



Assessment of Burnout and Personality Traits in Pharmacists Practicing at Health Systems with Pharmacy Residency Programs

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Background

- As recognized by ASHP, the National Academy of Medicine (NAM), and the Institute for Healthcare Improvement (IHI), clinician burnout poses significant risks to patient safety and healthcare quality.¹
- Addressing burnout is especially critical to organizations which offer pharmacy • Categorical data of the personality types were described using frequencies and residency training, and ASHP residency program standards have been recently percentages. updated to have programs consider addressing burnout with incoming residents • Bivariate statistics included Student's t-test. during the initial orientation; encourage education to preceptors on burnout • The difference in personality group means were compared using one-way ANOVA for syndrome, the risks, and mitigation strategies; and suggest the provision of quantitative variables. education to all staff on burnout syndrome, the risks, and mitigation strategies.² • A p-value of less than 0.05 was used to determine statistical significance.
- Prior studies in other disciplines of healthcare practice outside of pharmacy have identified that some personality traits may be protective to burnout, while others may increase susceptibility to burnout.^{3,4}
- This research project seeks to:
- Assess burnout in pharmacists practicing at health systems with pharmacy residency programs.
- Evaluate the relationship between pharmacist personality traits and reported burnout rates for emotional exhaustion, depersonalization, and personal accomplishment.

Methods

Inclusion Criteria

- Health system pharmacists practicing within an Ascension Michigan hospital or clinic who serve as a residency preceptor, residency preceptor-in-training, or residency program leader
- Residency-trained pharmacists practicing within an Ascension Michigan hospital or clinic with a residency training program

Survey Components

- Consent to participate in the survey
- Demographic information questionnaire
- Maslach Burnout Inventory Human Service Survey for Medical Personnel (MBI-HSS [MP])
- 16 Personalities Personality Test

Methods (continued)

Statistical Analysis

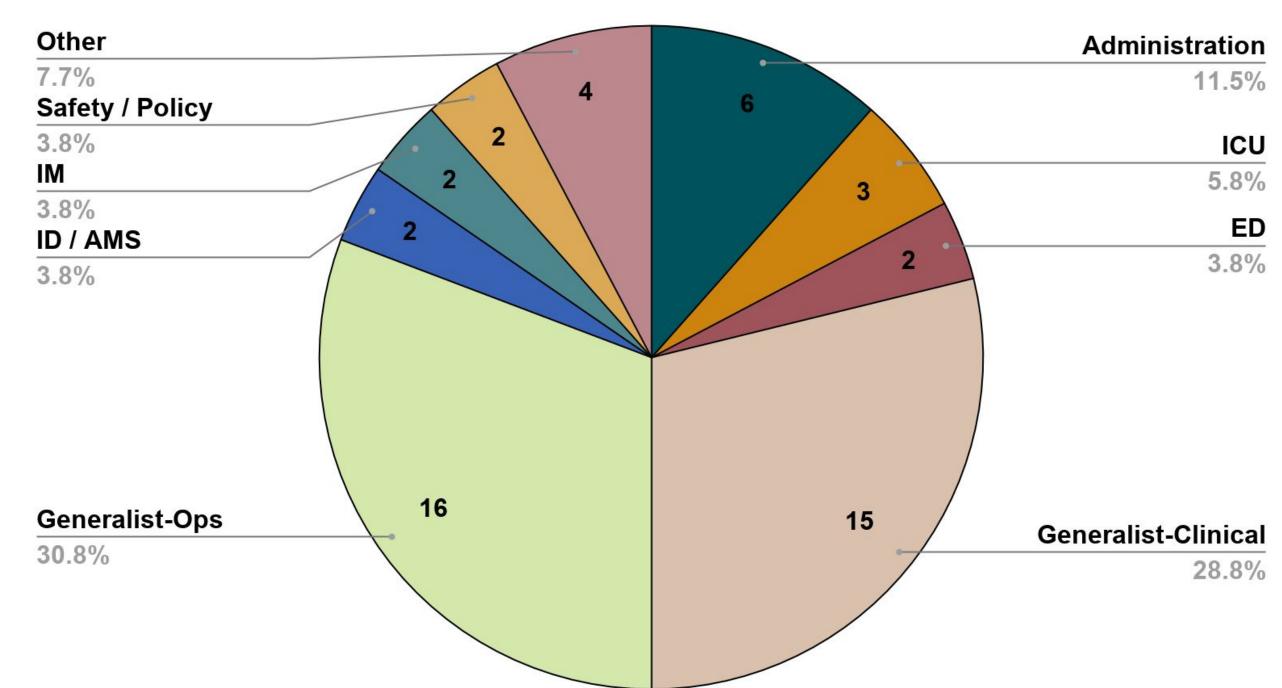
• Descriptive statistics such as means and standard deviations were used for the three burnout domains.

