LOGIQ Fortis™

A powerfully streamlined,
next-generation ultrasound solution

gehealthcare.com

Introducing GE LOGIQ Fortis—the next generation of LOGIQ ultrasound technology.

LOGIQ Fortis—the LOGIQ platform's newest member—provides a multi-purpose, all-in-one, ultra-secure ultrasound solution that can be easily scaled to fit your specific needs.

LOGIQ Fortis is characterized by both its **strength** and its **power**. It gives you the power to enhance your clinical capabilities and increase productivity exponentially.

Everything you expect in a LOGIQ system—*powerfully streamlined*

With a sleek and compact design, LOGIQ Fortis can be used in almost any space. Its state-of-the-art features and technologies make it strong enough to conduct a full spectrum of ultrasound exams and procedures on any body type. It was specifically designed to optimize clinicians' productivity, exceed expectations regarding performance, and to maximize your investment.

Clinical Expectations: **EXCEEDED**

With LOGIQ Fortis, you'll find that any expectations you might have regarding an all-in-one, high-performing ultrasound system aren't just met. They're exceeded. If your facility needs a powerful and scalable ultrasound solution, LOGIQ Fortis is the answer.

### cSound™ Architecture facilitates next-generation imaging

LOGIQ Fortis features cSound Architecture, which combines versatile XDclear™ probes, cSound Imageformer and new, advanced Speckled Reduction Imaging (SRI) technology. The result is increased processing power that delivers enhanced data throughput for exceptional image quality, clarity and confidence.

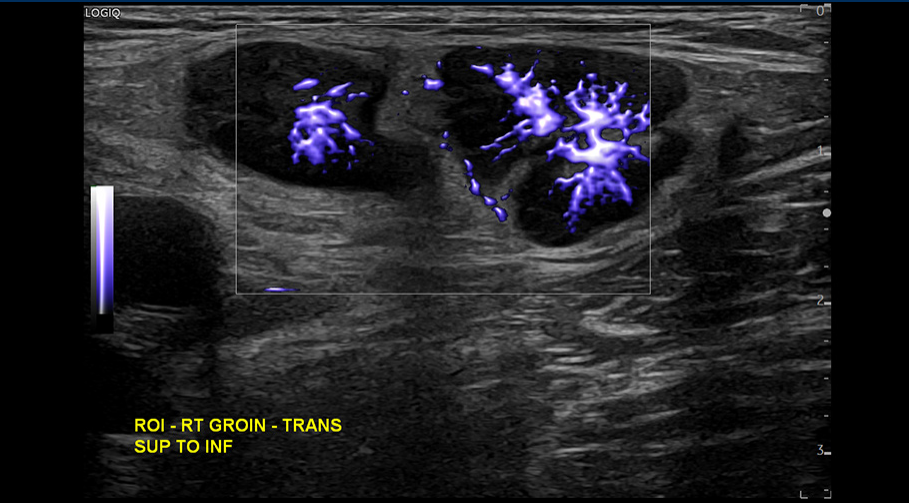### Advanced quantification simplifies patient management

Robust tools, such as 2D Shear Wave Elastography and Ultrasound-Guided Attenuation Parameter (UGAP), help reduce the need for invasive procedures and help provide valuable information for patient management decisions.
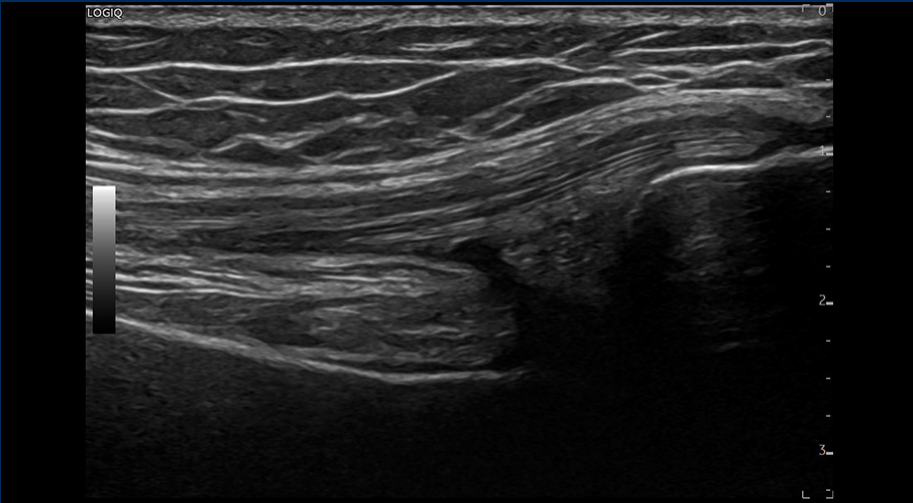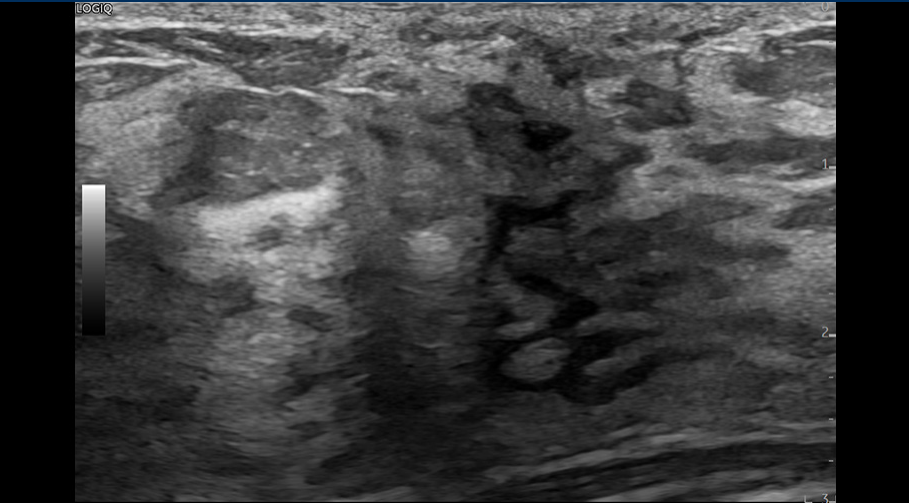
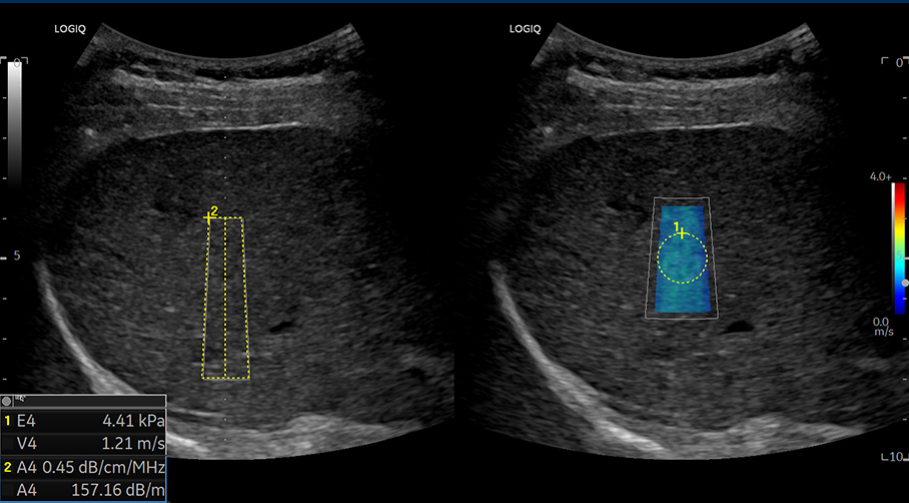# LOGIQ Fortis at work
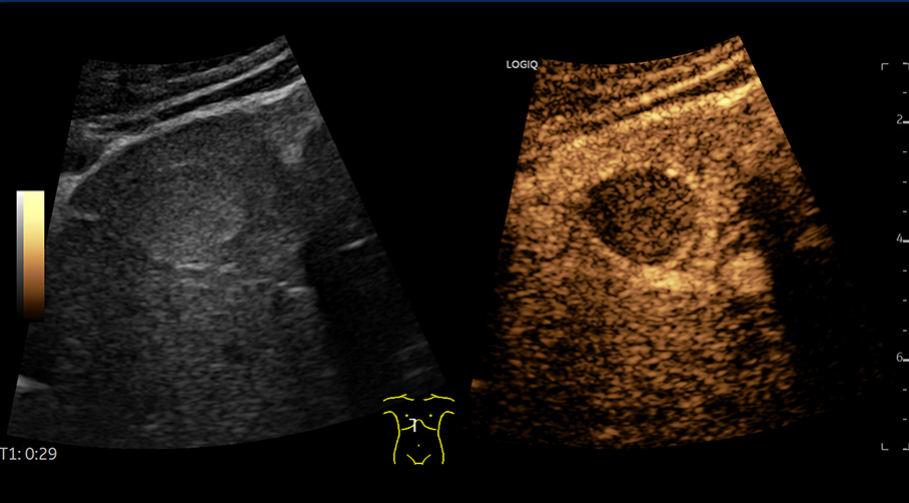
Contrast enhanced liver lesion, C2-9-D

MVI with Radiant*flow* – groin lymph node, ML6-15-D

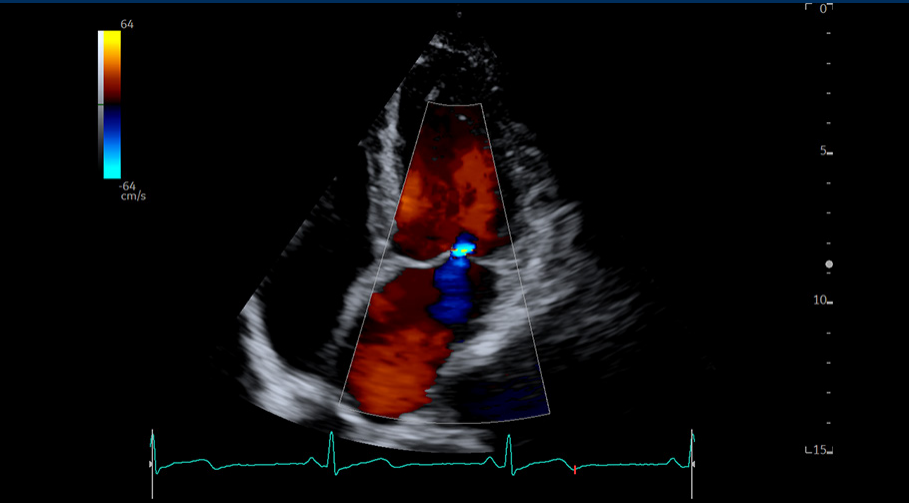ROI - RT GROIN - TRANS
SUP TO INF

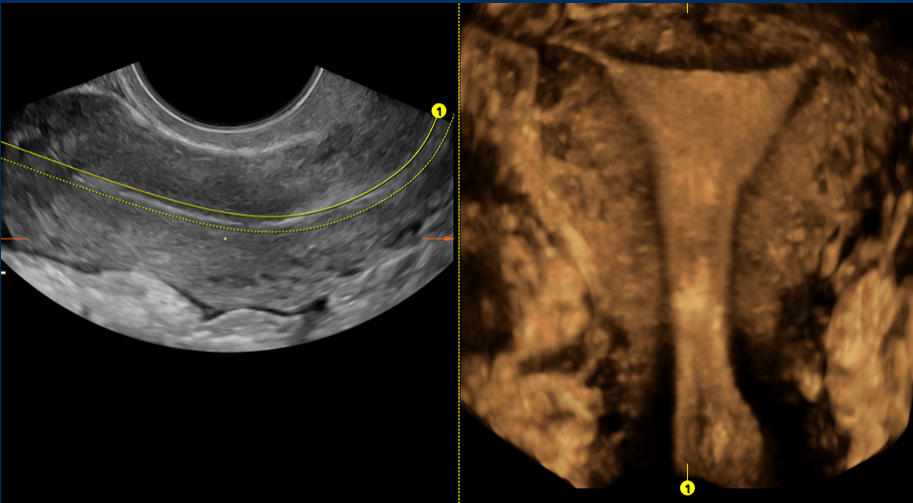B-Mode with Advanced SRI – knee tendon, ML6-15-D

B-Mode with Advanced SRI in breast, ML6-15-D

Hepatic Assistant – UGAP and Shear Wave Elastography, C1-6-D

Color flow of mitral valve apical 4-chamber view, M5Sc-D

OmniView dual screen, RIC5-9-D

For your multi-purpose ultrasound needs, LOGIQ Fortis is always ready and always by your side.

LOGIQ Fortis helps clinicians streamline their workflow, ensure accurate results, and enhance patient comfort. Its productivity tools help facilitate diagnoses and its design makes it easy to clean and simple to operate.

A system that's easily moved to where it's needed
Due to its sleek footprint, LOGIQ Fortis is simple to maneuver and can fit into almost any space—from patient rooms to exam rooms to operating rooms.

AI-based tools streamline and optimize workflow
LOGIQ Fortis harnesses the power of artificial intelligence to improve the speed, ease and comfort of exams. With its AI-based tools, users can achieve exceptional images quickly.

LOGIQ apps make remote usage possible—and simple
A variety of apps for mobile devices add next-level context with photos and enable users to control LOGIQ Fortis remotely. The result is an optimized ergonomic experience for you and your patients.

Productivity & workflow: **OPTIMIZED**

Your investment: **MAXIMIZED**

When you purchase an ultrasound system, it's not just an investment for your facility—it's also an investment in your clinicians and patients. With LOGIQ Fortis, you'll be able to maximize that investment for everyone. Because it's easily scaled to meet the evolving needs of today and tomorrow, you'll be able to depend on LOGIQ Fortis for years to come. And, because it can be used for a wide variety of exams and procedures on any body type, the need to purchase multiple ultrasound systems for different requirements is eliminated. LOGIQ Fortis is the all-in-one ultrasound system that delivers a one-of-a-kind solution.

The A to A digital platform enhances the intelligence of the LOGIQ Fortis
From Awareness to Assistance, our A to A digital platform allows your organization to stay at the forefront of clinical imaging. It's specifically engineered so you can add next-generation capabilities to LOGIQ Fortis in the years ahead.

Lifecycle solutions for where you are today—and where you will be tomorrow
The advanced digital support features of LOGIQ Fortis make it easy to optimize your ownership experience. From InSite™ remote support, to iCenter™ performance analytics, to AVURI remote device management, you'll have access to the tools you'll need to optimize your assets, streamline your operations, and to ensure you're prepared to meet your facility's evolving needs.

