MRS.RATHIDEVI.S PROFESSOR ICON

DEMONSTRATION

ON

MEDICAL AND SURGICAL HAND WASHING

GENERAL OBJECTIVE:

At the end of the class students are able to understand regarding "medical and surgical hand washing". We can reduce the infection in clinical setting, while taking history collection and giving care of patients with proper hand washing.

SPECIFIC OBJECTIVE:

The students will able to:

- \checkmark Definition of hand washing
- \checkmark explain the importance hand washing
- \checkmark List out the five moments and indication of hand washing.

- \checkmark Describe the types of hand washing
- \checkmark Demonstrate the medical and surgical hand washing steps.

S.N O	SPECIFIC OBJECTIVES	TIME	CONTENT	TEACHERS AND LEARNERS ACTIVITY	AVAI DS	METHODS OF EVALUATION
1.			DEFINITION OF HAND WASHING:			
	The students will	1	IgnazSemmelweis, a Hungarian physician practicing at a hospital	Discuss the	Roller	What is the
	be able to explain	Minute	in Vienna, Austria, proposed hand washing and chlorine	definition of	board	definition of hand
	the definition of		solutions in the OB ward in 1847.	hand washing		washing?
	hand washing			Listening and		
			• <u>Hand washing:</u>	taking notes		
			It refers to washing hands with plain soap and water.			
			• <u>Antiseptic hand wash:</u>			
			It refers to washing hands with water and soap or other			
			detergents containing an antiseptic agent.			
			• <u>Alcohol-based hand rub:</u>			
			It refers to the alcohol-containing preparation applied to the			
			hands to reduce the number of viable microorganisms.			

		<u>Surgical hand hygiene/antisepsis:</u> It refers to an antiseptic hand wash or antiseptic hand rub performed preoperatively by surgical personnel to eliminate and reduce resident hand flora.		
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2	Discuss the	2 min	IMPORTANCE OF HAND WASHING:	Discuss the	Black	What is	the
	importance of hand		Thousands of people die every day around the world from	importance of	board	importance	off
	washing		infections acquired while receiving health care.	hand washing.		hand washing	?
			•Hands are the main pathways of germ transmission during	Listening and			
			health care.	taking notes			
			•Hand hygiene is therefore the most important measure to avoid				
			the transmission of harmful germs and prevent health care-				
			associated infections.				
3.	Indication and Five moments of hand washing	5 mint	BEFORE TOUCHING A PATIENT BEFORE TOUCHING A PATIENT A PA	Describe the Indication and Five moments of hand washing	Hand out	What are all five moments hand washing	s of

•	Indication	5	1) Before touching a patient:		
	and Five	mint	WHY?	Discuss the	
	moments of		To protect the patient against colonization and, in some cases,	moments of	
	hand washing		against exogenous infection, by harmful germs carried on your hands.	hand	
				washing	
			WHEN?	Listening	
			Clean your hands before touching a patient when	and taking	
			approaching him/her*	notes	
			Situations when Moment 1 applies:		
			a)Before shaking hands, before stroking a child's forehead		
			b)Before assisting a patient in personal care activities: to move, to take		
			a bath, to eat, to get dressed, etc		
			c)Before delivering care and other non-invasive treatment: applying		
			oxygen mask, giving a massage		
			c)Before performing a physical non-invasive examination: taking		
			pulse, blood pressure, chest auscultation, recording ECG		
			2) BEFORE CLEAN/ASEPTIC PROCEDURE:		
			WHY?		
			To protect the patient against infection with harmful germs, including		
			his/her own germs, entering his/her body		

