

Session Objectives

- Create the link of patient advocacy to the basic nursing care
- Define key fundamental evidence based nursing care practice of bathing to reduce harm/infection
- Discuss strategies to overcome barriers

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Notes on Hospitals: 1859

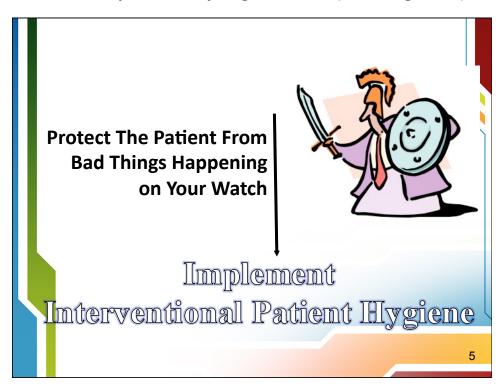
"It may seem a strange principle to enunciate as the very first requirement in a Hospital that it should do the sick no harm."

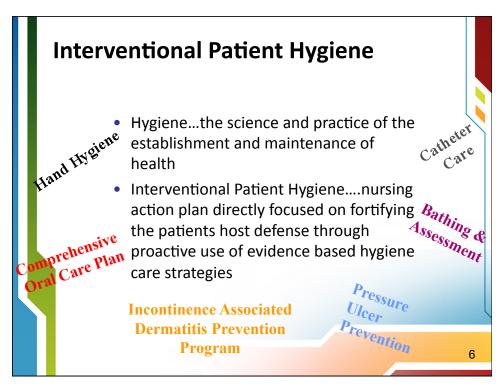


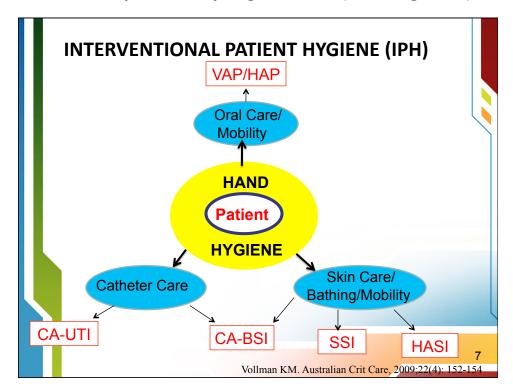
Florence Nightingale

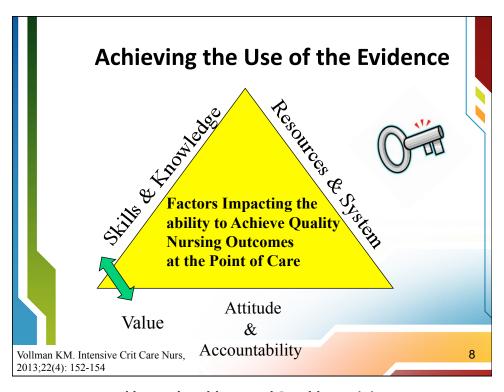
Advocacy = Safety

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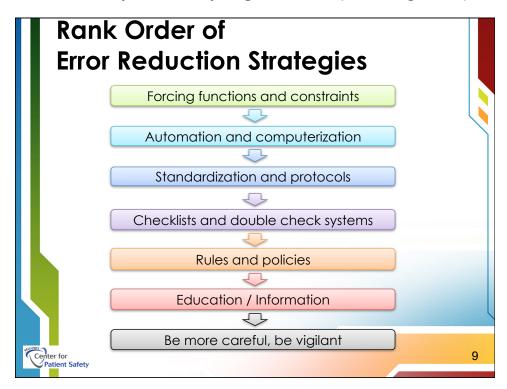