SonoDefense Data Security Protection guards your investment 24/7
With its multi-layer approach to cybersecurity and data privacy protection, SonoDefense protects LOGIQ Fortis from cyberthreats and unauthorized access around the clock. Your investment is secured—and so is your confidence.

LOGIQ Fortis

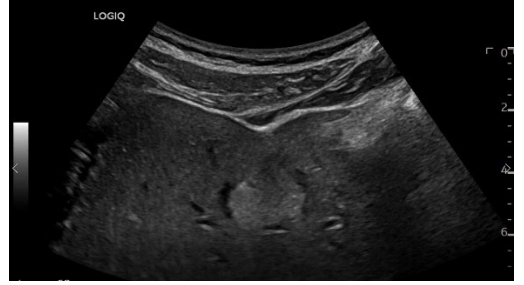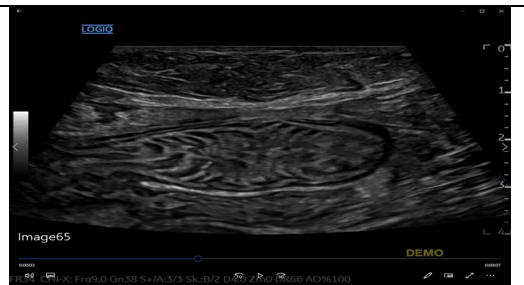A powerful, streamlined ultrasound solution that's always ready, always by your side.

LOGIQ Fortis™ Demo Disc Guide

EXAM	IMAGE DESCRITPION	IMAGE
Abdomen	C1-6-D B-Mode liver nodule image with Advanced SRI CINE	
Abdomen	C1-6-D B-Mode with Advanced SRI image of the liver using CTO	
Abdomen	C3-10-D B-Mode with Advanced SRI image of the left kidney	
Abdomen	L2-9-D B-Mode with Advanced SRI CINE image of bowel	

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Abdomen	C2-9-D B-Mode Dual image of pancreas with and without Advanced SRI	
Abdomen	C2-9-D B-Mode CINE image of pancreas	
Abdomen	C1-6-D B-Flow with Advanced SRI Dual view CINE of Celiac trunk, Hepatic and Splenic arteries	
Abdomen	C2-9-D B-Mode with Advanced SRI CINE image of liver lesion and ascites	
Abdomen	C1-6-D Hepatic Assistant image in simple Dual view visualization	
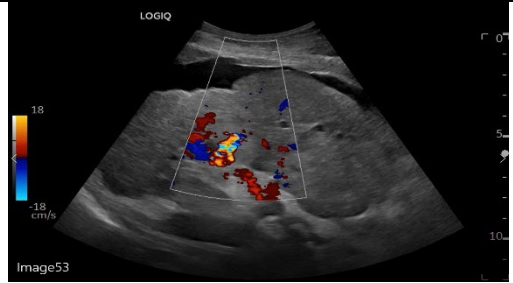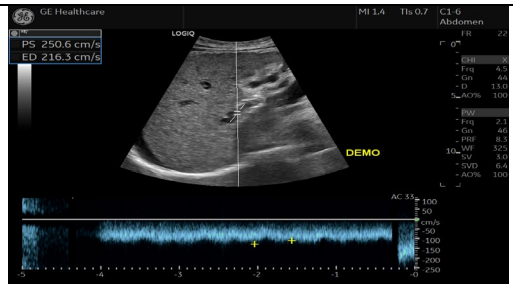
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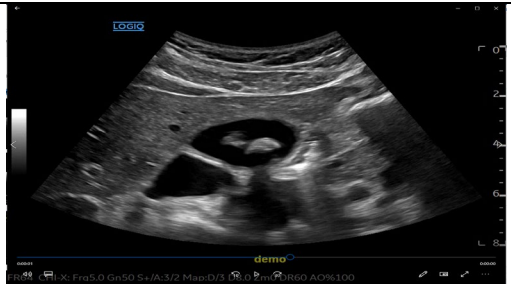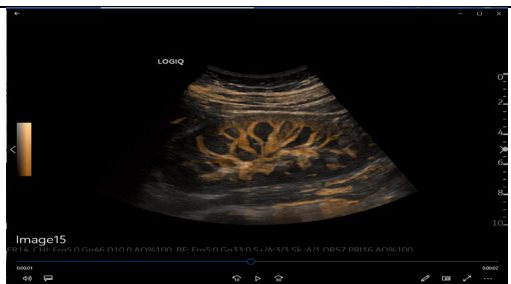| Abdomen	C1-6-D B-Mode with Advanced SRI image of the liver using CTO	
Abdomen	C3-10-D B-Mode with Advanced SRI image of the left kidney	
Abdomen	C1-6-D B-Mode with Advanced SRI liver with lesion	
Abdomen	C2-9-D B-Mode with Advanced SRI CINE of Pancreas	
Abdomen	C1-6-D Dual view B-Flow with Advanced SRI CINE of Aorta	

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Abdomen	C2-9-D liver lesion with Color Flow CINE	
Abdomen	C1-6-D B-Mode liver Transjugular Intrahepatic Portosystemic Shunt (TIPS) CINE with CTO active	
Abdomen	C1-6-D liver PW Doppler of TIPS	
Abdomen	C3-10-D B-Mode with Advanced SRI kidney	
Abdomen	C2-9-D B-Mode with Advanced SRI left inferior abdomen with free fluid	
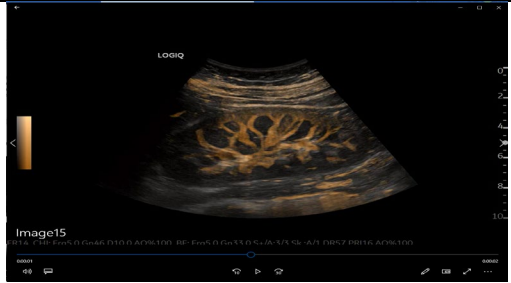
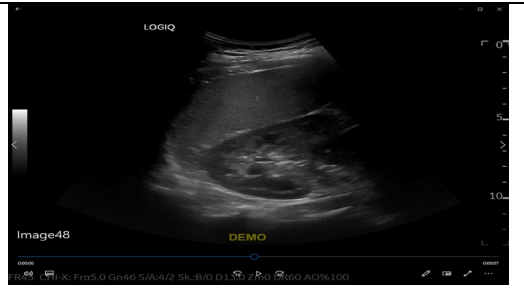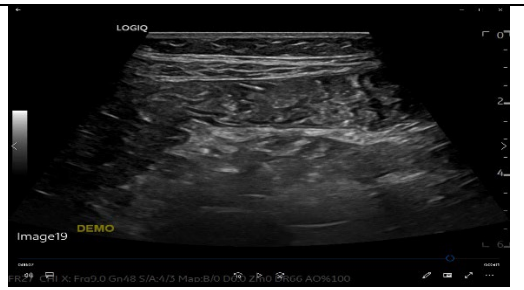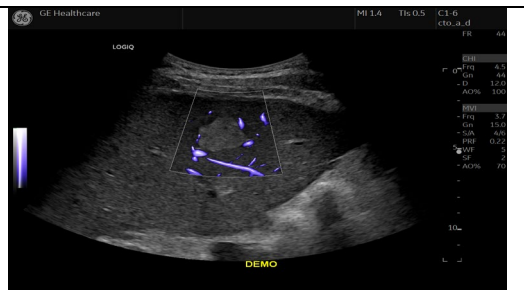|		
Abdomen	C1-6-D B-Mode with Advanced SRI large Spleen using CTO	
Abdomen	C1-6-D B-Mode with Advanced SRI CINE of the liver and gallbladder with ascites	
Abdomen	C1-6-D B-Flow with Advanced SRI CINE of Celiac Artery Trunk	
Abdomen	C3-10-D B-Mode with Advanced SRI of right kidney	
Abdomen	C1-6-D B-Mode CINE liver	
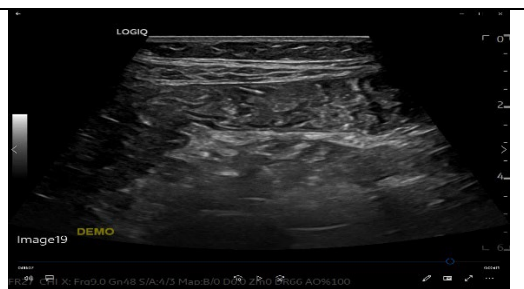
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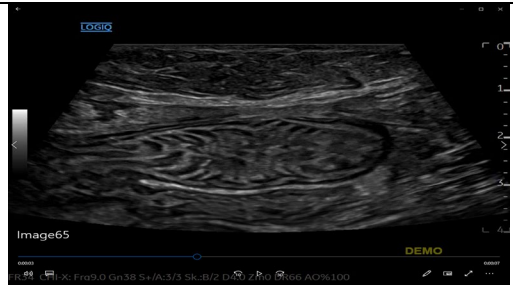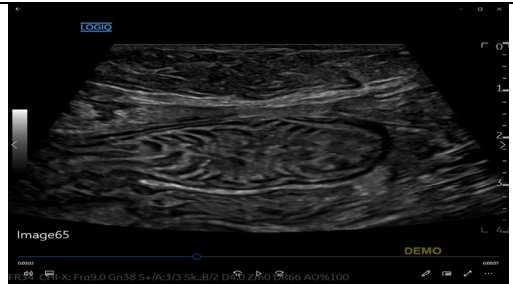JB19029XX

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Abdomen	C2-9-D Hybrid B-Flow with Advanced SRI CINE of right kidney	
Abdomen	C2-9-D B-Mode with Advanced SRI CINE of gallbladder stones with CTO active	
Abdomen	C1-6-D B-Mode liver, Inferior vena cava and aorta	
Abdomen	C2-9-D Hybrid B-Flow with Advanced SRI CINE capture of right kidney	
Abdomen	C1-6-D B-Mode with Advanced CINE of liver TIPS	

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Abdomen	C2-9-D B-Mode with Advanced SRI CINE of spleen	
Abdomen	C2-9-D B-Mode CINE of spleen and left kidney demonstrating cSound™ architecture	
Abdomen	L2-9-D B-Mode with Advanced SRI CINE of bowel	
Abdomen	C1-6-D Microvascular Imaging (MVI) with Radiant*flow*™ of liver lesion	
Abdomen	Bowel B-Mode CINE image L2-9-D	

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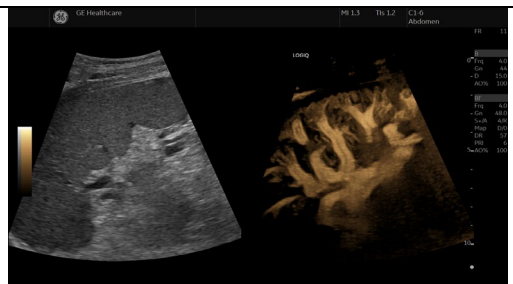JB19029XX
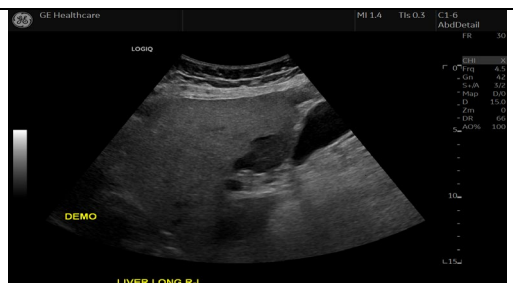
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Abdomen	C1-6-D B-Mode with Advanced SRI enlarged liver using 6Mhz showing image uniformity and penetration with cSound architecture	
Abdomen	L2-9-D B-Mode image with Advanced SRI bowel with CTO active	
Abdomen	C2-9-D B-Flow with Advanced SRI CINE of Spleen	
Abdomen	C2-9-D B-Flow with Advanced SRI CINE capture of Spleen	
Abdomen	C2-9-D B-Flow with Advanced SRI CINE of Spleen	

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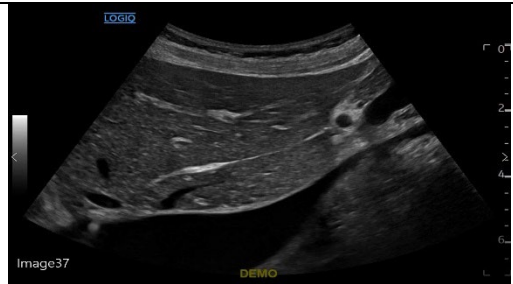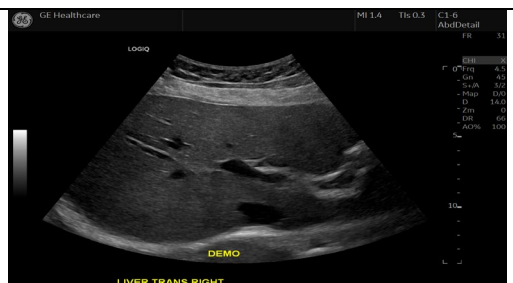|		
Abdomen	C2-9-D B-Mode with Advanced SRI CINE in liver with CTO active	
Abdomen	L2-9-D B-Mode with Advanced SRI CINE image of bowel with CTO active	
Abdomen	C2-9-D B-Mode with of Pancreas with Advanced SRI	
Abdomen	C1-6-D B-Flow with Advanced SRI Dual visualization of spleen CINE image	
Abdomen	C1-6-D liver lesion B-Mode image with Advanced SRI	

