



City and County of San Francisco
 London N. Breed
 Mayor

San Francisco Department of Public Health

Greg Wagner, acting Director of Health
 25 Van Ness Avenue, Suite 550
 San Francisco, CA 94102

Viral Gastroenteritis/Norovirus Outbreak Management Recommendations for School Settings

Date implemented	Recommendation
Limit transmission when initial cases of viral gastroenteritis are identified.	
	Instruct ill students or staff with symptoms of vomiting or diarrhea to <u>immediately tell their teacher/principal/school nurse</u> . Keep ill students and staff away from other well students/staff until they can be safely sent home.
	The principal or designee should record <u>names and contact information</u> of possible new cases.
	Instruct ill staff, students, visitors, or volunteers to <u>stay home from school for 48 hours</u> after they no longer have vomiting or diarrhea.
	Begin control measures when an increase in viral gastroenteritis cases is occurring without waiting for diagnostic confirmation.
General Cleaning	
	Proper hand washing with soap and running water for at least 20 seconds is the most effective way to reduce contamination on the hands. Hand sanitizers may be used in between proper hand washings but should not be considered a substitute for soap and water.
	Hand washing should be encouraged before and after eating, and after using the bathroom.
	Clean and disinfect <u>vomit and fecal spillages</u> using a fresh bleach solution as soon as possible. Use disposable materials if possible. If not, change water and launder mop head or cloth after each clean up. Use a freshly prepared sodium hypochlorite solution (<u>1/2 cup household chlorine bleach per gallon of water, OR 2 TBSP bleach per quart of water</u>) to disinfect surfaces freshly contaminated with feces or vomit. Allow surfaces to remain wet with bleach solution for 10 minutes, if possible. If unable to use bleach, contact the Communicable Disease Control Unit at (415) 554-2830.
	Cleaning staff should wear surgical masks, gloves and gowns when cleaning up vomit or fecal material. Remove gloves before leaving area and wash hands immediately with soap and water.
	Increase frequency of cleaning <u>classrooms, meeting rooms, gymnasiums, cafeteria, stairways and hallways</u> with freshly made bleach solution (<u>1/4 cup household chlorine bleach per gallon of water, OR 1 TBSP bleach per quart of water</u>) to at least twice daily while cases are occurring. Particular attention should be given to objects that are frequently touched or shared such as door handles, banisters, elevator buttons, lockers, desks, chairs, computer keyboards and computer mice, etc.
	Provide <u>soap, paper towels and covered trash cans</u> .
	Clean and then disinfect using bleach solution (see above) all sports equipment, including storage carts with wheels, and musical instruments and other shared items <u>immediately when soiled</u> and at least weekly if not contaminated with body fluids.

Food Areas	
	Using a bleach solution (1 TBSP bleach per gallon of water, OR 1 tsp bleach per quart of water), wipe down <u>countertops/tabletops, door and cabinet handles</u> and all surfaces in the kitchen and cafeteria areas twice daily and when soiled.
	Using a bleach solution (see above), wipe down all <u>food service areas including lunch room tables, chairs, self-serve food areas, drink and ice dispensers and vending machines</u>
	Mop <u>uncarpeted floors</u> with disinfectant at least twice daily, more often if soiled.
	Clean <u>carpets and soft furnishings</u> with hot water and detergent, or steam-clean per usual routine and when soiled with body fluids. Heat disinfection with temperature equal to or greater than 60° C (140° F) can be used on items that cannot be subjected to chemical disinfectants. Dry vacuuming is not recommended.
	Wash and sanitize all eating and serving <u>utensils</u> after each use.
Toilet areas	
	Wash and sanitize <u>handwashing sinks, faucets, surrounding counters, soap dispensers, toilet seats and handles, and bathroom door knobs</u> at least twice a day or when soiled.
	Wash and sanitize <u>toilet bowls</u> daily.
Other recommendations	
	Wash and sanitize <u>mops and cleaning rags</u> after each use. At end of day, launder mops and rags and hang to dry.
	Dispose of <u>potentially infectious waste</u> in closed containers. Empty daily or when full.
	Wash walls and portable partitions weekly and when visibly soiled.
	Vans/Buses: Clean and disinfect using bleach solution (see above) inside of all transport vans or buses on a daily basis and after any vomiting incident.
	Do NOT COMPOST discarded vomit, fecal material, paper towels etc. Soiled materials should be discarded in closed containers or sealed plastic bags.

Other Follow Up Needed:

- Parent letter sent: School or CDCU (circle)? Yes No Date: _____ English Spanish Chinese Other
- Census information: Students: _____ Staff: _____
- # of staff & students and affected grades/classes and overall: _____
- Baseline # of students out/day or week (if known): _____
- Describe type of food preparation & provision: _____
- Outbreak or cluster description including: Signs & Symptoms: _____ 1st onset date _____
Most recent onset date: _____ Duration & severity of illness: _____ # of hospitalizations, if any: _____
of deaths, if any: _____
- Provide updates _____ to the line list provided by Disease Control Team staff regarding newly occurring cases until at least _____ days (2 incubation periods) after last person is no longer infectious.

EXCEPTIONS to routine notification if any of the following situations occur, the school should notify Disease Control Team at (415) 554-2830 immediately:

- A large # of newly occurring cases with onsets on the same day. Large number is defined as more than 10% of the classroom or grade where the cases have been occurring
- More than 2 hospitalizations related to outbreak
- Any deaths related to illnesses

Approved Disinfectants Effective Against Norovirus

Environmental Disinfection:

**All areas must be cleaned/removed of visible soil and debris prior to disinfection to ensure maximum effectiveness. Wear disposable gloves, surgical masks and gowns or coveralls when cleaning, and discard gloves etc. in a plastic bag after removal. Hands must be thoroughly washed with soap and water.

- 1) Chlorine bleach solution is the disinfectant of choice. A minimum of 1000 ppm for fresh spills/accidents of vomit or feces (1/2 cup bleach per gallon of water, OR 2 TBSP bleach per quart of water) is effective. Allow surfaces to remain wet for 10 minutes, if possible. Allow to air dry.
- 2) Heat disinfection with temperature equal to or greater than 60°C (140°F) can be used on items that cannot be subjected to chemical disinfectants.
- 3) NOTE: CLOROX Disinfecting wipes do NOT contain Chlorine bleach and should not be used for disinfection.

Handwashing:

Proper hand washing with soap and running water for at least 20 seconds is the most effective way to reduce contamination on the hands. Hand sanitizers may be used in between proper hand washing, but should not be considered a substitute for soap and water handwashing. Alcohol based hand sanitizers if used should have concentration of 60-95% alcohol.

FOR CDCU Use:

- FAQ's about norovirus provided English Spanish Chinese Other
- General Cleaning and Prevention for Households English
- Housekeeping Instructions about norovirus provided English Spanish Chinese
- Linelist template provided? Yes No

Notifications to:

- SFUSD, Nursing office (if applicable) Yes No If Yes, Date notified: _____
- SFUSD Only: School to notify Custodial Services (415) 695-5535, if applicable
- CDPH Yes No If Yes, Date notified: _____
- Environmental Health Yes No If Yes, Date notified: _____
- Health Officer Yes No If Yes, Date notified: _____
- Director of Health Yes No If Yes, Date notified: _____