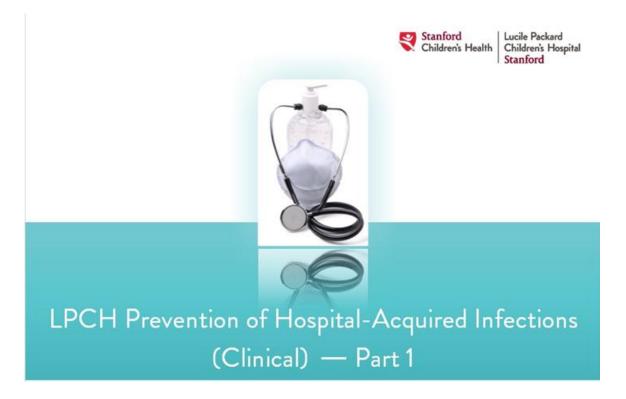
LPCH Prevention of Hospital-Acquired Infection part 1 (Clinical)





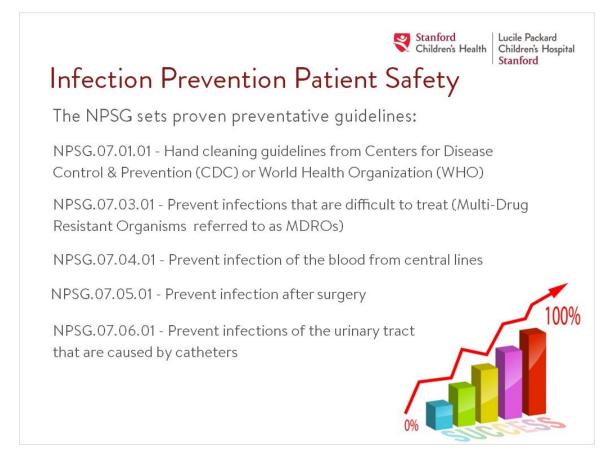
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OBJECTI

When you complete this course, you will be able to:

- Recognize the basic principles of infection prevention and control
- Incorporate bloodborne pathogen and aerosol transmissible diseases exposure prevention strategies to your workflow
- Define Multi-Drug Resistant Organism (MDRO)
- · Identify two MDROs in hospital settin
- Identify the elements of Central Line Associated Bloodstream Infection (CLABSI) Prevention Bundle







Next (Slide Layer)

- HAIs are not reimbursed to the reporting facility by the Centers for Medicare and Medicaid (CMS)
- According to the CDC, there were an estimated 687,000 HAIs in U.S. acute care hospitals in 2015. About 72,000 hospital patients with HAIs died during their hospitalizations
- Hospital Acquired Infections or HAIs are serious infections that patients get while receiving medical or surgical treatment in a healthcare facility like Lucile Packard Children's Health Stanford (LPCH)
- California Department of Public Health mandates acute care facilities to report HAIs to CDC via National Healthcare Safety Network (NHSN)
- Quality outcome measures are publicly posted for consumers to see and used as a guide to make informed decisions when choosing a healthcare plan
- LPCH is focused on prevention and elimination of Healthcare Acquired Conditions (HACs) which includes HAIs like CLABSI, SSI, CAUTI, and VAP

- The Mission Zero initiative was established in 2011, in support of HAC and HAI reduction and elimination within LPCH
- LPCH has adopted the Solutions for Patient Safety (SPS) infection prevention bundles to support our Patient Care Services in eliminating HAIs
- A healthcare bundle is a set of evidence based practices that when consistently followed has been shown to lead to better outcomes





