

# CT Acquisition

## Guidelines

To ensure optimal results from 4DMedical products, please adhere to the following guidelines. It is important that the patient fully understand the breath hold and scanning procedure and that any concerns are addressed prior to performing the CT scans.

**NOTE:** Not all products listed in this document may be available in your country. Please refer to [4dmedical.com](http://4dmedical.com) for regulatory information.

All images must be uncompressed or lossless compressed DICOM file type with the required series sent in 1 study.

### CT PARAMETERS

	CT LVAS™	CT:VQ™	LDAi™	LDAf™	LTA™	CAC™	IQ-UIP™	PHA™
Protocol	Insp/Exp CT Pair	Insp/Exp CT Pair	Insp CT	Insp/Exp CT Pair	Insp CT	Insp CT	Insp CT	Insp CTPA
Slice Thickness	≤ 2.5mm	≤ 2.5mm	≤ 3.0mm	≤ 3.0mm	≤ 2.0mm	≤ 3.0mm	≤ 3.0mm	≤ 2.0mm for arterial measurements ≤ 4.0mm for ventricular measurements
Convolution Kernel	No Restrictions	No Restrictions	Non-edge enhancing	Non-edge enhancing	Non-edge enhancing	Non-edge enhancing	Non-edge enhancing	No Restrictions
Pixel Spacing	≤ 1.0mm	≤ 1.0mm	≤ 2.0mm	≤ 2.0mm	≤ 2.0mm	≤ 1.0mm	≤ 2.0mm	N/A
Slice Intervals with NO GAPS	≤ 2.5mm	≤ 2.5mm	≤ 3.0mm	≤ 3.0mm	≤ 2.0mm	≤ 3.0mm	≤ 3.0mm	N/A

### BREATH HOLDING INSTRUCTIONS for LDAi, LTA, CAC, PHA, and IQ-UIP

1. Direct patient to *"take your biggest breath in to completely fill your lungs and hold your breath."*
2. Technologist should watch the chest to ensure the breath hold is done properly and perform the scan.

### BREATH HOLDING INSTRUCTIONS FOR CT:VQ, CT LVAS, AND LDAf

1. Direct patient to *"take your biggest breath in to completely fill your lungs and hold your breath."*
2. Technologist should watch the chest to ensure the breath hold is done properly and perform the scan.
3. Direct patient to *"blow out all of your breath completely until there is no more air in your lungs and hold without breathing in."*
4. Technologist should watch the chest to ensure the breath hold is done properly and perform the scan.

#### FOR MORE INFORMATION

**CALL** +1.833.987.2267

**EMAIL** [support@4dmedical.com](mailto:support@4dmedical.com)

**WEB** [www.4DMedical.com/ventilation-support](http://www.4DMedical.com/ventilation-support)

**ADDR** 21255 Burbank Blvd., Suite 120, Woodland Hills, CA 91367