

How Pediatric Research in Office Settings (PROS)



Has Changed Pediatric Care: The Value of Participation

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PROS Director, American Academy of Pediatrics

with Caroline Morgan, MD

Pirate Pediatrics

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American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

Objectives



In this session, you will learn:

1. What is the American Academy of Pediatrics (AAP) Pediatric Research in Office Settings (PROS) network.
2. The value of practicing pediatricians as contributors to primary care research.
3. About PROS studies that have changed pediatric primary care practice.
4. How to join a PROS study.

Unanswered Questions

Possibilities



1986

Groundbreaking Origins

Groundbreaking Early Studies: 1986-2001



**Pre-School Vision
Screening Study
1987-1992**

**Can we prevent
blindness?**



**Febrile Infant
Study
1995-2004**



**Can we avoid
invasive
procedures and
still keep kids
safe?**

febrile infant study

A graphic of a thermometer with a scale from 94 to 110. The scale is marked with numbers 94, 96, 98, 100, 102, 104, 106, 108, and 110. The thermometer is positioned horizontally below the text 'febrile infant study'.

**Safety Check:
Randomized Controlled Trial to
Prevent Child Violence
2001-2006**

**Does anticipatory
guidance matter for
firearm storage?**



EXAMPLES OF RECENTLY COMPLETED STUDIES (2018-2024)



Comparative Effectiveness Research
through Collaborative Electronic Reporting
A Program of the American Academy of Pediatrics



The Allergic March Study 2022-23

How do allergic conditions unfold in childhood?

Confirming Allergic Disease Patterns: The Allergic March

- Pls: Stanislaw Gabryszewski, MD, PhD and David Hill, MD, PhD, FAAP
- Question Answered: When are children across the US being diagnosed with common allergies?
- Findings:
 - Confirmed the progression of onset for five common childhood allergies for children 0-18yrs
 - 13.4% of children have two or more allergic conditions.

Allergic Disease	Peak Age of Incidence	Cumulative Incidence
Atopic Dermatitis	4 months	10.3%
Ige Mediated Food Allergy	13 months	4.0%
Asthma	13 months	20.1%
Allergic Rhinitis	26 months	19.7%
Eosinophilic Esophagitis	35 months	0.1%



**The STOP-HPV
Trial
2018-2024**

**Can we
prevent
cancer?**



“This was the most clinically relevant and personally beneficial academic activity I have ever had the opportunity to engage in. I am grateful that I was given the opportunity to participate. ... There was a lot of clamor asking how this can be made available to ALL pediatricians.”

STOP-HPV PCC Pediatrician Study Participant, 2023

Additional Benefits of Participating in PROS Studies

Most studies offer:

1. A chance to learn and potentially improve outcomes in your practice and nationally
2. Connection to the larger PROS community
3. MOC Part II or IV and/or CME credits
4. Honoraria
5. Opportunities to be recognized in publications and presentations of study results



>40 PCC Practices Have Participated in PROS Studies

Thank you! Thank you! Thank you! Thank you! Thank you! Thank you! Thank you! Thank you!

Tamalpais Pediatrics

The Pediatric Center of Stone Mountain LLC

Practice of Steven E Caplan MD PA

Delaware Valley Pediatric Associates PA

Pediatric and Adolescent Care LLP

East Portland Pediatric Clinic PC

Palmetto Pediatrics and Adolescent Clinic PA

Richmond Pediatric Association

Lakeside Pediatrics

Green Mountain Pediatrics PC

Centennial Pediatrics of Spokane

South Sound Pediatric Associates

Tendercare Pediatrics

Cypress Pediatrics

Pediatric Associates of Kingston

Holland Pediatric Associates

BCD Health Partners

Village Pediatrics

Children's Health Partners

Olney Pediatrics

>40 PCC Practices Have Participated in PROS Studies

Thank you! Thank you! Thank you! Thank you! Thank you! Thank you! Thank you! Thank you!