 WHEN?	
Clean your hands immediately before accessing a critical site with	
infectious risk for the patient (e.g. a mucous membrane, non-intact	
skin, an invasive medical device)*	
Situations when Moment 2 applies:	
a)Before brushing the patient's teeth, instilling eye drops, performing a	
digital vaginal or rectal examination, examining mouth, nose, ear with	
or without an instrument, inserting a suppository / pessary, suctioning	
mucous	
b)Before dressing a wound with or without instrument, applying	
ointment	
on vesicle, making a percutaneous injection /puncture	
c)Before inserting an invasive medical device (nasal cannula,	
nasogastric tube, endotracheal tube, urinary probe, percutaneous	
catheter, drainage), disrupting / opening any circuit of an invasive	
medical device (for food, medication, draining, suctioning, monitoring	
purposes)	
3. AFTER BODY FLUID EXPOSURE RISK	
WHY?	
To protect you from colonization or infection with	

patient's harmful germs and to protect the health-care	
environment from germ spread	
WHEN?	
Clean your hands as soon as the task involving an	
exposure risk to body fluids has ended (and after glove removal)*	
Situations when Moment 3 applies:	
a)When the contact with a mucous membrane and with non-intact skin	
ends	
b)After a percutaneous injection or puncture; after inserting an invasive	
medical device (vascular access, catheter, tube, drain, etc); after	
disrupting and opening an invasive circuit	
c)After removing an invasive medical device	
d)After removing any form of material offering protection (napkin,	
dressing, gauze, sanitary towel, etc)	
e)After handling a sample containing organic matter, after clearing	
excreta and any other body fluid, after cleaning Uncontaminated	
4.AFTER TOUCHING A PATIENT	
WHY?	
To protect you from colonization with patient germs	
and to protect the health-care environment from germ spread	
WHEN?	

Clean your hands when leaving the patient's side,
after having touched the patient *
Situations when Moment 4 applies, if they correspond to the last
contact with the patient before leaving him / her:
a)After shaking hands, stroking a child's forehead
b)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: changing bed
linen as the patient is in, applying oxygen mask, giving a massage
d)After performing a physical non-invasive examination:
taking pulse, blood pressure, chest auscultation, recording ECG
5.AFTER TOUCHING PATIENT SURROUNDINGS
WHY?
To protect you from colonization with patient germs that may
be present on surfaces / objects in patient surroundings and to protect
the health-care environment against germ spread
WHEN?
Clean your hands after touching any object or furniture when living the
patient surroundings, without having touched the patient*
This Moment 5 applies in the following situations if they correspond

to the last contact with the patient surroundings, without having
touched the patient:
a)After an activity involving physical contact with the patients
immediate
environment: changing bed linen with the patient out of the bed,
holding a bed trail, 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
TYPES OF HAND WASH PROCEDURE
1. SOCIAL HAND WASH:
Why should a social hand wash be performed?
Social hand wash is performed to render the hands physically clean and
to remove transient microorganisms. It is an
infection control practice with a clearly demonstrated efficacy and
remains the cornerstone of efforts to reduce the spread of infection .

When should a social hand wash be performed?		
The times that hand hygiene should be performed have been summarised into the "Your 5 Moments for Hand Hygiene", as these are considered the most fundamental times for the levels of hand hygiene to be undertaken during care delivery and daily routines Your 5 Moments for Hand Hygiene Examples of when to perform a social hand wash		
Before:		
 the beginning of the shift preparing, handling and eating food donning gloves any patient contact clean/aseptic procedures entering/leaving clinical areas entering/leaving isolation cubicles preparing/giving medications 		
•using a computer keyboard in a clinical area		

After:	
•the end of a shift	
•any patient contact	
•bed making	
•contact with patient surroundings	
•visiting the toilet	
•the removal of gloves	
•hands become visibly soiled	
•handling laundry/waste	
•using a computer keyboard in a clinical area	
•the administration of medications	
•blood and/or body fluid exposure risk	
What solution should be used for performing a social hand wash?	
Liquid soap (plain or antimicrobial)	
•The soap comes in disposable cartridges and must not be reused or	
"toppedup"	
•Bar soap should not be used in clinical areas	
How should a social hand wash be performed?	