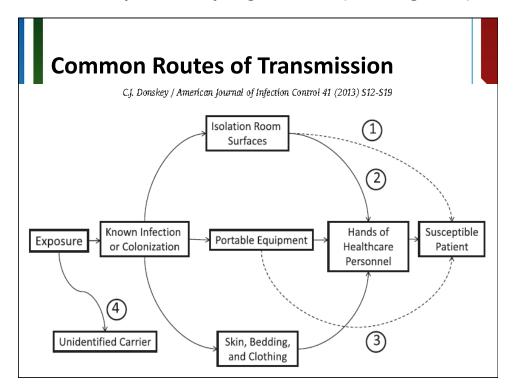




Hosted by Paul Webber paul@webbertraining.com
A Webber Training Telecass
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| Estimates: 183 Hospitals in 10 States HAI: 722,000/year HAI-related deaths: 75,000/year Hospitalized patients develop infection: 1 out of 25 (4%) Death due to sepsis/septic shock: 700/day Money spent: \$45 billion/year | Why HAI's? Protecting Patier | nts From Harm |
|---|-----------------------------------|--------------------|
| HAI-related deaths: 75,000/year Hospitalized patients develop infection: 1 out of 25 (4%) Death due to sepsis/septic shock: 700/day | <mark>Estimates: 183 Hospi</mark> | tals in 10 States |
| Hospitalized patients develop infection: Death due to sepsis/septic shock: 1 out of 25 (4%) 700/day | HAI: | 722,000/year |
| Death due to sepsis/septic shock: 1 out of 25 (4%) 700/day | HAI-related deaths: | 75,000/year |
| sepsis/septic shock: 700/day | · | 1 out of 25 (4%) |
| Money spent: \$45 billion/year | | 700/day |
| | Money spent: | \$45 billion/year |
| Increase risk of readmission: 27days vs. 59 days | | 27days vs. 59 days |



Reducing MDRO's

- Hand hygiene (Electronic versus direct observation more accurate in measuring compliance)¹
- Decontamination of environment and equipment
- Ultraviolet–C to kill pathogens.^{2,3}
 - After 45 minutes of use, C. difficile spores were reduced by up to 99 percent.
 - 15 minutes for non-spore forming bacteria
- Decontamination of the patient⁴
- Practice the device bundles (VAP,BSI, UTI)⁵

¹Morgan DJ, et al. AJIC, 2012;40:955-959

²Nerandzic MM, et al. *BMC Infect Dis* 2010 Jul 8;10:197

³Havill NL et al. Infect Control Hosp Epidemiol, 2012;33:507-512

⁴Huang SS, et al. New Engl J of Med, 2013;368(24):2255-65

⁵W w.ihi.org

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Patients At Risk Multi-Drug Resistant Organisms Immunodeficiencies Breaks in skin integrity related to invasive devices Co-morbidities Hand transmission Equipment contamination/Hospital environment Damaging the Natural Barriers to Infection...the Skin Bathing techniques Soaps Wash cloths Bonten MJM. Am J Respir Crit Care Med. 2011;184:991-993 Popovich KJ, et al. Infect control and Hosp Epidemiol, 2012;33:889-896 Weber DS, et al. Am J of Infect control, 2010;38:S25-33. Used with Permission Advancing Nursing LLC Copyright 2013 AACN



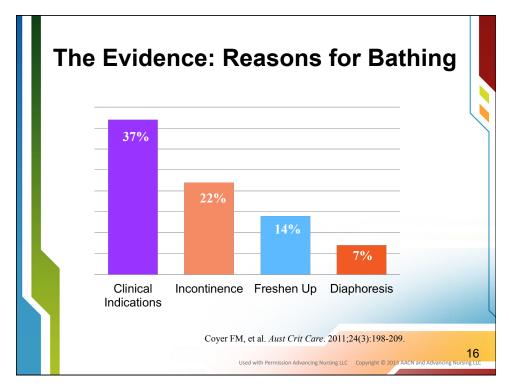
Optimal Hygiene

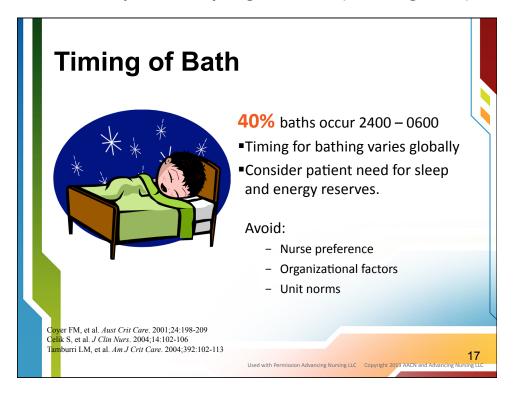
- pH balanced (4-6.8)

