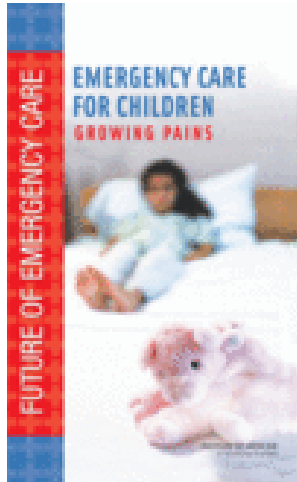


Emergency Medical Services for Children



Elizabeth A. Edgerton, MD, MPH, FAAP
Branch Chief for EMSC and Injury Prevention
Department of Health and Human Services
Health Resources and Services Administration





Emergency Care For Children: Growing Pains

“Unfortunately, although children make up 27 percent of all visits to the ED, many hospitals and EMS agencies are not well equipped to handle these patients.”



Considerations



- On average, 10% of EMS runs involve children and adolescents (**rare event**)
- 90% of ED visits by children occur in hospitals not specifically designed to treat children. (**pediatric hospital recognition**)
- Last national assessment of EDs showed that only 6 % of EDs in the United States have all the recommended equipment and medication needed to treat children (**pediatric readiness**)



The Origins of EMSC



June 15, 2011 CONGRESSIONAL RECORD—SENATE

EMERGENCY MEDICAL SERVICES FOR CHILDREN PROGRAM

Mr. INOUE. Mr. President, I rise today to speak about the importance of the Emergency Medical Service for Children, or EMSC, Program. Recently, we celebrated National EMSC Day, an annual event raising awareness about the **need to improve and expand specialized care for children in the prehospital and acute care settings.** The EMSC Program holds great personal importance to me. More than 30 years ago, Senator HATCH and I, on a bipartisan basis, took note of the systematic problems and deficiencies surrounding emergency care for children. With these deficiencies in mind, we authored legislation to address the gaps in emergency care for children.

Through the support of the American Academy of Pediatrics and the Surgeon General the bill became law in 1984 authorizing Federal funding for EMSC.



Patient Protection and Affordable Care Act of 2010



The **Emergency Medical Services for Children (EMSC)** Program is authorized under section 1910 of the Public Health Service Act (42 U.S.C. 300w-9). It is the only Federal program that focuses specifically on improving the pediatric components of emergency medical care.





Mission of EMSC



The EMSC Program addresses the entire continuum of pediatric emergency services, from injury prevention and EMS access through out-of-hospital and emergency department care, intensive care, rehabilitation and reintegration into the community

Senator Inouye 6-14-11



EMSC Portfolio

Grants

14.4 Million (73%)

- PECARN (6)
- Targeted Issue (9)
- State Partnership (59)
- Regionalization of Care (4)

Support Services

4.3 Million (22%)

- Data Coordinating Center (DCC)
- National Resource Center (NRC)