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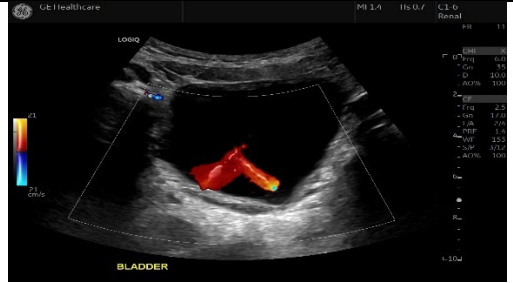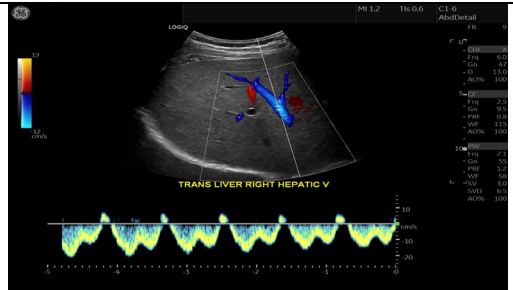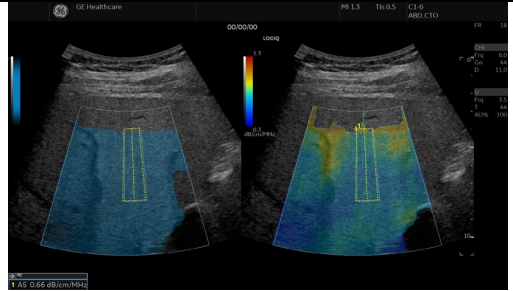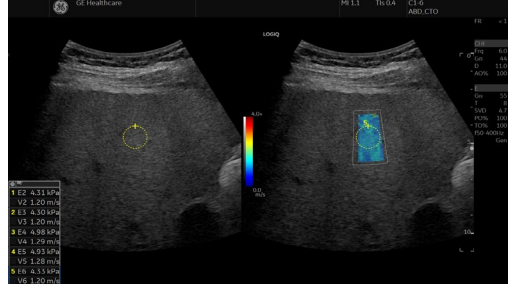|		
Abdomen	C1-6-D B-Flow Dual visualization with Advanced SRI and CINE capture	
Abdomen	C2-9-D B-Mode CINE of liver using Advanced SRI and CTO active	
Abdomen	C2-9-D B-Mode with Advanced SRI aorta and left lobe of liver with CTO active	
Abdomen	C1-6-D B-Flow with Advanced SRI Dual visualization Capture Recon of spleen	
Abdomen	L2-9-D B-Mode virtual convex gallbladder	

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Abdomen	C1-6-D B-Mode CINE gallbladder with sludge and ascites with Advanced SRI	
Abdomen	C2-9-D B-Mode with Advanced SRI CINE liver and IVC with CTO active	
Abdomen	C1-6-D B-Mode with Advanced SRI of liver	
Abdomen	C2-9-D B-Mode with Advanced SRI of liver with Ascites	
Abdomen	C1-6-D B-Mode with Advanced SRI of liver	

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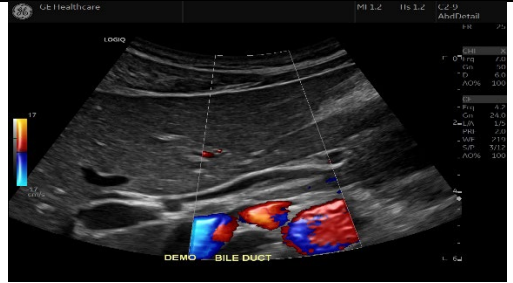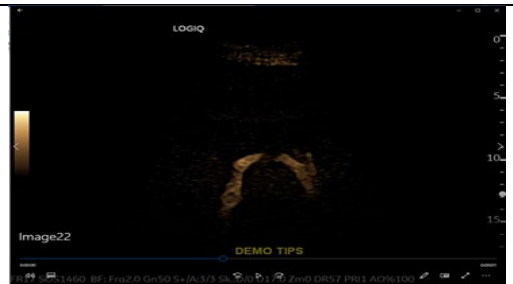JB19029XX

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Abdomen	C1-6-D bladder jets with Color Flow and Radiant*flow* ™	
Abdomen	C1-6-D hepatic vein with Color Flow using Radiant*flow* and PW Doppler	
Abdomen	C1-6-D B-Mode liver hepatic veins with Advanced SRI	
Abdomen	C1-6-D liver Ultrasound Guided Attenuation Parameter (UGAP) measurement in Dual visualization with Quality indicator map and Attenuation map	
Abdomen	C1-6-D 2D Shear Wave measurement of liver in Dual view	
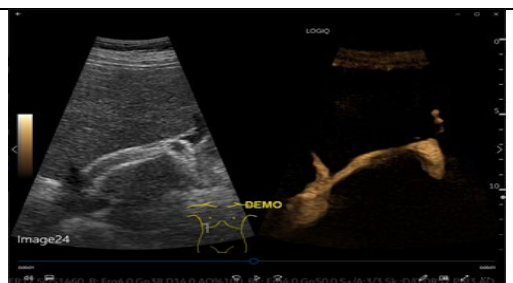
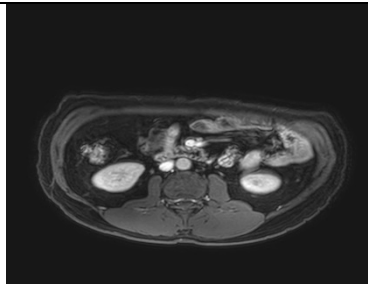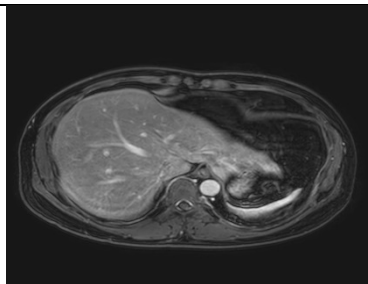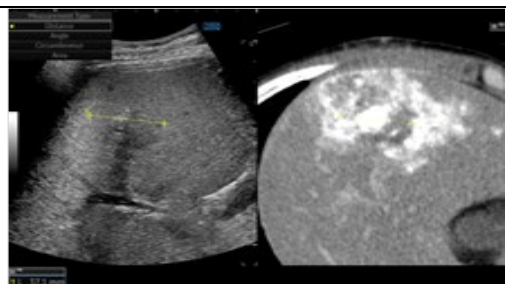|		
Abdomen	C2-9-D B-Mode CINE with Advanced SRI liver/kidney interface	
Abdomen	C1-6-D B-Mode with Advanced SRI urine filled bladder	
Abdomen	C2-9-D B-Mode with Advanced SRI liver	
Abdomen	C1-6-D B-Mode with Advanced SRI gallbladder stone	
Abdomen	C2-9-D B-Mode with Advanced SRI gallbladder	
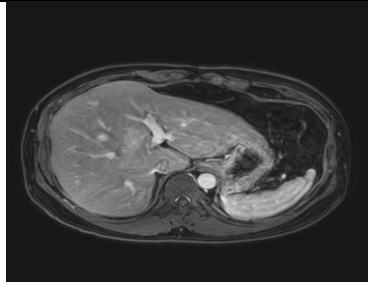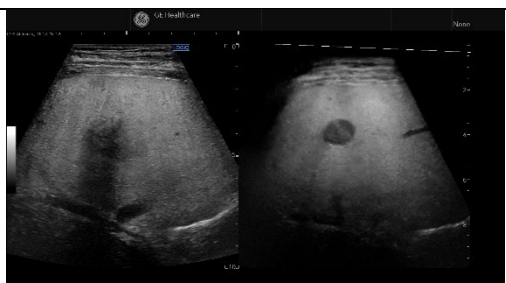
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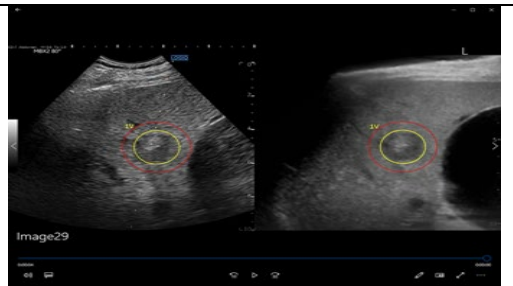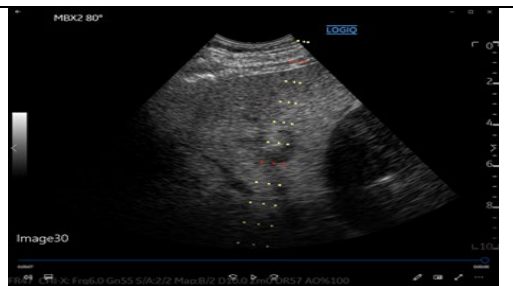|		
Abdomen	C2-9-D B-Mode with Color Flow using Radiant*flow* Common Bile Duct	
Abdomen	C1-6-D Color Flow CINE of liver TIPS	
Abdomen	C1-6-D B-Flow with Advanced SRI CINE of liver TIPS	
Abdomen	C1-6-D B-Flow with Advanced SRI CINE of liver TIPS	
Abdomen	C1-6-D B-Flow with Advanced SRI Dual visualization CINE of liver TIPS	

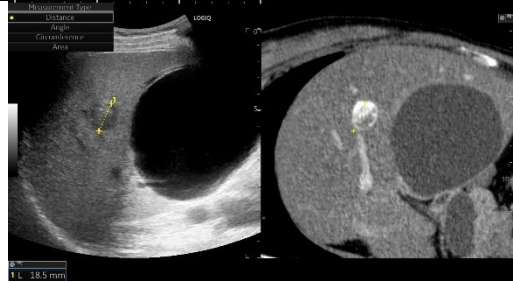| Abdomen	CT liver image	
Abdomen	CT kidneys image	
Abdomen	CT liver image	
Abdomen	C1-6-D liver lesion with CTO active Volume Navigation fusion with CT image	
Abdomen	L2-9-D liver lesion with CTO active Volume Navigation with Ultrasound image	

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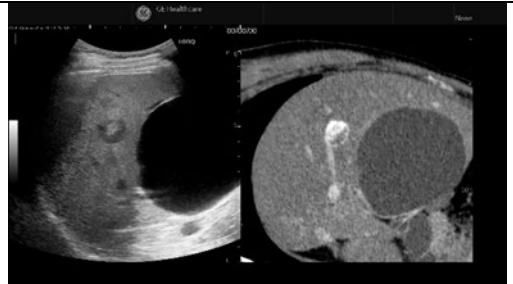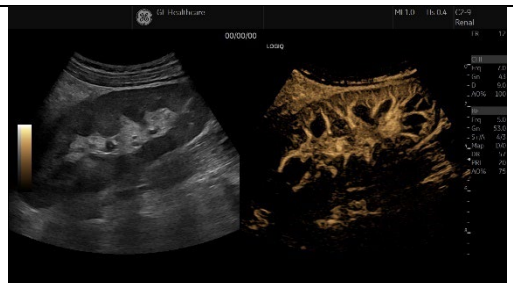|		
Abdomen	L2-9-D liver lesion measurement with CTO active Volume Navigation with Ultrasound image	
Abdomen	C1-6-D liver lesion with CTO active Volume Navigation fusion with CT image	
Abdomen	C2-7-D liver lesion with CTO active Volume Navigation with Ultrasound CINE and 3D GPS with biopsy guide displayed	
Abdomen	C2-7-D B-Mode CINE of liver lesion with CTO active and biopsy guide displayed	
Abdomen	C1-6-D B-Mode liver lesion	

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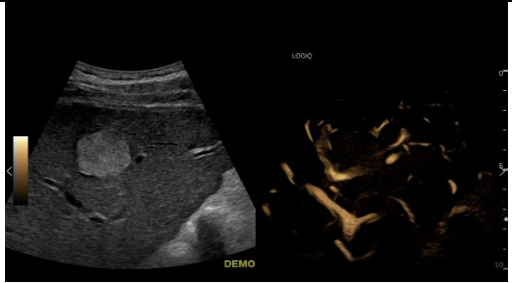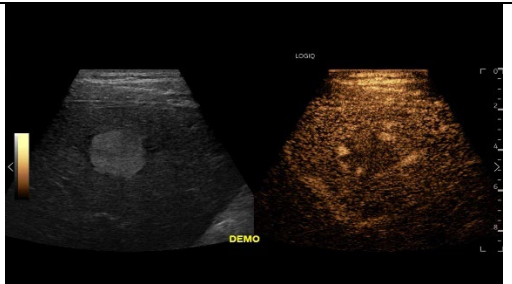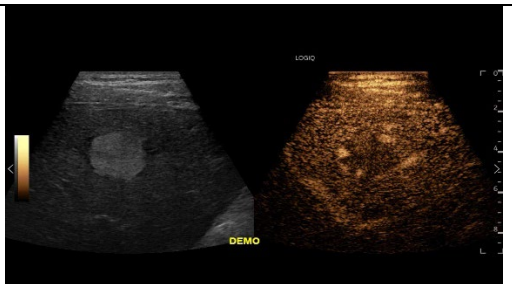imaging should be performed within the approved indications for use of the contrast.
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Abdomen	C1-6-D liver lesion Volume Navigation fusion with CT image	
Abdomen	C1-6-D B-Mode CINE liver lesion Volume Navigation fusion with CT image	
Abdomen	C2-9-D B-Flow with Advanced SRI CINE of kidney	
Abdomen	C2-9-D B-Flow with Advanced SRI in Dual visualization of kidney	

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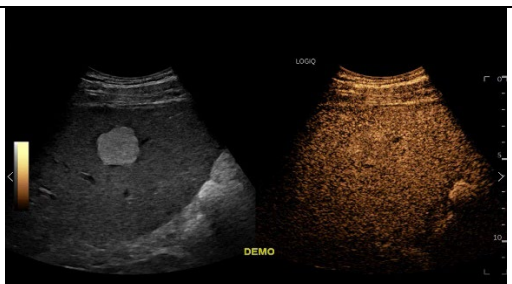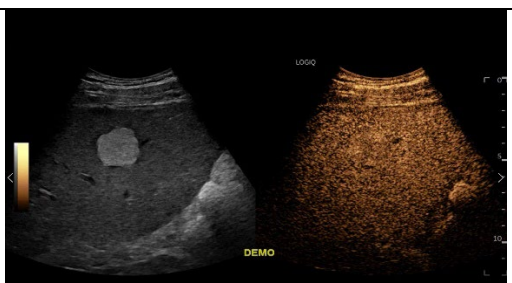
EXAM	IMAGE DESCRIPTION	IMAGE
CEUS	Contrast Enhanced Ultrasound (CEUS) arterial phase liver lesion CINE L2-9-D	
CEUS	CEUS late arterial to early portal-venous phase CINE L2-9-D	
CEUS	CEUS late phase liver lesion CINE C1-6-D	
CEUS	C1-6-D B-Mode with Advanced SRI liver lesion with CTO active	

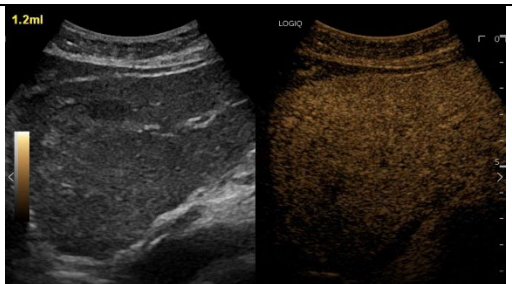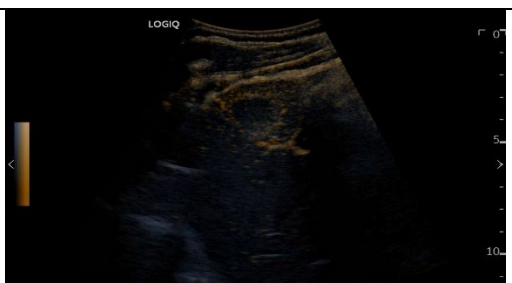|		
CEUS	C1-6-D B-Flow with Advanced SRI Dual visualization liver lesion	
CEUS	CEUS Portal Venous phase liver lesion L2-9-D	
CEUS	CEUS beginning late phase CINE liver lesion L2-9-D	
CEUS	CEUS late phase CINE liver lesion C2-9-D	
CEUS	CEUS late phase CINE liver lesion C2-9-D	

