

What products should we use for Hand Hygiene?

Two Ways to Clean Hands Where healthcare Soap and running water must is delivered be used for hand washing alcohol-based - hands are visibly soiled hand rub(AHR) is - caring for persons with the preferred diarrhoeal illness or method for hand where there is potential hygiene when for spread of hands are not microorganisms which visibly soiled. are resistant to AHR e.g. C.difficile. **#UCC** Alcohol Based Hand Rub
Products

"alcohol based hand rubs are the only known means for rapidly and effectively inactivating a wide array of potentially harmful micro-organisms on the hands."

Pittet et al 2004

WHO recommends alcohol based hand rubs as there is growing evidence to show they are/have

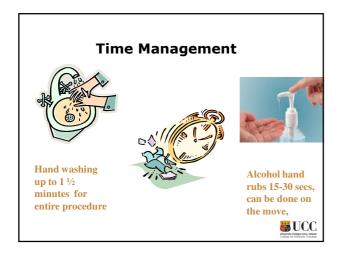
Fast acting

Broad spectrum of antimicrobial activity with minimal risk of generating resistance

Suitability in areas with limited facilities

Capacity to promote compliance

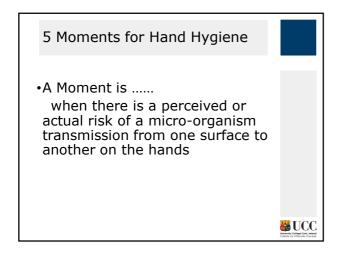
Economic benefit by reducing infection rates

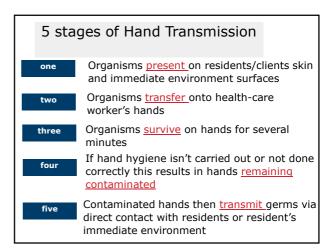






What are the Five Moments for Hand Hygiene?





Hand transmission: Step 1

Organisms present on patient skin and environment surfaces

- Organisms (S. aureus, P. mirabilis, Klebsiella spp and Acinetobacter spp.) present on intact areas of some patients
- Nearly 1 million skin squames containing viable organisms are shed daily from normal skin
- Patient environment (bed linen, furniture, objects) becomes contaminated (especially by staphylococci and enterococci) by patient organisms



Hand transmission: Step 2

(The Lancet Infectious Diseases 2006)

Organisms transfer on health care providers' hands - examples:

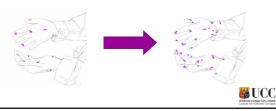
- HCW could contaminate their hands with microorganisms during "clean" activities (lifting patients, taking the patient's pulse, blood pressure, or oral temperature)
- 15 per cent of nurses working in an isolation unit carried significant amounts of S. aureus on their hands
- In a general hospital, 29 per cent nurses carried S. aureus on their hands and 17-30 per cent carried Gramnegative bacilli



Hand transmission: Step 3

Organisms survival on hands

- · Following contact with patients and/or contaminated environment, organisms can survive on hands for differing lengths of time (2-60 minutes)
- In the absence of hand hygiene, the longer the duration of care, the higher the degree of hand contamination

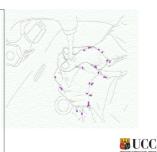


Hand transmission: Step 4

(The Lancet Infectious Diseases 2006)

Defective hand cleansing results in hands remaining contaminated

- · Insufficient amount of product
- Suboptimal technique and duration of hand hygiene action leads to poor hand cleaning
- Transient organisms may still be recovered on hands following handwashing with soap and
- Hand hygiene with an alcoholbased hand rub has been proven significantly more effective



Hand transmission: Step 5

(The Lancet Infectious Diseases 2006)

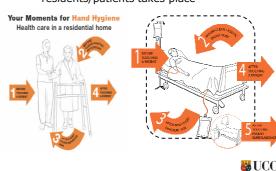
Contaminated hands cross-transmit organisms

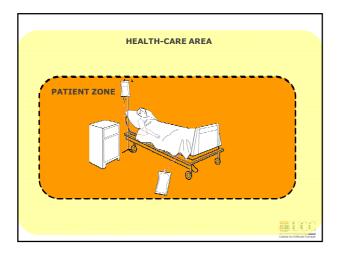
In many outbreaks, organism transmission from patients or the environment to other patients through health care providers' hands has been demonstrated.





The 5 Moments apply to any setting where health care involving direct contact with residents/patients takes place





Patient zone:

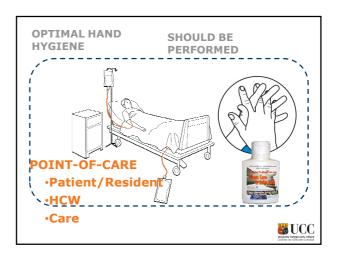
- Patient/resident/clients surfaces and items that are temporarily and exclusively dedicated to the person
- For example bed rails, bedside table, bed linen, chairs, infusion tubing, monitors, knobs and buttons, and other medical equipment.
- This area becomes contaminated by the residents/patients own flora.



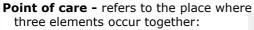
Health-care zone:

- All surfaces in the health-care setting outside the residents/patient zone.
- For example other residents/patients and their residents/patient zones and the wider health-care environment.
- The health-care area is characterized by the presence of various and numerous microbial species, including multi-resistant germs.

