

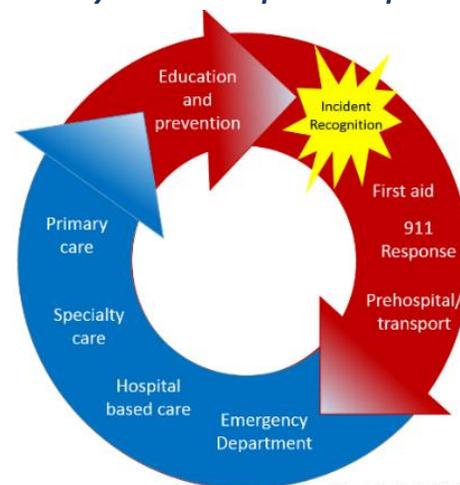
# The Pediatric Emergency Care Applied Research Network (PECARN)

## EMS For Children



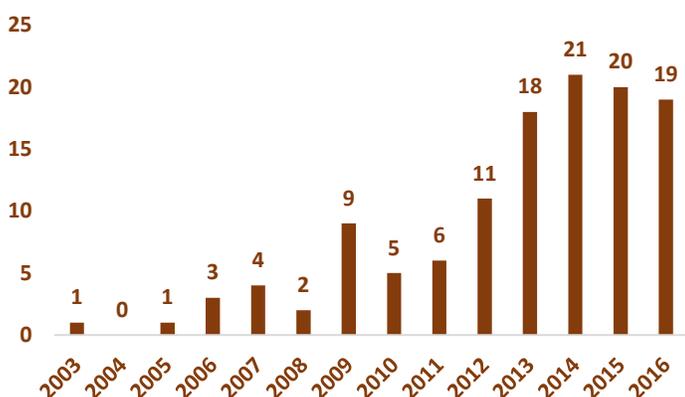
The Pediatric Emergency Care Applied Research Network (PECARN) is the first and only federally-funded research network in pediatric emergency medicine in the United States. **Serving approximately 1.1 million pediatric patients**, PECARN conducts rigorous research into the prevention and management of acute illnesses and injuries in children from the pre-hospital setting, to the emergency department to the in-patient hospital setting.

In less than 2 decades, PECARN has generated nearly 2 dozen research studies, published **more than 120 impactful articles in peer-reviewed journals, and has been awarded more than \$100 million in research grants (\$2 for every \$1 invested by HRSA)**. PECARN research discoveries have made powerful improvements in health care to ill and injured children that could not have occurred at local or state levels.



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Number of publications



The steep trajectory of publication productivity and external funding of the network demonstrates **the importance of longterm attention to maintaining the infrastructure of talented researchers and research infrastructure along the Emergency Medical Services for Children continuum.**

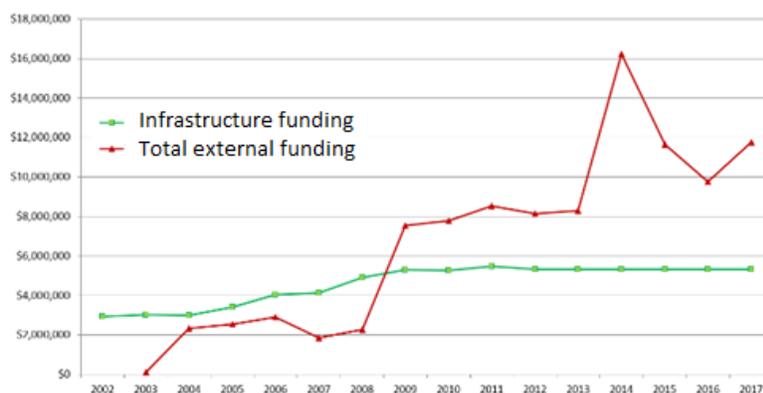
PECARN Research and Innovations have included:

**Mental health:** Rapidly screening children who might not otherwise have access to mental health services by providing effective tools for ER deployment.

**Opioid/substance abuse:** Development/testing of rapid screening tools to assess adolescents at risk for substance abuse in non-traditional settings (ER). **Sepsis**

carries a high risk of mortality and morbidity. PECARN is identifying unique and cutting-edge strategies to rapidly identify children with and without bacterial infections (distinguishing those more at risk for sepsis). **Traumatic Injury:** Ionizing radiation such as that delivered with CT scans has been linked to cancer deaths. PECARN has designed strategies and screening tools to define which children who have sustained head or abdominal trauma would benefit most from diagnostic tests. This minimizes unnecessary and harmful radiation from CTs.

PECARN Internal (HRSA) and External Funding by Year



For more information, contact the EMSC Innovation and Improvement Center at <https://www.emscimprovement.center>