

Touch

APOGEE 3500

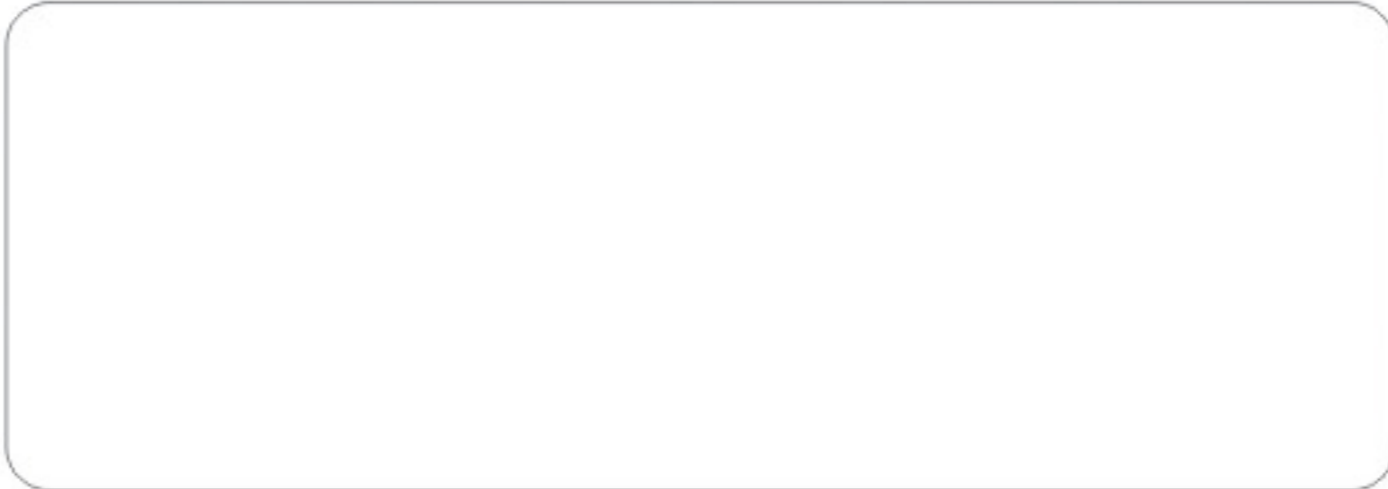
Digital Color Doppler Ultrasound Imaging System

- Touch Screen Control
- Color Speckle Reduction
- Directional Power Doppler
- Live 3D

SIUI

SHANTOU INSTITUTE OF ULTRASONIC INSTRUMENTS CO., LTD.

Add: #77, Jinsha Road, Shantou 515041, Guangdong, China
Tel: +86-754-88250150 Fax: +86-754-88251499
E-mail: siui@siui.com Website: <http://www.siui.com>



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Specifications and appearance are subject to change without prior notice.
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Touch
APOGEE 3500
 Digital Color Doppler Ultrasound Imaging System

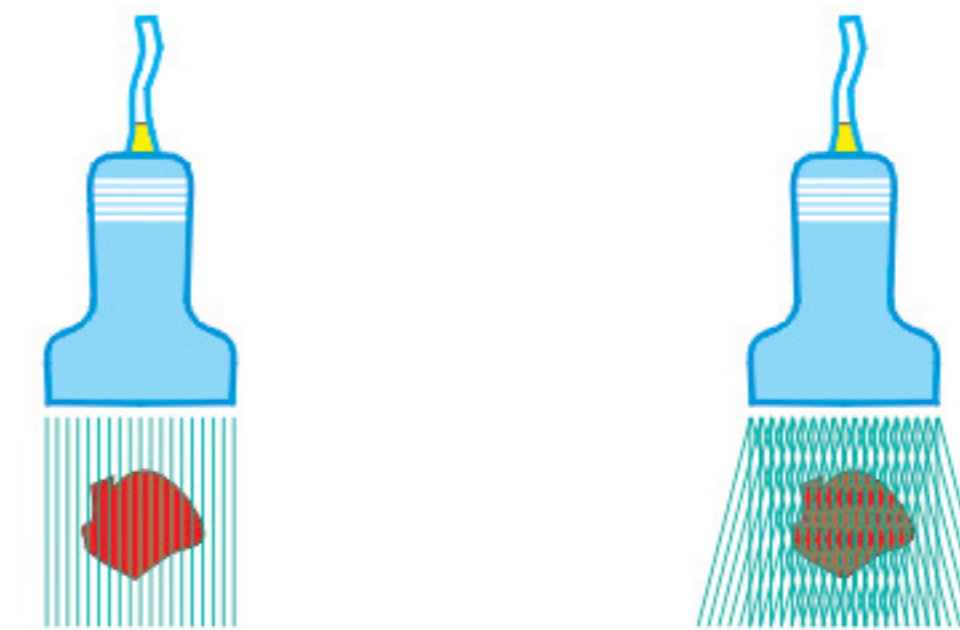
Dedicated to ultrasound system industry, SIUI introduces the Apogee 3500 Touch Digital Color Doppler Ultrasound Imaging System. By adopting multiple leading imaging technologies, the Apogee 3500 Touch is featured with high-resolution image quality and rich functions, suitable for ultrasound examination all over human body. During the examination, sonographers may enjoy diagnostic pleasure and patients may experience safety and comfort brought by advanced technologies.