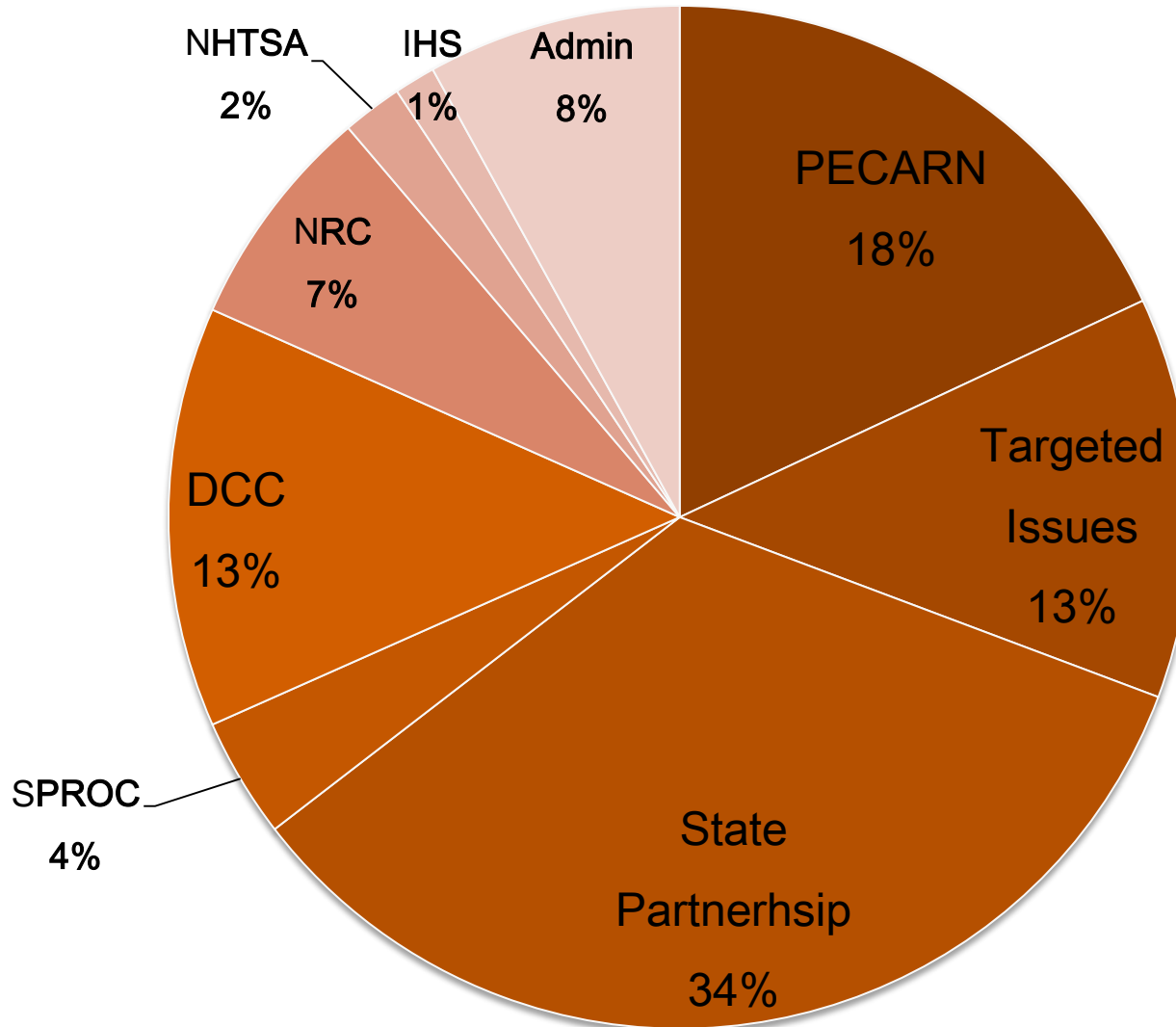
IAA

0.675 Million (3%)

- DOT/NHSTA -Office of EMS
- Indian Health Service
- Agency for Health Care Research AHRQ



FY2012





EMSC State Partnership Program



Provides funding to 49 states, DC, and 5 territories to improve pediatric care through performance measures:

- Medical direction
- Pediatric equipment
- Facility recognition
- Inter-facility transfer
- Institutionalization of EMSC in the State system



Emergency Medical Services for Children

Enter Your State/Territory:

Select your State/Territory, click "Submit"

State / Territory:

SUBMIT

If you **do not see your state/territory in the dropdown list above**, then your state/territory currently does not have any open surveys.

Please contact the individual from whom you acquired this web address.

This site is for Emergency Medical/Hospital Professionals who have been invited to take an on-line survey for the Emergency Medical Services for Children (EMSC) Program.

Please follow the directions in the box to the left.

Thank You!





EMSC Performance Measure Data Collection



- Data collected from EMS agencies
 - Over **6,300** agencies surveyed
 - Overall survey response rate was 82%
- Data collected from hospitals
 - **2,644** hospitals surveyed
 - Overall survey response rate was 79%
- More information available at www.nedarc.org

From EMS Preparedness....to ED Preparedness





The National Pediatric Readiness Assessment



- Based on 2009 National Guidelines.
- Developed by Readiness Working group
- Web based survey
- Nurse Leader to complete the survey
- Released in California January 2012
- National roll out-2013

PEDIATRICS®

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

Joint Policy Statement Guidelines for Care of Children in the Emergency Department
AMERICAN ACADEMY OF PEDIATRICS COMMITTEE ON PEDIATRIC EMERGENCY MEDICINE, AMERICAN COLLEGE OF EMERGENCY PHYSICIANS PEDIATRIC COMMITTEE and EMERGENCY NURSES ASSOCIATION PEDIATRIC COMMITTEE
Pediatrics published online Sep 21, 2009;
DOI: 10.1542/peds.2009-1807

The online version of this article, along with updated information and services, is located on the World Wide Web at:
<http://www.pediatrics.org>

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American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

Welcome to the

National Pediatric Readiness Project

Measuring Pediatric Readiness in Emergency Departments to Improve Care for Kids

National Pediatric Readiness Survey

Select Your State:

To start the survey, select your State from the drop down list, click "Get Started."

