



Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.



Letter to the Editor

Response to ‘Prevalence of SARS-CoV-2 antibodies in pediatric healthcare workers (pHCWs)’


Dear Editor,

We read with interest the recently published article by Morris et al., ‘Prevalence of SARS-CoV-2 antibodies in pediatric healthcare workers (pHCWs)’. The study demonstrated that pHCWs in the pediatric emergency department (ED) had a higher prevalence of anti-SARS-CoV-2-IgG than pHCWs outside the ED. It also suggests universal personal protective equipment (PPE) for pHCWs in the pediatric ED until communicable disease can be definitively ruled out (Morris et al., 2021).

While the personal travel of pHCWs was not associated with increased seropositivity in this study, any association between pHCW seropositivity and patient travel was not discussed. This is a potentially vital piece of information, considering this investigation encompassed a period early in the COVID-19 pandemic when history of patient travel was thought to be an important factor in identifying patients at risk of infection.

Understanding the effectiveness of current ED triage travel screening and provider-taken travel history to identify patients with travel-related risk for COVID-19 could inform our overall understanding of these processes in order to detect travel-related infections and interrupt transmission.

Most patients with travel-related illness present to the hospital through the ED (Burkholder et al., 2019). Consequently, ED healthcare providers are at particular risk for exposure to travel-related disease. During the Ebola epidemic in 2014, a triage travel screen was implemented in EDs across the United States at the direction of the Centers for Disease Control and Prevention (CDC) to detect persons under investigation and prevent outbreaks (Identify, Isolate, Inform, 2019; Schwedhelm et al., 2020). Since then, it has become a *de facto* screen for travel-related illness. The screen is not intended to replace a formal travel history, but instead to identify patients at risk for travel-related illness, allowing for appropriate isolation and alerting clinicians to information that may impact management.

Most ED triage travel screens ask about international travel in the 21 days prior to presentation, as part of the CDC’s ‘Identify, Isolate, Inform’ strategy for travel-related illness (CDC, 2019). However, initial studies have suggested that these screens may not adequately detect travel-related illness, and could be improved by implementing an algorithm that combines travel history, origin of travel, and symptoms to make travel alerts smarter (Greenky et al., 2020; Yaffee et al., 2019). The COVID-19 pandemic has highlighted the importance of conducting further research to identify how interventions such as improved ED triage

travel screen algorithms and PPE could better protect HCWs from communicable illness.

Conflict of interest

The authors declare no conflicts of interest in this study.

Ethical approval

There were no animal or human subjects in this study; no ethical approval was obtained or needed.

Funding

There was no funding for this study.

References

- Burkholder TW, Dziadkowiec O, Bookman K, King RA. Adherence to universal travel screening in the emergency department during epidemic Ebola virus disease. *J Emerg Med* 2019;56:7–14, doi:<http://dx.doi.org/10.1016/j.jemermed.2018.09.038>.
- Greenky D, Gillespie S, Levine A, Murray B. The utility of a travel screen at triage in pediatric emergency medicine. *Pediatr Emerg Care* 2020;36:384–8, doi:<http://dx.doi.org/10.1097/PEC.0000000000002116>.
- Centers for Disease Control and Prevention. Identify, Isolate, Inform: emergency department evaluation and management for patients under investigation (PUIs) for Ebola virus disease (EVD) | Emergency services | Clinicians | Ebola (Ebola virus disease) | CDC. 2019. . [Accessed 28 November 2020] <https://www.cdc.gov/vhf/ebola/clinicians/emergency-services/emergency-departments.html>.
- Morris CR, Sullivan P, Mantus G, Sanchez T, Zlotorzynska M, Hanberry B, et al. Prevalence of SARS-CoV-2 antibodies in pediatric healthcare workers. *Int J Infect Dis* 2021;105:474–81, doi:<http://dx.doi.org/10.1016/j.ijid.2021.03.017>.
- Schwedhelm MM, Herstein JJ, Watson SM, Mead AL, Maddalena L, Liston DD, et al. Can you catch it? Lessons learned and modification of ED triage symptom- and travel-screening strategy. *J Emerg Nurs* 2020;46:932–40, doi:<http://dx.doi.org/10.1016/j.jen.2020.03.006>.
- Yaffee AQ, Isakov A, Wu HM. How can emergency departments better prepare for emerging infectious disease threats? A returned traveler with fever walks into triage *J Emerg Med* 2019;56:568–70, doi:<http://dx.doi.org/10.1016/j.jemermed.2018.12.049>.

David Greenky^{a,b,*}

^aDepartment of Pediatrics, Emory University School of Medicine, Atlanta, GA, USA

^b2015 Uppergate Dr, Atlanta, GA 30322, USA

Matt Linam^{a,b}

^aDepartment of Pediatrics, Emory University School of Medicine, Atlanta, GA, USA

^bChildren’s Healthcare of Atlanta, Atlanta, GA, USA

Anna Yaffee

Department of Emergency Medicine, Emory University School of Medicine Atlanta, GA, USA

Brian E. Costello^{a,b,c}
Brittany Murray^{a,b,c}

^aDepartment of Pediatrics, Emory University School of Medicine,
Atlanta, GA, USA

^bChildren's Healthcare of Atlanta, Atlanta, GA, USA

^cDepartment of Emergency Medicine, Emory University School of
Medicine Atlanta, GA, USA

* Corresponding author at: Department of Pediatrics, Emory
University School of Medicine, Atlanta, GA, USA.
E-mail address: dgreenk@emory.edu (D. Greenky).

Received 25 March 2021