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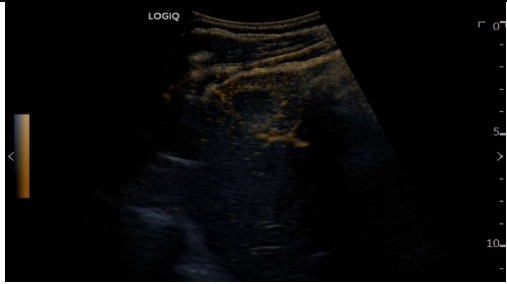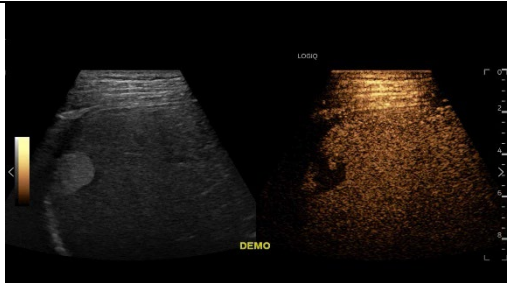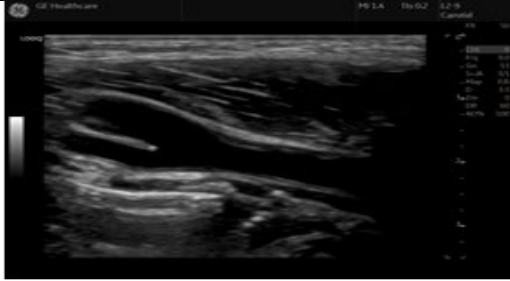JB19029XX

CEUS	L2-9-D Seven minutes post CEUS CINE MVI with Radiant*flow* of liver lesion	
CEUS	C2-9-D B-Mode CINE liver lesion	
CEUS	CEUS late phase liver lesion CINE C2-9-D	
CEUS	C1-6-D B-Mode with Advanced SRI liver lesion with CTO	
CEUS	CEUS arterial phase Hybrid Visualization CINE liver lesion C1-6-D	

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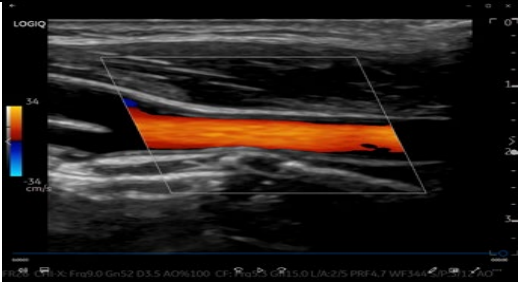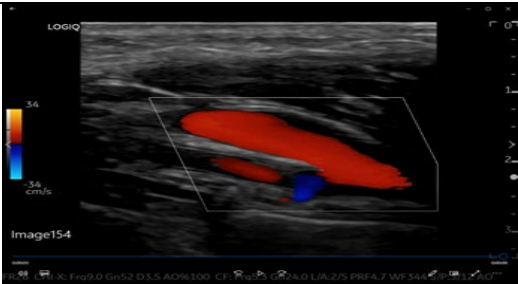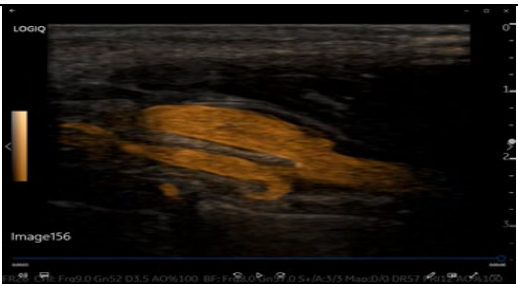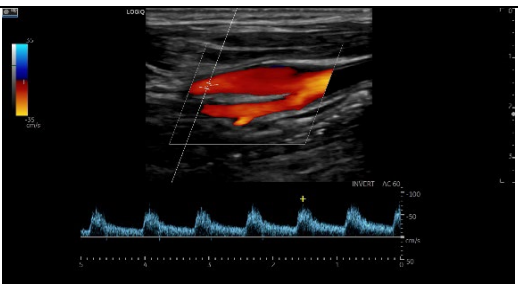JB19029XX
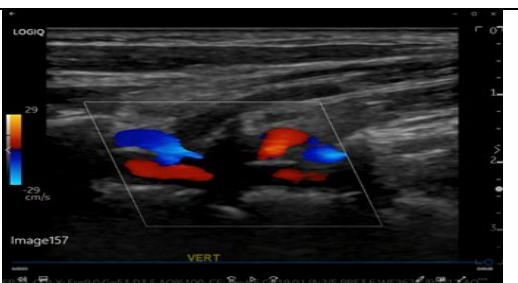
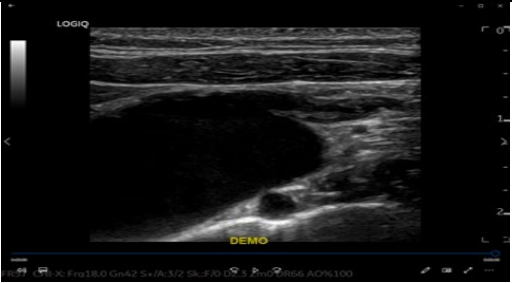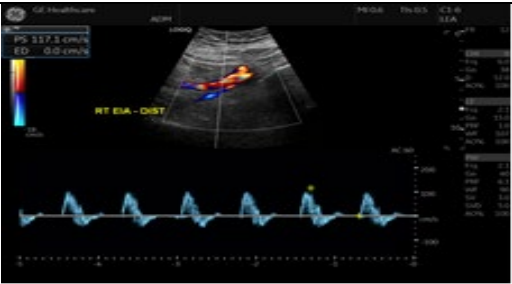| CEUS	CEUS late arterial phase Hybrid Visualization CINE liver lesion C1-6-D	
CEUS	CEUS late phase CINE liver lesion L2-9-D	

EXAM	IMAGE DESCRIPTION	IMAGE
Vascular	L2-9-D B-Mode with Advanced SRI Common Carotid artery bifurcation	
Vascular	L2-9-D Carotid artery with Color Flow CINE demonstrating Auto Doppler Assist	

Vascular	L2-9-D Carotid artery with Color Flow CINE	
Vascular	L2-9-D Carotid artery bifurcation with Color Flow Cine	
Vascular	L2-9-D B-Flow with Advanced SRI Hybrid visualization Carotid artery bifurcation CINE	
Vascular	L2-9-D Internal Carotid artery with Color Flow and PW Doppler	
Vascular	L2-9-D Vertebral artery with Color Flow CINE	
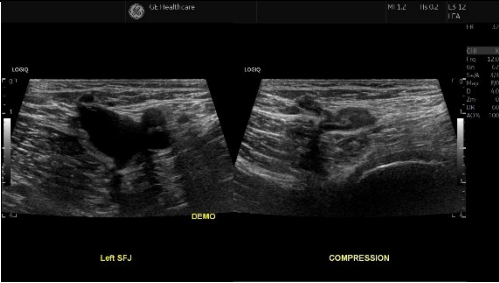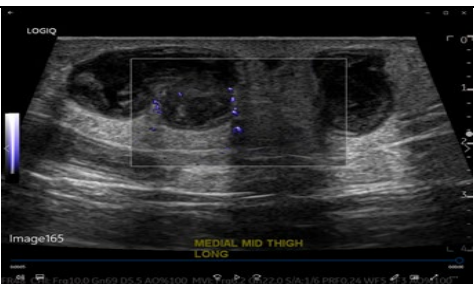
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Vascular	L8-18i-D B-Mode with Advanced SRI CINE of Jugular vein	
Vascular	C1-6-D Iliac artery Color Flow and PW Doppler	
Vascular	L2-9-D Femoral artery Color Flow with Radiant*flow* and PW Doppler	
Vascular	L2-9-D Anterior Tibial artery Color Flow with Radiant*flow* and PW Doppler	
Vascular	L2-9-D Anterior Tibial artery Color Flow with Radiant*flow* and PW Doppler	

Vascular	L3-12-D B-Mode with Advanced SRI in lower extremity venous Dual view	
Vascular	L3-12-D B-Mode with Advanced SRI greater saphenous vein	
Vascular	L3-12-D B-Mode with Advanced SRI in Virtual Convex of superficial vein	
Vascular	L3-12-D MVI CINE of superficial vein	
Vascular	L6-24-D B-Mode CINE of superficial vein lower extremity	

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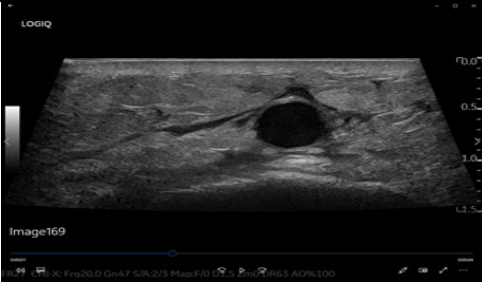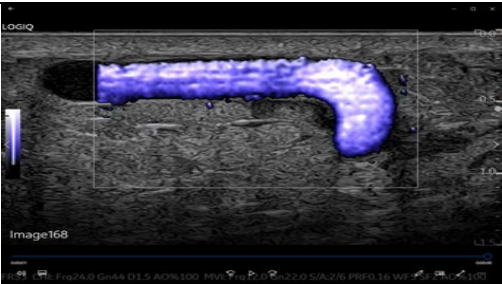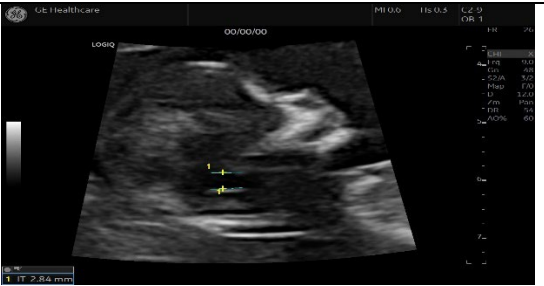JB19029XX

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Vascular	L6-24-D B-Mode CINE of superficial vein lower extremity	
Vascular	L6-24-D MVI with Radiant*flow* CINE of superficial vein lower extremity	

EXAM	IMAGE DESCRIPTION	IMAGE
OB	C1-6-D B-Mode with Advanced SRI Type 1 OB first trimester Cervix	
OB	C2-9-D Fetal profile first trimester OB B-Mode with SRI HD Type 2	

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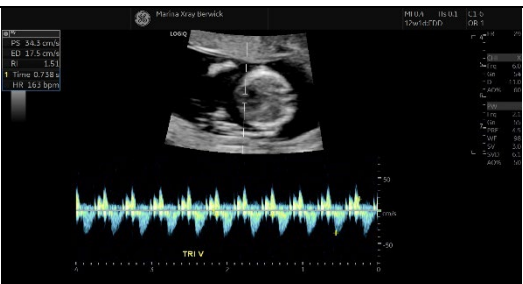JB19029XX

OB	C2-9-D Fetal Nuchal translucency first trimester OB B-Mode with SRI HD Type 2	
OB	C2-9-D Fetal Intracranial translucency first trimester OB B-Mode with SRI HD Type 2	
OB	C2-9-D Fetal profile first trimester OB B-Mode with SRI HD Type 2	
OB	L2-9-D Fetal abdomen first trimester OB B-Mode with Advanced SRI Type 1	
OB	C2-9-D Fetal profile first trimester B-Mode with Advanced SRI Type 2	

OB	C2-9-D Fetal femur for measurement B-Mode with Advanced SRI Type 2	
OB	C2-9-D Fetal Echo 3 vessel view B-Mode with Advanced SRI Type 2	
OB	C2-9-D Fetal Echo Right Ventricular Outflow Tract view B-Mode with Advanced SRI Type 2	
OB	C1-6-D first trimester OB Tricuspid Valve PW Doppler	
OB	C2-9-D Fetal Echo Left Ventricular Outflow Tract view B-Mode with Advanced SRI Type 2	

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OB	C2-9-D Fetal Echo B-Mode with Advanced SRI Type 2 CINE through heart to stomach	
OB	L2-9-D first trimester Heart Color Flow with Radiant*flow*	
OB	C2-9-D Fetal Echo four chamber Heart B-Mode with Advanced SRI Type 2	
OB	C2-9-D B-Mode with Advanced SRI Type 2 Fetal humerus for measurement	
OB	C2-9-D Fetal Echo four chamber Heart B-Mode with Advanced SRI Type 2 CINE	

OB	C2-9-D B-Mode with Advanced SRI Type 2 fetal profile for NT measurement	
OB	C2-9-D Fetal Echo Aortic Arch view with Color Flow with Radiant*flow*	
OB	C2-9-D B-Mode with Advanced SRI Type 2 first trimester fetal profile CINE	
OB	C2-9-D B-Mode with Advanced SRI Type 1 fetal Heart CINE	
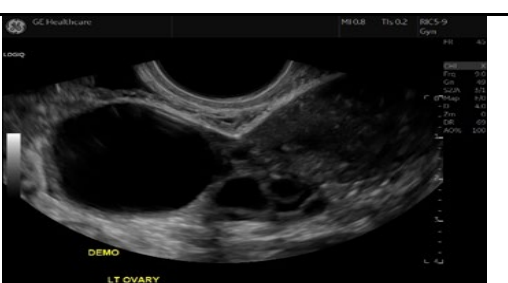
EXAM	IMAGE DESCRIPTION	IMAGE
GYN	C1-6-D B-Mode with Advanced SRI Type 2 Uterus and full bladder	
GYN	C1-6-D B-Mode with Advanced SRI Type 2 Uterus and full bladder	
GYN	RIC5-9-D B-Mode with Advanced SRI Type 2 Uterus Endometrium	
GYN	RIC5-9-D B-Mode with Advanced SRI Type 1 Uterus and Endometrium	