California

GET STARTED >>

If you do not see your state in the dropdown list above, then your state does not have any open surveys.

Supported by:



Welcome! This site is for hospital professionals who have been invited to take an on-line survey regarding the pediatric readiness of hospital emergency departments.


We recommend that you PRINT a paper copy of the survey FIRST before you take the survey to assist you in compiling your answers. You can download a copy of the survey by clicking on the link below:

[Paper Version of Survey](#)
(for reference purposes)

To view the survey response rates, select the link below:

 [View Response Rates](#)

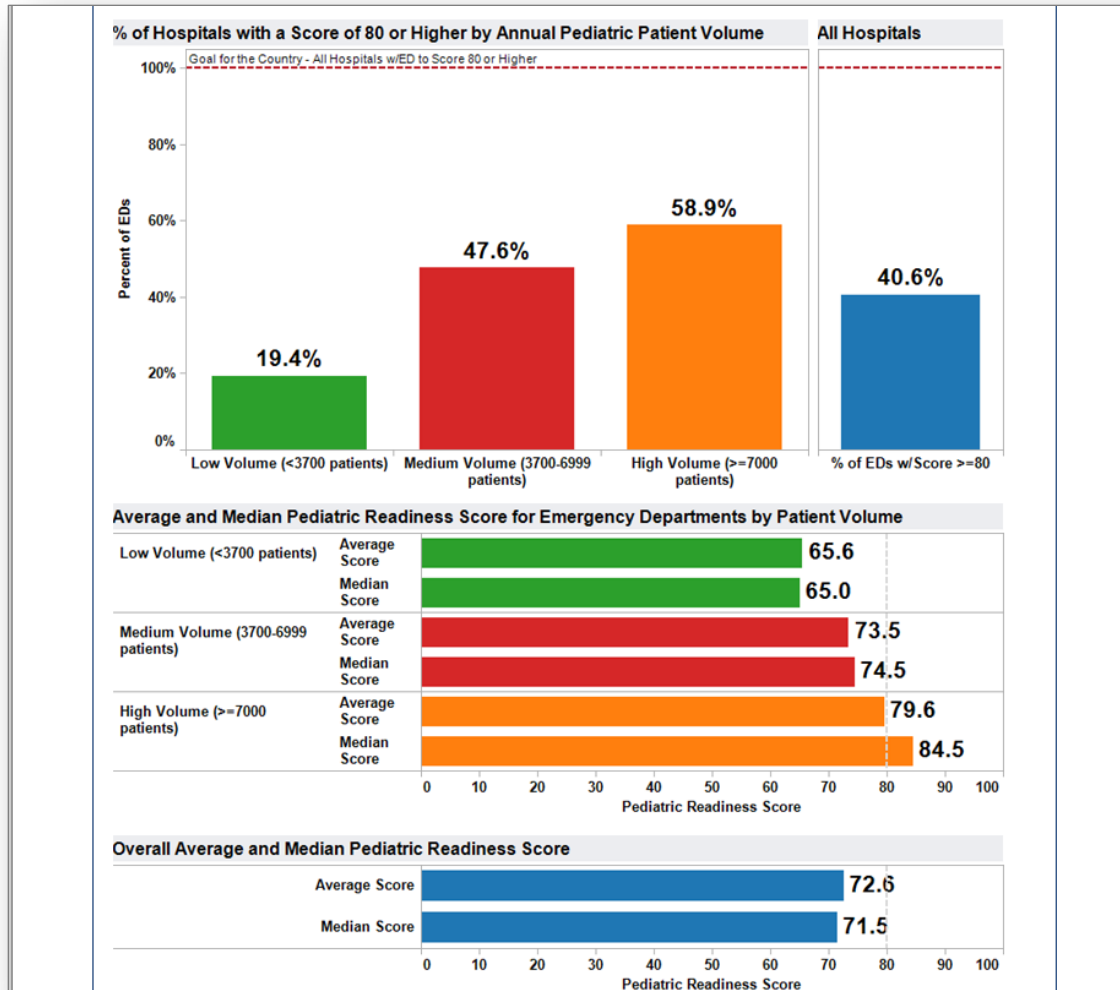
To view the national results, select the link below:

