TelePOCUS: A How to Guide

Background— In the midst of the COVID19 Pandemic, there are many reasons to enhance telemedicine capabilities.

Prerequisites—

iPad or iPhone; VA iPad passcode is XXXXXXX; you do not need to use the VA iPad; you can use your own device provided "b" and "c" below are fulfilled

iPad or iPhone with Butterfly IQ application loaded (https://apps.apple.com/us/app/butterfly-iq-ultrasound/id1183035589 ; see app store for device compatibility; requires iOS 12.0 or higher)

Login credentials

Login email NWIpocus1@outlook.com

Password: XXXXXXX

Procedure for standalone POCUS—

Tap the Butterfly app

Login with the credentials in 2.c. above if app is not already logged in

Select the appropriate ultrasound preset

Perform ultrasound procedure

Note: do not store any images or videos in the cloud; VA has not yet approved this option

Procedure for remote TelePOCUS

Description—It is possible for someone at another location to visualize the ultrasound being performed in real time; This is accomplished by establishing a Microsoft Teams videoconference meeting; Microsoft Teams is free and can be downloaded from the App store

Process—

Start Microsoft Teams on the iPad/iPhone

If you are the one performing the ultrasound login to Microsoft Teams with the same credentials as in 2.c. above—

Login email NWIpocus1@outlook.com

Password: XXXXXXX

If you are the remote expert observing the ultrasound; login to Microsoft Teams with the following credentials—

Login email: NWIexpert1@outlook.com

Password: XXXXXXX

If both parties have logged in successfully a video connection should be visible; if one or the other participant video is blank check to make sure that the camera icon at the bottom of

the screen does not have a line through it; also make sure the microphone is not muted (mic icon with line through it)

Initiate Screen sharing in Microsoft Teams—

The person performing the ultrasound should select the ellipsis (three dots "…") at the bottom of the video screen

select "Share"

select "Share screen"

select "Start Broadcast". Once the screen is being broadcast, swipe up or press the home button (depending on you iPhone/iPad version) to go to your device home screen.

Start the Butterfly IQ app and perform the ultrasound as in "3. Procedure for standalone POCUS"

Power—The probe comes with a wireless charger; instructions here: https://support.butterflynetwork.com/hc/en-us/articles/360042405211

Cleaning and disinfecting probe—Detailed disinfection instructions here: https://support.butterflynetwork.com/hc/en-us/articles/360027982451-Cleaning-Disinfection

To clean the probe:

After each use of the probe, use one of the recommended liquid saturated wipes (Super Sani-Cloth® Germicidal Disposable Wipes by PDI, Inc., Super Sani-Cloth® AF3 Disposable Wipes by PDI, Inc., or a lint-free cloth moistened with water) to remove ultrasound transmission gel from the probe.

Disconnect the probe from the mobile device.

Wipe the probe, strain relief, cable, and connector with one of the recommended liquid saturated wipes for one (1) minute and until visibly clean.

Change the wipes as necessary and repeat the above step until the probe is visibly clean.

To dry the probe, use a soft cloth, blot the lens dry. Do not wipe the lens. Dry the rest of the probe, cable, strain relief, and connector.

Visually inspect the probe in a well-lit area to ensure all surfaces are clean. If the probe is not clean, repeat the cleaning steps above.

Dispose of cleaning material in accordance with all applicable regulations.

⚠ **CAUTIONS:**

Prevent any fluid from entering electrical or metal portions of the cable's connector during the cleaning and disinfecting process. Damage due to the fluid in these areas may result.

Prevent any fluid from splashing on your mobile device's touchscreen during scanning and during cleaning. Damage due to fluid may result.

To disinfect the probe:

After cleaning the probe, you must disinfect the probe.

It is recommended that you use Super Sani-Cloth® Germicidal Disposable Wipes by PDI, Inc or bleach (0.6% Sodium Hypochlorite) and clean non-linting wipes.

⚠ **WARNING!** Always inspect the probe before and after cleaning, disinfection, or use. Check the lens face, cable, housing, seams, and connector for signs of damage such as cracks, chips, abrasions, or leaks. To avoid the risk of electrical hazards, do not use the probe if there is any sign of damage.

To disinfect the probe using the Intermediate-Level Disinfection (ILD) method with Super Sani-Cloth® Germicidal Disposable Wipes by PDI:

Wipe the probe, cable, strain relief, and connector with a Super Sani-Cloth® Germicidal Disposable Wipe. Use additional fresh wipes as needed.

Make sure the treated surface remains visibly wet for a minimum of two (2) minutes paying attention to seams, gaps, gasket material, and recessed areas.

Use additional fresh wipes as needed to ensure continuous two (2) minutes of contact time.

Allow to air dry.

Once clean and disinfected, visually inspect the probe, strain relief, cable, and connector for signs of damage or wear.

To disinfect the probe using the Intermediate-Level Disinfection (ILD) method with bleach (0.6% Sodium Hypochlorite) and clean non-linting wipes:

Wipe the probe, cable, strain relief, and connector using a clean non-linting wipe wetted (damp but not dripping) with bleach (0.6%). Use additional fresh wipes as needed.

Make sure the treated surface remains visibly wet for a minimum of ten (10) minutes paying attention to seams, gaps, gasket material, and recessed areas.

Use additional fresh wipes as needed to ensure continuous ten (10) minutes of contact time.

Allow to air dry.

Once clean and disinfected, visually inspect the probe, strain relief, cable, and connector for signs of damage or wear.