GYN	RIC5-9-D B-Mode with Advanced SRI Type 2 Uterus	
GYN	RIC5-9-D B-Mode with Advanced SRI Type 1 Uterus	
GYN	3D VCI Omniview Uterus RIC5-9-D	
GYN	RIC5-9-D B-Mode with Advanced SRI Type 2 Uterus CINE	
GYN	RIC5-9-D B-Mode with Advanced SRI Type 2 left ovary mass	
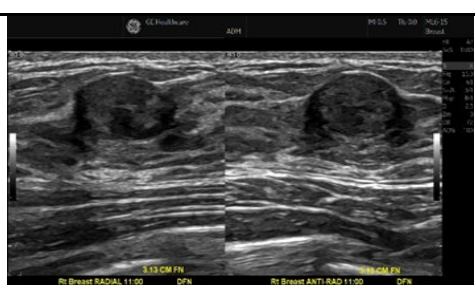
GYN	RIC5-9-D B-Mode with Advanced SRI Type 2 left Adnexa	

EXAM	IMAGE DESCRIPTION	IMAGE
Breast	ML6-15-D B-Mode with Advanced SRI dense breast	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion	

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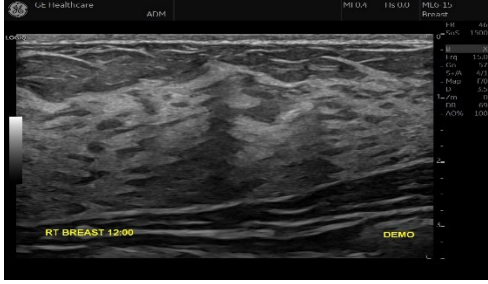JB19029XX

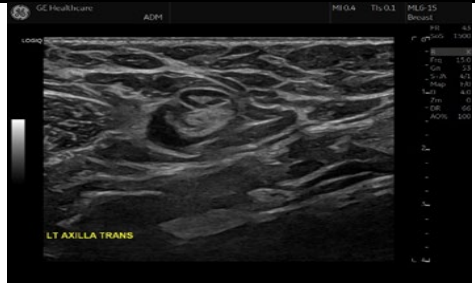|		
Breast	ML6-15-D B-Mode with Advanced SRI axillary lymph node	
Breast	ML6-15-D Color Flow with Radiant*flow* axillary lymph node	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion longitudinal view	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion transverse view	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion Dual view Radial and Anti-Radial	
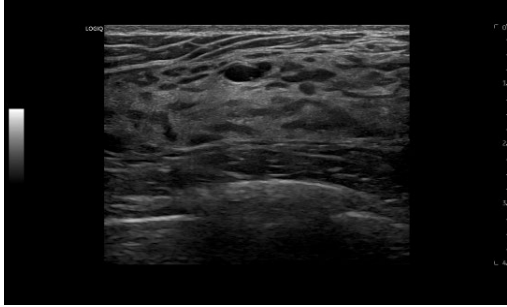
Breast	L3-12-D B-Mode CINE breast lesion in dense tissue	
Breast	Breast lesion LOGIQView ML6-15-D	
Breast	ML6-15-D B-Mode image breast lesion	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion	
Breast	ML6-15-D B-Mode with Advanced SRI breast lesion CINE	

Breast	ML6-15-D B-Mode dense breast tissue	
Breast	ML6-15-D B-Mode with Advanced SRI breast nipple view	
Breast	ML6-15-D B-Mode breast lymph node view	
Breast	ML6-15-D Color Flow with Radiant*flow* in breast lesion	
Breast	ML6-15-D MVI with Radiant*flow* in breast lesion	

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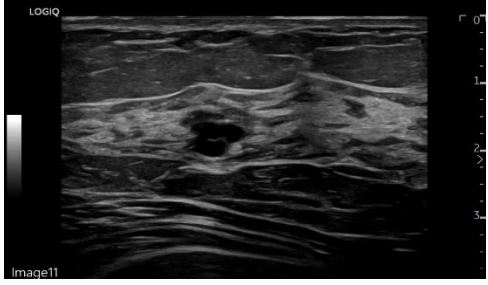JB19029XX

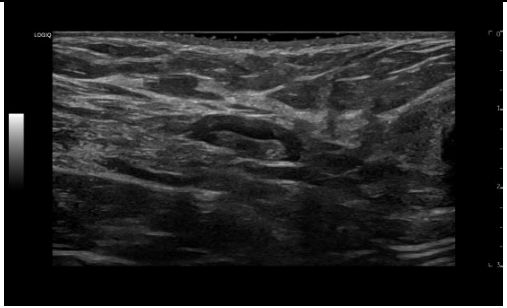| Breast	ML6-15-D B-Mode with Advanced SRI breast lesion	
Breast	ML6-15-D B-Mode with Advanced SRI Dual view of breast lesion in longitudinal and transverse views	
Breast	ML6-15-D B-Mode with Advanced SRI breast nipple view	
Breast	ML6-15-D PDI in Dual view with Digital mammogram	

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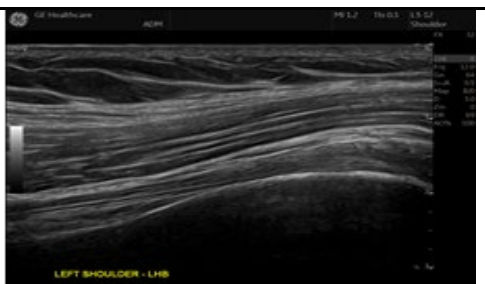
EXAM	IMAGE DESCRIPTION	IMAGE
MSK	L3-12-D B-Mode with Advanced SRI CINE Shoulder abduction	
MSK	ML6-15-D B-Mode with Advanced SRI Shoulder Biceps tendon	
MSK	L3-12-D B-Mode with Advanced SRI Shoulder Subscapular view	
MSK	L3-12-D B-Mode with Advanced SRI Shoulder Long Head of Biceps rupture	

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MSK	ML6-15-D B-Mode Shoulder Subscapular view	
MSK	L3-12-D B-Mode with Advanced SRI Shoulder Supraspinatus view	
MSK	L3-12-D B-Mode with Advanced SRI shoulder Long Head of the Biceps	
MSK	L3-12-D B-Mode with Advanced SRI shoulder Supraspinatus view	
MSK	L3-12-D B-Mode with Advanced SRI shoulder Supraspinatus view	

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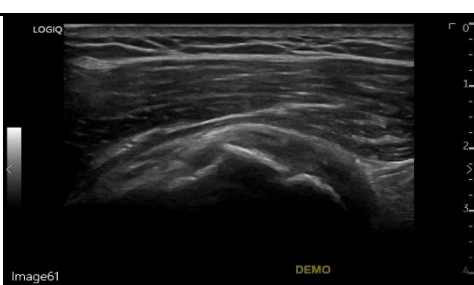
MSK	ML6-15-D B-Mode Shoulder Subscapularis view	
MSK	L3-12-D B-Mode Shoulder Supraspinatus view	
MSK	ML6-15-D B-Mode Shoulder Supraspinatus view	
MSK	ML6-15-D B-Mode Shoulder Supraspinatus view	
MSK	ML6-15-D B-Mode Shoulder Bicep view	

MSK	L3-12-D B-Mode Shoulder Bursa	
MSK	L3-12-D B-Mode Shoulder Supraspinatus	
MSK	ML6-15-D B-Mode Shoulder Subscapularis	
MSK	ML6-15-D B-Mode with Advanced SRI CINE Shoulder Supraspinatus view	
MSK	L3-12-D B-Mode CINE Shoulder Abduction	

MSK	ML6-15-D B-Mode Shoulder Supraspinatus	
MSK	L3-12-D B-Mode Shoulder Supraspinatus Anterior	
MSK	ML6-15-D B-Mode Shoulder Supraspinatus absent	
MSK	ML6-15-D B-Mode Shoulder Cuff	
MSK	ML6-15-D B-Mode Shoulder Supraspinatus	

MSK	L3-12-D B-Mode Shoulder Anterior Pouch	
MSK	ML6-15-D B-Mode Shoulder Bursa	
MSK	L6-24-D B-Mode with Virtual Convex Shoulder Supraspinatus	
MSK	L3-12-D B-Mode Acromio-Clavicular Joint	
MSK	ML6-15-D B-Mode Shoulder Supraspinatus	

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MSK	L6-24-D B-Mode Acromio-Clavicular Joint	
MSK	ML6-15-D B-Mode Acromio-Clavicular Joint	
MSK	ML6-15-D B-Mode Shoulder Biceps	
MSK	ML6-15-D PDI image Elbow Common Flexor Origin	
MSK	ML6-15-D B-Mode with Advanced SRI in Virtual Convex Elbow anterior joint	

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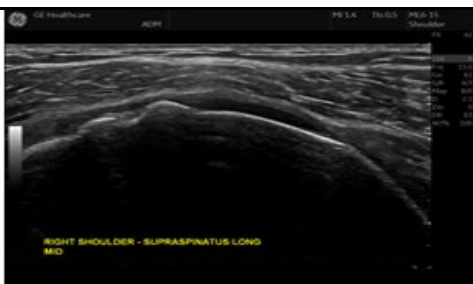JB19029XX
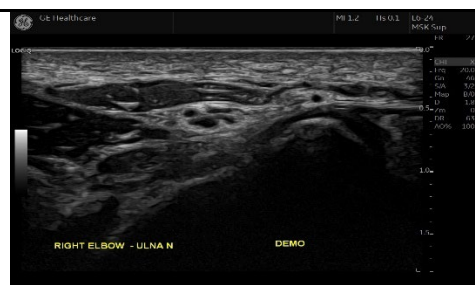
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MSK	L6-24-D B-Mode with Advanced SRI Elbow Common Flexor Origin	
MSK	ML6-15-D B-Mode Elbow Common Extensor Tendon	
MSK	ML6-15-D B-Mode with Advanced SRI in Virtual Convex Elbow anterior joint image	
MSK	ML6-15-D B-Mode Elbow Anterior Biceps	
MSK	ML6-15-D B-Mode Elbow Anterior Biceps	
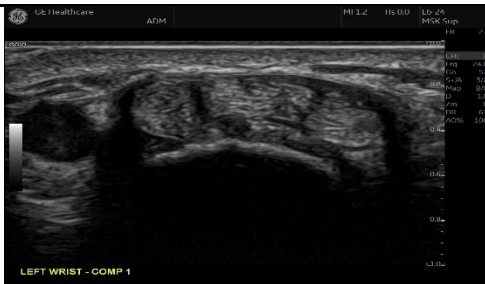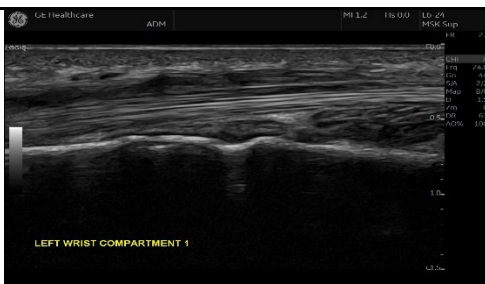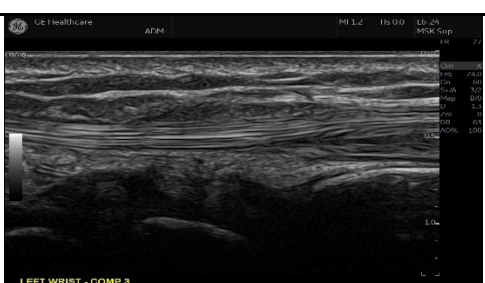
MSK	ML6-15-D B-Mode CINE Elbow Anterior Biceps	
MSK	L6-24-D B-Mode Elbow lateral ligament complex	
MSK	L6-24-D B-Mode Elbow Triceps insertion	
MSK	L6-24-D B-Mode Elbow Common Extensor Origin	
MSK	L6-24-D B-Mode Elbow Ulnar nerve	
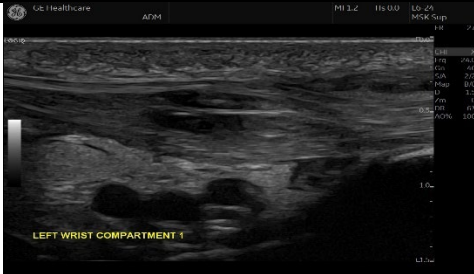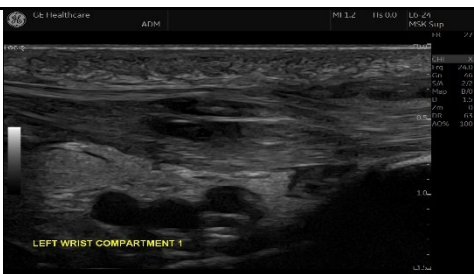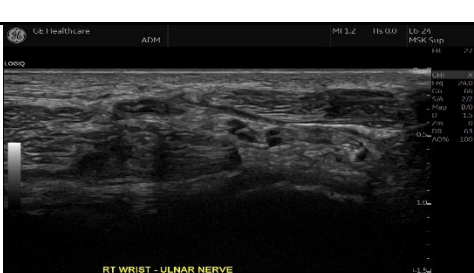
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MSK	L6-24-D B-Mode Wrist Median nerve	
MSK	L6-24-D B-Mode Wrist Compartment 1	
MSK	L6-24-D B-Mode Wrist Compartment 1	
MSK	L6-24-D B-Mode wrist Flexor retinaculum	
MSK	L6-24-D B-Mode wrist Compartment 3	

MSK	L6-24-D B-Mode Wrist Median nerve	
MSK	L6-24-D B-Mode Wrist Compartment 1	
MSK	L6-24-D B-Mode Wrist Compartment 1	
MSK	L6-24-D Color Flow with Radiant*flow* Wrist Compartment 1	
MSK	L6-24-D B-Mode Wrist Ulnar nerve	