 [View National Results](#)





National Pediatric Readiness Assessment





Improving Knowledge about Pediatric Emergency Care



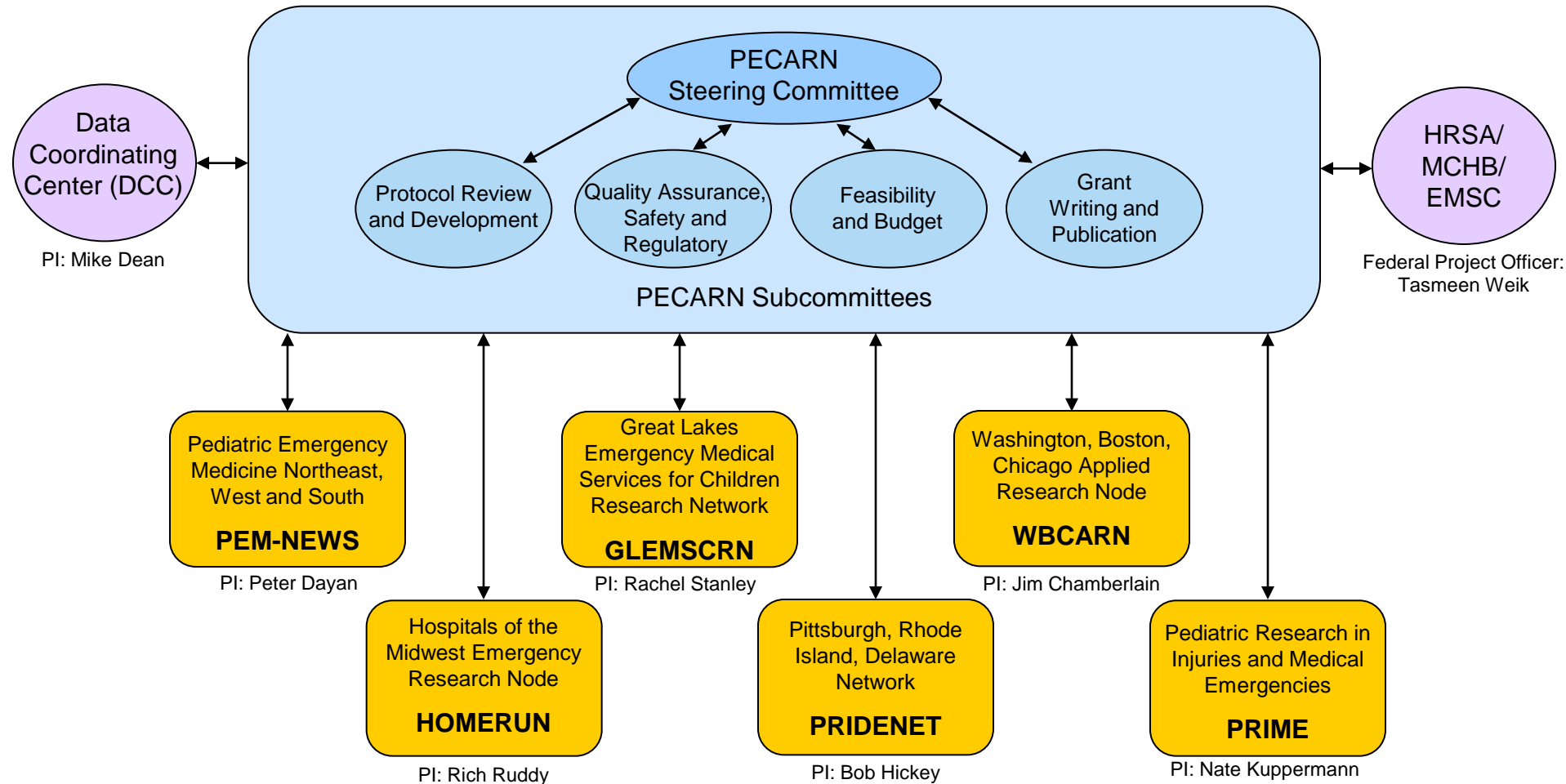
Targeted Issue Grants

- Issues of national significance with potential to improve practice in the field.
- Many focus on the pre-hospital environment.

