Samsung Medison, an affiliate of Samsung Electronics, is a global medical company founded in 1985. With a mission to bring health and well-being to people's lives, the company manufactures diagnostic ultrasound systems around the world across various medical fields. Samsung Medison has commercialized the Live 3D technology in 2001 and since being part of Samsung Electronics in 2011, it is integrating IT, image processing, semiconductor and communication technologies into ultrasound devices for efficient and confidence diagnosis.

CT-HS70A-FTW-150710-EN

* S-Vision is not the name of a function, but is the name of Samsung's ultrasound imaging technology.

* S-Vue is not the name of a function, but is the name of Samsung's advanced transducer technology.

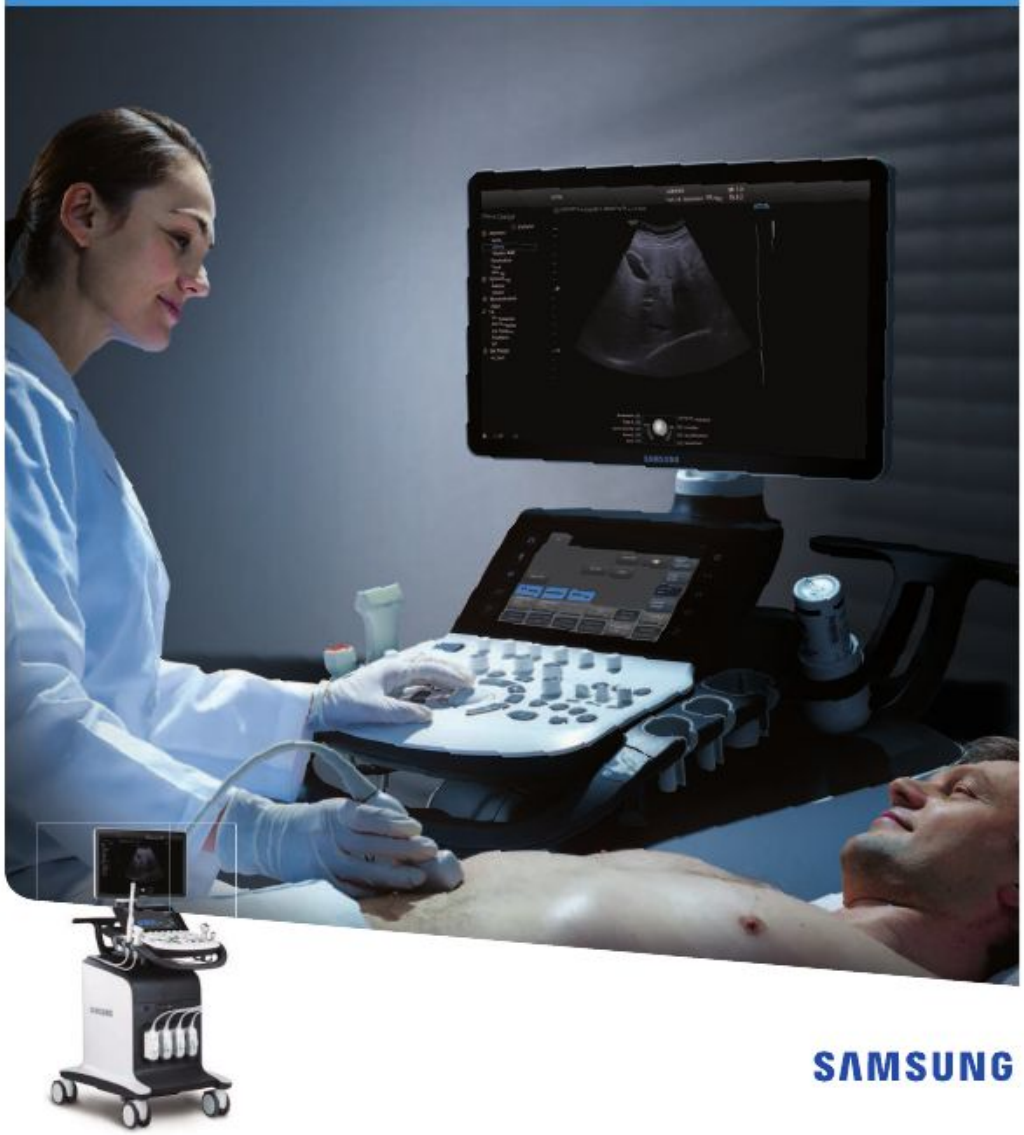
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Daily inspiration