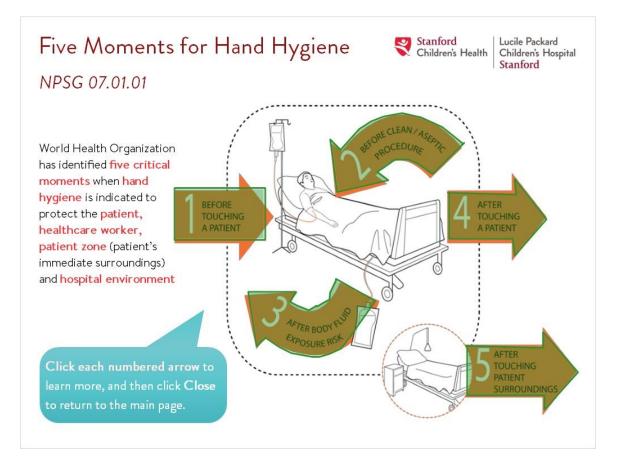
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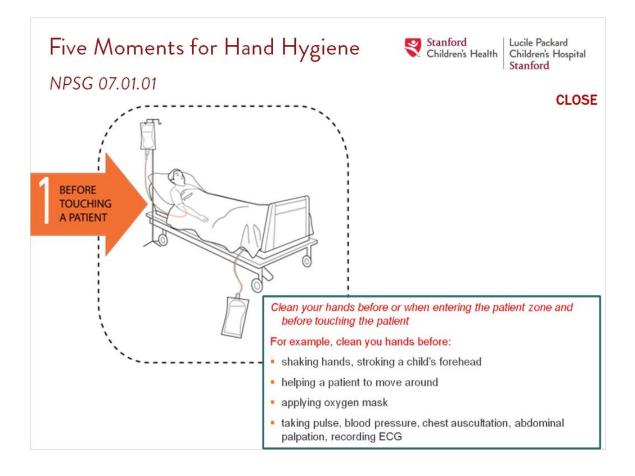
Importance of Hand Hygiene

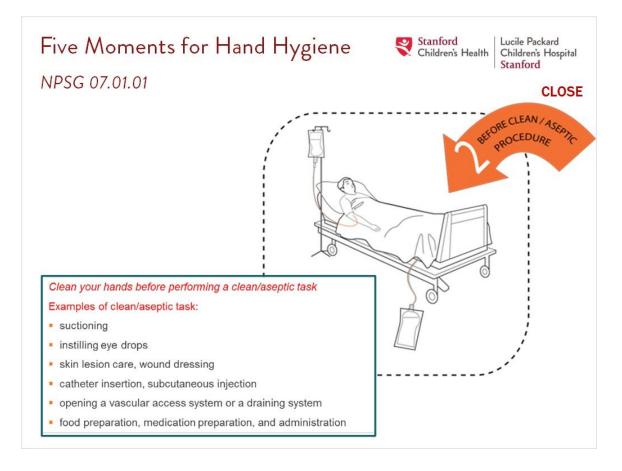
Hand hygiene is the single most important strategy to prevent the spread of germs and fight healthcare acquired infections

Hand hygiene must be performed where you are delivering care (at the point of care)



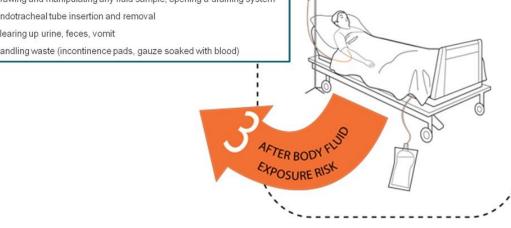


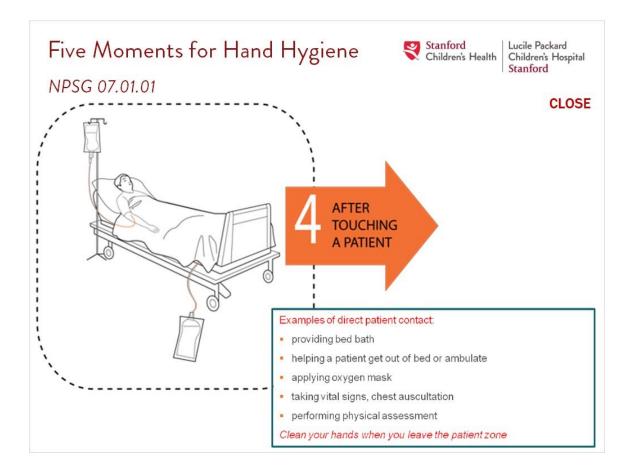




Five Moments for Hand Hygiene Stanford Children's Health Lucile Packard Children's Hospital Stanford NPSG 07.01.01 Clean your hands after performing your task and after glove removal Examples of body fluid exposure risk: subcutaneous injection, IV insertion skin lesion care, wound dressing drawing and manipulating any fluid sample, opening a draining system endotracheal tube insertion and removal clearing up urine, feces, vomit handling waste (incontinence pads, gauze soaked with blood)

