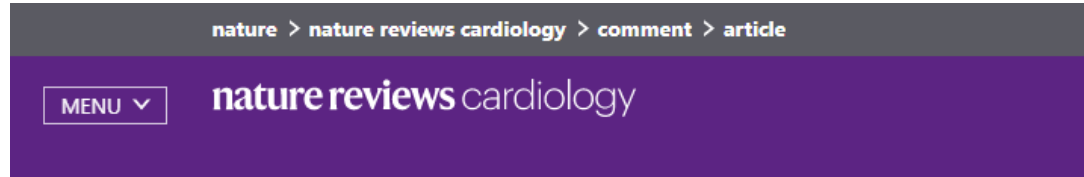


# Vivid™ Cardiovascular Ultrasound COVID-19 Response Information Packages



# About the role of Echocardiography in COVID-19 Response



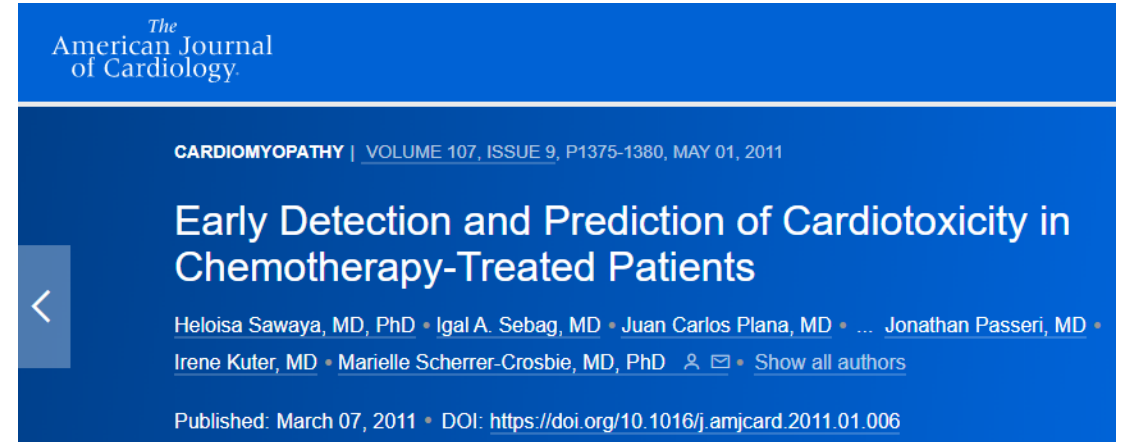
Comment | Published: 05 March 2020

## COVID-19 and the cardiovascular system

Ying-Ying Zheng, Yi-Tong Ma , Jin-Ying Zhang  & Xiang Xie 

*“Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infects host cells through ACE2 receptors, leading to coronavirus disease (COVID-19)-related pneumonia, while also causing acute myocardial injury and chronic damage to the cardiovascular system. Therefore, particular attention should be given to cardiovascular protection during treatment for COVID-19.”*

<https://www.nature.com/articles/s41569-020-0360-5>



*“Although testing for biomarkers is key; for monitoring myocardial function throughout treatment GLS assessments with AFI have proven to be an important tool.”*

[https://www.ajconline.org/article/S0002-9149\(11\)00141-X/fulltext](https://www.ajconline.org/article/S0002-9149(11)00141-X/fulltext)



# GE Healthcare's Efforts to Address COVID-19

## Cleaning Guidelines

An overview of the various cleaning and disinfecting agents we have tested for compatibility with our device materials and the results of those assessments.

[CLEANING GUIDELINES](#)

<https://cleaning.gehealthcare.com/>

## Frequently Asked Questions

Answers to common needs and questions related to COVID-19.

[LEARN MORE](#)

<https://www.gehealthcare.com/corporate/covid-19-faq>



# Bedside Heart and Lung Assessment with Portable Ultrasound



- May reduce healthcare workers exposure during transportation of patients for other diagnostic tests
- Information is immediate – can be acted upon by the physician performing the exam
- Can be repeated frequently, as needed\*
- Portable systems can be easily transported to makeshift ICUs
- Systems can be quarantined with patients
- Images can be transferred wirelessly from isolated hospital areas, when WIFI infrastructure is available.



