

Prevalence and D

Julia E. Szyr

¹Department of Biostatistics, Epidemiology and Informatics, University of Hospital of Philadelphia; ⁴Division of Infectious Diseases, Johns Hopkins Univ

Background

- Antimicrobial stewardship personnel are often faced with occupational stressors that could put them at risk for burnout
- These stressors were escalated during the COVID-19 pandemic, potentially threatening the stability and composition of the stewardship workforce in the future
- Little is known about the degree to which antimicrobial stewards experience occupational burnout

Objective

To characterize the prevalence of, and identify factors associated with, burnout among antimicrobial stewardship personnel practicin in United States (US) hospitals.

Methods

- From October-December 2021 we conducted a cross-sectional survey of antimicrobial stewardship personnel
- Respondents were recruited via email through four US-based professional organizations and self-administered a structured questionnaire measuring demographics, stewardship program structure, resources, and perceptions of organizational climate
- Burnout was measured using the Maslach Burnout Inventory, a 22-item validated instrument with 3 subscales (emotional exhaustion [EE], depersonalization [DP], and professional accomplishment [PA])
- Burnout was defined as a dichotomous outcome based on the presence of high scores on the EE subscale along with either a high DP score or a low PA score
- Descriptive statistics and univariable logistic regression analyses were performed

| De United St PhD; ¹ M. Elle Saine, MD, Newland, MD, MEd; ⁵ Ebbir vania Perelman School of Me School of Medicine; ⁵ Division | ates: A Cro PhD; ^{1,2} Kathleen Chiong Lautenbach, MD, M dicine; ² Department of Me of Pediatric Infectious Dis | OSS-Sectio tos, MD, MSCE; ³ Sara PH, MSCE; ^{1,2,6} Emily L edicine, University of Penr seases, Washington Unive | Dal St C. Keller, MC L. Heil, Pharm nsylvania Perel ersity School of | UDY D, MPH, MSHP D, MS ⁷ man School of M Medicine; ⁶ Divi | ship Personnel y;4 Medicine; ³ Division of Pediatric Infectious sion of Infectious Diseases, University of | |
|---|---|--|---|--|--|-------------------------------|
| Medicine; ⁷ Department of Pha | rmacy Practice and Scien | ice, University of Maryland | d School of Pha Results | | | |
| Table 1: Respondent Demographics (N = 259) | | | | | | % |
| | % | Race | | | Hospital Census Region | |
| Gender | | Black/African A | American 1 | 2 (n = 3) | Northeast | 20.2 (n = 49) |
| Female | 64.3 (n = 166) | White | | 6.8 (n = 199) | Midwest | 23.6 (n = 57) |
| Male | 35.7 (n = 92) | Asian | | 5.4 (n = 40) | West | 23.0(n - 57) 24.0 (n = 58) |
| Degree | | Other | | 6 (n = 17) | South | 32.2 (n = 78) |
| PharmD | 78.2 (n = 201) | | 0. | 0(11 - 17) | Hospital Teaching Status | 52.2(11 - 70) |
| MD/DO | 21.8 (n = 56) | Hispanic, Latinx, Spanis | | 1(n - 13) | Teaching | 84.1 (n = 212) |
| Role on Stewardship Team | | Median Age | | 1(1-13) | Non-Teaching | 15.9 (n = 40) |
| Pharmacist Lead $47.5 (n = 123)$ | | 36 (IQR, 32-41) | | | Hospital Type | 13.9 (11 – 40) |
| Physician Lead | 17.6 (n = 120) 17.4 (n = 45) | | / | | | OO(rr OE) |
| , | macist $25.9 (n = 67)$ | Relationship Status | | | Community Hospital - Rural | 9.8 (n = 25) |
| Physician Particip | | Single | | 2(n = 56) | Community Hospital - Urban | 31.5 (n = 80) |
| Other | 4.6 (n = 12) | Married or Par | | 6.4 (n = 194) | Academic Medical Center | 53.5 (n = 136) |
| Uner | 4.0(11 - 12) | Separated or I | Divorced 1. | .6 (n = 4) | Children's Hospital | 5.1 (n = 13) |
| hirty-six percent (n | =94 of 259) of respo | ondents met the def | finition | | Conclusions | |
| for burnout. There v | | | | | CONCIUSIONS | |
| | demographics or p | | • | Over a third | of antimicrobial stewardship person | nel in our sample |
| - | | | | | ed, standardized criteria for burnout | • |
| Table 2: Logistic Regressi | on Predicting Burnout ^a | | • | | aspects of the work environment, inc | |
| /ariable | | Odds Ratio P v | /alue, χ ² | unsupportive peer climate and conflict were associated with but | | • |
| | | (95% CI) | | Efforts to prevent occupational burnout in stewards should const the role of context, climate, and culture in addition to individual | | |
| Female gender | | 1.5 (0.9-2.6) 0.13 | 37 | | | |
| PharmD degree ^b | | (100024) (0002) | | | | |
| Stewardship is not an institutional priority | | | .001 | burnout prevention strategies | | |
| Hospital leadership unsupportive | | | .001 | | | |
| Prescriber resistance to stewardship is common | | 2.3 (1.3-4.1) 0.00 | | Acknowledgements | | |
| | | 4 3 (1 9-9 7) <0 001 This research | | is research was | ch was supported by the 2021 Society for Healthcare Epidemiology of | |
| Unsupported by pharmacy colleagues | | 4.3 (1.9-9.7) <0.001 | | America (SHEA) Research Scholar Award. We would like to thank the SHEA Research Network, Society of Infectious Diseases Pharmacists, American College of Clinical Pharmacy Infectious Diseases Practice and Research Network, and the Sharing Antimicrobial Reports for Pediatric Stewardship collaborative for | | |
| Stewardship team does not work well together | | | | | | |
| Stewardship work is not intellectually stimulating | | | | | | |
| Defined as a dichotomous outcome based on the presence | | | | 0 | al Reports for Pediatric Stewardship collabol survey to their members. | |
| rofessional accomplishment (PA) score. High scores by su Reference group is MD/DO degree. | | | | Sommating our S | | Abstract # |