

Vscan Air CL and SL Indications reference guide

Disclaimer: The information in this section is meant to be reference for examples of anatomies and examinations that can be evaluated by this product. The list may not be all inclusive.

Curved array (deep scanning) transducer

The curved array transducer on Vscan Air CL supports black/white (B-mode), color (Color Doppler), harmonic, M-mode and PW doppler modes. Vscan Air is indicated for ultrasound imaging, measurement, and analysis of the human body in clinical applications that include:

Clinical application	Anatomy	Evaluation
Abdominal (Adult/pediatrics)	 Gall bladder, biliary tree, common bile duct Liver Pancreas Spleen Bowel including appendix, small bowel loops Abdominal aorta Kidneys Inferior vena cava (IVC) Iliac 	 Gall stones Gall bladder inflammation (wall thickening, surrounding fluid) Biliary obstruction (duct dilatation) Hepatomegaly Fatty liver Splenomegaly Intestinal obstruction Appendicitis Peritoneal fluid Cyst/mass/abscess Abdominal aortic aneurysm Kidney stones
Urology (Adult/pediatrics)	 Kidneys Ureter Urinary bladder Uretero-vesicular junction Prostate 	 Kidney, ureteral, bladder stones Kidney length Hydronephrosis Bladder dysfunction Pre-post bladder volume Bladder inflammation (wall and mucosal changes, calcifications) Prostate size and volume Cyst/mass Ureteral jets with color

Curved array (deep scanning) transducer

Clinical application	Anatomy	Evaluation
OB-GYN	 Uterus and endometrium Ovaries Cervix Pouch of Douglas (POD) Gestational sac (GS) Placenta Amniotic fluid Fetus(es) 	 GS location (intra-uterine/extra-uterine) Fetal viability/heart motion Placenta position (including low-lying and previa) Fetal position and presentation Amniotic fluid assessment Cervical length measurement/cervical insufficiency Fetal well-being assessment: biophysical profile (breathing, movements, tone, amniotic fluid) Confirmation of fetal death Intrauterine device position Endometrial thickness measurement Uterine/adnexal mass/cyst (fibroids, cysts) Free fluid in Pouch of Douglas (POD)
Lung/thoracic (Adult/pediatrics)	 A-lines, B-lines, E-lines Pleura Lung tissue Lung sliding Lung point 	 Pneumothorax and hemothorax Pleural effusion Lung consolidation Pneumonia/pneumonitis Pulmonary fibrosis Pulmonary interstitial and inflammatory disorders (ex. ILD, COPD) Acute respiratory distress syndrome
Cardiac and hemodynamic assessment (Adult/pediatrics*) * Pediatric population for cardiac application defined as minimum body weight 40 Kg and above.	 Heart (atria, ventricles, valves) including pericardium Subcostal view Inter-atrial and interventricular septum Pulmonary arteries/veins Inferior vena cava (IVC) 	 Pericardial fluid LV and RV size and function Valvular regurgitations/stenosis Volume status and responsiveness IVC size Respiratory variation
Musculoskeletal (Conventional) (Adult/pediatrics)	 Hip/knee/shoulder joints Femur Humerus/elbow Tibia/fibula Radius/ulna Muscles Ligaments Tendons Nerves 	 Fluid Cyst/mass Long bone fractures Ligament and joint integrity Tendon injuries (tendonitis, rupture/tear) Muscle tears Peripheral nerve blocks
Procedure guidance (Adult/pediatrics)	 Heart Lung Uterus Abdomen Thorax Bladder Nerve plexus Hip/knee/shoulder joints 	 Fluid detection: pericardial, pleural, peritoneal, amniotic, joints Procedures: thoracentesis, paracentesis, pericardiocentesis, amniocentesis, arthrocentesis Foreign body visualization/localization Bladder catheterization Nerve blocks Biopsy Placement and monitor position of tubes and catheter
Protocols	 Heart Inferior vena cava (IVC) Lungs Abdomen	 FAST eFAST BLUE FASH FASE

Linear array (shallow scanning) transducer

The linear array transducer on Vscan Air CL and the Vscan Air SL supports black/white (B-mode), color (Color Doppler), harmonic, M-mode and PW doppler modes. Vscan Air is indicated for ultrasound imaging, measurement, and analysis of the human body in clinical applications that include:

Clinical application	Anatomy	Evaluation
Peripheral vascular (Adult/pediatrics)	 Arteries (including carotid, vertebral, subclavian, axillary, brachial, iliac, saphenous, popliteal, femoral) Veins (including jugular, subclavian, cephalic, basilic, saphenous, femoral, popliteal, tibial) 	 Deep vein thrombosis Atherosclerosis (intima media thickness, plaques, vessel occlusion/stenosis) Subclavian Steal syndrome
Lung/thoracic (Adult/pediatrics)	A-lines, B-linesPleuraLung tissueLung slidingLung point	 Pneumothorax and hemothorax Pleural effusion Lung consolidation Pneumonia/pneumonitis Pulmonary fibrosis Pulmonary interstitial and inflammatory disorders (ex. ILD, COPD) Acute respiratory distress syndrome
Small organs (Adult/pediatrics)	 Testes Scrotum Thyroid Breast Bowel Abdominal wall Skin Subcutaneous tissue Fascia Lymph nodes 	 Testicular torsion (size, echo-texture and vascularity) Epididymo-orchitis Fluid collection in scrotal sac Hematomas, hernias Breast nodules, cyst/mass Abdominal wall masses, hernias Thyroid nodules/cyst/mass/diffuse enlargement Bowel pathology (ex. appendicitis, diverticulitis, intestinal obstruction) Pyloric stenosis/Intussusception for pediatric patients Soft tissue infection (cellulitis, abscess, bed sore) Foreign body visualization/localization Cutaneous mass
Musculoskeletal — (Superficial and conventional) (Adult/pediatrics)	 Tendons Muscles Ligaments Nerves Long bones (ex. humerus, radius, ulna, femur, tibia, fibula) Joints (ankle, shoulder, knee, elbow, wrist) Joint space/bursa 	 Tendon injuries (tendonitis, rupture/tear) Muscle tears Long bone fractures Carpal Tunnel syndrome Fluid collection in joint space, muscles, bursae Joint and ligaments integrity Cyst/mass Hip joint evaluation for neonates and infants
Nerves (Adult/pediatrics)	Peripheral nerves (including interscalene, supraclavicular, infraclavicular, axillary plexus, median N, radial N, ulnar, femoral, popliteal, tibial, peroneal, saphenous N)	Peripheral nerve blocks
Neck and airway (Adult/pediatrics)	 Cervical lymph nodes Trachea Epiglottis, cricoid cartilage, cricothyroid membrane Esophagus Vocal folds 	Neck massesAirway assessmentVocal cord dysfunction

Linear array (shallow scanning) transducer

Clinical application	Anatomy	Evaluation
Procedural guidance (Adult/pediatrics)	 Thorax Veins (including jugular, subclavian, axillary, femoral, brachial, basilic, cephalic) Arteries (including femoral, radial, brachial, axillary, dorsalis pedis) Peripheral nerves Joints Vertebral spaces Skin and subcutaneous tissue Trachea and surrounding structures 	 Fluid detection and removal support: thoracentesis Peripheral venous access Central venous catheterization Arterial access Assessment and support of dialysis access Nerve blocks Joint aspiration and injections Cyst aspiration Biopsy Abscess drainage Foreign body visualization/localization Lumbar puncture Endotracheal tubes placement and confirmation Support placement and monitor position of tubes and catheters
Ophthalmic* *Not available in Japan and China.	 Optic nerve sheath Retina Globe Lens	 Retinal detachment Vitreous hemorrhage Intra-ocular foreign body visualization Globe rupture Optic nerve sheath diameter Lens dislocation
Cephalic (Neonatal)	Fontanelle Superficial and mid-superficial cranial structures	 Gyral-sulcal anatomy Superior sagittal sinus thrombosis Cerebral edema Extra-axial fluid collections
Protocols	• Lungs	• eFAST • BLUE
Aesthetics* *Optional, not available in all markets.	 Epidermis Dermis Subcutaneous fat Neck and facial arteries and veins Superficial and deep facial muscles Superficial fat pads Superficial bone structures 	 Presence of nodules Granulomas or filler Abscesses or seromas Mapping vascular pathways Identifying vessels in high-risk zones Detecting vascular compromise Locating precise injection planes Assessing asymmetry Assessing muscle thickness Planning fat grafting procedures Detecting irregular filler spread or migration Determining injection depth Monitoring filler longevity