\*Ultrasound is a non-ionizing imaging solution. ALARA should be used in all cases.

# Vivid™ iq Premium

## Portable. Powerful. In touch.

Part of the **Vivid™** product family, with Windows® 10, and common SW platform



- **Lightweight** (11.5 lbs./5.2 Kg.), ultraportable, intuitive touch-screen, with exceptional image quality
- **Sealed, easy to disinfect operating panel\***
- Touch screen can be operated **with gloves on**
- **Height adjusted cart** for easy standing and sitting scans
- **Up to 4 hours battery scan time on a cart** / up to 1 hour scan time without a cart\*\*, and instant scan from Standby mode
- **WIFI connection** for fast transfer of images from isolated care areas
- **Lung presets** available with M5Sc-RS, 3Sc-RS, 6S-RS, 4C-RS, C1-5-RS, 8C-RS, 9L-RS, and 12L-RS, ML6-15-RS
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 16 probes:** sector, linear, convex, TEE, P2D (as well as ICE probes)

\* Please visit Vivid iq User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:

Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>

\*\* Depending on operation modes used and battery status



# Vivid™ iq Point of Care

## Portable. Powerful. In touch.

Part of the **Vivid™** product family, with Windows® 10, and common SW platform



- **Lightweight** (11.5 lbs./5.2 Kg.), ultraportable, intuitive touch-screen, with exceptional image quality
- **Sealed, easy to disinfect operating panel\***
- Touch screen can be operated **with gloves on**
- **Height adjusted cart** for easy standing and sitting scans
- **Up to 4 hours battery scan time on a cart** / Up to 1 hour scan time without a cart\*\*, and instant scan from Standby mode
- **WIFI connection** for fast transfer of images from isolated care areas
- **Lung presets** available with 3Sc-RS, 6S-RS, 4C-RS, 8C-RS, 9L-RS, and 12L-RS
- **Auto EF** for rapid LV assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 14 probes:** sector, linear, convex, TEE, and P2D

\* Please visit Vivid iq User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:

Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>

\*\* Depending on operation modes used and battery status



# Vivid™ E95

## Patient Care. Elevated



Part of the **Vivid™** product family, with Windows® 10, and common SW platform

- **Easy to transport** (278 lbs./126 kg.)
- **Easy to disinfect\*** (control panel, probes)
- **WIFI connection** for fast transfer of images from isolated care areas
- **Height adjustment** for easy standing and sitting scans
- Touch screen can be operated **with gloves on**
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Myocardial Work** for cardiac function assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Advanced 3D imaging and quantification**
- **Support 19 probes:** sector, linear, convex, TEE, and P2D



\* Please visit Vivid E95 User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:  
Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>  
Cleaning of systems: <https://cleaning.gehealthcare.com/>



# Vivid™ S70N

## Patient Care. Elevated



Part of the **Vivid™** product family, with Windows® 10, and common SW platform

- **Lightweight** (161 lbs./73 Kg.) and easy to transport
- **Easy to disinfect\*** (control panel, probes)
- **Smart Standby mode with battery** – up to 20 minutes Standby without AC power supply, ready to scan within 5 sec
- **WIFI connection** for fast transfer of images from isolated care areas
- **Height adjustment** for easy standing and sitting scans
- Control panel and touch panel can be operated **with 2 pairs of gloves**
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 18 probes:** sector, linear, convex, TEE, and P2D (as well as ICE probes)

\* Please visit Vivid S70N User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:

Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>





# Vivid™ S60N

## Patient Care. Elevated



Part of the **Vivid™** product family, with Windows® 10, and common SW platform

- **Lightweight** (161 lbs./73 Kg.) and easy to transport
- **Easy to disinfect\*** (control panel, probes)
- **Smart Standby mode with battery** – up to 20 minutes Standby without AC power supply, ready to scan within 5 sec
- **WIFI connection** for fast transfer of images from isolated care areas
- **Height adjustment** for easy standing and sitting scans
- Control panel and touch panel can be operated **with gloves on**
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 16 probes:** sector, linear, convex, TEE, and P2D (as well as ICE probes)

\* Please visit Vivid S60N User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website

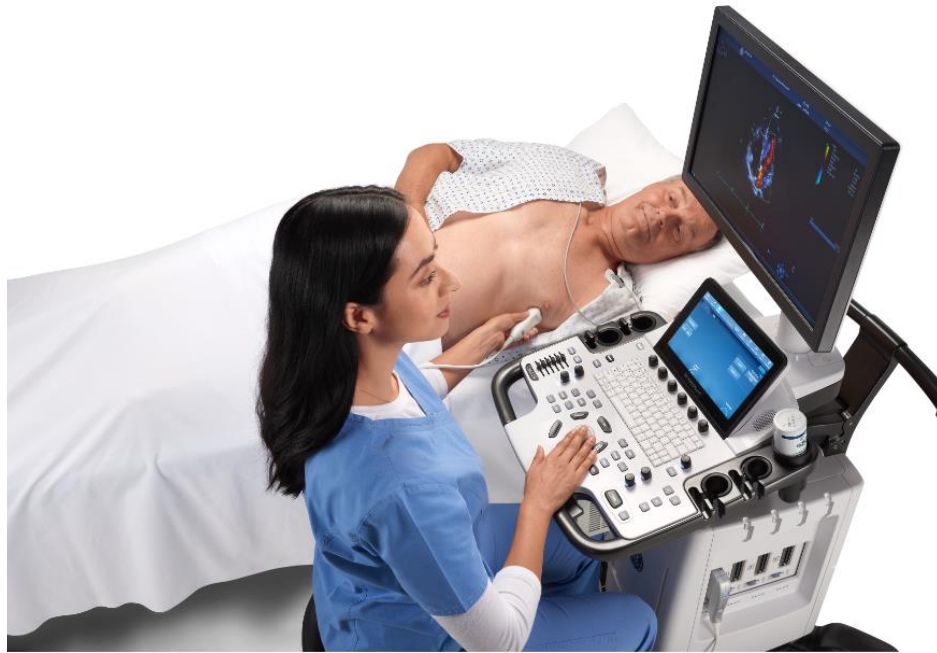
Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>



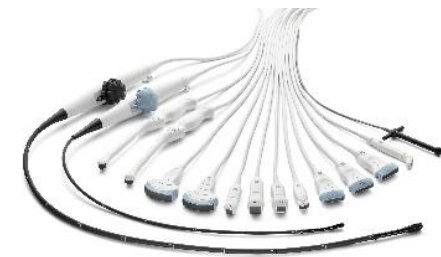
# Vivid™ T9

## Patient Care. Elevated



Part of the **Vivid™** product family, with Windows® 10, and common SW platform

- **Lightweight** (132 lbs./60 Kg.) and easy to transport
- **Easy to disinfect\*** (control panel, probes)
- **Smart Standby mode with battery** – up to 40 minutes Standby without AC power supply, ready to scan within <5 sec
- **WIFI connection** for fast transfer of images from isolated care areas
- **Height adjustment** for easy standing and sitting scans
- Control panel and touch panel can be operated **with gloves on**
- **Lung scan** is supported with 4C-RS, 12L-RS, and 3Sc-RS
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 15 probes:** sector, linear, convex, TEE, and P2D



\* Please visit Vivid T9 User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:

Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>



Vivid is a trademark of General Electric company

# Vivid™ T8

## Patient Care. Elevated



Part of the **Vivid™** product family, with Windows® 10, and common SW platform

- **Lightweight** (132 lbs./60 Kg.) and easy to transport
- **Easy to disinfect\*** (control panel, probes)
- **Smart Standby mode with battery** – up to 40 minutes Standby without AC power supply, ready to scan within <5 sec
- **WIFI connection** for fast transfer of images from isolated care areas
- Control panel and touch panel can be operated **with gloves on**
- **Lung scan** is supported with 4C-RS, 12L-RS, and 3Sc-RS
- **AFI with Auto EF** for rapid LV Strain and EF assessment
- **Cardiac Auto Doppler** – automated Doppler tracing and measurements with minimal user interaction
- **Support 13 probes:** sector, linear, convex, TEE, and P2D



\* Please visit Vivid T8 User Manual for validated cleaning and disinfection procedures. More information can be found on GE Website:

Cleaning of probes: <https://www.gehealthcare.com/products/ultrasound/ultrasound-transducers>

Cleaning of systems: <https://cleaning.gehealthcare.com/>



# Vivid™ Ultrasound Systems and Configurations

	Vivid iq	Vivid E95	Vivid S70N/S60N	Vivid T9/T8
<b>System Type and portability</b>	High-end lightweight portable (laptop) - cart-based or hand carried	Premium console with big wheels, front & rear handle	High-end console with big wheels, front & rear handle and small footprint	Mid-range lightweight console on wheels, front & rear handle and small footprint
<b>Battery Support / Standby Mode</b>	<ul style="list-style-type: none"> <li>Up to 4 hours battery scan with cart/ Up to 1 hour without a cart</li> </ul>		<ul style="list-style-type: none"> <li>up to 20 minutes Standby without AC power supply</li> <li>Ready to scan in 5 sec</li> </ul>	<ul style="list-style-type: none"> <li>up to 40 minutes Standby without AC power supply</li> <li>Ready to scan in &lt;5 sec</li> </ul>
<b>WIFI Connectivity</b>	Yes	Yes	Yes	Yes
<b>Presets</b>	Cardiac, Lung, Vascular, Abdominal	Cardiac, Vascular, Abdominal	Cardiac, Vascular, Abdominal	Cardiac, Vascular, Abdominal
<b>AFI (LV Strain) with AutoEF</b>	Yes	Yes	Yes	Yes
<b>Cardiac Auto Doppler</b>	Yes	Yes	Yes	Yes
<b>Supported Probe Types</b>	2D Sector, Linear, Convex, Pencil, 2D/4D TEE, ICE	2D/4D Sector, Linear, Convex, Pencil, 2D/4D TEE	2D Sector, Linear, Convex, Pencil, 2D/4D TEE, ICE	2D Sector, Linear, Convex, Pencil, 2D TEE



# Appendix



# Vivid iq and Vivid T9 Wireless Connecting

Images from isolated care areas can be transferred wirelessly.

## Basic operations

### Configuring the Wireless Network Adaptor

Follow this procedure to configure the Wireless Network Adaptor:

1. Press **Config** and log on as **Adm**.
2. Select **Connectivity**.
3. Select the **TCP/IP** tab.
4. Click the **Wireless Settings** button (see Figure 3-22.)

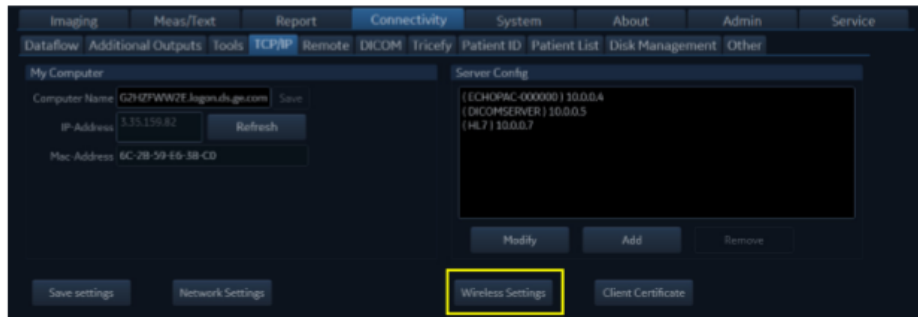


Figure 3-22. Connectivity - TCP/IP Tab