Ultrasound system
HS70A



SAMSUNG

User-inspired design enables higher efficiency

The HS70A was designed for hospital and private care - with you - the user in mind. The HS70A can be used in the departments of Radiology, Internal Medicine, Vascular Surgery, Urology, Gynecology, Pediatrics, Preventive Medicine, Orthopedics, Physiotherapy and Emergency Medicine for:

- Abdominal imaging
- Musculoskeletal imaging
- Small parts imaging
- Breast imaging
- Cardiac screening
- Pediatric heart imaging
- Vascular imaging
- Transcranial Doppler (TCD)

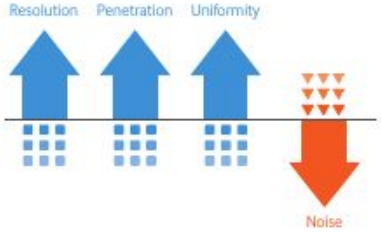
The high-quality image ensures user convenience, excellent patient care and higher patient throughput.



Image clarity

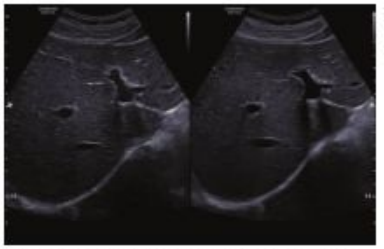
S-Vision imaging engine

With the advanced technology built in the HS70A system, the digital signals received from the beamformer provide clear, detailed resolution and tissue uniformity for all types of applications in general imaging.



S-Harmonic

This new harmonic technology makes a clearer image - near to far. Reducing signal noise, S-Harmonic provides more uniform ultrasound images. Combined with the S-Vue transducer and S-Vision imaging engine, S-Harmonic takes HS70A image quality one step higher.



Liver with S-Harmonic / Liver without S-Harmonic

S-Vue transducer (CA1-7A, CV1-8A)

The S-Vue transducer provides a larger bandwidth and higher sensitivity both in transmit and receive capabilities. The combination of the new S-Vision beamformer with the S-Vue transducer allows easier visualization of difficult to image pathologies. In addition, the ergonomically designed S-Vue transducer is easy to hold and manipulate.