Pediatric Emergency Care Applied Research Network (PECARN)

- Creating an infrastructure to conduct rigorous studies in pediatric emergency care.
- Use of medications in the pre-hospital setting







Publications



- PECARN has published 33 papers and 68 abstracts.
- Recent publications include:
 - Identifying children at very low risk of clinically-important traumatic brain injuries after blunt head trauma. *Lancet* 2009;374:1160-1170
 - Factors associated with cervical spine injury in children following blunt trauma. *Ann Emerg Med* 2010
 - A new diagnosis grouping system for child emergency department visits. *Acad Emerg Med* 2010;17:204-210
 - Multicenter cohort study of out-of-hospital pediatric cardiac arrest. *Crit Care Med* 2010
 - The effect of observation on head computed tomography (CT) utilization for children after blunt head trauma. *Pediatrics* 2011



Background: Targeted Issues Grants



- Typically, the projects result in a new product or resource or demonstrate the effectiveness of a model system component or service of value.
- Objectives must meet a demonstrable need. Methodologies and strategies for achieving the objectives must be realistic, appropriate, and scientifically sound. Each project must contain an evaluation plan that contains measurable outcomes and clearly defined time frames for conducting the evaluation.
- **Awards range up to \$300,000 per year for up to three years.**
- In FY 2010, the EMSC Program awarded nine new TI grants, each receiving up to \$300,000 a year for up to three years. Anticipate a new competitive competition in FY2013.



Current TI Grants



Grants focusing on Disasters and Preparedness

- **Connecticut:** (Year 2) “Small Victims, Big Challenges: Refining Pediatric Disaster Triage Algorithms and Education in the Prehospital Setting.”
- **Massachusetts:** (Continuation) “REUNITE: A Novel Imaging System for Children Separated During Disaster.”

Grants focusing on Regionalization and EMS Systems

- **Illinois:** (Year 2) “Pediatric Facility Recognition/Categorization: Models of Best Practice, Implementation and Evaluation.”
- **North Carolina:** (Year 2) “EMS and Pediatric Trauma: A North Carolina Population Based Performance Improvement Intervention and Evaluation Using Multiple Linked Healthcare Databases.”
- **North Carolina:** (Year 2) “Evaluation of a Pediatric Emergency Care Recognition Program on Care of Injured Children.”



Current Grants



Grants focusing on Clinical Efficacy and Patient Safety

- **California:** (Year 2) “Utility of Abdominal Ultrasound during Emergency Department Evaluation of Children with Blunt Trauma.”
- **Michigan:** (Year 2) “Progesterone for Traumatic Brain Injury in Children: Planning a Safety and Efficacy Trial.”
- **Michigan:** (Continuation) “Michigan Pediatric Errors and Excellence Discovery with Simulation.”
- **Texas:** (Year 2) “Integrating Evidence-Based Pediatric Prehospital Protocols into Practice.”
- **Washington, DC:** (Year 2) “Reducing Errors in Pediatric Trauma Resuscitation Using a Checklist.”
- **Washington, DC:** (Continuation) “Family Presence During Pediatric Trauma Team Activation: Measuring the Effects of a Multidisciplinary Approach to Patient-Family-Centered Care.”

Grants focusing on Injury and Illness Prevention

- **Connecticut:** (Continuation) “Efficacy of Driving Simulator Training for Novice Teen Drivers.”
- **Massachusetts:** (Year 2) “ExSTRA: Evidence-Based Screening for Siblings and Contacts of Abused Children.”