Cutting Edge Ultrasound Imaging Technology

By adopting a variety of cutting edge ultrasound imaging technologies like Compound Imaging, Tissue Harmonic Imaging and Adaptive Speckle Reduction, the Apogee 3500 Touch is featured with many imaging modes, such as B mode (B, 2B and 4B), M mode, Color Doppler, Color Power Doppler, Directional Power Doppler, PW Doppler, CW Doppler, Trapezoidal Imaging and 3D/Live 3D Imaging.

Compound Imaging

Compound imaging is performed on the same imaging area after adopting real-time multi-angle scanning, so as to reduce speckle noise, clutter, and other ultrasound artifacts affecting image quality. It will significantly improve resolution, resulting in clearer display of tissue boundary composed of different densities, which is conducive to identifying subtle pathological changes in early stage, as well as reducing lateral acoustic shadow shading over tissues at the back.



Conventional Imaging Technology

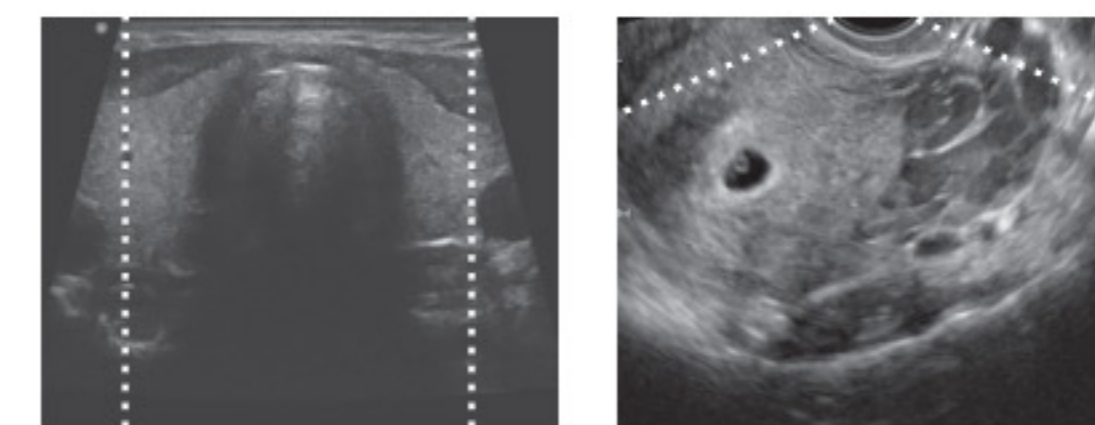
Compound Imaging Technology

Tissue Harmonic Imaging

All the transducers are featured with Tissue Harmonic Imaging function, which enhances image resolution and reduces signal interference from surrounding tissues, thus image quality is improved greatly.

Trapezoidal Imaging

The extended field of view displays more image information without sacrificing image quality, a convenient approach especially for scanning big-size organs.



Linear Steering Imaging

By steering the imaging area of linear array, sonographers can easily scan neighboring organs without moving the probe, thus scanning becomes more efficient and easier.

Color Speckle Reduction

By employing 2D filtering, it can effectively remove color flow noise, enabling the flow map even and continuous, useful for scanning small vascula.