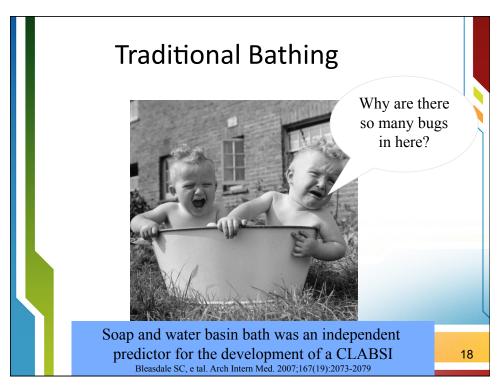
 - Bar soaps may harbor pathogenic bacteria
 - Skin pH requires 45 minutes to return to normal following a ordinary washing
- Excessive washing/use of soap compromises the water holding capacity of the skin
- Non-drying, lotion applied
- Multiple steps can lead to large process variation

Voegel D. J WOCN, 2008;35(1):84-90 Byers P, et al. WOCN. 1995; 22:187-192. Hill M. Skin Disorders. St Louis: Mosby; 1994. Fiers SA. Ostomy Wound Managment. 1996; 42:32-40. Kabara JJ. et. al. J Environ Pathol Toxicol Oncol. 1984;51-14

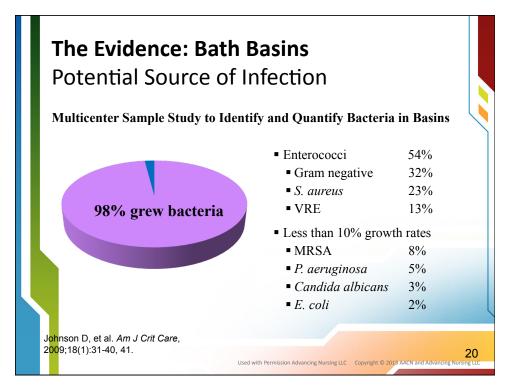
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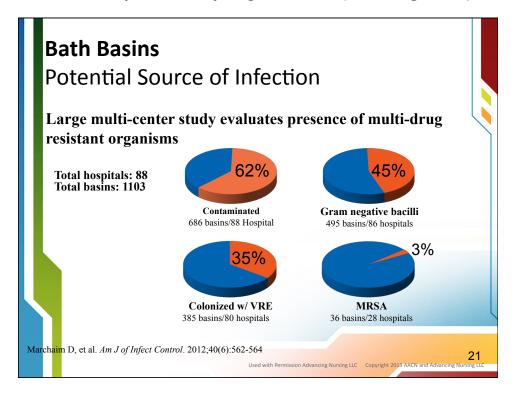


