

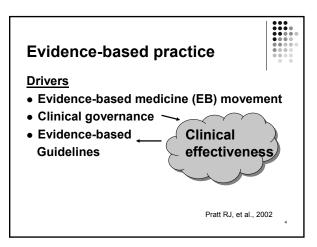


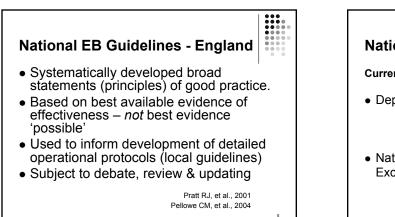
Healthcare-associated Infections in England

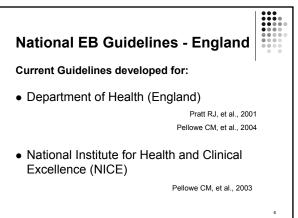


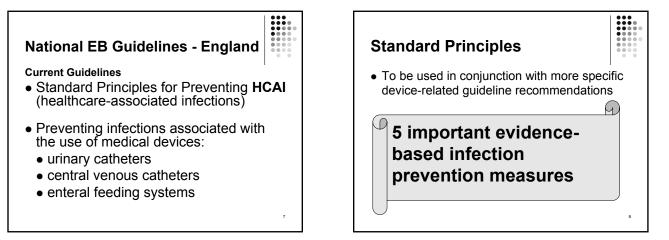
- 9% of patients in NHS hospitals develop healthcareassociated infections, i.e., 100,000 infections each year
- These infections are associated with significantly increased morbidity and morality
- Although not all of these infections are preventable, many are (15-30%)
- Many HCAI are linked to the use of medical devices

Pratt RJ, et al., 2001









Standard Principles hand hygiene



- 1. When to decontaminate hands
- Hands must be decontaminated immediately before each and every episode of direct patient contact or care and after any activity or contact that could potentially result in hands becoming contaminated

Standard Principles hand hygiene

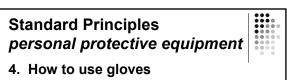


- 2. What cleaning preparation to use
- Hands that are visibly soiled, or potentially grossly contaminated with dirt or organic material, must be washed with liquid soap and water
- Hands must be decontaminated, preferably with an alcohol-based hand rub, unless hands are visibly soiled, between caring for different patients or between different care activities for the same patient

Standard Principles personal protective equipment

- 3. When to use gloves
- Gloves* must be worn for invasive procedures, contact with sterile sites and non-intact skin or mucous membranes, and all activities that have been assessed as carrying a risk of exposure to blood, body fluids, secretions or excretions, or sharp or contaminated instruments

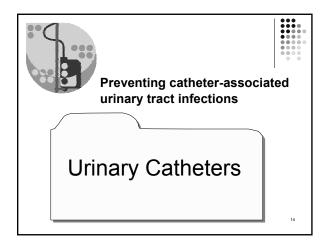
* sterile or non-sterile gloves

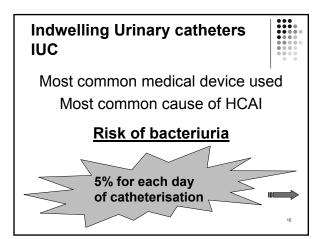


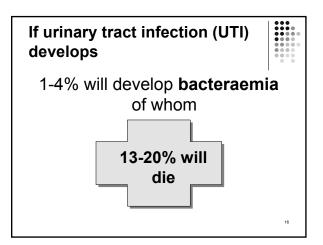
• Gloves must be worn as single-use items. They must be put on immediately before an episode of patient contact or treatment and removed as soon as the activity is completed. Gloves must be changed between caring for different patients, and between different care or treatment activities for the same patient

