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

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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 [MPI]).
- The survey will be distributed to members of the ACCP Critical Care Practice and Research Network.

<table>
<thead>
<tr>
<th>Institution Type</th>
<th>Number of Years of Post-Pharmacy School Training</th>
<th>Roles Held by Critical Care Pharmacists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Medical Center</td>
<td>Critical Care Setting</td>
<td>Supervisor/Manager</td>
</tr>
<tr>
<td>Community (teaching)</td>
<td>Cardiac</td>
<td>Residency Program Director</td>
</tr>
<tr>
<td>Community (non-teaching)</td>
<td>Medical ICU (MICU)</td>
<td>Other</td>
</tr>
<tr>
<td>Government</td>
<td>Surgical ICU (SICU)</td>
<td>Activity Involvement at Institution</td>
</tr>
<tr>
<td>Other</td>
<td>Mixed Medical/Surgical ICU</td>
<td>Preceptor</td>
</tr>
</tbody>
</table>

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 residency 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

- Pharmacist with more post-pharmacy school training will show a higher consistency of optimal activities.

REFERENCES


ACKNOWLEDGEMENTS

Supported by the National Center for Advancing Translational Sciences (NCATS) of the National Institutes of Health (NIH) under Award Numbers UL1TR002378 and KL2TR002381.

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?