Transmit/Receive at conventional transducer

Transmit/Receive at S-Vue transducer

* Compared with the conventional Samsung transducers

Images rich in detail



GB stones



Focal fatty liver



Thyroid nodule



Thyroid nodule S-Flow



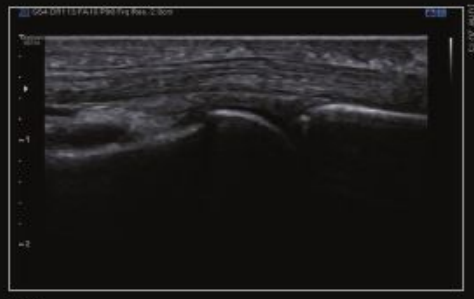
Kidney



Kidney color



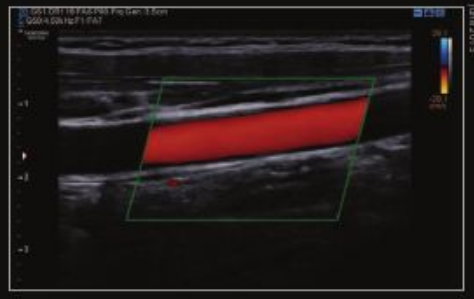
Shoulder



Wrist



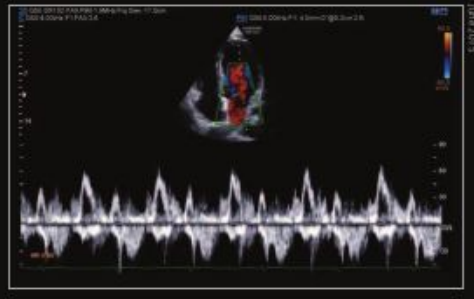
CCA



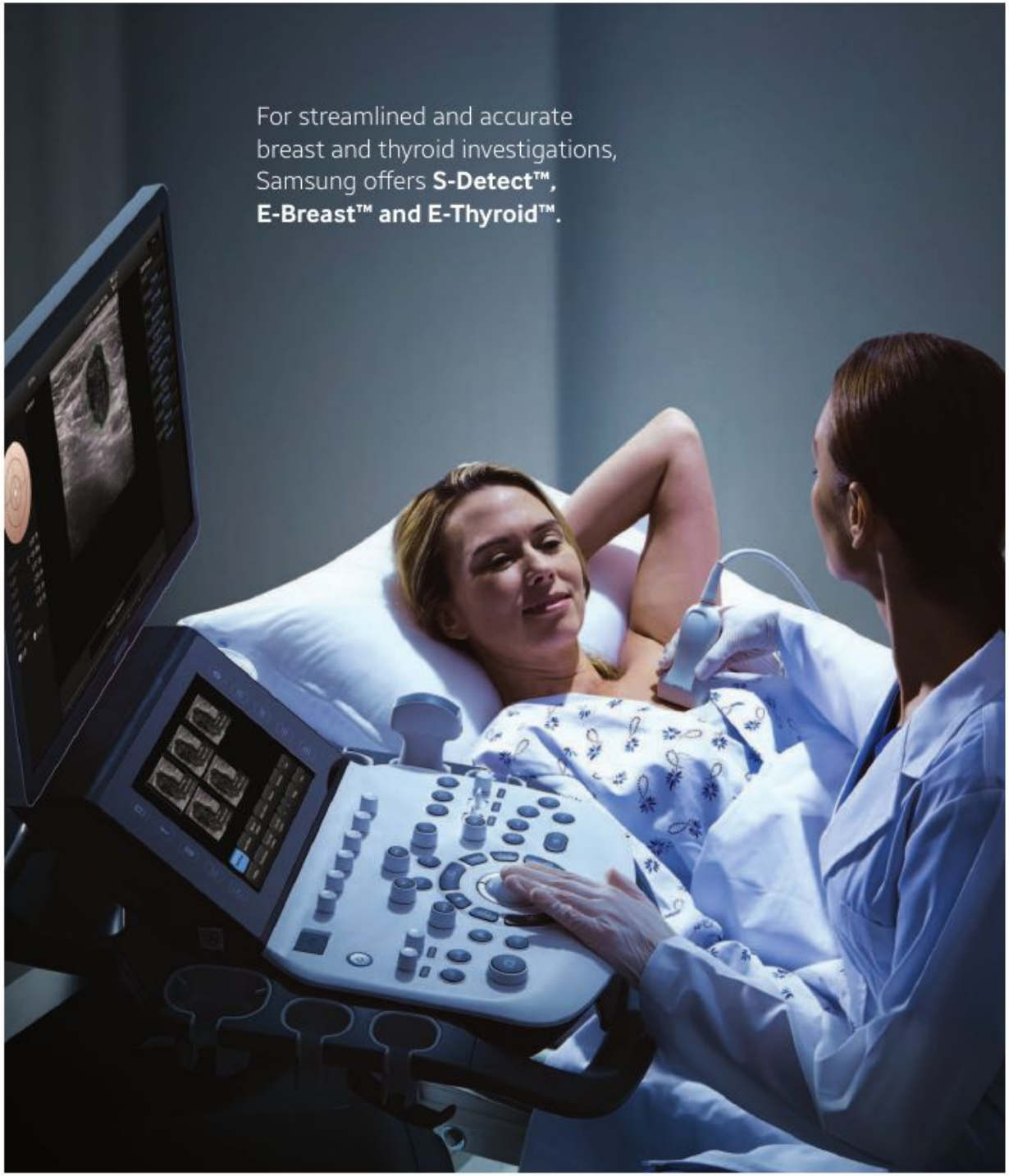
CCA color



4 chamber view



MV Inflow



Advanced measurement tools

S-Detect™

By simply clicking a suspicious lesion, S-Detect™ draws the lesion borders, suggests the characteristics of the lesion and gives a hint whether the lesion is benign or malignant. S-Detect™ uses the Breast Imaging-Reporting and Data System (BI-RADS®) scores for standardized reporting and classification of lesions.



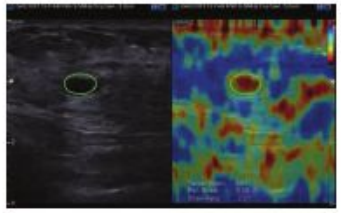


Exam report of S-Detect™

* Above feature may not be available in some countries.

E-Breast™
(ElastoScan™ for breast)

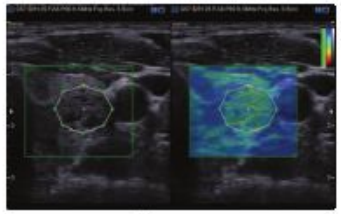
