Just Clean Your Hands Program

# Your 4 Moments for Hand Hygiene for Long-Term Care Homes

Version 1.3



# Perfoming hand hygiene: "when and how" Overview:

- 1. Discussion of "when" to clean hands.
- Review of two methods for cleaning hands and the importance of technique in reducing the spread of infections and maintaining skin integrity
- 3. Practical training for staff on the essential moments for hand hygiene Your 4 Moments for Hand Hygiene
- 4. A high-level overview of the observational audit process

#### Note:

- The term "staff" includes anyone conducting activities in the long-term care home.
- It is recommended that the Hand Hygiene Education module also be completed by staff. Available at <u>www.justcleanyourhands.ca</u>

## Did you know?

- Health care associated infections (HAI) are the most common serious complication of hospitalization.
- Health care associated infections were the 11th leading cause of death two decades ago, but are now the fourth leading cause of death for Canadians (behind cancer, heart disease and stroke).
- In a long-term care home, the median cost associated with methicillin-resistant *Staphylococcus aureus* (MRSA) infection can be almost two times higher than the cost of a methicillin-sensitive *Staphylococcus aureus* infection.
- A recent study at Sunnybrook Health Sciences Centre, Long Term Care, in Toronto demonstrated the higher the hand hygiene compliance rate the lower the norovirus attack rate.
- A study showed it cost \$12,061 CAD to control a VRE outbreak in a long-term care home.

# Did you know?

• An increase in hand hygiene adherence of only 20 per cent results in a 40 per cent reduction in the rate of health care associated infections.

(McGeer, A. "Hand Hygiene by Habit". Infection prevention: practical tips for physicians to improve hand hygiene. *Ontario Medical Review, November 2007, 74*).

- Most staff working in health care settings believe they are already practicing good hand hygiene.
- The observational audits from the *Just Clean Your Hands* testing in Ontario showed a baseline general compliance rate of:



\*The pilot study also showed that compliance rates must be broken down into each moment and by the type of care provider to ensure reliable comparative data

• The power to make a difference is in your hands.

Adapted from

## Why does perception and practice differ?



- Staff generally clean their hands when they are visibly soiled, sticky or gritty, or for personal hygiene purposes (e.g. after using the toilet). Usually these indications require handwashing with soap and water. This "habit" is frequently learned in early childhood.
- Other hand hygiene indications unique to health care settings are not triggered by the "habit" to clean the hands. Highlighting these indications in health care are needed to create new "habits".

#### Hand hygiene in health care

- Staff move from one resident area to the next resident's area while providing care.
- This movement while carrying out tasks and procedures provides many opportunities for the transmission of organisms on hands.

#### **Transmission of organisms**

Transmission of organisms by hands of staff between two residents can result in health care associated infections (HAIs).



#### Why does hand hygiene work?

Hand hygiene with alcohol-based hand rub – **correctly applied** – kills organisms in seconds.

Hand hygiene with soap and water – **done correctly** – removes organisms.



#### How to clean hands: Two methods

Two Ways to Clean Hands

Alcohol-based hand rub is the preferred method for cleaning hands. It is better than washing hands (even with antibacterial soap) when hands are not visibly soiled. Handwashing with soap and running water must be done when hands are visibly soiled.

If running water is not available, use moistened towelettes to remove the visible soil, followed by alcohol-based hand rub.

## **Technique matters**

It is important that skin on hands remain intact to reduce the spread of organisms.

#### To clean hands properly:

- rub all parts of the hands with an alcohol-based hand rub or soap and running water.
- pay special attention to fingertips, between fingers, backs of hands and base of the thumbs.
  - ➤ Keep nails short and clean
  - Remove rings and bracelets
  - Do not wear artificial nails
  - Remove chipped nail polish
  - Make sure that sleeves are pushed up and do not get wet

- Clean hands for <u>a minimum</u> of 15 seconds
- Dry hands thoroughly
- Apply lotion to hands frequently

#### Product at "Point of Care" – in the right place

- Busy staff need access to hand hygiene products where resident/resident environment contact is taking place.
- This enables staff to quickly and easily fulfill the 4 Moments for Hand Hygiene.
- Providing alcohol-based hand rub at the point of care (e.g., within arm's reach) is an important system support to improve hand hygiene.
- Point of care can be achieved in a variety of methods. (e.g., ABHR attached to the bed, wall, equipment, and/or carried by the staff)

Point of care - refers to the place where three elements occur together:

- the resident
- the staff
- care involving contact is taking place

## Product placement:

-analysis of workflow, risk assessment, maintenance

Consider:

•Workflow patterns so it is easily accessible.

•Safety

Resident population

Dispensers not protruding or leaking

Fire regulations

Occupational Health and Safety recommendations

•Glove donning and removal

•Waste basket placement

•Use a "testing phase" to verify placement is correct

- •Identify responsibilities for maintaining system
- •Ongoing verification system is effective and maintained

For more information refer to: www.justcleanyourhands.ca

### When should hand hygiene be performed?

- Before preparing, handling, serving or eating food
- After personal body functions
- Before putting on and after taking off gloves
- Whenever a staff is in doubt about the necessity for doing so
- In addition to the above indications for hand hygiene, there are some essential moments in health care settings where the risk of transmission is greatest and hand hygiene must be performed. This concept is what *Your 4 Moments for Hand Hygiene* is all about.