MSK	L6-24-D B-Mode Wrist Flexor Carpi Radialis	
MSK	L6-24-D B-Mode Wrist Flexor Carpi Radialis	
MSK	L6-24-D B-Mode Wrist Flexor Digitorum superficialis	
MSK	L6-24-D B-Mode Wrist Ulnar nerve	
MSK	ML6-15-D B-Mode with Advanced SRI Wrist Volar Flexor Retinaculum	
MSK	L6-24-D B-Mode Wrist Compartment 2	
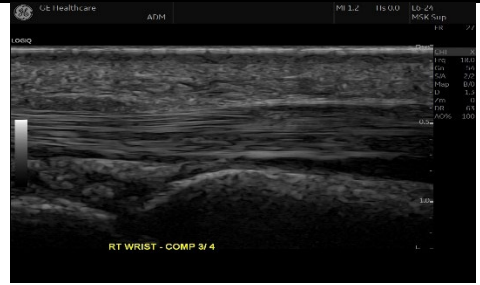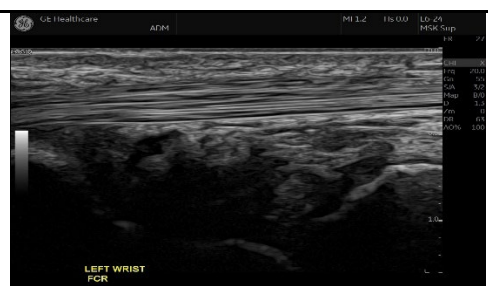
MSK	L6-24-D B-Mode Wrist Ulnar-Carpal joint	
MSK	L6-24-D B-Mode Wrist Volar Median nerve	
MSK	L6-24-D B-Mode Wrist Compartment 4	
MSK	L6-24-D B-Mode Wrist Volar Median nerve	
MSK	L6-24-D B-Mode Wrist Compartment 3-4	
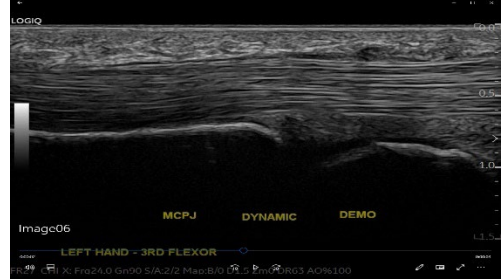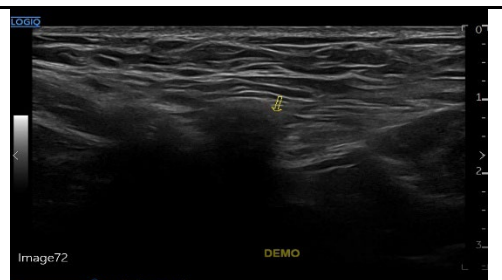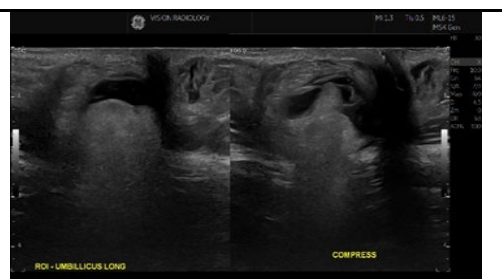
MSK	L6-24-D B-Mode Wrist Compartment 3-4	
MSK	L6-24-D B-Mode with Advanced SRI Wrist Compartment 4-5	
MSK	L6-24-D B-Mode Wrist Compartment 2	
MSK	L6-24-D B-Mode Wrist Flexor Carpi Radialis	
MSK	L6-24-D B-Mode CINE Wrist Compartment 1	

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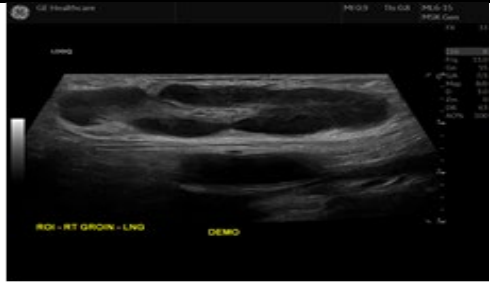
MSK	L6-24-D B-Mode with Advanced SRI CINE Wrist MCPJ 3rd Flexor	
MSK	ML6-15-D B-Mode Umbilicus Dual view with and without patient strain	
MSK	ML6-15-D B-Mode Umbilicus	
MSK	ML6-15-D B-Mode with Advanced SRI CINE with CTO active Inguinal Canal	
MSK	ML6-15-D B-Mode Umbilicus Dual view with and without probe compression	

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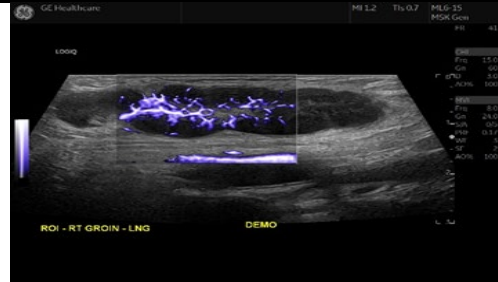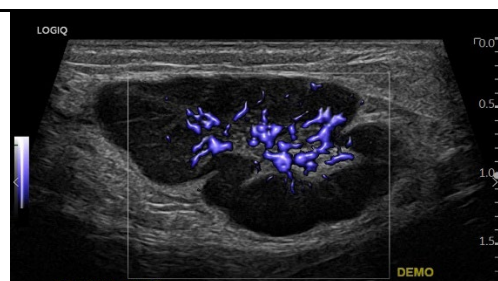
MSK	ML6-15-D B-Mode with Advanced SRI CINE Inguinal Canal	
MSK	ML6-15-D B-Mode using Virtual Convex Groin image	
MSK	ML6-15-D B-Mode Groin image	
MSK	ML6-15-D B-Mode Groin image	
MSK	ML6-15-D MVI with Radiant*flow* CINE Groin image	

MSK	ML6-15-D MVI with Radiant*flow* Groin image	
MSK	ML6-15-D MVI with Radiant*flow* Groin image	
MSK	L6-24-D B-Mode with Virtual Convex Groin image	
MSK	L6-24-D Color Flow with Radiant*flow* Groin image	
MSK	L6-24-D MVI with Radiant*flow* Groin image	

MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Gluteus Minimus	
MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Anterior joint	
MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Gluteus Minimus insert	
MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Gluteus Medius	
MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Trochanter Bursa	

MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Trochanter Bursa	
MSK	L3-12-D B-Mode Hip Gluteus Medius insert	
MSK	ML6-15-D B-Mode with Advanced SRI Hip Gluteus Medius	
MSK	ML6-15-D B-Mode with Advanced SRI Hip Lateral Gluteus Medius	
MSK	L3-12-D B-Mode Hip Gluteus Medius Insert	

MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Gluteus Medius Posterior	
MSK	ML6-15-D B-Mode CINE Shoulder Subdeltoid Bursa	
MSK	L3-12-D B-Mode Posterior Labrum	
MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Anterior Joint	
MSK	ML6-15-D B-Mode Hip Gluteus Medius Insert	

MSK	L3-12-D B-Mode with Advanced SRI in Virtual Convex Hip Anterior Joint	
MSK	L3-12-D B-Mode with CTO in Virtual Convex Hip Anterior Joint	
MSK	L3-12-D B-Mode Hip Gluteus Minimus Insert	
MSK	L3-12-D B-Mode Hip Anterior joint with Advanced SRI in Virtual Convex	
MSK	L3-12-D B-Mode Hip Anterior joint with Advanced SRI in Virtual Convex	

MSK	L3-12-D B-Mode Hip lateral Gluteus Minimus Insert	
MSK	L3-12-D B-Mode Hip with Advanced SRI lateral Gluteus Medius Insert	
MSK	ML6-15-D B-Mode Hip	
MSK	ML6-15-D B-Mode Hip Anterior with Advanced SRI	
MSK	ML6-15-D B-Mode Hip	

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MSK	ML6-15-D B-Mode Hip Gluteus Medius Lateral	
MSK	L3-12-D B-Mode in Virtual Convex with Advanced SRI Hip	
MSK	ML6-15-D B-Mode in Virtual Convex Hip Anterior Joint	
MSK	L3-12-D B-Mode in Virtual Convex with CTO Hip Anterior Joint	
MSK	ML6-15-D B-Mode with Advanced SRI Knee Quadriceps Tendon	

MSK	ML6-15-D B-Mode with CTO active Leg Medial Gastrocnemius	
MSK	ML6-15-D B-Mode LOGIQ View Leg Medial Gastrocnemius	
MSK	ML6-15-D B-Mode with CTO active in Virtual Convex Knee Popliteal Fossa	
MSK	ML6-15-D B-Mode in Virtual Convex with CTO active Leg Medial Gastrocnemius	
MSK	ML6-15-D B-Mode with Advanced SRI Achilles insert	
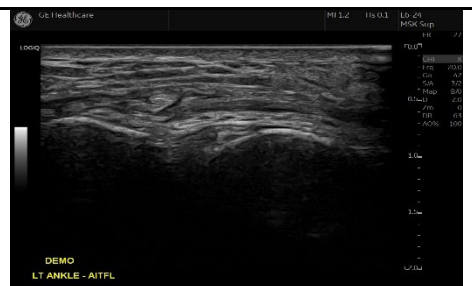
MSK	L6-24-D B-Mode Ankle Calcaneofibular ligament	
MSK	ML6-15-D B-Mode with Advanced SRI Knee MCL	
MSK	L6-24-D B-Mode Ankle Anterior Inferior Tibio-Fibular Ligament	
MSK	L6-24-D B-Mode Ankle Medial Tibial	
MSK	L6-24-D B-Mode Ankle Anterior Tibio-Fibular Ligament	
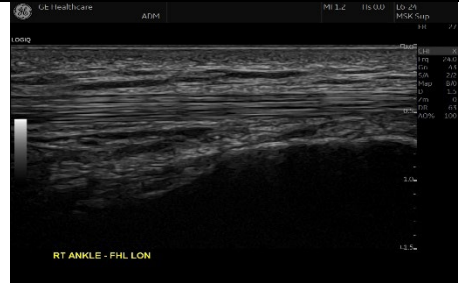
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MSK	L6-24-D B-Mode in Virtual Convex Ankle Extensor Digitorum Longus	
MSK	L6-24-D B-Mode Ankle Peroneus Brevis Tendon	
MSK	L6-24-D B-Mode Ankle Anterior Inferior Tibiofibular Ligament	
MSK	L6-24-D B-Mode Ankle Deltoid Ligament Complex Anterior	
MSK	L6-24-D B-Mode Ankle Deltoid Ligament Complex Mid	
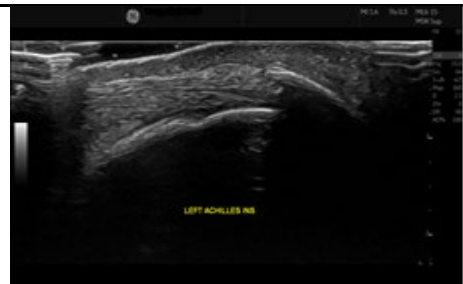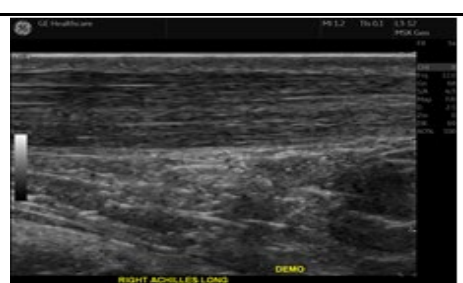
MSK	L6-24-D B-Mode Ankle Calcaneofibular Ligament	
MSK	ML6-15-D Ankle B-Mode Extensor Digitorum Longus	
MSK	L6-24-D Ankle B-Mode Flexor Hallucis Longus	
MSK	ML6-15-D Ankle B-Mode Achilles Insertion	
MSK	ML6-15-D Ankle B-Mode Achilles Insertion Medial	

MSK	L6-24-D Ankle B-Mode Lateral Peroneal Longus/Peroneal Brevis	
MSK	ML6-15-D Ankle B-Mode Achilles Insertion	
MSK	L6-24-D Ankle B-Mode Lateral Peroneal Longus/Peroneal Brevis	
MSK	L3-12-D Ankle B-Mode Achilles Longitudinal	
MSK	L3-12-D Ankle B-Mode Achilles Longitudinal	

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MSK	L6-24-D Ankle B-Mode Posterior Tibial Nerve	
MSK	ML6-15-D Foot B-Mode Metatarsal Phalangeal Joint	
MSK	ML6-15-D Foot B-Mode Metatarsal Phalangeal Joint	
MSK	ML6-15-D Foot B-Mode Metatarsal Phalangeal Joint	
MSK	ML6-15-D Dorsal Foot with Color Doppler	
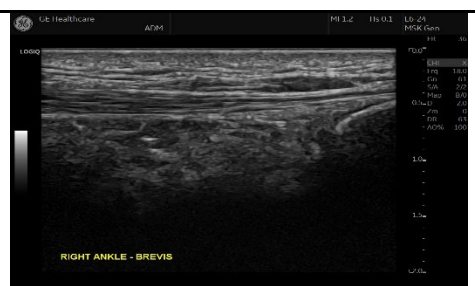
MSK	ML6-15-D Dorsal Foot lesion with MVI	
MSK	ML6-15-D Dorsal Foot lesion B-Mode	
MSK	Photo Assistant heel	
MSK	ML6-15-D Dorsal Foot B-Mode	
MSK	ML6-15-D Dorsal Foot B-Mode	

MSK	L3-12-D Foot B-Mode Plantar Fascia	
MSK	ML6-15-D Foot B-Mode Metatarsal Phalangeal Joint	
MSK	ML6-15-D Foot B-Mode Metatarsal Phalangeal Joint	
MSK	L6-24-D Ankle B-Mode Brevis Tendon	
MSK	L6-24-D Elbow Lateral Common Extensor Origin	

MSK	ML6-15-D Dorsal Foot B-Mode	
MSK	L6-24-D Cheek B-Mode cine Lateral to lip	
MSK	L6-24-D Cheek with MVI right and left comparison	
MSK	L6-24-D Cheek B-Mode Lateral to lip	

EXAM	IMAGE DESCRIPTION	IMAGE
Small Parts	Neck B-Mode with Advanced SRI Anterior Triangle ML6-15-D	
Small Parts	Neck Color Flow with Radiant*flow* Anterior Triangle ML6-15-D	
Small Parts	Neck Color Flow cine with Radiant*flow* in Lymph node L2-9-D	
Small Parts	Neck MVI cine capture with Radiant*flow* in Lymph node L8-18i-D	

Small Parts	Neck MVI cine with Radiant*flow* in Lymph node L8-18i-D	
Small Parts	Thyroid B-Mode in Virtual Convex using Advanced SRI L3-12-D	
Small Parts	Thyroid B-Mode in Virtual Convex using Advanced SRI ML6-15-D	
Small Parts	Thyroid B-Mode using Advanced SRI L3-12-D	
Small Parts	Thyroid B-Mode using Advanced SRI ML6-15-D	

Small Parts	Thyroid Isthmus B-Mode using Advanced SRI ML6-15-D	
Small Parts	L6-24-D Thyroid B-Mode in Virtual Convex using Advanced SRI	
Small Parts	Thyroid B-Mode using Advanced SRI L3-12-D	
Small Parts	Thyroid B-Mode using Advanced SRI L3-12-D	
Small Parts	Thyroid B-Mode using Advanced SRI L3-12-D	