Sector array (deep scanning) transducer

The sector array transducer on Vscan Air SL supports black/white (B-mode), color (Color Doppler), harmonic, M-mode and PW doppler modes. Vscan Air is indicated for ultrasound imaging, measurement, and analysis of the human body in clinical applications that include::

Clinical application	Anatomy	Evaluation
Abdominal (Adult/pediatrics)	 Gall bladder, biliary tree, common bile duct Liver Pancreas Spleen Bowel including appendix, small bowel loops Abdominal aorta Kidneys Inferior vena cava (IVC) 	 Gall stones Gall bladder inflammation (wall thickening, surrounding fluid) Biliary obstruction (duct dilatation) Hepatomegaly Fatty liver Splenomegaly Intestinal obstruction Appendicitis Peritoneal fluid Cyst/mass/abscess Abdominal aortic aneurysm Kidney stones
Urology (Adult/pediatrics)	 Kidneys Ureter Urinary bladder Uretero-vesicular junction Prostate 	 Kidney, ureteral, bladder stones Kidney length Hydronephrosis Bladder dysfunction Pre-post bladder volume Bladder inflammation (wall and mucosal changes, calcifications) Prostate size and volume Cyst/mass Ureteral jets with color
OB-GYN	 Uterus and endometrium Ovaries Cervix Pouch of Douglas (POD) Gestational sac (GS) Placenta Amniotic fluid Fetus(es) 	GS location (Intra-uterine/extra-uterine) Fetal viability/heart motion Placenta position (including low-lying and previa) Fetal position and presentation Amniotic fluid assessment Cervical length measurement/cervical insufficiency Fetal well-being assessment: biophysical profile (breathing, movements, tone, amniotic fluid) Confirmation of fetal death Intrauterine device position Endometrial thickness measurement Uterine/adnexal mass/cyst (fibroids, cysts) Free fluid in Pouch of Douglas (POD)
Lung/thoracic (Adult/pediatrics)	 A-lines, B-lines Pleura Lung tissue Lung sliding Lung point 	 Pneumothorax and hemothorax Pleural effusion Lung consolidation Pneumonia/pneumonitis Pulmonary fibrosis Pulmonary interstitial and inflammatory disorders (ex. ILD, COPD) Acute respiratory distress syndrome

Sector array (deep scanning) transducer

Clinical application	Anatomy	Evaluation
Cardiac and hemodynamic assessment (Adult/pediatrics*) * Pediatric population for Cardiac application defined as minimum body weight 40 Kg and above.	 Heart (atria, ventricles, valves) including pericardium Subcostal view Apical 2-chamber, apical 3-chamber, apical 4-chamber, apical 5-chamber, parasternal view (long axis and short axis) LVOT Inter-atrial and interventricular septum Pulmonary arteries/veins Inferior vena cava (IVC) 	 Pericardial fluid LV and RV size and function Systolic and diastolic function Valvular regurgitations/stenosis Volume status and responsiveness IVC size Respiratory variation
Adult cephalic/ transcranial doppler	 Circle of Willis Vertebrobasilar system/artery Middle cerebral artery (MCA) 	 Stenosis Cerebral vasculopathy Vasospasms Collateral pathways Right to left shunts Aneurysms Positional vertigo Cerebral microemboli Ischemic stroke
Procedure guidance (Adult/pediatrics)	 Heart Lung Uterus Abdomen Thorax Bladder Nerve plexus Hip/knee/shoulder joints 	 Fluid detection: pericardial, pleural, peritoneal, amniotic, joints Procedures: thoracentesis, paracentesis, pericardiocentesis, amniocentesis, arthrocentesis Bladder catheterization Nerve blocks Biopsy Placement and monitor position of tubes and catheters
Protocols	 Heart Inferior vena cava (IVC) Lungs Abdomen	• FAST • eFAST • BLUE • FASH • FASE



 $Product\,may\,not\,be\,available\,in\,all\,countries\,and\,regions.\,Full\,product\,technical\,specification\,is\,available\,upon\,request.\,Contact\,a\,GE\,HealthCare\,Representative\,for\,more\,information.$

Data subject to change

 $@\ 2025\ GE\ Health Care.\ Vscan\ Air\ is\ a\ trademark\ of\ GE\ Health Care.\ GE\ is\ a\ trademark\ of\ General\ Electric\ Company\ used\ under\ trademark\ license.$