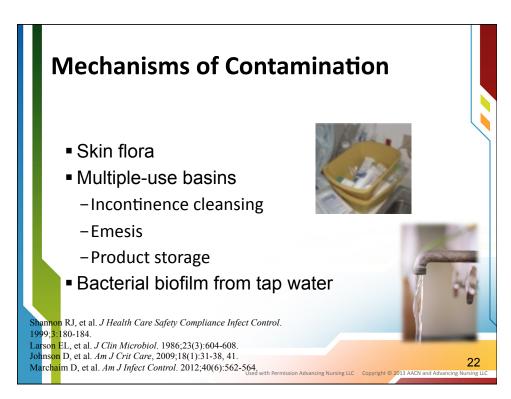


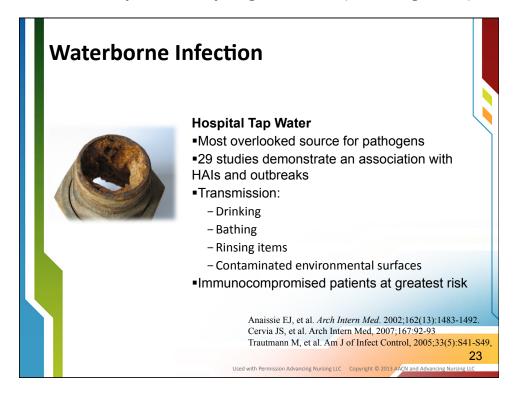


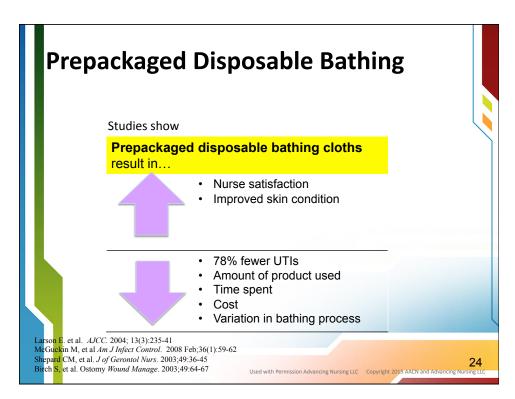
| Pathogen | Survival | Data | Transmission Settings |
|---------------|----------|------|-----------------------|
| C. difficile | Months | 3+ | Healthcare facilities |
| MRSA | d-weeks | 3+ | Burn units |
| VRE | d-weeks | 3+ | Healthcare facilities |
| Acinetobacter | 33 d | 2/3+ | ICUs |
| P. aeruginosa | 7 h | 1+ | Wet environments |









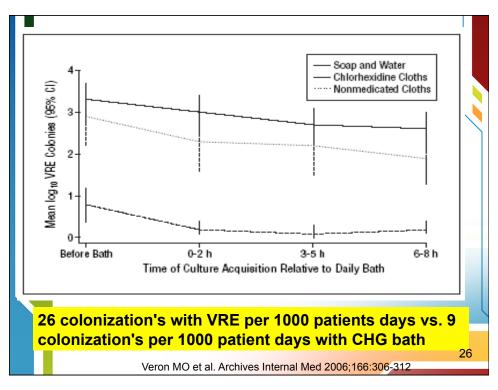


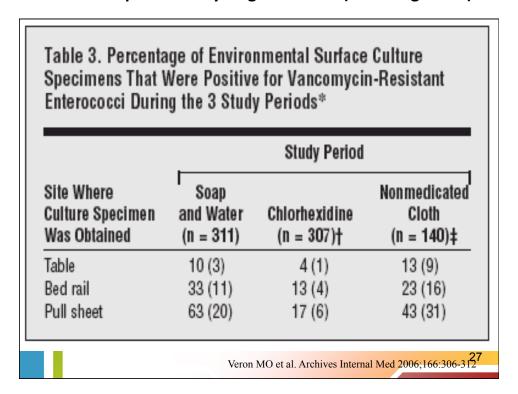
Antisepsis Bathing

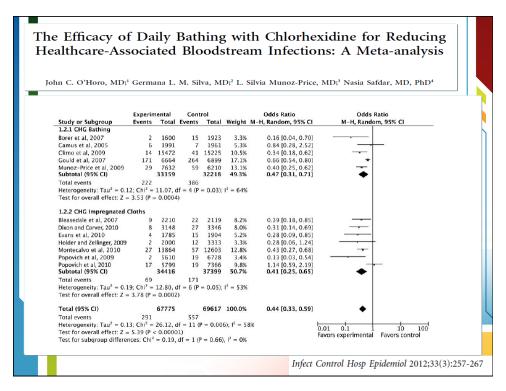
- Prospective sequential group single arm clinical trial
- 1787 patients bathed
 - Period 1: soap & water
 - Period 2: CHG basinless cloth bath
 - Period 3: non-medicated basinless cloth bath

