2011 Infection Control
Update for
Home Care Nurses,
Therapists, and Home
Health Social Workers

Satellite Conference and Live Webcast Wednesday, February 9, 2011 2:00 - 4:00 p.m. Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

Faculty

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Hand Washing

 Hand washing/hand hygiene is the first and last step in preventing infections

How to Wash

- Use warm (not hot, not cold) running water
- Lather soap in hand, then vigorously rub together
 - All surfaces (palms, backs of hands, between fingers, and wrist)
 - Around nail beds and under fingernails
 - -Around and under any rings

How to Wash

- Most sources recommend a minimum of 10 – 15 seconds of friction
- Rinse well under running water to remove all soap
- Turn off water with a paper towel, discard, then dry hands

Hand Hygiene Steps

- Apply 3-5 ml. (5 ml. is a teaspoon) of alcohol-based waterless agent into hand
- Vigorously rub hands (all surfaces) together until dry

Hand Washing: Soap

- · Liquid soap is best
- Bacteria can grow on bar soap, especially if resting in water
 - If stored in a drainable dish, may use, but rinse bar under running water before use
 - Do not carry bar soap from home to home

Hand Washing: Soap

- Liquid soap containers may also become contaminated
 - Carry as small a container as possible
 - If you refill a container, be sure that the container is clean and dry

Hand Hygiene

 Antimicrobial soap and alcohol hand hygiene agents are used to kill or retard resident microorganisms in the deep epithelial skin layers

When to Wash

- · Prior to any patient care activity
- · When handling food
- · Between tasks
- · After removal of gloves

When to Wash

- After any activity that could contaminate your hands:
 - -Emptying trash
 - -Sneezing
 - -Touching hair
 - -Changing diapers
 - -Using toilet
 - -Emptying vacuum

When to Wash

- At the end of the visit
 - -Before doing any paperwork
- · When in doubt, decontaminate
- Use friction when drying hands with a clean, unused paper towel
 - Also helps remove bacteria

Waterless Alcohol Hand Wash Products

- First used only when soap and water were not available
- Now know they are more effective than soap and water
- Cause less skin irritation and dryness

Waterless Alcohol Hand Wash Products

- Decreases the amount of time needed to decontaminate hands
- Increases hand hygiene compliance
- Alcohol is not a good cleaning agent and is not recommended in the presence of physical dirt or contamination with body fluids

Hand Washing and Hand Hygiene

- Frequent hand washing will strip the skin of natural oils and lead to dryness, cracking, and irritation
 - Increases the risk of colonization and infection

Hand Washing and Hand Hygiene

- Lotions and creams should be used with care
- Fingernails should be kept short
 - Any flaking or peeling polish should be removed

PPE - Gloves

- Use for any task involving a potential for contact with non-intact skin, mucous membranes and blood or body fluids
 - -Except sweat
- · If in doubt, use gloves

PPE - Gloves

- Change gloves:
 - -If cracked or torn
 - Between tasks and procedures on the same patient
 - Do not wear the same gloves to brush teeth that were used to bathe the patient

PPE - Gloves

- If a dirtier part of a task was completed before a cleaner part
- After any contact with any material containing a high concentration of bacteria
 - Changing a diaper or cleaning up feces

PPE - Gloves

- After any contact with patients that have MRSA or VRE
- Remove gloves as soon as possible after a task is completed to prevent cross contamination
- Do not wash or reuse disposable, single use gloves

PPE - Gloves

- Always wash hands after gloves are removed
- Do not touch your face or adjust PPE with contaminated gloves
- Do not touch environmental surfaces except as necessary during patient care

PPE - Gloves

- Latex gloves are made from natural rubber
- · Latex allergies:
 - -Skin rash
 - -Hives
 - -Flushing
 - -Nasal, eye and sinus symptoms

PPE - Gloves

 Not only your problem, but possibly your patient's problem, too

PPE - Aprons

- Aprons should be worn with every patient
 - The apron, worn over your uniform, provides a basic barrier to protect you and your patient

PPE - Gowns

 Gowns should be worn during patient care activities when you anticipate your uniform may have contact with blood or body fluids