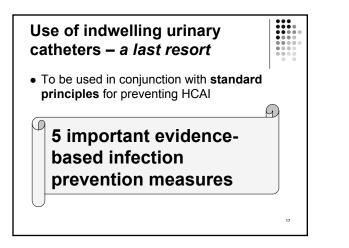
Standard Principles Using sharps safely

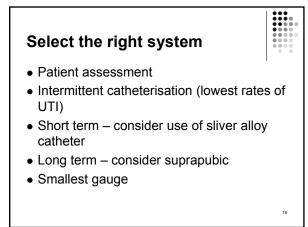
- 5. Using and disposing of sharps
- Sharps must not be passed directly from hand to hand, and handling should be kept to a minimum
- Needles must not be recapped, bent, broken or disassembled before use or disposal
- Used sharps must be discarded into a sharps container at the point of use by the user.

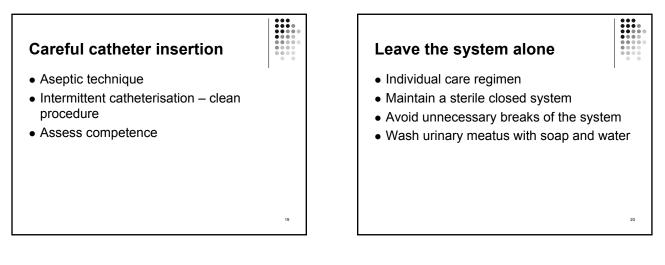


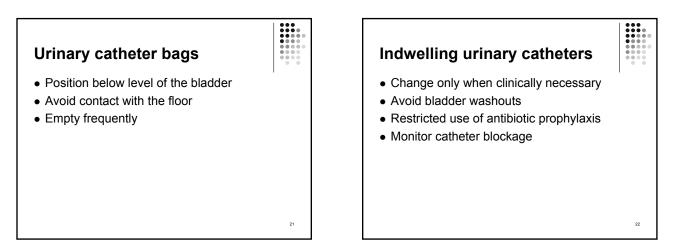


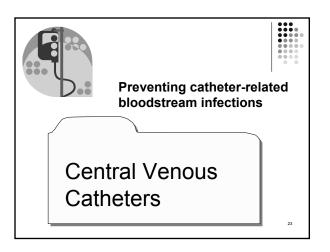


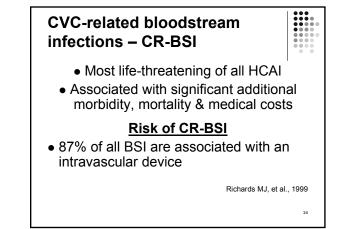


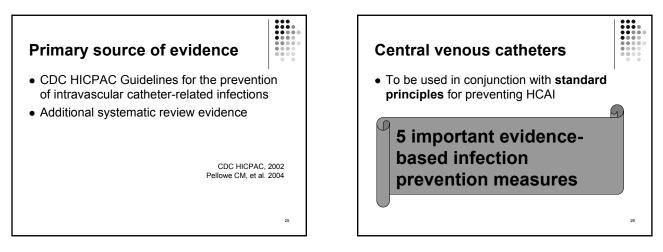












Use the right type of CVC

- Number of lumens
- Tunnelled catheter or an implantable vascular access device
- Antimicrobial impregnated CVC
 - Chlorhexidine & silver sulphadiazine impregnated
 - Minocycline/rifampin coated
 - Other

Optimum aseptic technique for insertion Use sterile gown, sterile gloves and a large sterile drape Use 2% alcoholic chlorhexidine

gluconate sol. for cleaning the skin prior to CVC insertion

Catheter & catheter site care

- Use aseptic technique for site care and for accessing the system
- Preferably, a sterile, transparent, semipermeable polyurethane dressing should be used to cover the site (change every 7 days or earlier when necessary)
- Use alcoholic sol. of chlorhexidine gluconate for disinfecting the catheter insertion site during dressing changes

