – a scope of practice. Finally, the framework of didactic and practical educational requirements are identified – the education standards.

When this systems system approach was implemented between 1996 - 2002, the Emergency Medical Responder, Emergency Medical Technician, Advanced Emergency Medical Technician, and Paramedic levels were included. There was extensive discussion about whether the community paramedic level was needed, but consensus determined that it was not appropriate at that time.

Educators, medical directors, payors and regulators benefited from the development, contents, and application of the National EMS Core Content, the National EMS Scope of Practice Model, and the National EMS Education Standards documents.⁴⁻⁶

This systems approach has not been applied to MIH programs. Without a thorough understanding of the practice of MIH gained by a practice analysis, the medical direction, insurance, education, and regulatory sectors are unable to adequately prepare, assess, reimburse, and license EMS providers who are medical care providers within in these programs.

More importantly, without national standards, it is very difficult to assess the risk/reward to the public from an MIH initiative. There is significant evidence that standardization improves the quality of care and reduces the likelihood of medical error.

The performance of a practice analysis on CPs functioning in a MIH program would allow for a similar assessment process for core content, scope of practice, and education standards. The results of this practice analysis will assist stakeholders, the public, and EMS providers to achieve their mutual goal of quality and cost-effective out-of-hospital patient care.

Nearly every state has approved or is contemplating the approval of a MIH program. To ensure the public benefits from important MIH initiatives nationwide, a structured approach is necessary to identify whether the existing scope of practice and education standards are appropriate, a practice analysis of MIH initiatives in vital.

Committee Conclusions

- EMS providers, educators, medical directors, regulators and payors are accustomed to a standard-based model;
- Standards have been proven to improve the quality of care and reduce medical errors;
- MIH is a new healthcare delivery model being offered in communities across the United States and EMS providers are working in a new environment with diverse goals;
- There are no national standards for the education, credentialing and evaluation of CP operating in a MIH program.
- Without national standards, the ability to describe the risk/benefit of MIH is problematic;
- A practice analysis of CP activities in MIH programs is necessary to determine whether CP requires its own scope of practice, education standards and credentialing.

- Because NHTSA has committed to updating important national standards, the time is right to conduct this practice analysis.

Recommended Actions/Strategies:

- **National Highway Traffic Safety Administration**
 - As soon as possible, contract with an appropriate organization to:
 - Evaluate existing practice analyses of CPs working in MIH initiatives;
 - Conduct a representative assessment of existing MIH initiatives to develop a practice analysis of CP; and
 - Publish the results of the practice analysis in a peer-reviewed journal.
 - Move forward with efforts to contract with an appropriate organization to review the existing National EMS Scope of Practice Model document
 - Begin the project with the EMR, then EMT, then Advanced EMT, and finally the Paramedic to create sufficient time for the CP practice analysis to be completed.
 - If the practice analysis suggests that CP has a different scope of practice from the Paramedic, include the development of the CP scope of work in the contract.

References

1. Mobile integrated healthcare and community paramedicine (MIH-CP): a national survey. *EMS World*. 2015;Supp:5-16.
2. McGinnis K, Thompson K, Detenine J. *EMS Office Assessment of the Status of Community Paramedicine/Mobile Integrated Healthcare in the States and Territories.*; 2015.
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