

Care, cleaning and disinfection of pulse oximeters and patient monitors devices



During monitoring and between patients

Always read and follow the instructions and recommendations of the manufacturer's manual

The device must be cleaned and disinfected after each individual use and, at minimum weekly, prior to use on another patient.

Task	Description
1. Perform risk assessment prior to entry of room	Consider the patient care tasks that will need to be performed or additional risks that may be encountered during disconnection of the device.
2. Perform hand hygiene	
3. Don appropriate personal protective equipment (PPE)	PPE worn during disinfectant preparation should include surgical mask/respirator, goggles or face shield, long-sleeved fluid resistant gown or gown + apron, rubber gloves, and boots or closed work shoes.
4. Turn-off and disconnect the device from the patient and power	Turn off the device and disconnect from the patient and the power and/or make sure the batteries are taken out and all patient connections are removed when clinically safe to do so before cleaning.
5. Move device to a well-ventilated area for cleaning	If monitoring device is not fixed to patient room/environment, move device away from patients and other equipment to a designated well-ventilated space where cleaning and disinfection of the device can be performed.
6. Wipe and clean with detergent (Cleaning)	Wipe the outer surfaces, sensors, and cables of the device from top to bottom with cloth or disposable wipe soaked in detergent and clean water and then wipe off any remaining detergent residue with a dry lint-free cloth. To avoid permanent damage, do not use excessive amounts of liquids to clean the device. Use mechanical action (scrubbing) and brushing, if necessary, along the edges and joints to remove visible dirt deposits and calcifications.
7. Prepare disinfectant solutions	Should always be performed before use, in well-ventilated areas away from patients.
8. Wipe with disinfectant	Prepare a fresh cloth or disposable wipe soaked in a compatible disinfectant, (e.g. hydrogen peroxide $\geq 0.5\%$, OR ethanol 70-90%; or as specified by the monitor manufacturer). Wipe the device from top to bottom, ensuring surfaces of sensors/cables are wiped while avoiding contact with electrical connectors. 0.1% sodium hypochlorite (1000 ppm) should only be used according to the manufacturer's instructions if device is known to withstand use of chlorine-based agents and no ammonia-based 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.
9. Remove PPE - wash hands	Doff, discard PPE and perform hand hygiene.

Task	Description
10. Store clean device and disinfect before new use	If device is not fixed to patient room/environment, ensure it is stored in an area where there is low risk of contamination between uses, and that at least 1 minute of contact time has elapsed after the application of the chosen disinfectant (or as specified by the manufacturer) before it is used on a new patient.

