

Marketing Assets

Name: Nathan Kuppermann, MD

Academic/Community Title: Chair and Professor of Emergency Medicine (Pediatric Emergency Medicine) at University of California Davis

Email: nkuppermann@ucdavis.edu

Social Media Handles:

Twitter: @nkuppermann

Name: Julia Magaña MD

Academic/Community Title: Associate Professor, Emergency Medicine (Pediatric Emergency Medicine), University of California Davis

Email: jnmagana@ucdavis.edu

Social Media Handles:

- Twitter: @julmagana

Name: Jason Woods MD

Academic/Community Title: Assistant Professor, Pediatric Emergency Medicine, University of Colorado School of Medicine and Children's Hospital Colorado

Email: jason.woods.md@gmail.com

Social Media Handles:

- Twitter: @jwoodsmd

Written Assets Template

Social Media:

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Which kids get the sickest from covid? What factors put them at risk for bad outcomes?

We've got a study for that! @jwoodsmd & @julmagana interview @nkuppermann on a global study of pediatric COVID patients in this free podcast episode from @HippoEducation and @PECARN <PECARN Pie page link to this specific episode>.

<https://home.hippoed.com/hippo-and-pecarn>

Title: PECARN Pie: Pediatric COVID Outcomes - A Global Study from PERN

Summary:

In this Hippo Education bonus, Dr. Nathan Kuppermann, founding member of the global Pediatric Emergency Research Network (PERN) and founding member and principal investigator of PECARN, joins hosts Drs. Julia Magaña and Jason Woods to break down their latest research studying severe outcomes in pediatric COVID patients. Get critical insights (straight from the source!) into what risk factors matter when evaluating pediatric COVID patients, and how this hot-off-the-press study changed these experts' practices. [Click here to listen to more free PECARN + Hippo collaboration episodes!](#)

References:

1. PERN-Global.com – Pediatric Emergency Research Network. pern-global.com/. Accessed 10 Feb. 2022.
2. Funk AL, Florin TA, Kuppermann N, et al. Outcomes of SARS-CoV-2–Positive Youths Tested in Emergency Departments: The Global PERN–COVID-19 Study. *JAMA Netw Open*. 2022;5(1):e2142322. [PMID 35015063](https://pubmed.ncbi.nlm.nih.gov/35015063/)

TAGS: Infectious disease ID, Research

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Objective: Identify which children are at highest risk of severe outcomes from COVID.

Shownotes:

Introduction: Please include a few bullet points on how you want to set the stage

- **Woods:** Hi I'm Jason woods, assistant professor of pediatric emergency medicine at the University of Colorado and Children's Hospital Colorado
- **Magaña:** and I'm Julia Magaña associate professor of emergency medicine at the University of California, Davis. We are the co-chairs of dissemination for PECARN - the Pediatric Emergency Care Applied Research Network. PECARN is a large multi-center federally funded research machine that focuses on acute illnesses and injuries in children. We partnered with the folks at Hippo Education to bring you discussions with some of PECARN's fabulous researchers. We learn about their work, new publications, and how the evidence generated by a large research network like PECARN can apply to your daily practice.
- **Woods:** AND PECARN is part of an even larger collaborative PERN.
- **Magaña:** Exactly and now we are here with Dr. Nathan Kuppermann, one of the founding members of PERN and former chair of the executive committee. and PECARN principal investigator and founding chair of PECARN, he is also the Chair and Professor of Emergency medicine at UC Davis. Hi Nate!
- **Woods:** Nate what exactly is PERN?
- **Magaña:** The article we want to discuss today is Outcomes of SARS-CoV-2 Positive youths tested in emergency departments: the global PERN-COVID-19 Study in JAMA open. The team asked the key question: "what proportion of COVID positive youth had severe outcomes within 14 days?" Why did this need to be studied on an international scale?
- **Woods:** How did you answer this question? Or maybe more appropriately, how was the study designed to answer this question? (prospective march 2020-june 2021, youth <18 yo in 10 countries, COVID positive tracked for 14 days, severe outcome=death, end organ damage essentially)
- **Magaña:** What were the major findings? (3% had severe, RF's, better if discharged, % discharged)
- **woods:** Which kids were more likely to have severe outcomes?
- **Magaña:** Was there significant variation between countries?
- **Woods:** How does this change practice for you taking care of kids with COVID?

- **Magaña: Anything else you think we should know?**

Wrap up:

Woods: The good news is this international data really tracks with my practice. Severe outcomes occurred 3% of the time in COVID positive youth. Unlikely but certainly not zero. A big predictor of this is if they are sick enough to be admitted, but for the patients hospitalized, 14% had adverse events.

Magaña: and our clinical acumen seems to be working. Those youths we discharge RARELY experience severe outcomes. We don't have to worry about sending home that well appearing covid positive child.

CME question: True or False: Internationally, children discharged with COVID are unlikely to experience severe outcomes.

Answer: True: Study Conclusion: Approximately 3% of COVID positive youth tested in EDs experienced severe outcomes within 2 weeks of their ED visit. Among Children discharged home from the ED, the risk was much lower. Risk factors such as age, underlying chronic illness, and symptom duration may be useful to consider when making clinical care decisions.

Infectious Disease ID ** please use this tag for all covid content + additional as needed