Small Parts	Thyroid B-Mode in Virtual Convex using Advanced SRI L3-12-D	
Small Parts	Thyroid nodule Color Flow with Radiant*flow* CINE ML6-15-D	
Small Parts	Thyroid nodule MVI with Radiant*flow* ML6-15-D	
Small Parts	Thyroid nodule MVI with Radiant*flow* CINE ML6-15-D	
Small Parts	Thyroid nodule MVI with Radiant*flow* ML6-15-D	

Small Parts	Thyroid nodule MVI with Radiant*flow* CINE ML6-15-D	
Small Parts	Thyroid nodule B-Flow with Advanced SRI CINE ML6-15-D	
Small Parts	Thyroid nodule 2-D Shear Wave dual view with Quality Indicator ML6-15-D	
Small Parts	Thyroid nodule 2-D Shear Wave dual view with Quality Indicator ML6-15-D	
Small Parts	Scrotal B-Mode ML6-15-D	
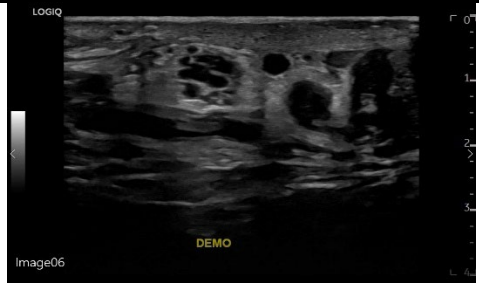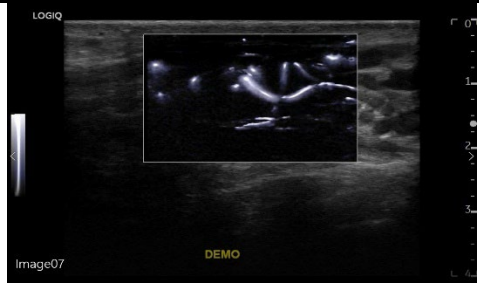
Small Parts	Scrotal B-Mode CINE L3-12-D	
Small Parts	Scrotal B-Mode using Advanced SRI L3-12-D	
Small Parts	Scrotal B-Mode ML6-15-D	
Small Parts	CINE image Scrotal with MVI and Radiant*flow* L3-12-D	
Small Parts	CINE image Scrotal with MVI and Radiant*flow* L3-12-D	

Small Parts	Scrotal B-Mode CINE using Advanced SRI L3-12-D	
Small Parts	Scrotal MVI CINE using Radiant*flow* L3-12-D	
Small Parts	Scrotal B-Mode ML6-15-D	
Small Parts	Scrotal B-Mode using Advanced SRI ML6-15-D	
Small Parts	Scrotal B-Mode using Advanced SRI ML6-15-D	

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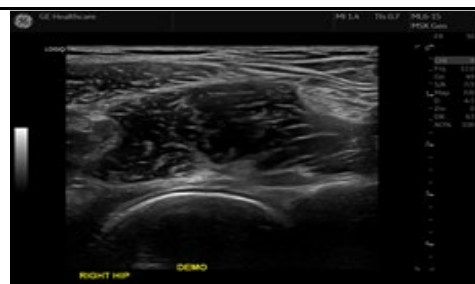JB19029XX

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EXAM	IMAGE DESCRIPTION	IMAGE
Pediatric	Neonatal Brain B-Mode using CTO and Advanced SRI C3-10-D	
Pediatric	Neonatal Brain B-Mode using Advanced SRI C3-10-D	
Pediatric	Neonatal Brain B-Mode using CTO and Advanced SRI C3-10-D	
Pediatric	Neonatal Brain using Advanced SRI C3-10-D	

Pediatric	Neonatal Brain B-Mode using CTO and Advanced SRI C3-10-D	
Pediatric	Neonatal Brain B-Mode using CTO and Advanced SRI C3-10-D	
Pediatric	Neonatal Brain B-Flow using Advanced SRI CINE C2-9-D	
Pediatric	Pediatric appendix B-Mode using Advanced SRI and Virtual Convex L2-9-D	
Pediatric	Pediatric appendix B-Mode using Advanced SRI and Virtual Convex L2-9-D	

Pediatric	Pediatric appendix B-Mode using Advanced SRI and Virtual Convex L2-9-D	
Pediatric	Pediatric appendix with Color Flow and Virtual Convex L2-9-D	
Pediatric	Pediatric Kidney B-Mode using CTO and Advanced SRI C2-9-D	
Pediatric	Pediatric Kidney B-Mode with Advanced SRI C2-9-D	
Pediatric	Pediatric Kidney Dual view B-Mode and PDI with Radiant*flow* CINE C2-9-D	

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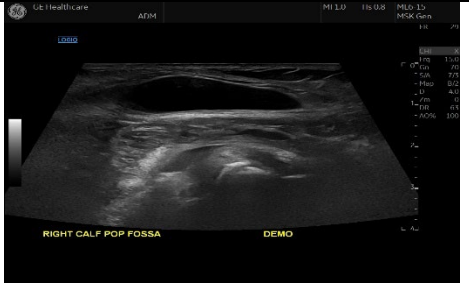JB19029XX

Pediatric	Neonatal Kidney B-Mode with Advanced SRI C3-10-D	
Pediatric	Neonatal Kidney B-Mode with Advanced SRI C3-10-D	
Pediatric	Pediatric B-Mode Liver-Kidney interface using Advanced SRI C2-9-D	
Pediatric	Pediatric B-Mode Liver and IVC using Advanced SRI C2-9-D	
Pediatric	Pediatric B-Mode Aorta using CTO and Advanced SRI C2-9-D	

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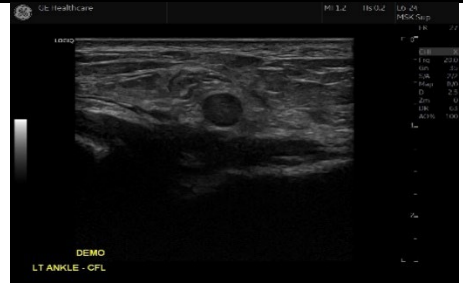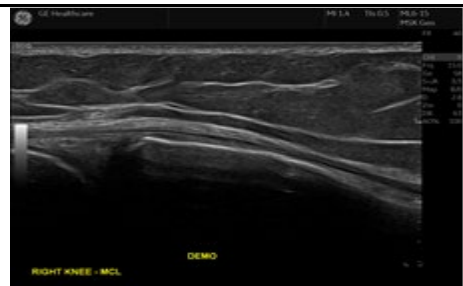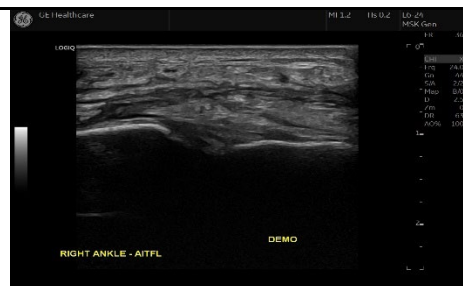JB19029XX
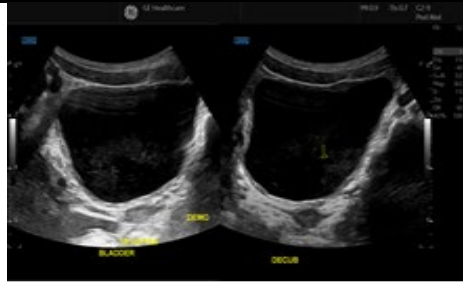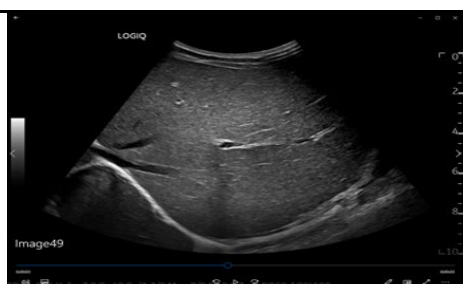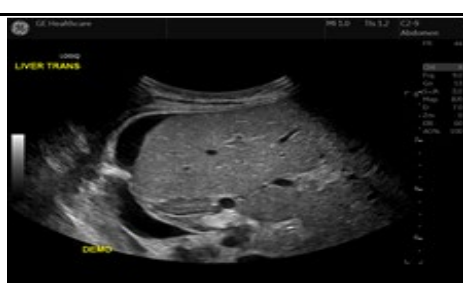
Pediatric	Pediatric Kidney with PDI in Renal vein and artery C2-9-D	
Pediatric	Pediatric Kidney with Advanced SRI C2-9-D	
Pediatric	Pediatric Kidney Color Flow with Radiant*flow* C2-9-D	
Pediatric	Pediatric Kidney B-Mode with Advanced SRI CINE C2-9-D	
Pediatric	Pediatric Kidney Color Flow with Radiant*flow* CINE C2-9-D	

Pediatric	Pediatric Bladder in side by side view with CTO and Advanced SRI C2-9-D	
Pediatric	Pediatric liver B-Mode with Advanced SRI C2-9-D	
Pediatric	Pediatric liver B-Mode with Advanced SRI CINE C2-9-D	
Pediatric	Pediatric liver B-Mode with Advanced SRI CINE C2-9-D	
Pediatric	Pediatric liver B-Mode with Advanced SRI C2-9-D	

Pediatric	Pediatric liver Color Flow with Radiant*flow* and Doppler of Portal Vein C2-9-D	
Pediatric	Pediatric liver Color Flow with Radiant*flow* and Doppler of Hepatic Artery C2-9-D	
Pediatric	Pediatric liver Color Flow with Radiant*flow* in Hepatic Artery C2-9-D	
Pediatric	Pediatric liver B-Flow with Advanced SRI CINE C2-9-D	
Pediatric	Pediatric Spleen B-Mode with Advanced SRI C1-6-D	
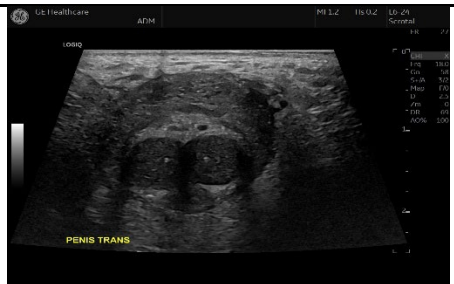
Pediatric	Left flank B-Mode CINE with Advanced SRI C1-6-D	
Pediatric	Bowel B-Mode CINE L2-9-D	
Pediatric	Pediatric Hip B-Mode CINE with Advanced SRI L3-12-D	
Pediatric	Pediatric Hip B-Mode CINE with Advanced SRI L3-12-D	
Pediatric	Pediatric Testicle B-Mode with Virtual Convex using Advanced SRI L6-24-D	

Pediatric	Pediatric Testicle B-Mode with Virtual Convex using Advanced SRI L6-24-D	
Pediatric	Pediatric Penis B-Mode with Virtual Convex using Advanced SRI L6-24-D	
Pediatric	Pediatric Testicle B-Mode L3-12-D	
Pediatric	Pediatric Testicle B-Mode with Advanced SRI L3-12-D	
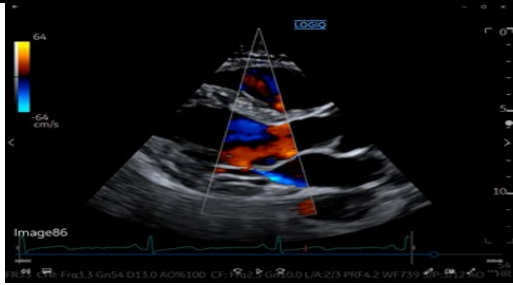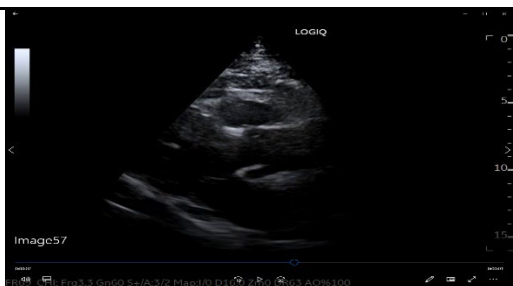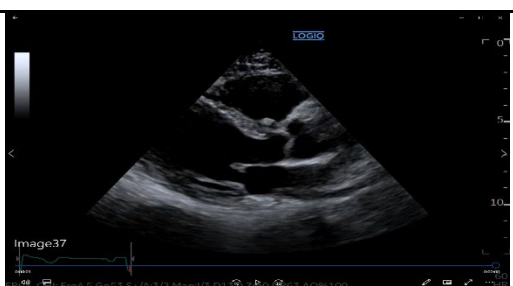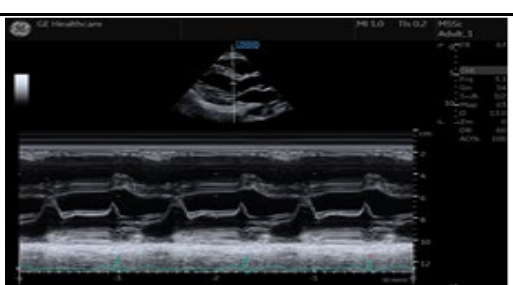
EXAM	IMAGE DESCRIPTION	IMAGE
Cardiac	Sub-costal 4 Chamber view B-Mode with CTO and Advanced SRI CINE using ECG and Respirometer M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI CINE M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI Zoom CINE M5Sc-D	
Cardiac	Parasternal Long Axis Color Flow CINE M5Sc-D	

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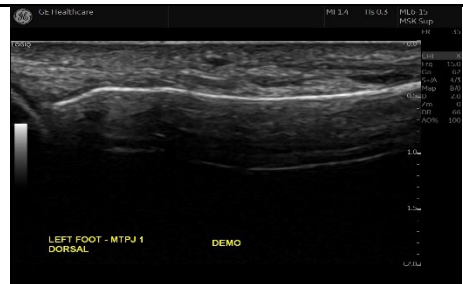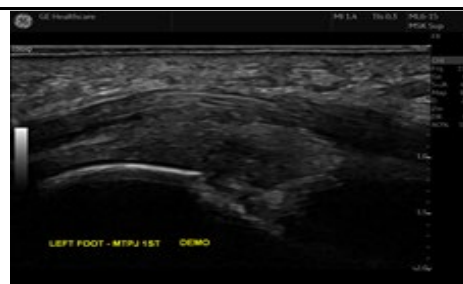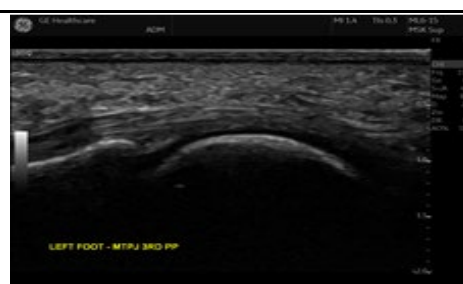JB19029XX