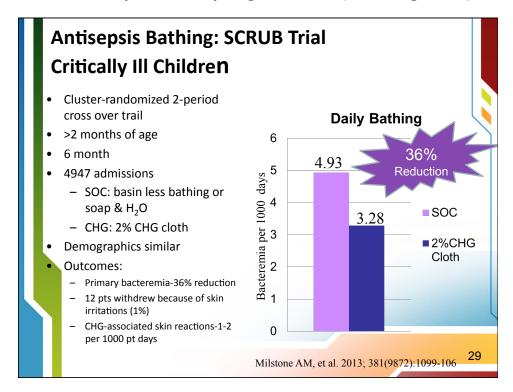
Veron MO et al. Archives Internal Med 2006;166:306-312

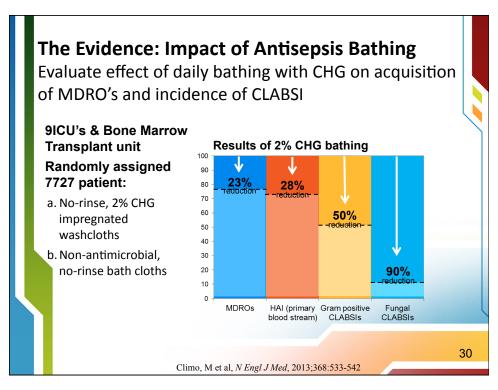
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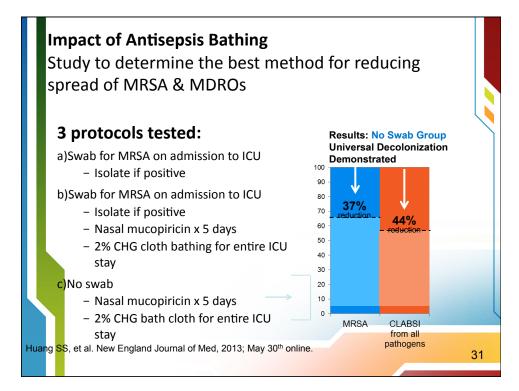










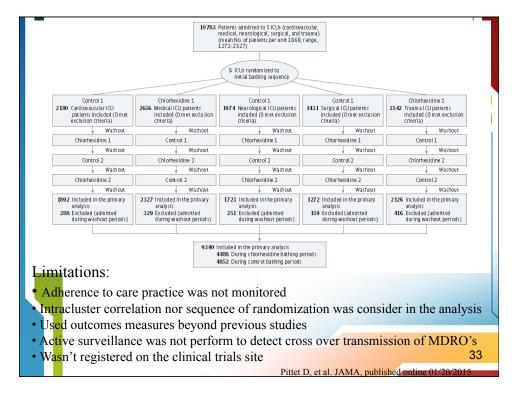


Single Center CHG Bathing Study

- A pragmatic cluster randomized, crossover study of 9340 patients admitted to 5 adult intensive care units of a tertiary medical center in Nashville, Tennessee, from July 2012 through July 2013.
- Units performed once-daily bathing of all patients with disposable cloths impregnated with 2%chlorhexidine or non-antimicrobial cloths as a control
- Bathing treatments were performed for a 10-week period followed by a 2-week washout period during which patients were bathed with nonantimicrobial disposable cloths, before crossover to the alternate bathing treatment for 10 weeks....3x
- Results
 - No difference in CLABSI's, CAUTI's, VAP & c-diff infections were seen

Noto MJ, et al. JAMA, published online 01/20/2015

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Recommendations and Implementation Strategies

- 1. Bath patients daily in ICU with CHG (determine if exclusion criteria)
- 2. Patient-centered bath times
- Evaluate clinical stability and patient preference.
- Avoid bathing between 2400 -0600.
- Evaluate workloads on all shifts.
- Adjust distribution of care practices.
- 3. Avoid reusable bath basins and use of washcloths
 - Remove soaps and creams from the unit stock.
 - Replace basin with better strategies for containing emesis and keeping supplies.
 - Reduce par levels of washcloths.
- 3. Avoid tap water for any component of bathing ICU patients
- 4. Use a no-rinse pH-balanced cleanser for facial cleansing