2.HYGIENIC HAND WASH :	
Why should a hygienic hand wash be performed?	
To remove or destroy transient microorganisms and to substantially	
reduce resident microorganisms during times when surgical procedures	
are performed.	
When should a hygienic hand wash be performed?	
Before all aseptic procedures on the ward.	
What should be used for performing a hygienic hand wash?	
An approved antiseptic detergent (eg 4% Chlorhexidinegluconate or	
7.5% Povidone iodine).	
How should a hygienic hand wash be performed?	
'How should a social hand wash be performed? like that only.	
How to handrub:	
To effectively reduce the growth of germs on hands, hand rubbing	
must be performed by following all of the illustrated steps. This takes	
only 20–30 seconds:	

HOW TO HANDWASH:

To effectively reduce the growth of germs on hands, hand washing must last 40–60 sec and should be performed by following all of the illustrated steps

3.SURGICAL HAND WASH :

Why should a surgical hand wash be performed?

To remove or destroy transient microorganisms and to substantially reduce resident microorganisms during times when surgical procedures are performed. It is intended to decrease the risk of wound infections should surgical gloves become damaged.

When should a surgical hand wash be performed?

Before all surgical/invasive procedures.

What should be used for performing a surgical hand wash?

	An approved antiseptic detergent (eg 4% Chlorhexidinegluconate or
	7.5% Povidone iodine).
	How should a surgical hand wash be performed?
	•When performing a surgical hand wash, the level of the hands should
	always remain above the elbows
	•Always use sensor or elbow operated taps Apply antiseptic detergent
	to the hands and wrists and wash for at least one minute up to the
	elbow.
	•A sterile brush may be used for the first application of the day, but
	continual use is inadvisable.
	•Using a prepacked sterile brush, clean under the nails only of both
	hands.
	•Rinse thoroughly.
	•Apply a second application of antiseptic detergent and wash hands
	and two thirds of the forearms with either Povidone iodine for at least
	one minute, or Chlorhexidinegluconate for at least two minutes.
	•Rinse thoroughly.
	•One sterile towel should be used to blot dry the first hand and arm and
	another sterile towel for the second hand and arm
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When we don't wash our hands:								
□ Too busy/insufficient time								
□ Patient needs take priority								
Understaffing/overcrowding								
Sinks are inconveniently located or lack of sinks								
Lack of soap and paper towels								
Hand washing agents cause irritation and dryness								
Low risk of acquiring infection from patients								
Assignment:								
What are all the steps are involved in medical and surgical hand								
washing?								
Summary Conclusion:								
A serious disease burden and significant economic impact on patients								
and health-care systems								
Good hand hygiene – the simple task of cleaning hands at the right								
times and in the right way – saves lives								
There are 5 Moments for Hand Hygiene in Health Care								
Global compliance with the My 5 Moments for Hand Hygiene								



JOURNAL REFERENCE:

INTERVENTIONS TO IMPROVE PATIENT HAND HYGIENE: A SYSTEMATIC REVIEW.

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Abstract:

Nosocomial pathogens may be acquired by patients via their own unclean hands, but there has been relatively little emphasis on patient hand hygiene as a tool for preventing healthcare-associated infections (HCAIs). The aim of this systematic review was to determine the efficacy of patient hand hygiene interventions in reducing HCAIs and improving patient hand hygiene rates compared to usual care. Electronic databases and grey literature were searched to August 2014. Experimental and quasi-experimental studies were included if they evaluated a patient hand hygiene intervention conducted in an acute or chronic healthcare facility and included HCAI incidence and/or patient hand hygiene rates as an outcome. All steps were performed independently by two investigators. Ten studies were included, most of which were uncontrolled before–after studies (N = 8). The majority of interventions (N = 7) were multi-modal, with components similar to healthcare worker hand hygiene programmes, including education, reminders, audit and feedback, and provision of hand hygiene products. Six studies reported HCAI outcomes and four studies assessed patient hand hygiene rates; all demonstrated improvements but were at moderate to high risk of bias. In conclusion, interventions to improve patient hand hygiene may reduce the incidence of HCAIs and improve hand hygiene rates, but the quality of evidence is low. Future studies should use stronger designs and be more selective in their choice of outcomes.

