HAND HYGIENE

Why Compliance is Important?

Clean Hands

Saves Lives

Nicole Prins
VIDEO

- https://youtu.be/yJeDncdWdb8
LEARNING OBJECTIVES

1. Define hand hygiene
2. Assessment & inferences
3. Quality implications
HAND HYGIENE

OBJECTIVE #1
WHAT IS HAND HYGIENE?

- Hand hygiene is a general term that applies to “routine hand washing, antiseptic hand wash, antiseptic hand rub, or surgical hand antisepsis” (Boyce, Pittet, 2002)
BACKGROUND

Ignaz Semmelweis

- Correlated illness and infection with not performing hand hygiene
- 1847 required all students and Dr.’s to wash hands with chlorine solution

1961 U.S. Public Health Service

- Training film for healthcare workers on proper HH
- Antiseptic agent believed to be less effective than hand washing

1975 & 1985 CDC

- Written formal guidelines on hand washing practices

1995 Association for Professionals in Infection Control

- Support use of antimicrobial wash in clinical settings
TYPES OF HAND HYGIENE

- Routine Hand wash
- Antiseptic Hand wash
- Antiseptic Hand rub
- Surgical Antisepsis
PROPER HAND WASHING PROTOCOL

- Turn on water (warm preferably)
- Wet hands & get a dollop of liquid soap
- Scrub palm to palm
- Palm to back
- Then your thumbs
- Between your fingers
- Scrub knuckles to palm (cuticles)
- Scrub fingertips (Fingernails)
- Rinse & dry hands
- Use paper towel to turn off sink also
- SCRUB FOR 15-30 seconds!!
NURSING THEORY

- Environmental Theory
- Florence Nightingale
- Patient-care theory
- Seven assumptions to improve a patient’s environment
- Ten environmental theories to improve
  . Based on the patient
PSYCHOLOGY THEORY

- The Theory of Planned Behavior
- Icek Ajzen
- Six ideas that represent a person's idea to control behavior
- Behavioral intent (motivation), behavioral control (ability) and normative
THEORY OF PLANNED BEHAVIOR

Figure 1. Hand Hygiene Behavior Model

Context
- Expectations
- Culture
- Behavioral Cues
- Situation

Factors
- Ability
- Opportunity
- Motivation

Decision
- Consciously
- Unconsciously

Making
- Rote
- Note

Risk Assessment
- Intention
- How
- What
- When
- Where

Compliance
- YES
- Delay
- NO
ASSESSMENT & INFERENCE

OBJECTIVE #2
STUDY #1

Effect of hand sanitizer location on hand hygiene compliance


. Quantitative Study

. See if hand hygiene compliance increases with visibility of hygiene stations

Findings:

- 3 year observation period, 26,707 hand hygiene compliances observed
- 81.6% compliance rate
- 79 observations per room
STUDY #2

Adherence to hand hygiene guidelines - Significance of measuring fidelity

- Korhonen et al., (2015)
- Cross-Sectional Observational Study
- Evaluate fidelity and hand hygiene compliance

Findings:

- 830 occasions observed with 2302 actions where hand hygiene should have been preformed
- Hand hygiene compliance rate: 77-100%
- Hand hygiene lasted 30 seconds + 10% of cases (avg. for nurses 15.3 seconds)
COMPLIANCE RATES

NHS Hand Hygiene Compliance
Percentage Compliance Before Initial Patient/Patient Environment Contact
March 2009 - March 2014

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WHY DO NURSES NOT PERFORM HAND HYGIENE?

- Skin irritation
- Lack of time
- Inaccessibility of hand washing stations or antiseptic stations
- Understaffed or overcrowded
- Patient needs more important
WHAT DOES THIS MEAN FOR PATIENTS?

- Increased risk of nosocomial infection
- Increased suffering
- Increased morbidity
- Increased mortality
- Increased costs
WHAT DOES THIS MEAN FOR A HOSPITAL?

- Increased costs
- Lawsuits
- Increased Morbidity
- Increased Mortality
ROOT CAUSE ANALYSIS

- Hand hygiene compliance
  - Staffing
  - Overcrowding
  - Education
  - Time
  - Usability
QUALITY IMPLICATIONS
OBJECTIVE #3
QSEN RECOMMENDATIONS

- Patient Centered Care
- Teamwork and Collaboration
- Evidence Based Practice
- Quality Improvement
- Safety
- Informatics
ANA STANDARDS

- Standard 8: Education
  “The registered nurse attains knowledge and competence that reflects current nursing practice”

- Standard 9: Evidence-Based Practice & Research
  “The registered nurse integrates evidence and research findings into practice”

- Standard 16: Environmental Health
  “The registered nurse practices in an environmentally safe and healthy manner”
QUESTIONS?

- Do you think it is possible to reach 100% hand hygiene compliance within a hospital setting?
- Have you ever seen any instances during clinicals where a nurse has not performed hand hygiene properly?
- How would you improve hand hygiene compliance?
REFERENCES


REFERENCES