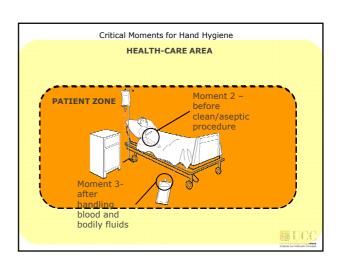




Products in the Right Place



- 1.the resident
- 2.the staff
- 3.care involving patient contact is taking place
- Busy staff need access to hand hygiene products where care is taking place.
- Providing alcohol-based hand rub at the point of care (e.g., within arm's reach) is important to improve hand hygiene.



1. Before touching a patient / client

- When? Clean your hands before touching the resident / patient when approaching hime or her
- To protect the resident/patient from harmful germs carried on your hands with could lead to colonisation of infection

Examples:

- a) Before shaking hands, before stroking a child's forehead b) Before assisting a patient / client in personal care activities: to move, to take a bath, to eat, to get dressed,
- c) Before delivering care and other non-invasive treatment:
- d) Before performing a physical non-invasive examination: taking pulse, blood pressure, chest auscultation, recording



2. Before clean / aseptic procedure

- · When? Clean your hands immediately before clean tasks or aseptic procedures
- Why? To protect the resident/patient from harmful germs including the patients own germs from entering his or her body

- **Examples:**a) Before brushing the patient / client's teeth, instilling eye drops, examining mouth, nose, ear with or without an instrument, inserting a suppository / pessary, suctioning mucous b) Before dressing a wound with or without instrument, giving injections, drawing blood c) Before inserting an invasive medical device or disrupting / opening any circuit of an invasive medical device d) Before preparing food

- e) Before preparing medications, pharmaceutical products, sterile



3. After body fluid exposure risk

- **O WHEN?** Clean your hands as soon as the task involving an exposure risk to body fluids has ended (and after glove removal)
- **OWHY?** To protect you from colonisation or infection with patient's harmful germs and to protect the health-care environment from germ in body fluids

Examples:

- a) When the contact with a mucous membrane and with non-intact
- b) After a percutaneous injection or puncture; after inserting an invasive medical device and after disrupting and opening an invasive circuit

- circuit

 () After removing an invasive medical device
 d) After removing any form of material offering protection
 (dressing, gauze, sanitary towel, etc)
 e) After handling a sample containing organic matter, after clearing
 excreta and any other body fluid, after cleaning any contaminated
 surface and soiled material (soiled bed linen, dentures, instruments,
 urinal badgan layatories etc) urinal, bedpan, lavatories, etc)



4. After touching a patient

- When? Clean your hands immediately after contact with body fluids including after glove removal
- Why? To protect yourself and the health care environment from harmful patient germs contained in body fluids

- a) After shaking hands, stroking a child's foreheadb) After you have assisted the patient in personal care activities: to move, to bath, to eat, to dress, etc
- c) After delivering care and other non-invasive treatment d) After performing a physical non-invasive examination: taking pulse, blood pressure, chest auscultation, recording ECG



5. After touching patient surroundings

- When? After contact with the residents/patients immediate environment (bed, furniture etc) when leaving even - without touching the patients environment
- Why? To protect yourself and the healthcare environment from harmful germs which maybe in the immediate environment or on equipment used by the

Examples:

a) After an activity involving physical contact with the patient / clients out of the bed, holding a bed rail, clearing a bedside table
b) After a care activity: adjusting perfusion speed, clearing a monitoring alarm

c) After other contacts with surfaces or inanimate objects (chair, bed

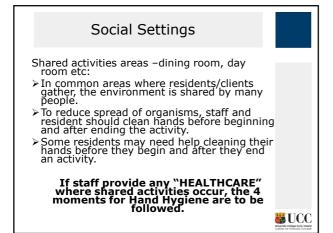


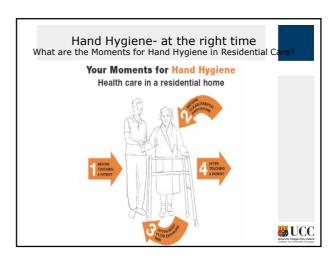
Making this work in LTCF's

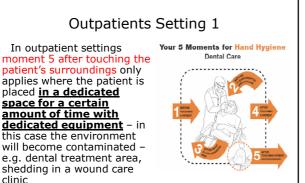
- ✓ Where residents are cared for in a dedicated space with dedicated equipment 5 moments apply
- √Where residents are semi- autonomous they have their own room or shared room but they also move within the facility 4 moments apply to where healthcare is delivered

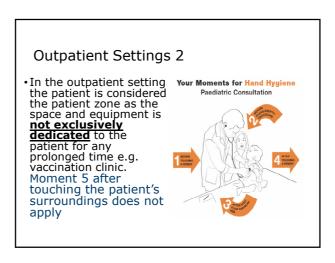
Remember 4 and 5 moments do not cover any social contacts with or among LTCF residents unrelated to healthcare - shaking hands











HCW carrying out observations in a four bedded room in a hospital.

HCW is recording vital signs in a four bedded bay and starts by approaching patient A, brings the machine to the bed space

HCW places the thermometer in the patients ear, checks pulse and then records the results on the chart.

The patient is diabetic so the HCW performs a finger prick and uses the BGM to get a reading & records the reading

The person has a urinary catheter so the HCW bends down to look at the bag which is full

HCW leaves the room and walks to the sluice to get a container

HCW returns to the patient and proceeds to empty the bag

HCW walks to the sluice and discards the urine and returns to the patient

HCW goes to patient B to carry out observations