#### When to Clean Hands

#### Resident room:

This is in the resident's area. In a single room this is everything in the resident's room. In a multiple room, this is everything in the immediate proximity to the resident.

In the resident's room, staff, volunteers and family members are to clean hands following "Your 4 Moments for Hand Hygiene"

#### Shared activities:

In common areas where residents gather, the environment is shared by many people. To reduce spread of organisms, everyone is to clean hands before beginning and after ending the activity.

Some residents may need help cleaning their hands before they begin and after they end an activity.

If staff, volunteers or families provide any "direct care" where shared activities occur, the 4 moments for Hand Hygiene are to be followed.

#### When to Clean

#### "Direct Care"

•Direct care is defined as providing hands-on care such as: bathing, washing, or turning a resident; changing clothes or providing continence care; changing dressings and caring for open wounds/lesions; and toileting.

•If direct care is provided in shared activities, the "4 Moments for Hand Hygiene" are to be followed.

#### **Definition of Resident's Room**





#### Your 4 Moments For Hand Hygiene

Clean your hands when entering before touching the resident or any object or furniture in the resident's environment.

To protect the resident/ resident environment from harmful organisms carried on your hands.



Clean your hands immediately after an exposure risk to body fluids (and after glove removal).

To protect yourself and the health care environment from harmful resident organisms.

Clean your hands immediately before any aseptic procedure.

To protect the resident against harmful organisms, including the resident's own organisms, entering his or her body.

Clean your hands when leaving after touching resident or any object or furniture in the resident's environment.

To protect yourself and the health care environment from harmful resident organisms.

Activity: View Scenario DVD – Main Menu – Your 4 Moments for Hand Hygiene



#### Some examples may be:

- shaking hands, stroking an arm
- helping a resident to move around, get washed, giving a massage
- taking pulse, blood pressure, chest auscultation, abdominal palpation

Activity: View Scenario DVD – Main Menu – Training Scenarios 1a, 1b, 1c, 1d



#### Some examples may be:

- oral/dental care, giving eye drops, secretion aspiration
- skin lesion care, wound dressing, subcutaneous injection
- catheter insertion, opening a vascular access system or a draining system
- preparation of medication, dressing sets

Activity: View Scenario DVD – Main Menu – Training Scenarios 2a, 2b





Activity: View Scenario DVD – Main Menu – Training Scenarios 3a, 3b, 3c



Some examples may be:

- shaking hands, stroking an arm
- helping a resident to move around, get washed, giving a massage
- taking pulse, blood pressure, chest auscultation, abdominal palpation
- changing bed linen
- monitoring alarm
- holding a bed rail
  - clearing the bedside table

Activity: View Training DVD – Main Menu – Training Scenarios 4a, 4b, 4c

## Hand Hygiene and Glove Use

- The use of gloves does not replace the need to clean hands.
- Discard gloves after each procedure and clean your hands.
- Wear gloves only when indicated, otherwise they become a major risk for transmission of organisms.

### Your 4 Moments for Hand Hygiene



## Measuring Hand Hygiene Compliance

- Auditing hand hygiene compliance by staff provides a benchmark for improvement.
- The results of observational audits will help identify the most appropriate interventions for hand hygiene education, training and promotion.
- The results of the observational audits should be shared with front-line staff, management and long-term care boards.

## Method of Observation

- Direct observation of hand hygiene practices is done by trained observers using a standardized and validated audit tool.
- The observation is based on the *4 Moments for Hand Hygiene*.
- The observer conducts observations openly, but the identity of the staff is kept confidential, no names are attached to the information.
- Each observation session is approximately 20 minutes.

## Who is Observed?

- All staff working with residents or in the resident care unit may be observed.
- It is recommended that the focus of observations will be conducted in the residents' rooms as this is where the majority of "direct care" is provided.
- Observers will only record what they see.

#### Methods of feedback

- Data is collected, analyzed and reported back to each unit.
- Long-term care homes may choose to provide immediate feedback to staff using the "On-the-spot" tool.

#### **Optional "On-the-spot" Feedback Tool**



### Acknowledgement

- The Ministry of Health and Long-Term Care would like thank the WHO World Alliance for Patient Safety for sharing its *Clean Care is Safer Care* materials. This presentation includes slides from annex 16 and concepts from the Observer's Manual of *Clean Care is Safer Care*, the WHO multimodal hand hygiene improvement strategy developed by the World Alliance for Patient Safety.
- Ontario congratulates WHO on the clearly articulated concept of "5 Moments" to perform hand hygiene. Ontario has done a local adaptation of the 5 Moments concept and will be teaching *Your 4 Moments for Hand Hygiene*. The 4 Moments includes six indications for hand hygiene.





# Discussion