CLOSE





Five Moments for Hand Hygiene

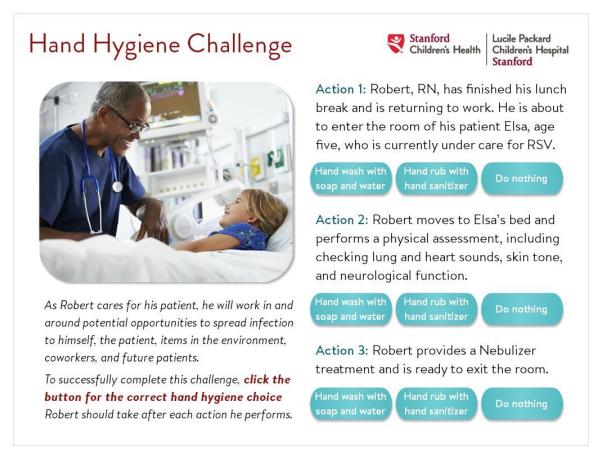


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NPSG 07.01.01

CLOSE







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Preventing HAIs: Hand Hygiene

- Use hospital approved alcohol-based hand sanitizer
- Apply friction when rubbing your hands for at least 15 seconds
- Alcohol-based hand rubs are more effective and accessible than soap and water

Key things to remember when performing hand hygiene:

- Appropriate technique
- Time duration

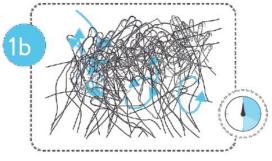


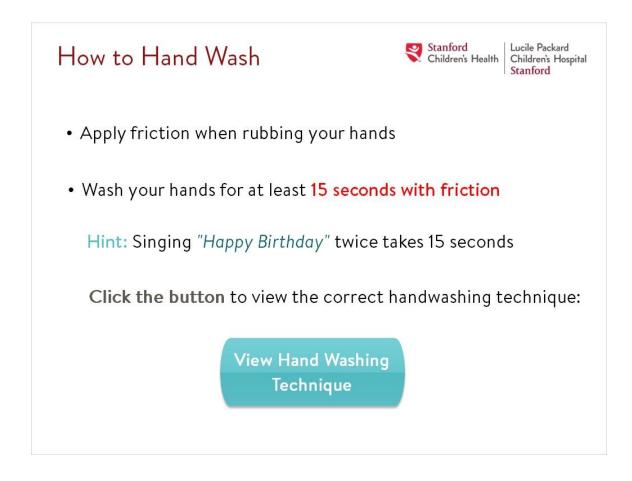
How to Hand Rub



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- 1. Apply a palmful of the product in a cupped hand, covering all surfaces.
- 2. Rub hands, palm to palm.
- 3. Right palm over left dorsum with interlaced fingers and vice versa.
- 4. Palm to palm with fingers interlaced.
- 5. Backs of fingers to opposing palms with fingers interlocked.
- 6. Rotational rubbing of left thumb clasped in right palm and vice versa.
- 7. Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa.
- 8. Once dry, your hands are safe.







When to Use Soap and Water



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Wash your hands with soap and water when visibly soiled

Wash also at these times:

- Before and after your shift .
- Before and after eating and drinking •
- Before and after using the bathroom •
- When your hands feel sticky after several uses of hand sanitizer
- After taking care of a patient with suspected or confirmed C. difficile, • Norovirus, or infectious diarrhea

Do not forget to use a paper towel when turning off the faucet

LPCH Hand Hygiene Policy



Lucile Packard Children's Hospital Stanford

Select each image







Jewelry

 The wearing of rings, bracelets, and watches should be kept to a minimum and will not interfere with hand hygiene or glove wearing. Refer to the neonatal standards of care policy for guidelines regarding neonatal units

LPCH Hand Hygiene Policy



Lucile Packard Children's Hospital Stanford

Select each image





Hygienic Liquids

- Use hospital approved hand hygiene products (i.e. hand sanitizer, soap, lotion)
- If you develop sensitivity to LPCH hand hygiene products:

Report to your manager/supervisor as soon as possible

You may be directed to go to Occupational Health Services for evaluation

LPCH Hand Hygiene Policy

Select each image







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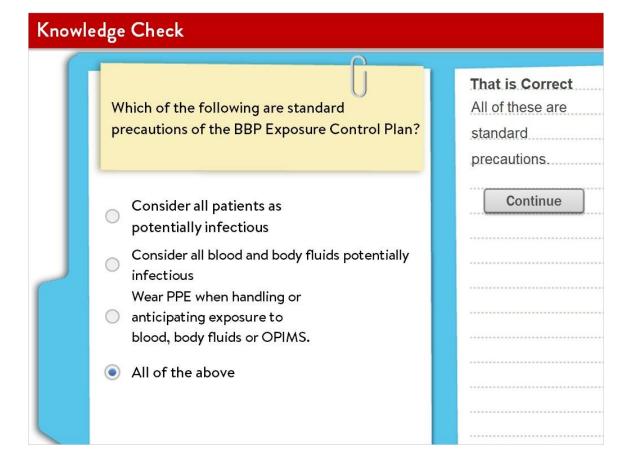
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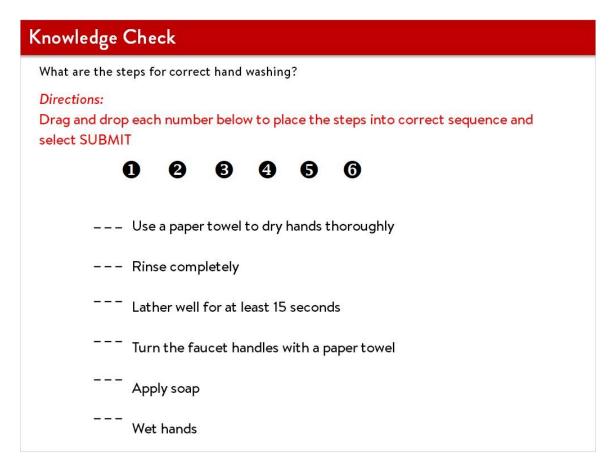
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Fingernails

- Keep natural nails clean and neatly trimmed. Nail polish or shellac shouldn't be chipped. Gel or shellac are not permitted in the perioperative setting
- Artificial fingernails or nail enhancements, including but not limited to overlays, wraps, tips, or attached decorations are not permitted in any patient care area

Knowle	dge Check	
	True or False? Hand hygiene is the #1 way to prevent the spread of infection.	That is Correct Hand hygiene is the best way to prevent the spread
	True	of infection.
	False	



