

The **Pediatric Research Cores Highlight (PeRCH)** is a feature showcasing specialized services that support child health researchers at Emory University, Children's Healthcare of Atlanta, and their partner institutions.

Children's Health Informatics Core (CHIC)

The Emory + Children's Health Informatics Core (CHIC) provides state-of-the-art informatics expertise to investigators looking to leverage electronic health record (EHR) data and related technologies for research, multicenter collaboration, and interventions to promote health in children. For CHIC rates, including for our new project management services, [click here](#)

CHIC CORE PROJECTS

Pediatric Technology Center Support: The Children's Pediatric Technology Center (PTC) in collaboration with Georgia Tech promotes scientific and engineering research covering a wide range of topics important to pediatric healthcare. The PTC has a focus on application engineering and data analysis to solve the practical problems that kids face in diagnosis and treatment at home and in the hospital. CHIC supports PTC in key pillar projects:

Pillar 1: The AI-Enhanced Decision Support for Hospital Capacity Management Project builds on ACCORD, aiming to improve hospital operations with a digital twin approach. Starting July 2026, Phase 1 will involve CHOA leaders in planning workshops to define unified goals, measurable outcomes, and create a scalable system from ICUs to the entire health network.



Pillar 1: The ACCORD project, co-led by Dr. Naveen Muthu and Dr. Kai Wang, is on a mission to ensure no preventable deterioration happens in the hospital. By harnessing the power of AI, this pioneering initiative is crafting a future where anticipating pediatric patient deterioration becomes the norm, not the exception. The study team will launch a pilot with the critical care outreach team in Q3-Q4 as predictive model deployment concludes

PEDSnet: PEDSnet is a nationwide learning health system focused on multicenter studies and improving pediatric care models. Since CHIC's application was approved last year, study teams across Emory and Children's have submitted six proposals to leverage the PEDSnet framework. The first was recently awarded (PRESERVE 2.0, with Dr. Chia-shi Wang)! Significant progress has been made building the technology infrastructure and processes to meet the data quality standards toward submitting Children's data to PEDSnet. We aim to complete two additional phases of data quality improvement by the end of the year. The momentum built in Phase 1 lays a strong foundation for advancing subsequent phases and broader project objectives throughout 2026 and beyond

CYTEK SPECTRAL AND IMAGING FLOW CYTOMETRY SYMPOSIUM

Emory + Pediatrics/Winship Flow Cytometry Core, in partnership with Cytek Biosciences, invites you to the upcoming **Spectral and Imaging Flow Cytometry Symposium**. This event features guest speakers and the latest advancements in spectral and imaging, on **Tuesday, July 21st**, from 9 am-5 pm in HSRB I Auditorium.

[REGISTER NOW](#)

LEARN MORE ABOUT OUR CORES

The Emory + Children's Pediatric Research Ecosystem is supported by a network of shared research cores that provide specialized expertise, technologies, and services to investigators. [Visit our website](#) to explore each core's services, available resources, and contact information.

[LEARN MORE](#)



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