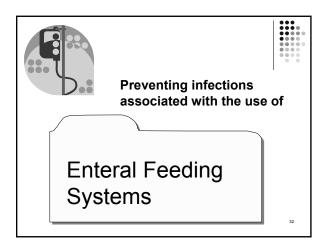
Catheter management
Inline filters not needed for preventing infection
Antibiotic lock solutions have a limited role in preventing infection
Dedicated lumen is needed for TPN
Use sterile 0.9% sodium chloride injection to flush and lock catheter lumens

Hosted by Debbie King, British Teleclass Organising Group www.webbertraining.com

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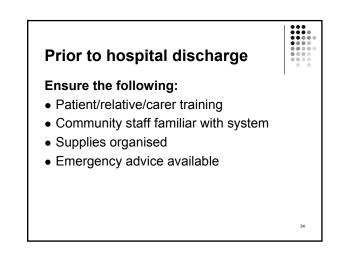
IV administration sets

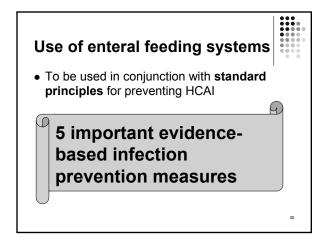
- Admin. sets in continuous use generally do not need to be replaced more frequently than at 72 hour intervals
- Admin. sets for blood or blood components should be changed every 12 hours, or according to manufacturer's instructions
- Admin. sets for TPN should be changed every 24 hours

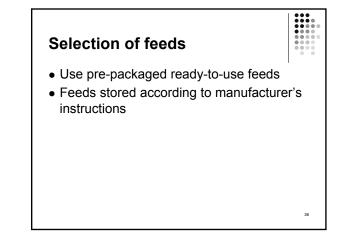


Enteral Feeding (EF)

- Increasingly common means of artificial nutrition
- UK: >12,000 people in community on EF
- Majority: nervous system dysfunction
- Most: Living at home







Preparation of feeds ¹

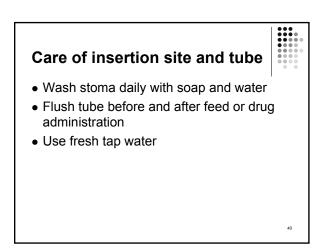
- Hand decontamination
- Clean working area
- Use dedicated equipment
- Compliance with food hygiene legislation

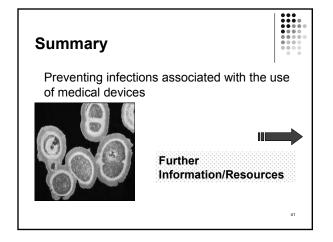
Preparation of feeds ²

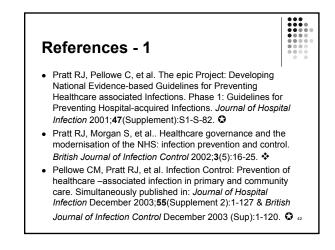
- Feeds mixed with cool boiled water or freshly opened sterile water
- No-touch technique
- Feeds made up for 24 hours and refrigerated

Feed administration

- Minimal handling of the system
- Ready-to-use feeds one session up to 24 hours
- Reconstituted feeds administered over 4 hours
- Administration sets and feed containers are single-use only







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References - 2

- Pellowe CM, Pratt RJ, et al. The *epic* project. Updating the evidence-base for national evidence-based guidelines for preventing healthcare-associated infections in NHS hospitals in England: a report with recommendations. *British Journal of Infection Control* 2004;5(6):10-15.
- Richards MJ, Edwards JR, et al. Nosocomial infections in medical intensive care units in the United States. National Nosocomial Infections Surveillance System. *Critical Care Medicine* 1999;27:887-892.
- CDC Guidelines for the prevention of intravascular catheterrelated infections. *MMWR* 2002;51(RR10)1-29. ■

References - availability

- O download free copy from: http://www.epic.tvu.ac.uk
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