## Care, cleaning and disinfection of **respiratory equipment**

## in sterile services department<sup>1</sup>

Equipment used for respiratory therapy (e.g. items that come into contact with mucous membranes of the patient) is considered semi critical; such items should be cleaned and then be disinfected before connecting to other patient.<sup>2</sup> High-level disinfection of respiratory equipment takes place after cleaning and is typically accomplished by physical methods or chemical germicides.<sup>3</sup>



Disinfectant solutions require preparation and should be used in well-ventilated areas away from patients.

- Prepare a fresh cloth or disposable wipe soaked in a compatible disinfectant and wipe the device from top to bottom, avoiding contact with electrical connectors.
- 0.1% sodium hypochlorite (1000 ppm) should only be used if device is known to withstand use of chlorine-based agents and no ammonia cleaning agents or acidic body fluids (e.g. urine) are present on the device.
- Do not use different disinfectant formulations during the same disinfection step, this may produce toxic fumes.
- If chemical disinfection is used, rinse with sterile or clean water (i.e. water boiled for 5 minutes and cooled), or filtered water (i.e. water passed through a 0.2 µ filter), followed by an alcohol rinse and forced-air drying.

1 N.B. It is recommended for all involved in sterile services to review OpenWHO course on Decontamination and sterilization of medical devices: https://openwho.org/courses/IPC-DECON-EN As well as refer to WHO's Decontamination and reprocessing of medical devices for health-care facilities: https://apps.who.int/iris/handle/10665/250232 )

2 Reference: https://www.who.int/publications/i/item/infection-prevention-and-control-of-epidemic-and-pandemic-prone-acute-respiratory-infections-in-health-care

3 Please refer to quality assurance and monitoring sections in WHO Guideline for Decontamination and reprocessing of medical devices for healthcare facilities: https://apps.who.int/iris/handle/10665/250232



