

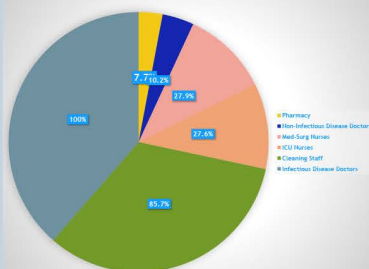
OBJECTIVES

- Increase awareness of nonadherence to PPE policies
- Discuss factors affecting compliance to PPE policies
- Provide education to staff nurses on PPE policies and adherence

BACKGROUND

Personal protective equipment (PPE) is used to minimize infection transmission from patient to healthcare worker, or vice versa. During a clinical rotation in a large urban teaching hospital, it was noted that a number of nurses failed to adhere to proper PPE policies. A literature review focusing on thirty-two studies found that average nurse compliance to proper PPE is 34%. This review included an overall discussion of factors affecting compliance, as well as a more in-depth review of the effect of education on PPE compliance, how comfort and proper fitting affects compliance, and the general effectiveness of PPE when used properly. This literature review also indicated that major factors affecting compliance were perception of risk of infection, quality of education received, and the comfort/fit of PPE. These findings support the intervention of emphasizing the importance of PPE adherence through providing “donning and doffing” education for nurses.

Percentage of PPE Compliance between Occupations



EDUCATION TOOL

Morehead State University BSN Program

PROTECTING HEALTHCARE PERSONNEL

Standard precautions should be implemented in all patient rooms. They include hand hygiene when entering and leaving patient room and use of PPE when exposure to bodily fluids is likely.



CONTACT
Clean hands
Gloves
Gown



DROPLET
Standard Precautions
+ Surgical mask



AIRBORNE
Standard Precautions
+ N-95 mask

DONNING SEQUENCE

1. Don gown
2. Don mask
3. Don Eye protection
4. Don gloves

DOFFING SEQUENCE

1. Doff gown & gloves
2. Perform hand hygiene
3. Remove eyewear
4. Remove mask
5. Perform hand hygiene

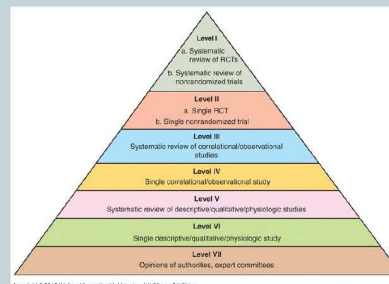


REVIEW OF LITERATURE

A thorough literature review was conducted on thirty-two studies for this quality improvement project. Included were seventeen quantitative studies and fifteen qualitative studies. Out of these studies, twenty-seven were primary sources and five were secondary sources. The themes included in these studies are listed below.

THEMES: Factors Affecting PPE Compliance

- Perceptions of Risk: increased perception of risk leads to increased compliance with PPE
- Lack of Education: increased education and/or increased quality of education leads to increased compliance with PPE
- Lack of Resources: lack of resources or lack of access thereof leads to decreased compliance with PPE
- Lack of Staff: inadequate staffing leads to increased workload, in turn leading to decreased compliance with PPE



CLINICAL IMPLICATIONS

- Education tools serve to increase knowledge.
- Demonstrations serve to increase compliance and proper use of PPE.
- Increase nurse training related to PPE serves to increase awareness.
- Increase resources available to staff nurses.
- Increase accessibility of resources to staff nurses.
- Ensure that nurses are properly fitted for PPE to encourage compliance.
- Ensure that correct precautions are listed outside of infectious patients' rooms.