Next to the B-mode image, ElastoScan™ displays a color image that represents the elasticity of the tissue. E-Breast™ technology calculates the strain ratio between the selected target and surrounding fatty tissue. With E-Breast™, the user only has to select one ROI.



Breast Parenchyma

E-Thyroid™
(ElastoScan™ for thyroid)

E-Thyroid™ uses the pulsations of the adjacent common carotid artery (CCA), eliminating the need for manual transducer compression and offering greater consistency in the ElastoScan™ image. E-Thyroid™ provides an elasticity contrast index that is calculated by comparing the elasticity of the lesion and normal tissue within the ROI.



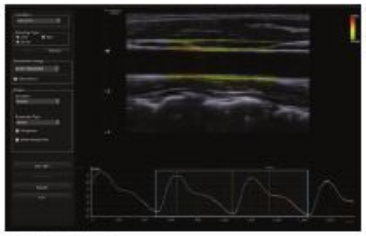
Thyroid ElastoScan™ nodule

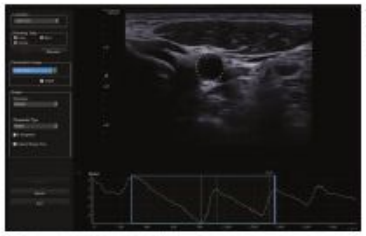
Preventive actions

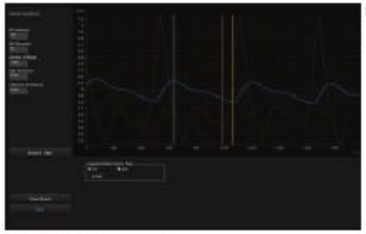


Arterial Analysis

Arterial Analysis detects changes in vessels, providing measurement values such as stiffness and intima-media thickness. Since functional changes occur before morphological changes, this technology supports the diagnosis related to heart vessels at an early stage.