Adaptive Speckle Reduction

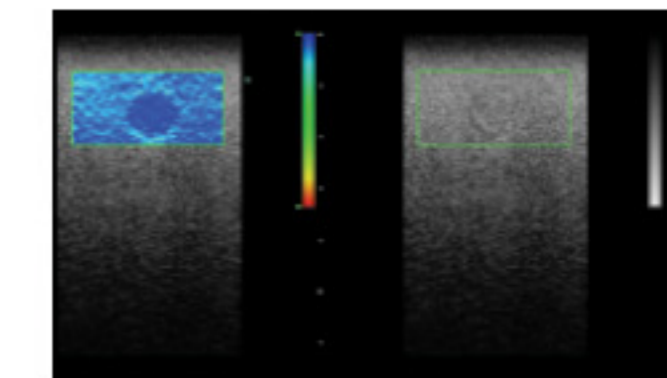
The system will automatically track, identify and intensify useful tissue-characteristic information. Meanwhile, noise is filtered to increase S/N ratio, enabling clearer tissue boundary and more obvious image gradation, which is easy for distinguishing early-stage lesion tissues.

Directional Power Doppler

Combined with advantages of Color Doppler and Power Doppler, it can not only detect very low speed flow, but also distinguish flow direction and velocity.

Elastography (Option)

By compressing human tissue to obtain RF signals before and after compression, tissue deformation and elasticity status can be acquired by time delay estimation, which can be used as a tool for cancer detection.



3D Imaging (Option)

A 3-dimensional image can be achieved with 3D software. Processing such as rotation, zoom in/out, trim, image color and background color change can be performed to tailor the image. A number of observation modes are available.

Live 3D Imaging (Option)

Equipped with a 3D volume probe, live 3D imaging function can be easily achieved to real-time display volumetric information of fetus or organ conveniently and efficiently.



Complete Clinical Solution

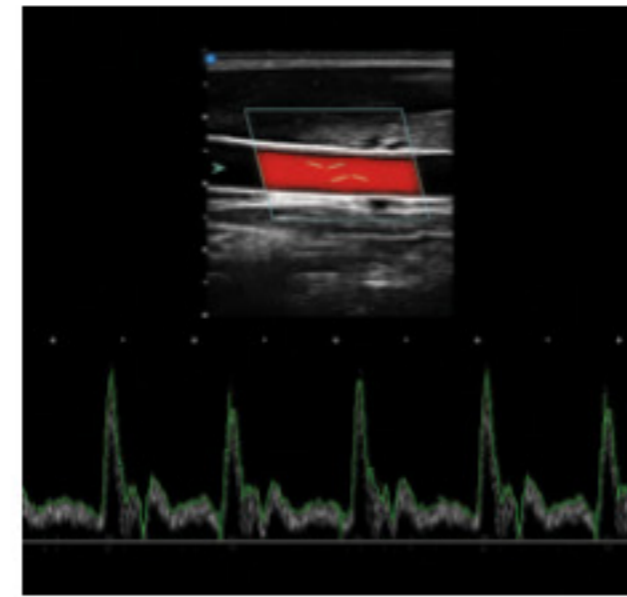


Color Steering

Usually flow display tends to be insensitive when flow direction is perpendicular to ultrasound beams. The Color Steering function will improve flow sensitivity, with several steering angles for selection.

Spectrum Envelope

PW and CW modes are available. Clinicians may choose fully automatic real-time spectrum envelope, manual envelope, or auto envelope by selecting the start point. Hemodynamic data, such as PSV and EDV, will be analyzed and displayed automatically.

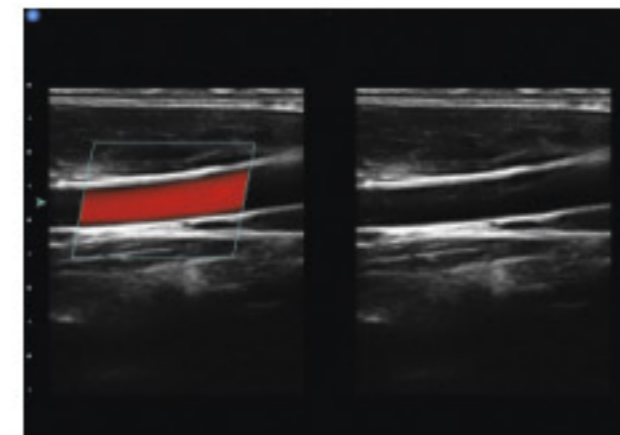


M Zoom




Especially good for M-mode exam on fetal heart. Analysis is more intuitive and measurement more accurate.

