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This protocol is a guideline only. It should be modified as needed based on available resources and local infection control policies

### outside patient room



Put gloves on



Clean device with wipes



Apply gel to probe face



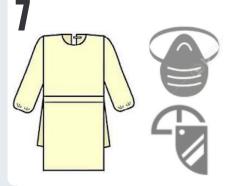
Apply protective cover to entire device. Secure with elastic bands



Place covered device in clean basin



Place tissues (4), wipes (3), and gel packs (2) in basin



Don PPE with TWO pairs of gloves



Bring basin with device, tissues, wipes, and gel into patient room

# inside patient room



Leave basin close to door, either on table, cart, or floor. Leave tissues and wipes in basin



Scan patient



When finished scanning, discard gel packs



Sanitize gloved hands with alcohol



2m (6ft) away from patient, remove device cover and allow device to slide gently into basin

DO NOT allow device cover to touch basin. Discard device cover

DO NOT touch uncovered device or basin with gloved hands



Remove outer pair of gloves (if one pair of gloves, sanitize with alcohol)



Remove gel with tissues.
Clean device with wipes.
Place device in basin.
Discard tissues and wipes



Open door and place basin on another table outside door or slide basin outside with foot

## outside patient room



Discard gloves



Perform hand hygiene



Discard gown, keep mask and eye protection on



Perform hand hygiene



Put new gloves on



Remove device from basin and disinfect device with wipes



Place device on a clean surface OR in a second clean basin. Air dry



Discard basin(s) if disposable, or disinfect with wipes if reusable



Discard gloves



Perform hand hygiene



Doff remaining PPE



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# Protection and disinfection of a hand-held ultrasound device during COVID-19 pandemic

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This protocol is a guideline only. It should be modified as needed based on available resources and local infection control policies

#### notes

- The protocol should be used in ALL patients who are suspected or confirmed to be infected with COVID-19. The protocol can also be used in any situation where a patient is isolated for infectious disease.
- For patients who are low risk for COVID-19 infection AND local infection control guidelines dictate that gown, gloves, mask, and eye protection are not required for close patient encounters (i.e. examinations), please defer to local infection control and manufacturer policies for cleaning the device.
- PoCUS can benefit patients who have actual or potential COVID-19 infection. This includes assessment of lung
  pathology, cardiac function, fluid tolerance, vascular access/procedural guidance, and confirmation of endotracheal
  intubation.
- PoCUS can also benefit patients who have non-COVID-19 related complaints and concomitant COVID-19 infection.
- The utility of PoCUS may increase during a pandemic, as access to plain films, CT, radiology performed ultrasound and echocardiography become limited.
- As community transmission of COVID-19 increases, patients infected with COVID-19 may present without respiratory symptoms or fever. Once local infection control guidelines advise gown, gloves, mask, and eye protection for ALL close patient encounters, regardless of symptoms, then this protocol should be used for ALL patients when performing PoCUS.
- PoCUS may also cause harm if strict infection control protocols are not followed. The ultrasound machine, the user, and the ultrasound gel can act as infectious fomites, putting patient and clinicians at risk.
- Hand-held devices are easier to protect from contamination and easier to disinfect after use than cart-based systems.
   Note that devices may have decreased image generation capabilities when compared to cart-based systems.
- Consider acquiring a dedicated display for use with the hand-held probe to avoid using personal phone/tablet

### definitions

- **Device:** Any hand-held ultrasound device that may consist of wireless or wired probes used with tablets, phones, or integrated screens.
- **Wipes:** Cleaning supplies that include both solutions and wipes. The chemical composition of wipes should be compatible with manufacturer recommendations for each device AND should be effective at eliminating the COVID-19 virus. Cleaning the device should always include cord if present.
- Don: To put on personal protective equipment (PPE).
- Doff: To remove PPE.

### tips

- The key to this cleaning protocol is ONE thorough wipe of the device before scanning and TWO thorough wipes of the device after scanning.
- Ungloved hands should never touch something dirty. If in doubt, wash hands again.
- Always handle device with gloved hands.
- If probe covers are not available, use small clear garbage bags, sandwich bags, or wet umbrella bags with elastic bands. These covers do NOT have to be sterile.