Arterial Analysis

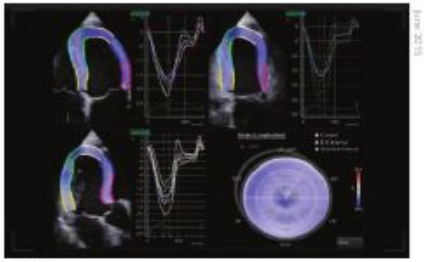

2D Arterial Analysis radial


Arterial Analysis report


Measurement table of Arterial Analysis

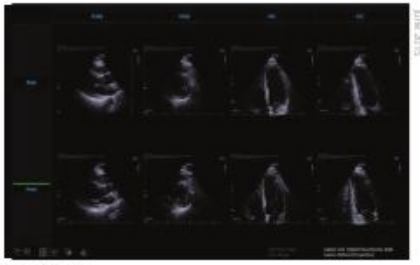
Strain+

Strain+ is a quantitative tool for global and segmental wall motion of the left ventricle (LV). In Strain+, three standard LV-views and a Bull's Eye are displayed in a quad screen for easy and quick assessment of the LV-function.


Strain+

Stress Echo

The Stress Echo package includes wall motion scoring and reporting. It includes exercise Stress Echo, pharmacologic Stress Echo, diastolic Stress Echo and free programmable Stress Echo.


Stress Echo

Intuitive streamlined workflow

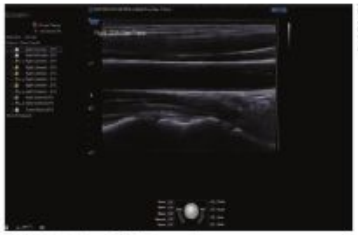
Quick Preset

Quick Preset shows the four connected transducers and, for each of them, the most frequently used image settings. With one touch, the desired transducer and preset will be activated.



EZ-Exam+™

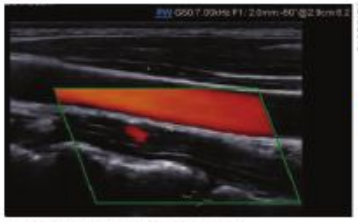
EZ-Exam+™ enables users to build or to use predefined protocols. It transforms the ultrasound investigation into a streamlined process. EZ-Exam+™ ensures the full investigation is performed, eliminating the risk of forgetting an image or loop capture, as well as measurement and transducer preset changes.



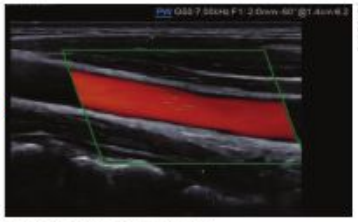
Set up display of EZ-Exam+™

Advanced QuickScan™

To optimize efficiency, one touch of the QuickScan™ button during a CCA ultrasound scan automatically sets the ROI position, scanning direction, sample volume position and angle correction.



CCA Doppler without QuickScan™



CCA Doppler with QuickScan™



A suite of user-friendly tools such as Quick Preset, EZ-Exam+™ and Advanced QuickScan™ simplify and streamline exams, **making investigations easier and faster.**

Ergonomic design



Silent operation

This exceptionally quiet device (35 dB or less) allows physical exams to be performed, including auscultation, while the ultrasound system is turned on.

Mobility

The design of the HS70A makes it easy to move in any situation.



23-inch LED Full HD display

To enhance the image, the HS70A features a 23-inch full high-definition (FHD) LED display, delivering superior image contrast on a large ultrasound display.

10.1-inch touch screen

The 10.1-inch touch screen is exceptionally sensitive and makes operating the ultrasound system smartly efficient.

Gel warmer

For operator convenience, a gel warmer can be installed on both sides of the control panel.



User-friendly console design

Customizable U and P keys allow users to create a workflow tailored to their needs. The console also can be adjusted up, down, left and right so each user is ensured the optimal location.

