

Relationship between critical care pharmacist activities and burnout syndrome: a survey of critical care pharmacists

Aubrey Slaughter, PharmD Candidate; Andrea Sikora Newsome, PharmD, BCPS, BCCCP;
Susan E. Smith, PharmD, BCPS, BCCCP

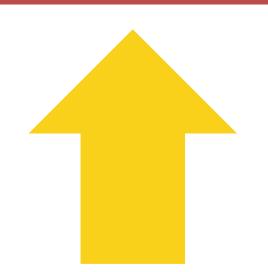
BACKGROUND

BURNOUT

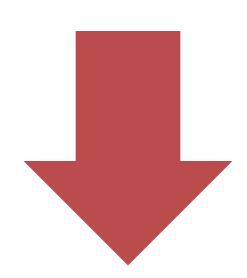
Emotional Exhaustion

Personal Accomplishment

Depersonalization











Examples of Critical Care Pharmacists Activities



Fundamental

•Evaluates all drug therapy for appropriate indications, dosage, drug interactions, and drug allergies

Provides
pharmacokinetic
monitoring when
a targeted drug is
prescribed.



Desirable

•Regularly makes rounds with multidisciplinary team to provide pharmacotherape utic management for all ICU patients

Provides didactic lectures to health professional students in pharmacology and therapeutics



Optimal

•Reports results of clinical research and pharmaco-economic analyses at regional and national meetings

Participates in teaching advanced cardiac life support

STUDY QUESTION

Do the percentage of pharmacist activities in the intensive care unit (ICU) that are categorized as fundamental, desirable, and optimal relate to pharmacist burnout?

STUDY METHODS

- A survey is being created using Qualtrics Survey Software.
- The survey is composed of three parts: individual and institution demographics, frequency of pharmacist activities, and Maslach Burnout Inventory[™] Human Services Survey for Medical Personnel (MBI-HSS [MP]).
- The survey will be distributed to members of the ACCP Critical Care

Ta Bractice and Research Network. **Number of Years of Post-Pharmacy Roles Held by Critical Care Institution Type School Training Pharmacists Academic Medical Center** Supervisor/Manager **Critical Care Setting** Residency Program Director Community (teaching) Cardiac Medical ICU (MICU) Community (non-teaching) Other **Activity Involvement at Institution** Government Surgical ICU (SICU) Other Mixed Medical/Surgical ICU Preceptor **Size of Institution** Trauma Research **Average Census of ICU Patients** Neurology Quality Improvement **ICU Beds in Institution** Meetings/committees **Emergency Department ICUs in Institution** Supervisor activities Pediatric **Hours Spent Working in Hospital** Other Neonatal

Example Survey Questions

Percentage of time spent doing different tasks throughout the day

Direct patient care

Educational in-services

Type of documentation pharmacists perform in the medical records

Pharmacokinetic notes

Pharmacy to dose notes

Patient education notes

Drugs that pharmacists provide pharmacokinetic monitoring on

Aminoglycosides

Vancomycin

Heparin

Digoxin

Pharmacists selected how often they:

Make recommendations regarding IV compatibility

Assist physicians in discussions with patients

Help in the development of residencies in critical care





STUDY OUTCOMES

Primary Outcome

 Correlation between time spent on optimal activities and pharmacist burnout

Secondary Outcomes

- Time spent on fundamental and desirable activities
- Incidence of burnout among pharmacists

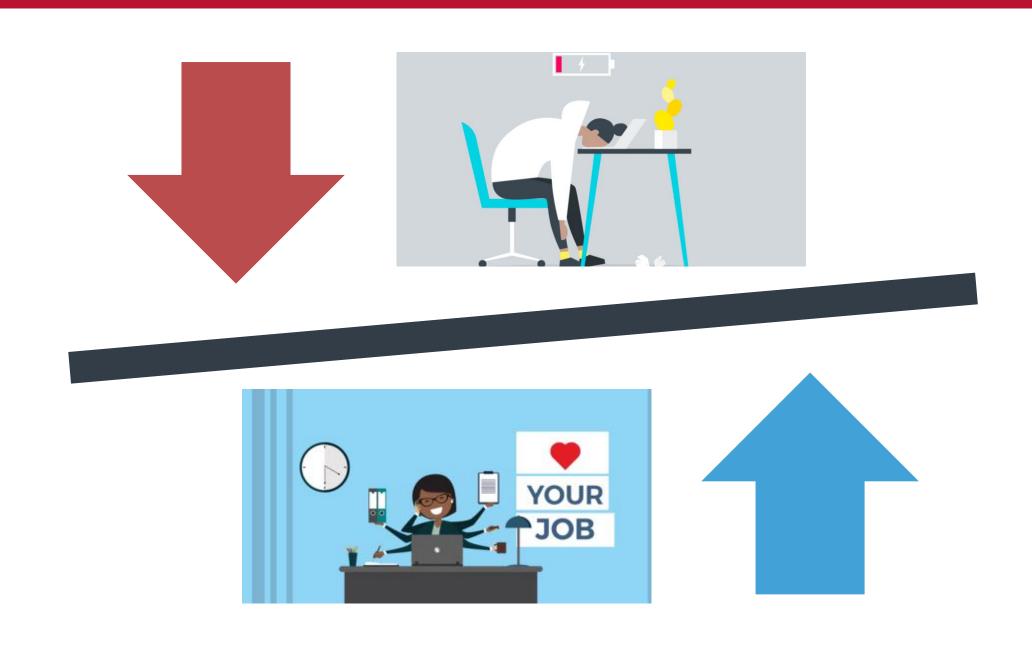
ANTICIPATED OUTCOMES

- Pharmacists with more post-pharmacy school training will show a higher consistency of optimal activities.
- Pharmacists taking care of more patients will be less likely to carry out desirable and optimal activities stated in the position paper.
- Widespread practice variation in the services that critical care pharmacists actually perform is expected.

HYPOTHESIS

More time devoted to optimal activities will act as a protective factor against burnout.

IMPLICATION



REFERENCES

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- Rudis MI, Cohen H, Cooper BE, et al. Position paper on critical care pharmacy services. *Pharmacotherapy.* 2000;20(11):1400-1406. DOI: 10.1592/phco.20.17.1400.34893.

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