First Choice Pediatrics

Pediatric Associates of Fall River

Fort Wayne Pediatrics , PC

One Family Pediatrics

Farmington Pediatric & Adolescent Medicine

Columbus Pediatric Associates

Sandhills Pediatrics

Golden Gate Pediatrics

Pirate Pediatrics

Springtime Pediatrics

Sandhills Pediatrics

Essex Pediatrics

Firefly Pediatrics

TLC Pediatrics of Frisco

Rico Pediatrics

Advanced Pediatrics

PediPlace

Hamden Pediatrics

Cary, Fuquay and Apex Centers

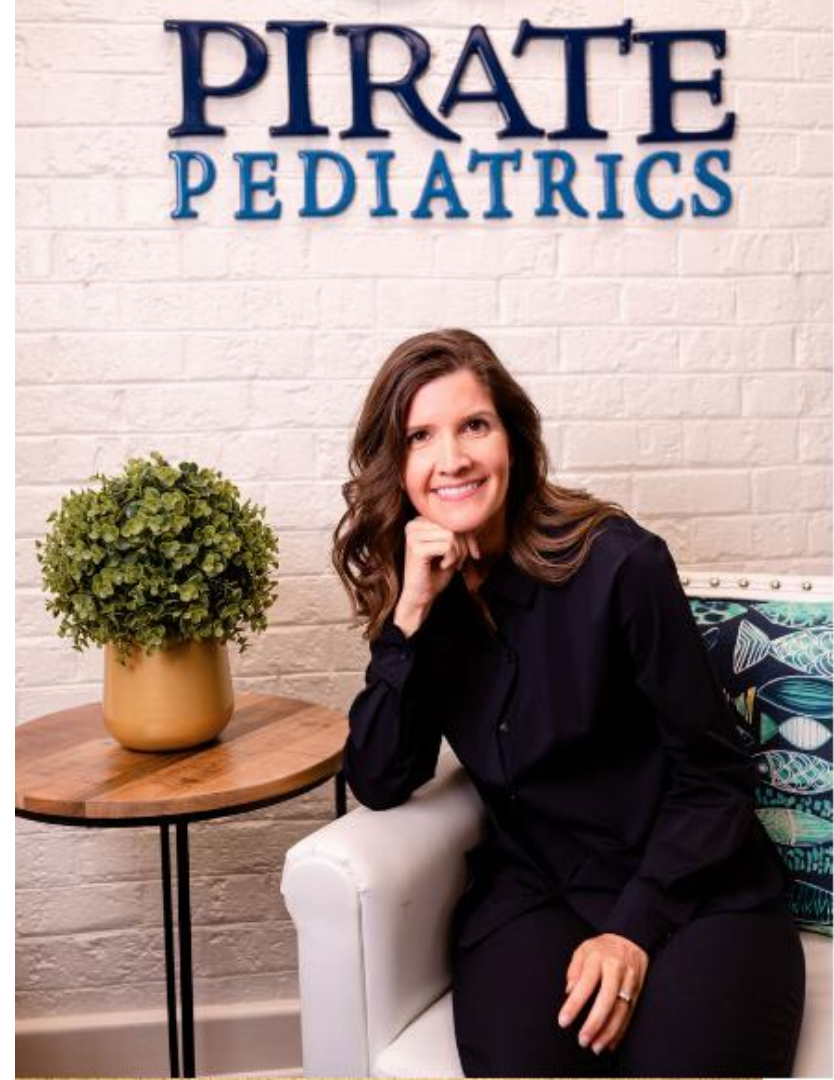
Essex Pediatrics

Eden Park Pediatric Associates

Windermere Pediatrics

Dare2Care Pediatrics

**Hearing about a
PROS study:
Dr. Caroline
Morgan of Pirate
Pediatrics**



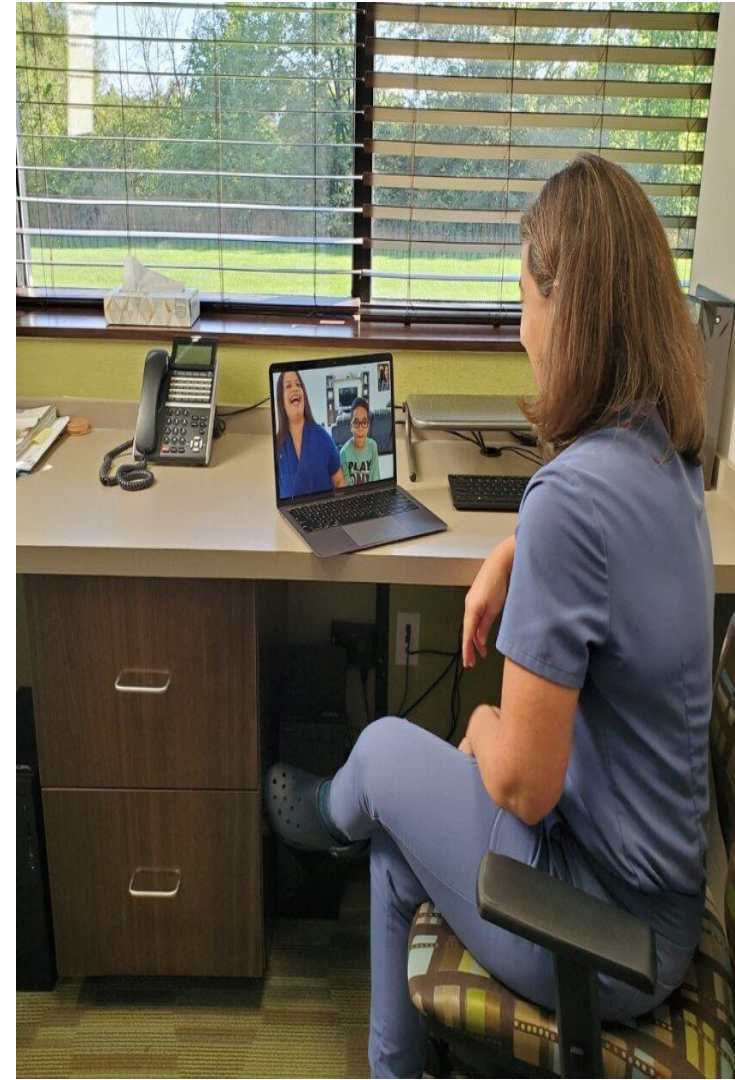
Studies you can join!

TIPP-C: Telemedicine Integrated into Pediatric Primary Care



TIPP-C: Telemedicine Integrated into Pediatric Primary Care

- **PIs:** Alexander G. Fiks, MD, MSCE, Children's Hospital of Philadelphia & Kristin Ray, MD MS, University of Pittsburgh
- **Unanswered question:** How can telemedicine best be used to improve the child health?
- **Study goal:** To identify actionable strategies for promoting telemedicine use in primary care to improve child health and health equity.
- This is a mixed methods study (secondary data and interviews)—data is contributed passively by PCC
- Additional data provided by:
 - University of Pittsburgh's Children's Community Pediatrics
 - OCHIN network of community health centers/FQHCs
 - CHOP primary care practices



TIPP-C: An Easy-To-Do Study!

Your practice would:

Review and sign a Data Use Agreement (DUA) authorizing PCC to transfer a HIPAA limited data set to the CHOP Data Center over the next 3 years.

Possibly participate in one-on-one interview with a TIPP-C study team member in late 2024/early 2025.

Our hope is to identify ways to optimize telemedicine's potential to benefit children and practices alike.