Comprehensive selection of transducers

Curved array transducers



CA1-7A
- Application : abdomen, obstetrics, gynecology
- Field of view : 70°



CA2-8A
- Application : abdomen, obstetrics, gynecology
- Field of view : 58°



CF4-9
- Application : pediatric, vascular
- Field of view : 92°

Endocavity transducers



VR5-9
- Application : obstetrics, gynecology, urology
- Field of view : 150.3°



E3-12A
- Application : obstetrics, gynecology, urology
- Field of view : 210°

Linear array transducers



L3-12A
- Application : small parts, vascular, musculoskeletal
- Field of view : 50mm



LA3-16A
- Application : small parts, vascular, musculoskeletal
- Field of view : 38.4mm



LA2-9A
- Application : small parts, vascular, musculoskeletal, abdomen
- Field of view : 44.16mm



LA3-16AI
- Application : musculoskeletal, intraoperative
- Field of view : 25.6mm

Phased array transducers



PE2-4
- Application : abdomen, cardiac, TCD
- Field of view : 90°



PA3-8B
- Application : cardiac, pediatric, abdomen
- Field of view : 90°

Volume transducers



CV1-8A
- Application : abdomen, obstetrics, gynecology
- Field of view : 72°



V5-9
- Application : obstetrics, gynecology, urology
- Field of view : 150.6°



LV3-14A
- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

CW transducer



DP2B
- Application : cardiac

Comprehensive selection of transducers

Linear array transducers



L3-12A

- Application : small parts, vascular, musculoskeletal
- Field of view : 50mm



LA3-16A

- Application : small parts, vascular, musculoskeletal
- Field of view : 38.4mm



LA2-9A

- Application : small parts, vascular, musculoskeletal, abdomen
- Field of view : 44.16mm



LA3-16AI

- Application : musculoskeletal, intraoperative
- Field of view : 25.6mm

Curved array transducers

S-Vue transducer



CA1-7A

- Application : abdomen, obstetrics, gynecology
- Field of view : 70°



CA2-8A

- Application : abdomen, obstetrics, gynecology
- Field of view : 58°



CF4-9

- Application : pediatric, vascular
- Field of view : 92°

Volume transducers



LV3-14A

- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

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Ultrasound system
HS70A

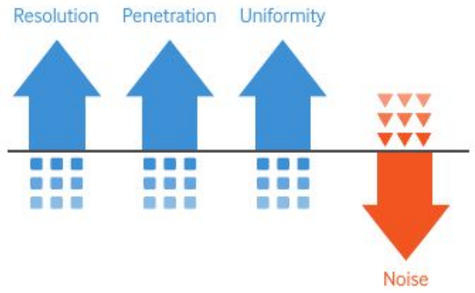


SAMSUNG

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Panoramic

Panoramic imaging displays an extended field-of-view allowing users to examine wider area. Panoramic imaging also supports angular scanning with acquired data from linear and convex transducer.



Panoramic view of elbow

Images rich in detail



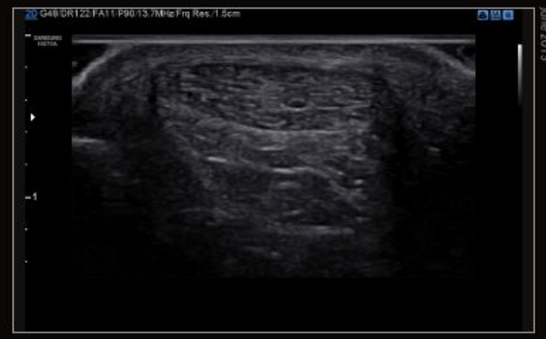
Shoulder



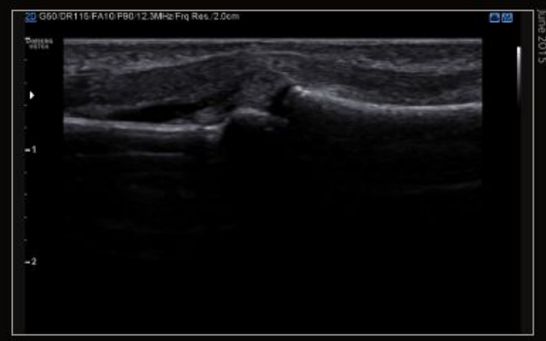
Biceps tendon



Wrist



Achilles tendon



Finger



Ganglion