Behavioral determinant of hand hygiene compliance

Background

- Hand hygiene is the simplest and most effective to prevent HAIs, however, the compliance is poor among HCWs with influenced by many factors.
- It’s a major challenge for infection control expert to look for the best strategies to promote hand hygiene compliance.
- Need a multidimensional strategies & effective approach to become hand hygiene as part of HCWs behavior & culture

Overviews

Many factors have contributed to poor hand hygiene compliance among HCWs:
- lack of knowledge & skills
- understaffing
- high workload
- limited facilities
- dry skin & irritant
- forgetfulness
- lack of institutional commitment
- lack support from top managers & executive/senior leaders
Overview (cont...)

- To overcome these barriers, the CDC & HICPAC published a comprehensive Guideline for Hand Hygiene in Health Care Setting (2002) and
- The objective of these guidelines is to increased hand hygiene compliance among HCWs & promote patient safety.

The 5 core components of the WHO Multimodal Hand Hygiene Improvement Strategy

1. System change
   - Alcohol-based hands rub at point of care
   - Access to safe, continuous water supply, soap and towels

2. Training/education/motivation

3. Observation and feedback

4. Reminders in the workplace

5. Hospital safety climate

How to implement the strategies?

1. System change:
   - Setting the facilities of HH (accessible, continuous water supply, soap, disposable towels)
   - Provide alcohol based hands rub at the point of care
   - Facilitate skin care for HCWs’ hands
   - Install voice prompts/voice massage system
2. Training/education & motivation:
   - Training /education & motivation should be done for HCWs, patient & family, visitors by presentation, video, e-learning, discussion, poster, leaflet, demonstration, brochures, etc.
   - Conduct the regular training on microbial transmission through HCWs' hands
   - The importance of hand hygiene based on 5 moments
   - Correct procedures for hands rubbing & hand washing
   - Perform competition
   - Active involvement from top manager/leader

3. Observation & feedback:
   - Direct observation/audit the implementation of HH
   - Observe knowledge & skill of HCWs and top manager/executive leader
   - Evaluate the facilities & material consumption
   - Dissemination observation/audit results to individual/group
   - Implement administrative sanction & reward
   - Use the data for further planning
   - Evaluation & feedback should be done continuously without disruption of workflow
4. Reminder in the workplace:
  prompting and reminding HCWs, patients, visitor about the importance of hand hygiene and about the appropriate indications and procedures for performing it by put HH poster, leaflet in the work/public area & install voice/massage system.
How to implement ... (cont)

5. Institutional safety climate:
creating an environment and the perceptions that facilitate
awareness-raising about patient safety issues while
guaranteeing consideration of hand hygiene improvement as
a high priority at all levels

Activities to conduct safety climate

Install voice prompt massage system

Conclusion

- Hand hygiene is the simplest and most effective to prevent healthcare
associate infection, however the compliance is still low among HCWs with
many factors that contributed.

- To overcome those barriers, the CDC & HICPAC published a comprehensive
Guideline for Hand Hygiene in Health Care Setting (2002) and WHO launched
Guidelines on Hand Hygiene in Health Care (2009). According to these
guidelines, to promote hand hygiene compliance need a multidimensional strategies &
effective approach such as : change system, training / education & motivation,
observation & feedback, reminder in the work area & create institutional safety climate.

- By strong implementation the guidelines as appropriate and agreement from
top manager & executive leader that hand hygiene is important & non-negotiable, hand
hygiene is challenging & can achieved by do it together, will impact on increasing of
hand hygiene compliance and become as HCWs behavior and culture.
Infection Control is Everyone’s Business

References

- hh- monograph.pdf
- Journal of Emerging Infectious Diseases vol.7 no2 March 2001; Special Issues Improving Adherence to Hand Hygiene Practice: A Multidisciplinary Approach.
Thank you for your attention.