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Recommendations and Implementation Strategies

6. Procedure:

- After routine washing of face and hair, remove one batch of CHG cloths (three bundled packages of two cloths each = six cloths).
- Warming is for patient comfort, it is not required.
- Cloths should be used to bathe the skin with firm massage.
- Do not use CHG above the jawline
- CHG should be used for incontinence care, or for any other reasons for additional cleaning
 - If incontinence occurs, rinse the affected area with water and clean with chux. Then clean skin with CHG cloths.
- Use CHG-compatible barrier products if needed
- Do not rinse with water or wipe off

Universal ICU Decolonization: An Enhanced Protocol: Appendix F. Chlorhexidine Bathing Skills Assessment. September 2013. Agency for Healthcare Research and Quality, Rockville, MD. http://www.ahrq.gov/professionals/systems/hospital/universal_icu_decolonization/universal-icu-apf.html

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For Successful Banning of Basins for Patient Care

We need to provide alternatives for the other functions:

| Current | New |
|--|---|
| Emesis | Emebags being installed in every adult and ped pt. room, ACU, PACU |
| Storage of patient items | Clear plastic "baggies" Trial of "Concierge List" to decrease waste of unused/unneeded products |
| Foot soaks | Shampoo caps, prepackaged |
| Shampoo patient's hair | Shampoo caps par'd on all units |
| 24 hour urine, ice | Store some basins in lab to be dispensed with each 24 hour jug. |
| Bath cloths with no insulation, cold halfway through bath. | Bath cloths with insulation to stay warm longer |
| nama, anoagn batti. | a |

General Implementation Strategies

Educate patients and families about new bathing technologies

- Improves condition of the skin
- Reduces the spread of microorganisms
- Should not be rinsed off

Monitor compliance

- Assess estimated number of baths given
- Compare to use of bathing products used.

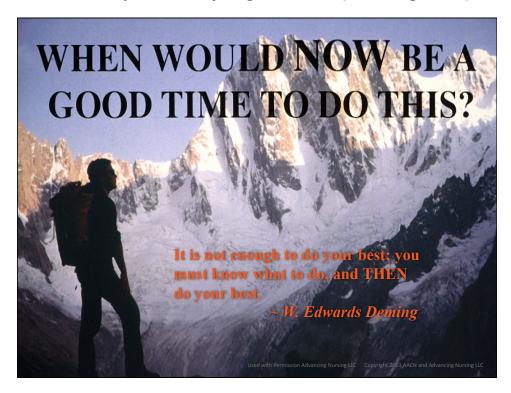
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Strategies for Successful Implementation

- Baseline measurement of HAI's
- Build the Will
- Reduce process variation
- Cost-benefit analysis
- Place resources at point of care
- Monitor compliance



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September 28 (Free British Teleclass ... Broadcast live from the 2015 IPS conference)
WHAT DID THE ROMANS EVER DO FOR US?

Carole Fry, Healthcare Infection Society

September 29 (Free British Teleclass ... Broadcast live from the 2015 IPS conference)

FAECAL TRANSPLANT TO TREAT CLOSTRIDIUM DIFFICILE DISEASE

Dr. Jonathan Sutton, Betsi Cadwaladr University Health Board, Wales

September 29 (Free British Teleclass ... Broadcast live from the 2015 IPS conference)

DEBATE – SELECTIVE DECONTAMINATION OF THE GUT

Dr. Cliff McDonald, Division of Healthcare Quality Promotion, USA, and Professor Jan Kluytmans, St Elisabeth Hospital, The Netherlands

September 30 (Free British Teleclass ... Broadcast live from the 2015 IPS conference)

THE EMERGENCE OF MERS: FROM ANIMAL TO HUMAN TO HUMAN

Professor Ziad Memish, Prince Mohammed Bin Abdulaziz Hospital, Saudi Arabia

October 14 (FREE WHO Teleclass - Europe)

THE USE OF SOCIAL MEDIA IN SUPPORT OF GLOBAL INFECTION PREVENTION AND CONTROL

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