Split B/Color Mode

Sonographers may observe 2D and color images respectively and make precise diagnosis through comparison.



Powerful Document Management System

-  Large Capacity Hard Drive
-  DVD-RW
-  S-Video Out
-  USB Port
-  VGA Port
-  Network Port

Personalized Function

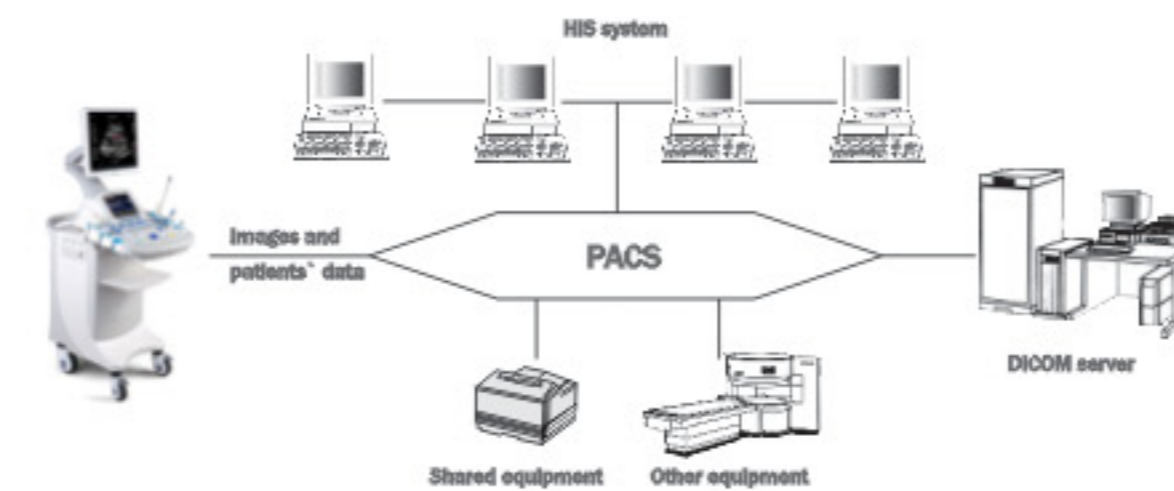
Sonographers may define exam types/modes and set image parameters based on personal preferences and practice habits, to achieve personalized operation and improve diagnostic efficiency.

Ultra-wide Field of View

The transducer maximal angle is up to 180° and the maximal depth is 30cm. With the wide field of view, the operator may view spatial location of tissues and organs clearly at one glance, making the operation more convenient and the diagnosis more precise.

DICOM 3.0 (Option)

PACS and HIS systems can be connected via DICOM 3.0 (option) to achieve online teleconsultation.



Real-time Triplex

2D images, color images and spectrum images can be displayed synchronously in real time, a facility for easy comparison, analysis and more accurate sampling.

Smooth Operation Flow



Touch Screen Control

By operating the color touch screen, sonographers may fully understand the current operation flow at a glance and achieve their exams quickly.

Ergonomic-Designed Console

With the ergonomic-designed console, integrated button control, as well as the color touch screen, sonographers may easily complete the operation with one hand.



Super-large 17-inch High Definition LCD

With the large LCD screen, sonographers may better view high quality images, making the operation more convenient and the diagnosis more precise.

Keyboard Drawer

With the drawer-designed keyboard, information can be inputted easily.



