Letter to the Editor

Emergency Medicine Residents Experience Acute Stress While Working in the Emergency Department

Matthew L. Wong, MD, MPH*
Leon D. Sanchez, MD, MPH†
Gregory A. Peters, MD‡

*Beth Israel Deaconess Medical Center, Department of Emergency Medicine, Boston, Massachusetts
†Brigham and Women’s Faulkner Hospital, Department of Emergency Medicine, Boston, Massachusetts
‡Massachusetts General Hospital, Department of Emergency Medicine, Boston, Massachusetts

Section Editor: Mark I. Langdorf, MD, MHPE
Submission history: Submitted January 28, 2021; Revision received January 28, 2021; Accepted February 5, 2021
Electronically published April 28, 2021
Full text available through open access at http://escholarship.org/uc/uciem_westjem
DOI: 10.5811/westjem.2021.2.51963
[West J Emerg Med. 2021;22(3)801.]

We were very interested to read the manuscript by Janicki and colleagues, and we are grateful for their contribution to the literature.1 We agree that stress is a major problem for emergency physicians.2 But we had two concerns with the study design.

We performed a similar study with wearable devices and photoplethysmography but had a problem with motion artifact that precluded using all of the collected data in analysis.3 Did the authors also experience any problems with motion artifact interfering with data analysis? It is hard to imagine that there were no problems.

We do not think that the authors made a fair comparison when they measured the heart rate and heart rate variability of subjects during didactics and compared them to clinical shift work. We have previously found that our residents walk on average 2.6 miles per shift, 588 steps per hour.4 The simple physical activity of clinical shift work should cause some change in heart rate variability, which may account for a lot of the observed difference and not stress.

REFERENCES

Address for Correspondence: Matthew L. Wong, MD, MPH, Beth Israel Deaconess Medical Center, Department of Emergency Medicine, 1 Deaconess Road, Rosenberg 2nd Floor, Boston, MA 02215. Email: mlwong@bidmc.harvard.edu.

Conflicts of Interest: By the WestJEM article submission agreement, all authors are required to disclose all affiliations, funding sources and financial or management relationships that could be perceived as potential sources of bias. No author has professional or financial relationships with any companies that are relevant to this study. There are no conflicts of interest or sources of funding to declare.

Copyright: © 2021 Wong et al. This is an open access article distributed in accordance with the terms of the Creative Commons Attribution (CC BY 4.0) License. See: http://creativecommons.org/licenses/by/4.0/