**Text4Vax:
Understanding the Effectiveness and
Implementation of Text Message Reminders for
Pediatric COVID-19 and Influenza Vaccines**



Text4Vax Study

- **PIs:** Melissa Stockwell, MD, MPH, FAAP, Columbia University & Alex Fiks, MD, MSCE, FAAP, Children's Hospital of Philadelphia
- **Funder:** National Institute of Allergy and Infectious Diseases (NIAID)
- **Status:** Began April 15th, 2024! Recruiting up to 20 PCC practices.
- **Goal:** To understand the effectiveness and implementation of COVID-19 and influenza (flu) text message reminders across parents with varied backgrounds and whose children are cared for in diverse practice settings.



Text4Vax is an Exciting Opportunity!

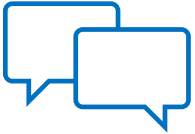
- Vaccine coverage for Influenza and COVID-19 vaccines remain low despite being part of the recommended child and adolescent immunization schedules.
- There are NO pediatric studies of COVID-19 vaccine text message reminders.
- We know text messages for influenza vaccine work, but uptake is slow.
- There are NO studies looking at these two vaccines together (now annual vaccines).
- The study will use behavioral economics to provide insight into vaccination decisions; this type of study has been less used in pediatrics than adult health settings.



Text4Vax: What would your practice need to do?



- ✓ Complete administrative paperwork so that your patients who agree to participate in the study as human subjects are covered by the Columbia Institutional Review Board
 - Like TIPP-C, sign a Data Use Agreement allowing PCC to share data with CHOP
- ✓ Agree to use a HIPAA compliant text messaging service vetted by the study team
- ✓ Give permission to the study to randomize your patients to one of four study arms



Exclusion criterion: Practices that already send text message vaccine reminders for these vaccines (happy to discuss any questions on this one).

Questions?