EMSC NRC





Dissemination & Knowledge Transfer



- Engage diverse stakeholder groups (across disciplines and systems of care)
- Support forums for strategic partnership
 - Adoption of policy, guidelines, or evidence
- Disseminate current best practices to appropriate audiences (grantees, providers, public, decision makers)
- Support initiatives to institutionalize EMSC within other systems of care



EMSC Initiatives



- Knowledge translation of PECARN findings
 - Clinical decision making for mild TBI
- Pediatric Readiness Initiative
 - 22 stakeholder groups
- Evidence Based Guideline (EBG) protocol development
 - Impacts practice in EMS field
- Regionalization of care



State Partnership Regionalization of Care (SPROC) Program

- Program intends to develop Models of Inclusive Care that can be replicated in other regions where access to specialized pediatric medical treatment is limited due to geographical distances or jurisdictional borders
- Focus is to develop regionalized systems that encompass the sharing of resources and improved access to pediatric healthcare services for children and families in tribal, territorial, insular and rural areas
- In June 2012, HRSA awarded \$1.2 million over the next four years to six awardees: Alaska, Arizona, California, Montana, New Mexico, Pennsylvania



Training



- The EMSC National Resource Center has free resources accessible by public.
 - Online trainings
 - Searchable resources
 - Disaster Preparedness
 - Fact sheets
 - Educational curricula on pediatrics
 - Podcasts on patient safety
 - Print ready materials for grantees for EMSC related events



Research - Publications



- QuickNews is a weekly listserv message that is disseminated to over 700 subscribers. Academic articles that may be of interest to the pre-hospital and hospital community are also featured.

◀ Previous Issue Thursday, February 16, 2010

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QUICKNEWS

A Weekly Online Digest of EMSC Program News and Activities

Top News

Dr. Elizabeth Edgerton Named Branch Chief for EMSC and Injury Prevention
As reported in Monday's Special Announcement, the Health Resources and Services Administration (HRSA) has announced that, effective February 14, Elizabeth Edgerton, MD, MPH, will be the new Branch Chief for EMSC and Injury Prevention within the Division of Child, Adolescent and Family Health, the Maternal and Child Health Bureau (MCHB). Dr. Edgerton is a previous EMSC Targeted Issues grantee and a recipient of the 2004 National Heroes Award for Outstanding EMSC Research Project. Most recently she served as an attending physician in the Emergency Medicine and Trauma Center at Children's National Medical Center in Washington, DC.

Please join HRSA/MCHB and the staffs of the EMSC National Resource Center and the National EMSC Data Analysis Resource Center in welcoming Beth to her new leadership role.

Fiscal Year (FY) 2011 Continuing Appropriations
On Friday, February 11, the House Appropriations Committee released HR 1, a FY2011 appropriations bill to fund federal agencies and programs from March 5, when the current continuing resolution expires, through September 30, the end of the fiscal year. This bill represents an approximately \$100 billion decrease in federal spending compared to the President's budget request for fiscal year 2011. Despite these cuts, the bill contains continued level funding for the EMSC Program (annual at \$21.5 million). There is a chance this amount may change as the House considers the hundreds of amendments submitted to the bill. The House is expected to take a

Inside this Issue

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- [Reports of Interest](#)
- [Funding Opportunities](#)
- [Research Resources and Results](#)
- [Save the Date](#)
- [Careers in EMSC](#)

Save the Date

- [EMSC/FICEMS Exception From Informed Consent Webinar](#) taking place February 26, 2011 from 10:30am-12noon EST.
- [HRSA EMSC Webinar: A Review of the New MCHB Performance Measures](#) taking place February 28, 2011 at 3:00pm EST.
- [EMSC/FICEMS Exception From Informed Consent in Pediatric Trials](#) taking place March 25, 2011 at 12noon EST.



Initiatives At EMSC



NHTSA - Federal EMSC Program

- Support of EMS Leadership
 - FICEMS
 - NEMSAC
 - NASEMSO
- Preshospital Education-National Standards
- Evidence-Based Guidelines Framework
 - EMS pediatric protocols
 - Helicopter transport protocols
- Culture of Safety



Initiatives At EMSC



Indian Health Service- Federal EMSC Program

- Ensure the presences of EMSC in the delivery of care
- Supporting pediatric specific training in prehospital and hospital setting
- Supporting regionalization of care with State Partnership Grants
- Integrating Pediatric Readiness into IHS Quality of Care Initiative
- Integrating activities of the AAP Committee on Native American Child Health



What is EMSC doing



Quality Improvement

- State Partnership Grants
- State Partnership-Regionalization of Care

Knowledge Generation

- Targeted Issues Grants
- Pediatric Emergency Care Applied Research Network-PECARN

Support & Dissemination

EMSC National Resource Center

EMSC Data Coordinating Center





Contact Information

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