



DISINFECTION AND STERILIZATION FOR COVID-19

NEED FOR DISINFECTION OR STERILIZATION

- As per WHO, virus can remain viable for
 - up to 72 hours on plastic and stainless steel,
 - up to four hours on copper,
 - and up to 24 hours on cardboard.
- Masks, gloves, other medical wastes – patients/ care takers
- Potential source of Covid-19 infection
- Children are at risk
- Risk of reuse of PPE



BY DEFINITION

- **STERILIZATION** - Process that destroys or **eliminates** all forms of microbial life and is carried out in health-care facilities by physical or chemical methods.
- Steam under pressure, dry heat, ETO gas, hydrogen peroxide gas, and liquid chemicals are the principal sterilizing agents used in health-care facilities.



- **DISINFECTION** - Process that eliminates or **reduces** pathogenic microorganisms, except bacterial spores.
- In health-care settings/ non-health care settings, objects usually are disinfected by liquid chemicals (chlorine, iodine, alcohol).

PRIORITY AREAS FOR DISINFECTION IN NON-HEALTH CARE SETTINGS

- **DISINFECTION PRACTICES** - Important to reduce the potential for COVID-19 virus contamination in non-healthcare settings.
- home, office, schools, gyms, publicly accessible buildings, faith-based community centers, markets, transportation and business settings or restaurants.
- **HIGH-TOUCH SURFACES**
 - door and window handles,
 - kitchen and food preparation areas,
 - counter tops,
 - bathroom surfaces, toilets and taps,
 - touchscreen personal devices,
 - personal computer keyboards,
 - work surfaces.



GUIDELINES

- Revised guidelines for home isolation of mild /asymptomatic COVID-19 cases (28.04.2021)
- Effective waste disposal shall be ensured so as to prevent further spread of infection within household
- Waste such as masks, disposable items, food packets etc as per CPCB guidelines (http://cpcbenvvis.nic.in/pdf/1595918059_mediaphoto2009.pdf)
- Ensure cleaning of surfaces in the room that are touched often (tabletops, doorknobs, handles, etc.) with 1% sodium hypochlorite solution.
- Mask should be discarded only after disinfecting it with 1% sodium hypochlorite.

IF YOU ARE COVID POSITIVE

• IF YOU ARE IN HOME ISOLATION:

- Stay in a well-ventilated room with an attached toilet
- Prefer to stay away from the rest of the family members
- Clean high-touch surfaces regularly with disinfectant
- Reduce contamination of surfaces
- **Patient should at all times use triple layer medical mask.**
- Discard mask after 8 hours of use or earlier if they become wet or visibly soiled.
- Mask should be discarded only after disinfecting it with 1% Sodium Hypochlorite.
- Hands must be washed often with soap and water for **at least 40 seconds** **or clean with alcohol based sanitizer.**
- Don't share personal items with other people.



PATIENT CARE TAKER:

- The caregiver should wear a triple layer mask appropriately when in the same room with the ill person.
- If the mask gets wet or dirty with secretions, it must be changed immediately.
- Discard the mask after use and perform hand hygiene after disposal of the mask.
- He/she should avoid touching own face, nose or mouth.
- Utensils and dishes be cleaned with soap/detergent.
- Be familiar with hand hygiene steps.



WORK AREA DISINFECTION

- <https://www.mohfw.gov.in/pdf/guidelinesondisinfectionofcommonpublicplacesincludingoffices.pdf>
- Immediate disinfection of premises visited by confirmed case
- List of places/premises visited 3 days before test results till isolation: Complete disinfection, wearing PPE.
- 3 bucket system for floors:
 - Scrubbed with hot water and detergent
 - Clean with plain water. Allow to dry.
 - Floor mopping using 1% sodium hypochlorite solution.

- **All indoor areas** - entrance lobbies, corridors and staircases, escalators, elevators, security guard booths, office rooms, meeting rooms, cafeteria - **1% sodium hypochlorite or phenolic disinfectants.**
- **High contact surfaces** - elevator buttons, handrails / handles and call buttons, escalator handrails, public counters, intercom systems, equipment like telephone, printers/scanners, and other office machines should be cleaned twice daily by mopping with a linen/absorbable cloth soaked in 1% sodium hypochlorite. Frequently touched areas like table tops, chair handles, pens, diary files, keyboards, mouse, mouse pad, tea/coffee dispensing machines etc.
- For **metallic surfaces** like door handles, security locks, keys etc. **70% alcohol** can be used to wipe down surfaces where the use of bleach is not suitable.

DISINFECTANTS



- Always use freshly prepared 1% sodium hypochlorite.
- 70% alcohol can be used to wipe down surfaces where the use of bleach is not suitable, e.g. Metal.
- Chloroxylenol (4.5-5.5%)/ benzalkonium chloride/phenolic compounds or any other disinfectants found to be effective against coronavirus may be used as per manufacturer's instructions

Make
SMS
Your Habit



S

Sanitizer

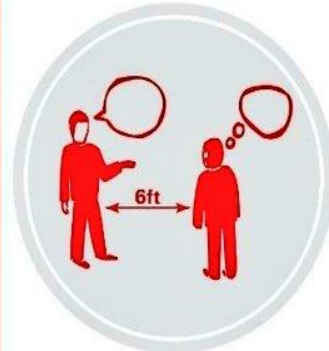
Sanitize your
hands frequently



M

Mask

Wear a mask
when outside



S

**Social
Distancing**

Maintain
Social Distancing

THANK YOU