Thumbnail View

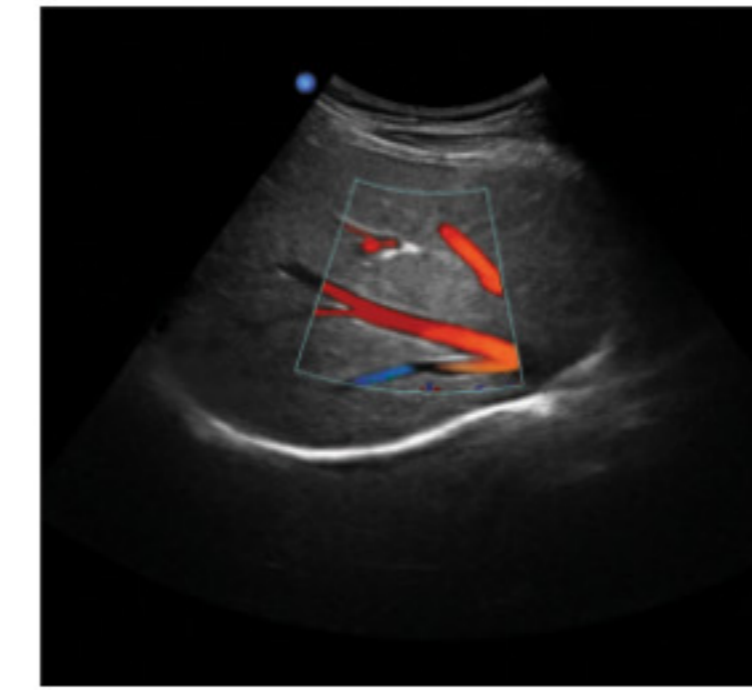
The thumbnails of the currently saved diagnostic images are retained at the bottom of the screen, which can be recalled for comparison and analysis any time.



Browse on the same screen without quantity limit

Extensive Clinical Applications

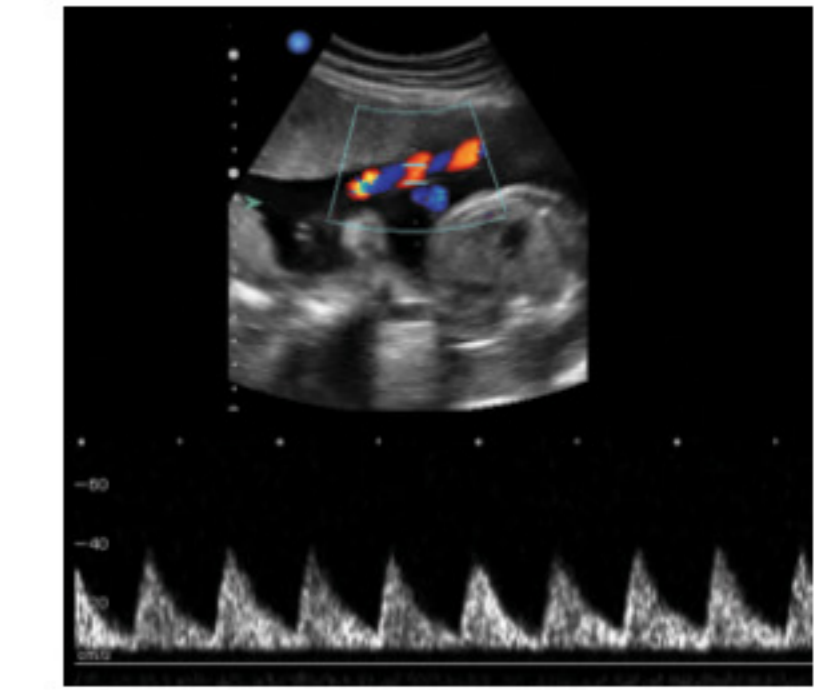
With image processing technologies and measurement & calculation functions for different clinical applications, the Apogee 3500 Touch can be widely used in every clinical diagnosis, such as abdomen, OB/GYN, cardiology, urology, small parts and peripheral vessels.