YOU can be part of PROS.
What questions do *you* want answered?



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www.aap.org/PROS



AAP

NIH

**PROS Pediatric
Practices and
Families**

**HRSA
MCHB**

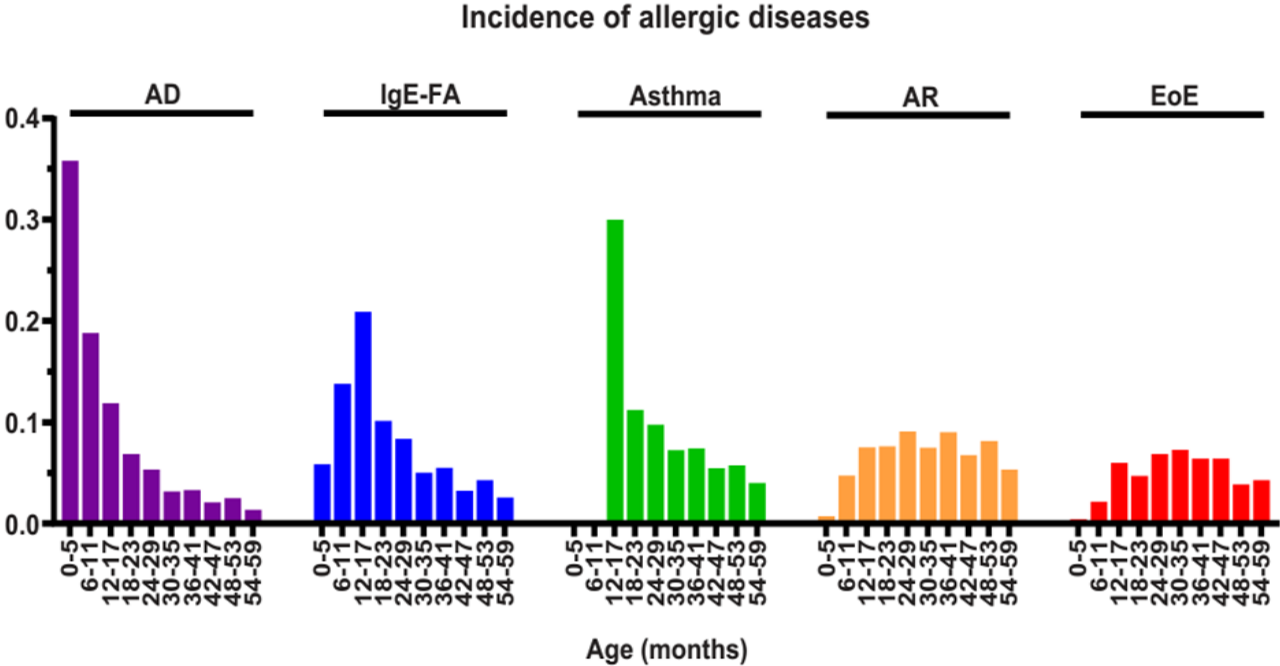
PCORI

AHRQ

Thank You!

**PROS is made possible with the support of HRSA MCHB, AAP,
and volunteers in pediatric practices.**

Main Finding: Incidence of Allergic Disease



Communication Period

Percent of Office Visits with a Missed Opportunity (MO) for HPV vaccination

Visit Type	Initial HPV Dose			Subsequent HPV Dose		
	Baseline Period	Intervention Period	Change in MOs (95% CI)	Baseline Period	Intervention Period	Change in MOs (95% CI)
Well-Child Care						
Intervention Group	57.5%	48.7%	-8.8%	13.8%	10.0%	-3.8%
Control Group	55.0%	53.0%	-2.0%	10.3%	8.9%	-1.3%
Interv. vs Control			-6.8% (-9.7%, -3.9%)			-2.5% (-5.5%, 0.5%)



Acute/Chronic						
Intervention Group	98.3%	97.9%	-0.3%	86.0%	88.7%	+2.7%
Control Group	98.4%	98.1%	-0.3%	88.6%	90.1%	+1.6%
Interv. vs Control			0 (-0.6%, 0.7%)			+1.1% (-1.5%, 3.7%)



“You are making observations every day in your practice. You have the opportunity to have those observations contribute to research!”

Ben Scheindlin, MD, FAAP

“PROS allows for ... quick and easy studies that inject the excitement of research to day-to-day practice to more involved interactions with amazing research teams on design, implementation, analysis, and publication.”

Heide Woo, MD, FAAP