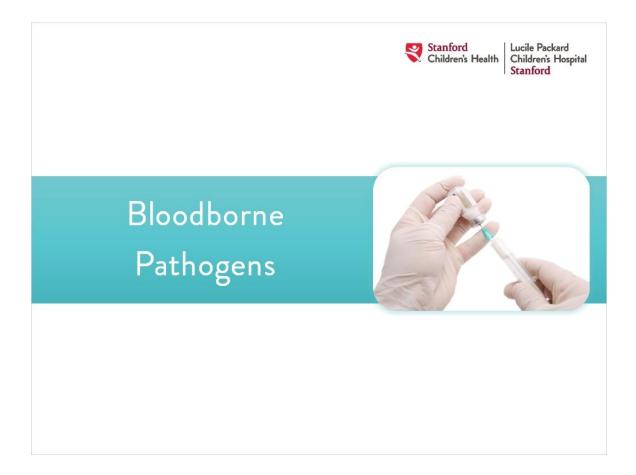


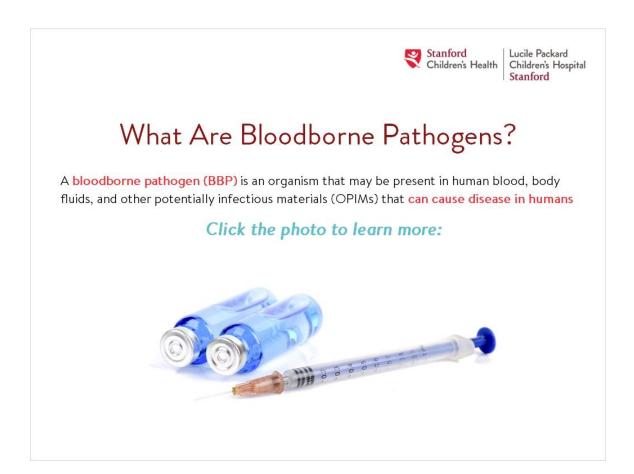
Feedback

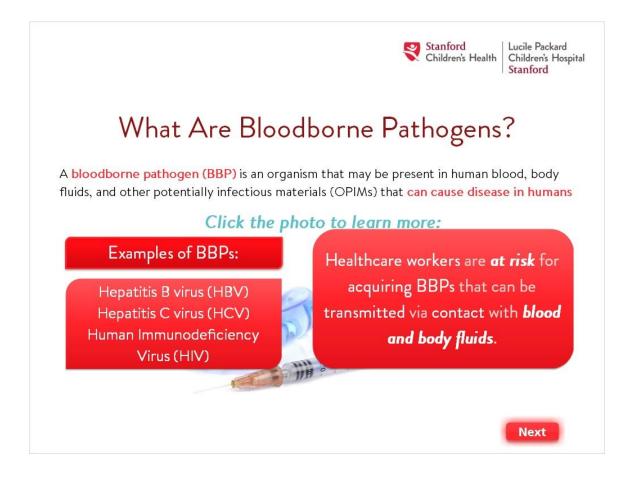
Here is the correct sequence for hand washing:

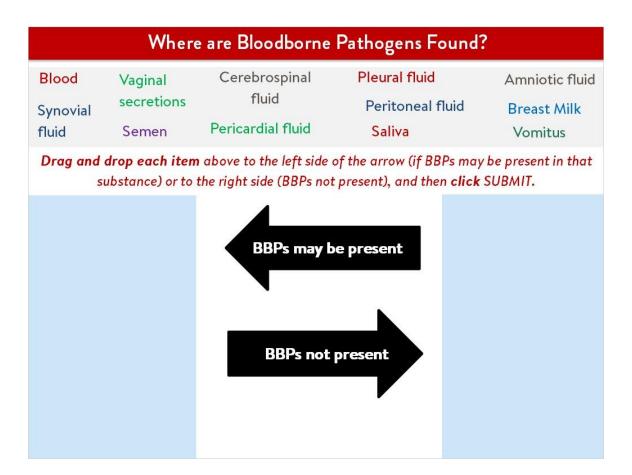
1. Wet hands

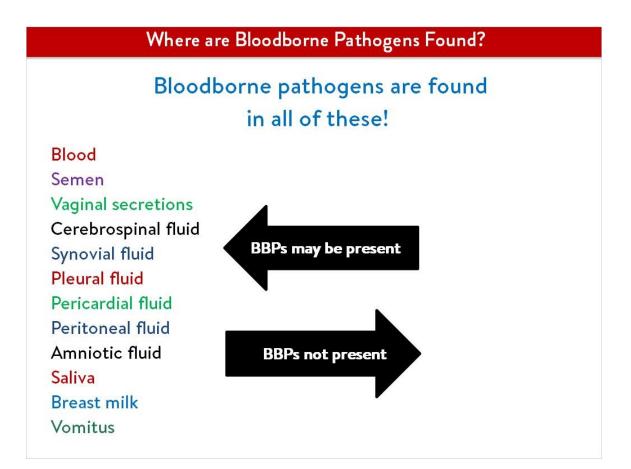
- 2. Apply soap
- 3. Lather well for at least 15 seconds
- 4. Rinse completely
- 5. Use a paper towel to dry hands thoroughly
- 6. Turn the faucet handles with a paper towel















2

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Standard Precautions

- Consider all patients as potentially infectious
- · Consider all blood, body fluids potentially infectious
- Wear appropriate Personal Protective Equipment (PPE) when handling or anticipating exposure to blood, body fluids or OPIMs (Other potential infectious materials)

Engineering Controls

- Sharps Safety
 - Sharps containers and waste receptacles are appropriately labeled with a **biohazard** sign
 - Sharps containers are changed out when ¾ full
 - Proper handling of sharps—no needle recapping unless absolutely necessary for the procedure, and then only using the scoop method
 - · Activate sharps safety device prior to disposal
 - Immediately dispose of sharps after use

Use of Needleless System and Needleless Devices

• Use of needleless IV tubing connectors and luer lock syringes and connectors





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Employee Hepatitis B Vaccination

Hepatitis B vaccine is offered to all employees free of charge upon hire and anytime you decide to get vaccinated