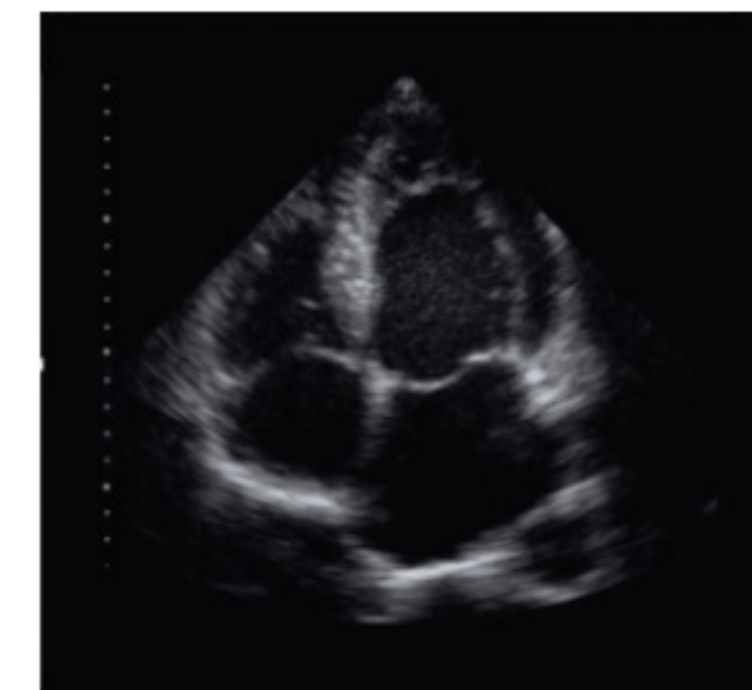
Liver



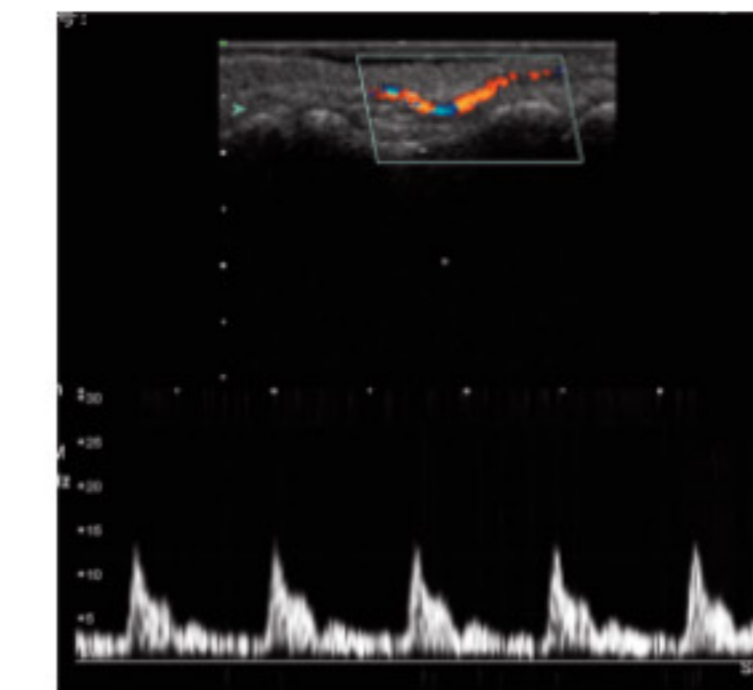
Uterus



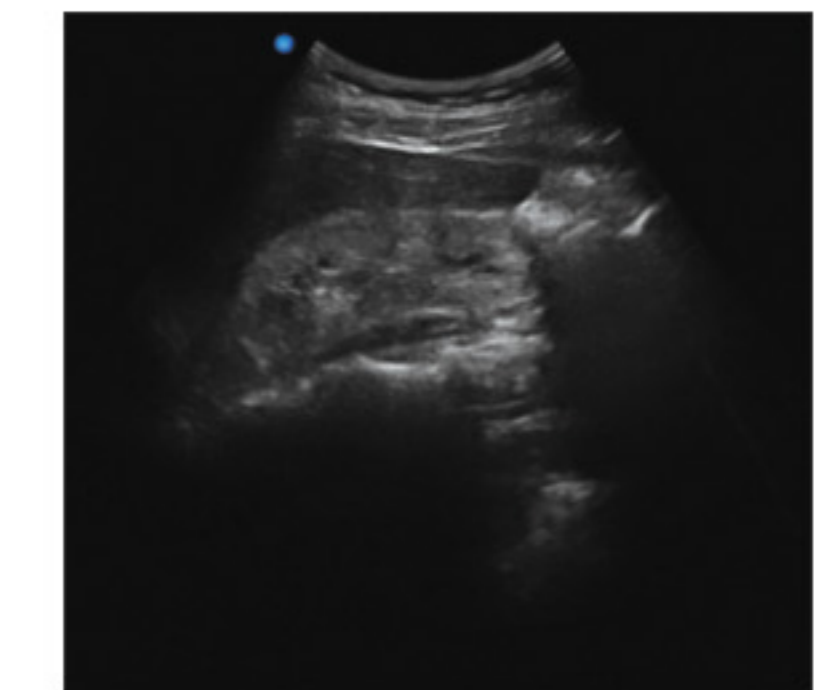
Umbilical Artery Spectrum