PPE - Face

- Wear mask and/or eye protection when there is a possibility of splashes or sprays to the facial area
- Masks/facial shields should protect the nose and mouth and prevent fluid penetration

PPE - Face

- Goggles or safety glasses should fit snugly over and around eyes or eyeglasses
- Personal glasses are not a substitute for goggles

PPE - Procedures

Donning

Removing

-Gown

-Gloves

- Mask

-Goggles

-Goggles

-Gown

-Gloves

-Mask

PPE - Safe Work Practices

- · Always remember to:
 - Keep hands away from face
 - -Limit surfaces touched
 - -Change equipment when torn or heavily contaminated
 - Perform hand hygiene immediately after removing all PPEs

Isolation

- Standard precautions
 - All patients' blood, body fluids, secretions, excretions, non-intact skin, and mucous membranes
 - Except sweat

Isolation

- Contact precautions
 - -Patients who are infected with MDRO's
 - Use when having direct contact

Viral Hepatitis

- · Signs and symptoms
 - -Jaundice
 - -Dark urine
 - -Pale colored stools (clay colored)
 - Flu-like symptoms
 - -Pruritus (generalized itching)
 - Anorexia (loss of appetite)

Hepatitis A

- Transmission
 - Close personal contact fecal/oral route
 - · Household, sexual, daycare
 - -Contaminated food or water
 - Infected food handler, raw seafood
 - -Blood exposure
 - Very rare

Hepatitis A

- Present vaccine is 99% effective
- Two dose schedule
 - -Given 6 months apart
- Recommended for:
 - -Children 2 years or older
 - -Homosexual and bisexual men
 - -IV drug users
 - -Travelers to endemic countries

Hepatitis B

- Transmission
 - -Sexual
 - -Parenteral
 - -Perinatal
 - -Other

Hepatitis B

- Approximately 30-60% of young children and 2-10% of adults who are infected will develop chronic disease
- Persons with chronic HBV infection are often asymptomatic
- Approximately 15-25% of these may die prematurely from either cirrhosis or liver cancer

Hepatitis B Vaccine

- Vaccine is a yeast product
 - -Not blood
- 96% effective
- 3 dose series, given IM in the deltoid (arm)
 - -0, 3, and 6 month interval

Hepatitis C "The Silent Epidemic"

- A major healthcare problem worldwide
- Many people who are infected do not have symptoms for many years
 - -Their blood and body fluids could be infectious to others

Hepatitis C

- 50 million people worldwide
 - -4 million in the United States
- 70-90% of those infected will develop chronic infection
- Contributes to over 12,000 deaths annually

Hepatitis C

- Transmission
 - -Injecting drugs
 - -Sexually
 - -Blood transfusions
 - Prior to blood donation screening

Hepatitis C

- -Perinatally (rare)
- -Household
 - Sharing toothbrushes, razors, etc.
- -Other

Hepatitis C

- Treatment
 - -There is no vaccine at present for Hepatitis C
 - There are some anti-viral medications available for treatment of some Hepatitis C patients
 - Treatment is usually only effective in 10-40% of treated

2011 Respiratory Illnesses of Concern

- Seasonal Flu
- Avian Flu
- Pandemic Flu
 - -H1N1

Seasonal Flu

- A respiratory illness that can be transmitted, easily, from person to person
- Most people have some immunity and a very effective and safe vaccine is available
- Everyone is strongly encouraged to get a yearly flu shot

Pandemic Flu

- A virulent (strong) human flu that can cause a global outbreak or pandemic of serious illness
- Because there is little natural immunity, the disease can spread easily from person to person

Respiratory Etiquette

- When you cough or sneeze, cover nose and mouth with a tissue
 - -Dispose in a waste basket
- If you do not have a tissue, sneeze or cough into your sleeve
- Avoid touching eyes, nose, or mouth

Prevention

- After coughing or sneezing, always clean your hands with soap and water or an alcohol based hand cleaner
- Stay home when you are sick
- Do not share eating utensils, drinking glasses, towels, or other personal items

Transmission Pathogen Burge Entry Host

Infection Prevention



Lend Healthcare A Hand By Washing YoursTM