Results

Participant Demographics

- Of 96 participants invited, 52 (54.2%) completed all components of the survey.
- 36 participants (69.2%) completed at least one year of residency training.
- 29 participants (55.8%) indicated their time in practice was 10 years or less.
- 32 participants (61.5%) indicated a role as a preceptor or preceptor-in-training.

Figure 1: participant primary practice area.



Results (continued)

Results for Maslach Burnout Inventory Human Services Survey for Medical Personnel

Table 1: MBI-HSS (MP) results for participants from all sites. Moderate level of burnout Low level of burnout (%) High leve **Burnout Domain** (%) **Emotional Exhaustion** 19 (36.5%) 20 (38.5%) 31 (59.7%) 19 (36.5%) Depersonalization Personal Accomplishment 14 (26.9%) 26 (50%) High level of burnout in at least one domain (%) 18 (34.6%) 0 (0%) High level of burnout in all three domains (%)

Burnout Results by 16 Personalities Personality Trait Groupings

Table 2: comparison of burnout rates between personality groupings and traits.				
Groups Compared, n (%)	Emotional Exhaustion <u>Mean ± SD</u> p-value	Depersonalization <u>Mean ± SD</u> p-value	Personal Accomplishment <u>Mean ± SD</u> p-value	
Sentinels (S): 30 (57.6%) Diplomats (D): 16 (30.8%)	S: 18.57 ± 9.930 D: 20.94 ± 9.469	S: 5.40 ± 4.048 D: 6.81 ± 3.953	S: 35.50 ± 6.725 D: 35.25 ± 6.836	
	p = 0.44	p = 0.26	p = 0.91	
Introverted (I): 37 (71.2%) Extroverted (E): 15 (28.8%)	l: 20.73 ± 8.903 E: 18.67 ± 12.591	l: 6.08 ± 3.730 E: 6.07 ± 6.364	I: 33.86 ± 6.945 E: 37.40 6.479	
	p = 0.51	p = 0.99	p = 0.10	
Observant (S): 35 (67.3%) Intuitive (N): 17 (32.7%)	S: 19.03 ± 9.473 N: 22.41 ± 11.000	S: 5.29 ± 4.019 N: 7.71 ± 5.312	S: 34.66 ± 7.170 N: 35.35 ± 6.633	
	p = 0.26	p = 0.07	p = 0.74	
Feeling (F): 42 (80.8%) Thinking (T): 10 (19.2%)	F: 19.29 ± 9.171 T: 23.70 ± 12.962	F: 5.90 ± 4.065 T: 6.80 ± 6.529	F: 34.98 ± 7.087 T: 34.50 ± 6.637	
	p = 0.21	p = 0.58	p = 0.85	
Judging (J): 44 (84.6%) Prospecting (P): 8 (15.4%)	J: 20.18 ± 10.625 P: 19.88 ± 6.128	J: 6.02 ± 4.638 P: 6.38 ± 4.502	J: 35.18 ± 6.714 P: 33.25 ± 8.396	
	p = 0.94	p = 0.84	p = 0.47	
Turbulent (T): 31 (59.6%) Assertive (A): 21 (40.4%)	T: 22.13 ± 10.022 A: 17.19 ± 9.485	T: 6.68 ± 4.593 A: 5.19 ± 4.512	T: 34.19 ± 6.916 A: 35.90 ± 7.021	
	p = 0.08	p = 0.25	p = 0.39	

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The authors have no conflict of interest.

This study has been reviewed and approved by the Ascension Genesys Hospital IRB, with reliance with the University of Cincinnati IRB.

Discussion / Conclusions

- Despite communication of the survey during the COVID-19 pandemic, burnout rates of pharmacists participating were lower than those reported previously.⁵
- Certain personality traits as depicted by 16 Personalities personality test results were reported more frequently than others, including introverted, observant, feeling, judging, and turbulent.
- While burnout results presented did not indicate a significant difference in burnout domain scores for groups compared, further study inclusive of a broader audience of participants is warranted to evaluate the relationship between personality traits and the three domains of burnout
- Evaluation of demographic information collected and comparison of burnout rates between identified groups (e.g., time in practice, primary practice area, highest level of residency training) is planned.

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