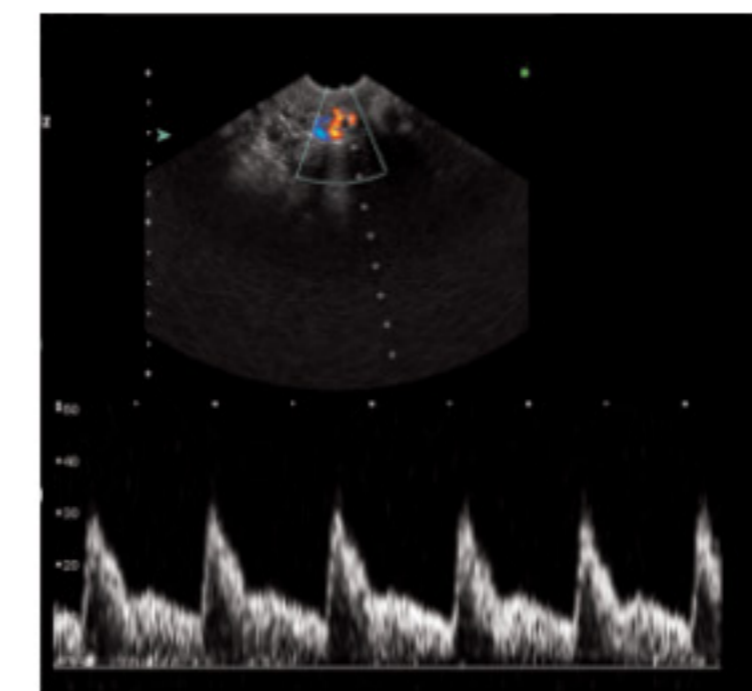
Heart



Finger Artery Spectrum



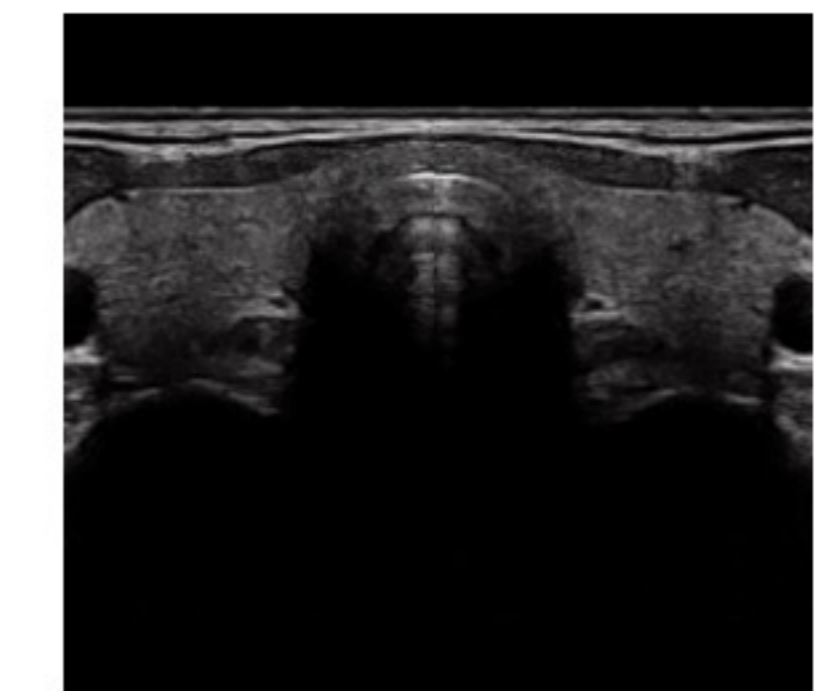
Chronic Nephritis



Ovary Artery Spectrum



Fetal Nose and Lip



Thyroid