Work Practice Controls

- Perform excellent hand hygiene to protect yourself, your patient and the hospital environment
- Do not eat or drink in areas where patient care supplies are stored
 - Covered drinks are only allowed in designated patient care unit Hydration Stations
- Do not handle contact lenses, or apply cosmetics in patient care areas or areas where patient care supplies are stored
- Store and dispose of infectious waste appropriately



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Use of Personal Protective Equipment (PPE)

- Wear PPE whenever there is a potential or anticipated exposure to blood or body fluids
- PPE includes but are not limited to gown, gloves, mask, face shield, goggles, shoe covers, CAPR

Key Things to Remember when Wearing PPE to Protect Yourself

- Wear PPE appropriately and follow manufacturer's instructions for use
- Remove and dispose of PPE before leaving your work area or patient zone
- Remove and change PPE when they are *soiled*, *torn*, *damaged*, or *contaminated*







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Next

Post Exposure Medical Evaluation and Treatment

- Splashing/spraying and needle stick injuries are the most common ways of healthcare worker exposure to BBPs
- If you ever get exposed to BBPs or sustain a needle stick injury you must report the exposure incident to your manager/supervisor immediately
- You may be directed to go to Occupational Health Services (OHS) or Emergency Department for prompt medical evaluation, treatment, and follow-up
- Treatment, Post-Exposure Prophylaxis (PEP) and follow-up may vary and will depend on the severity of healthcare worker exposure and health status of source patient

Environmental and Equipment Cleaning and Disinfection

- It is crucial to clean and disinfect patient care equipment in between patients to prevent cross contamination
- Examples of patient care equipment: BP machine, glucometer, iStat, stethoscope, thermometer, toys
- · Routine cleaning and disinfection of patient care areas and hospital environment is also important to prevent the spread of microorganisms
- Clean and dirty items should be separated in designated clean or dirty areas

Part 4 - Cleaning and Disinfecting



For **both** clinical and non-clinical settings, anything involved in patient care that is not disposable MUST be disinfected. Everyone is responsible for cleaning.

Remember the "back to basics" approach...

if you TOUCH IT or MOVE IT, you CLEAN IT !!!





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Part 4 - Cleaning and Disinfecting



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How to disinfect:

- Wipe the surface and keep it wet to properly disinfect.
- Use several wipes as needed to assure that the surface stays wet for the 'contact time' necessary to kill germs and bacteria.





How long should the contact surface stay wet to sufficiently disinfect? Drag a timer under each brand of wipes then click submit.

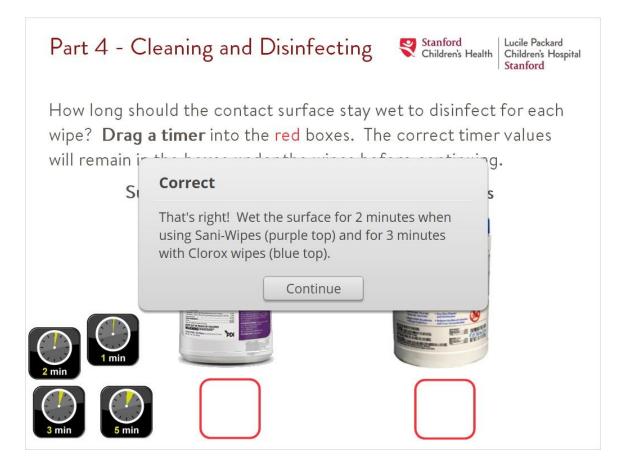


Super Sani-Cloth Wipes

Bleach Wipes

4.7 Drag and Drop

(Drag and Drop, 10 points, 1 attempt permitted)



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Access Bloodborne Pathogen and Exposure Control Plan
OSHA Bloodborne Pathogen Standard is accessible <u>here</u> in full, or as a <u>fact sheet</u> . <u>https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=10051&p_table=STANE</u>
The LPCH Bloodborne Pathogen Exposure Control Plan is available on the intranet and under the Resources tab on the right top corner.
bloodborne pathogen exposure Results found in Policies & Procedures Preference for results in English
Safety Manual: Bloodborne Pathogen Exposure Control Plan The purpose of the Bloodborne Pathogen Exposure Control Plan is to define processes at and means to remove, inactivate or destroy bloodborne pathogens on a surface or item to the stanfordchildrens.sharepoint.com//Bloodborne Pathogen Exposure C