

HRSA Goals for EMSC-NDDP Cooperative Agreement Program

- Maintain a research infrastructure or network designed to be the platform from which to conduct investigations on the efficacy of treatments, transport, and care responses of acutely ill and injured children.
- Utilize the infrastructure to overcome difficulties in assessing efficacy and quality of care that result from the relatively small incidence rates of pediatric emergency events.
- Utilize the infrastructure to conduct observational and interventional studies on a variety of issues related to Emergency Medical Services for Children (EMSC) including processes involved in transferring research results to **treatment settings**.

Vision	Program Goals	Resources/Inputs	Network Organizing Activities	Network Scientific Activities and Engagement	Network Scientific Outputs	Outcomes	Impact
<p>To work with diverse demographic populations and across varied geographical regions to promote the health of children in all phases of emergency care.</p>	<p>Conduct high priority, high impact EMSC research using rigorous study design and methodologies</p>	<p>HRSA/MCHB/EMSC Recognition of network importance Project Officer support/ input</p>	<p>PECARN infrastructure, organization bylaws, policies</p> <p>Regular meetings: ✓ Executive Committee ✓ PECARN Steering Committee ✓ Future investigators ✓ Subcommittees ✓ Working and interest groups ✓ Expert guests</p>	<p>Conduct pediatric emergency care research across the continuum including preventive care, prehospital, emergency and acute care research</p>	<p>High priority/high impact research findings</p> <p>Research results that are reliable, valid and statistically sound</p>	<p>Develop new knowledge relevant to EMSC nationally and globally</p>	<p>Improved pediatric emergency and prehospital care</p>
<p>To conduct meaningful and rigorous multi-institutional research into the prevention and management of acute illnesses and injuries in children and youth across the continuum of emergency care.</p>	<p>Establish, maintain and support rigorous processes to: ✓ Develop projects ✓ Obtain extramural funding ✓ Conduct investigations ✓ Communicate results ✓ Develop investigators ✓ Improve research skills of all personnel</p>	<p>Infrastructure funding for PECARN Nodes and Data Coordinating Center (DCC) Extramural research funding EMSC Innovation and Improvement Center (EIIIC) support</p>	<p>Intra-nodal organization and accountability EMSC research agenda</p>	<p>Translate/disseminate findings to academic and non-academic communities Mentor new investigators and engage experienced EMSC researchers Engage other research networks</p>	<p>Dissemination of research results: ✓ Peer reviewed publications ✓ Scientific conference presentations ✓ Decision rules ✓ EMSC EIIIC Toolkits ✓ Social media and other dissemination platforms ✓ Technology-based knowledge translation products ✓ Community outreach</p>	<p>Knowledge translation and implementation of research evidence in the clinical community</p>	<p>Decreased morbidity and mortality in the pediatric emergency population</p>
<p>PECARN Values</p> <ul style="list-style-type: none"> ➤ Pediatric focus ➤ Collaboration to generate and disseminate new knowledge ➤ Transparency and honesty in communication within the network and the greater scientific community ➤ Commitment to the highest integrity and quality in the conduct of research 	<p>✓ Facilitate translation of research results to EMSC practices and policies ✓ Disseminate results to all providers involved in the care of these patients ✓ Collaborate with groups working to implement practice changes</p> <p>Collaborate with EMS providers, researchers, networks, patient/family advocacy groups and other pediatric emergency health care providers</p>	<p>Network organizational structure Affiliation with and support from local CTAs and medical schools Collaboration with Federal stakeholders in pediatric emergency care research Biostatistical expertise including novel statistical methods (DCC) University of Utah Trial Innovation Center</p>	<p>Establish/maintain plan for disseminating research results Establish/maintain network evaluation plan Establish/maintain network performance metrics to demonstrate efficiency and quality of research process</p> <p>Data Coordinating Center: ✓ Policy development ✓ Technical support ✓ Standardization ✓ Project management ✓ Quality improvement</p>	<p>Participate in multi-network and international research Develop, assess and refine scientific protocols and grants using network expertise and resources Strengthen PECARN capacity; engage content experts and leverage strengths of other innovative resources</p> <p>Data Coordinating Center support: ✓ Research protocol and grant development ✓ Data management ✓ Statistical analyses ✓ Regulatory compliance ✓ Education, training</p>	<p>Future investigator meetings, individual mentoring Research collaboration with national and international research networks and other outside partners, which grows the infrastructure for EMSC research nationally and internationally</p> <p>Engage policy makers and funding agencies Leverage EMSC funding opportunities</p>	<p>Strengthen pediatric emergency care and research Develop the next generation of pediatric emergency care researchers Release public use data sets International research collaboration and impact Growing visibility and impact of PECARN Increased EMSC funding opportunities</p>	<p>Improved systems of pediatric care Improved infrastructure for pediatric emergency care research</p>

Challenges

- Obtaining adequate research funding to support large multi-center studies
- Translating findings to general hospitals without specialized pediatric emergency services
- Enrolling adequate numbers of diverse children to provide robust data