Cardiac	Parasternal Long Axis Color Flow in Mitral Valve CINE M5Sc-D	
Cardiac	Parasternal Long Axis Color Flow in Mitral Valve Zoom CINE M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI CINE M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Parasternal Long Axis with Advanced SRI M-Mode of Mitral Valve M5Sc-D	
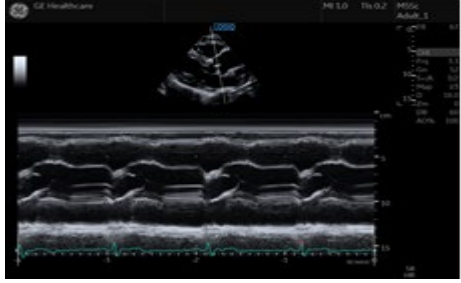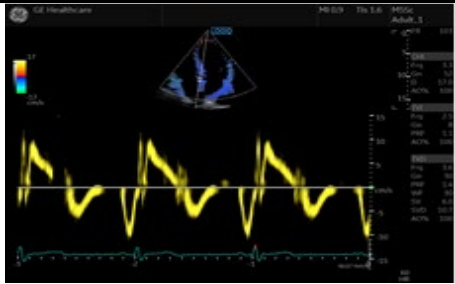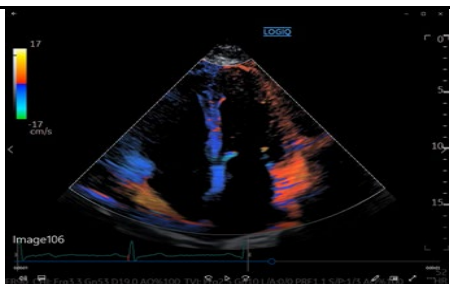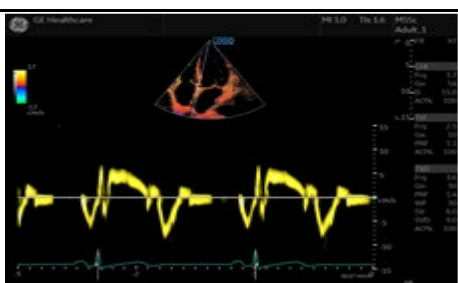
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Cardiac	Short Axis view of Aortic Valve B-Mode with Advanced SRI CINE M5Sc-D	
Cardiac	Apical 4 Chamber view with Color Flow CINE of Mitral Valve M5Sc-D	
Cardiac	Parasternal Color Flow in Mitral Valve CINE M5Sc-D	
Cardiac	Parasternal Color Flow and CW Doppler in Mitral Valve M5Sc-D	
Cardiac	Apical 4 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	

Cardiac	Parasternal Long Axis M-Mode of Aortic Valve M5Sc-D	
Cardiac	Apical 4 Chamber view TVI and TVD of Mitral Valve M5Sc-D	
Cardiac	Apical 4 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 4 Chamber view TVI CINE M5Sc-D	
Cardiac	Apical 4 Chamber view TVI and TVD of Mitral Valve M5Sc-D	

Cardiac	Apical 4 Chamber with Color Flow in Mitral Valve displaying ECG and Respirometer CINE M5Sc-D	
Cardiac	Parasternal Short Axis view B-Mode with Advanced SRI CINE M5Sc-D	
Cardiac	Apical 4 Chamber Color Flow in Mitral Valve CINE view M5Sc-D	
Cardiac	Apical 4 Chamber view TVI and TVD of Mitral Valve M5Sc-D	
Cardiac	Parasternal Long Axis view M-Mode of Aortic Valve with CTO M5Sc-D	
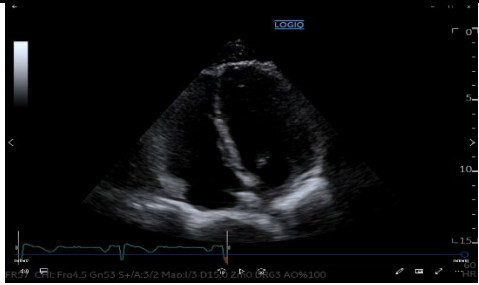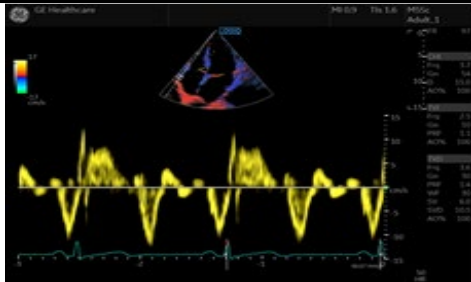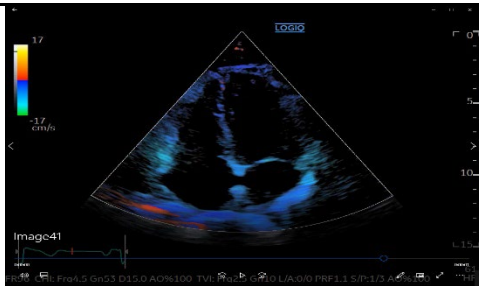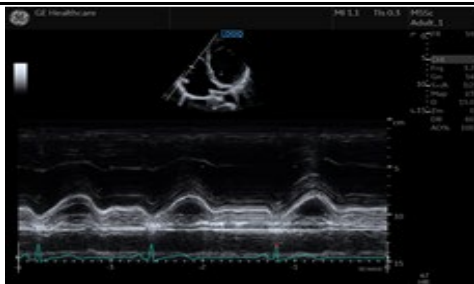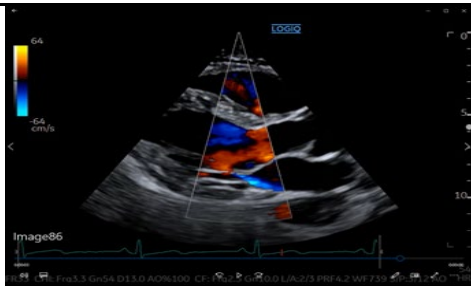
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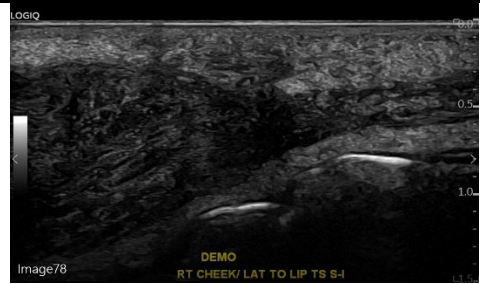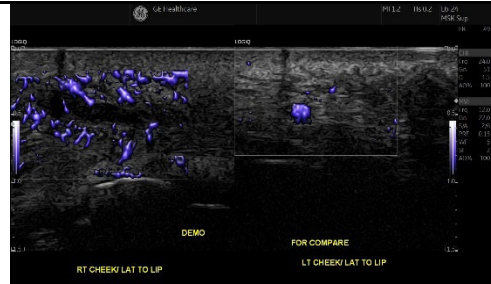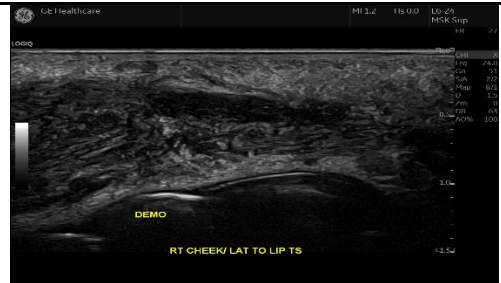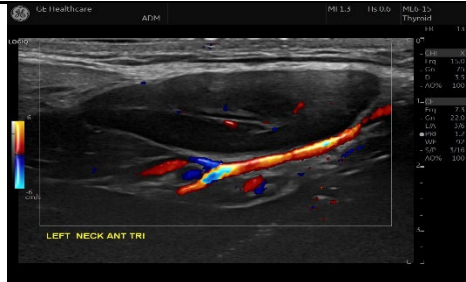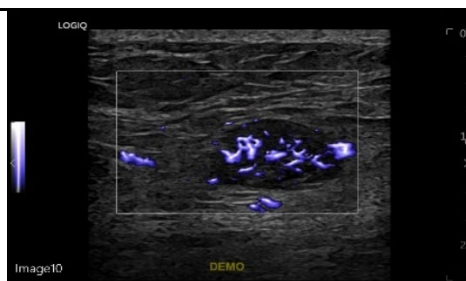JB19029XX

Cardiac	Apical 4 Chamber view TVI CINE M5Sc-D	
Cardiac	Parasternal Long Axis view with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 4 Chamber TVI and TVD of Mitral Valve M5Sc-D	
Cardiac	Parasternal Short Axis view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 4 Chamber view TVI and TVD of Mitral Valve M5Sc-D	

Cardiac	Apical 4 Chamber B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 4 Chamber view TVI and TVD Tricuspid Valve M5Sc-D	
Cardiac	Apical 4 Chamber view TVI CINE M5Sc-D	
Cardiac	Apical view M-Mode Right Ventricle M5Sc-D	
Cardiac	Parasternal Long Axis view Color Flow in Mitral and Aortic valves M5Sc-D	

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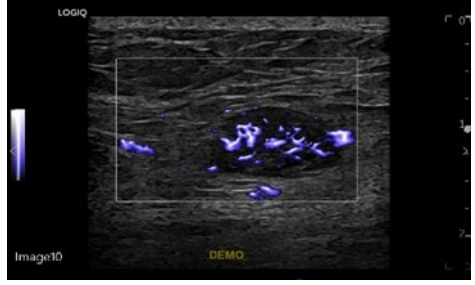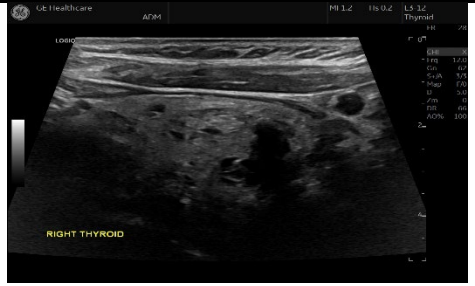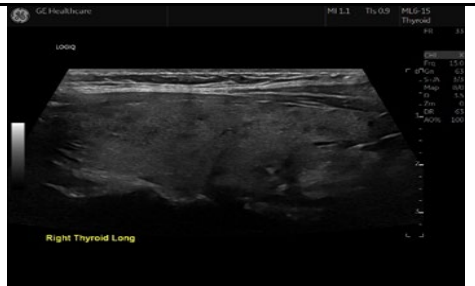JB19029XX

Cardiac	Apical 4 Chamber view TVI and TVD Mitral Valve M5Sc-D	
Cardiac	Apical 4 Chamber Color Flow CINE of Tricuspid Valve M5Sc-D	
Cardiac	Parasternal Color Doppler Tricuspid Valve M5Sc-D	
Cardiac	Apical 4 Chamber view Color Flow and CW Doppler in Mitral Valve M5Sc-D	
Cardiac	Apical 4 Chamber view Color Flow and Pulsed Wave Doppler in Mitral Valve M5Sc-D	
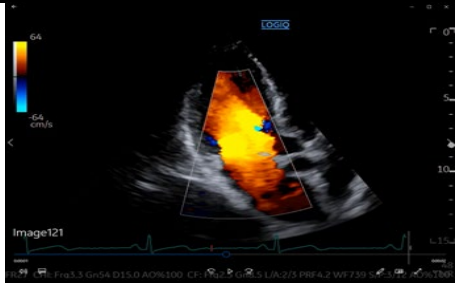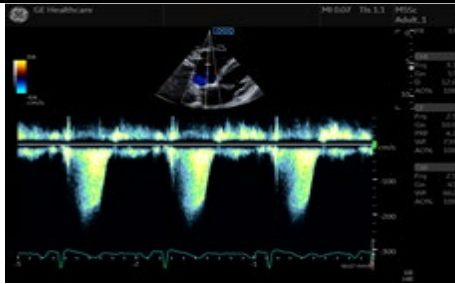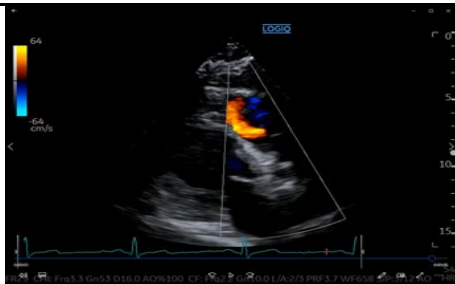
Cardiac	Sub-costal view IVC B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 4 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Sub-costal 4 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 2 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Apical 3 Chamber view B-Mode with Advanced SRI and CTO CINE M5Sc-D	
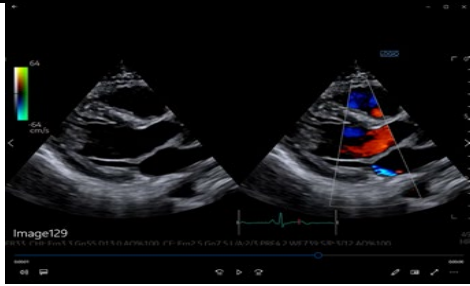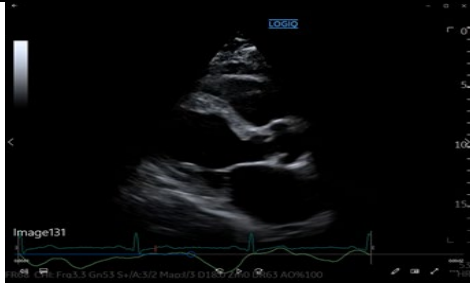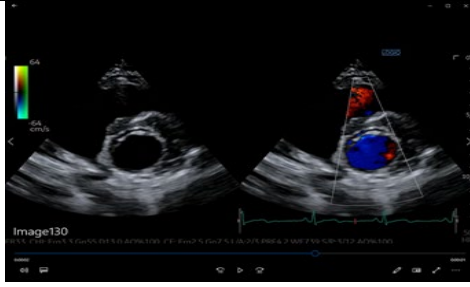
Cardiac	Apical 3 Chamber view Color Flow CINE M5Sc-D	
Cardiac	Sub-costal 4 Chamber view Color Flow and CW Doppler in Tricuspid Valve M5Sc-D	
Cardiac	Apical 4 Chamber view Color Flow CINE in Mitral Valve M5Sc-D	
Cardiac	Sub-costal 4 Chamber view with Color Flow CINE in Tricuspid Valve M5Sc-D	
Cardiac	Parasternal Long Axis view Color Flow CINE M5Sc-D	
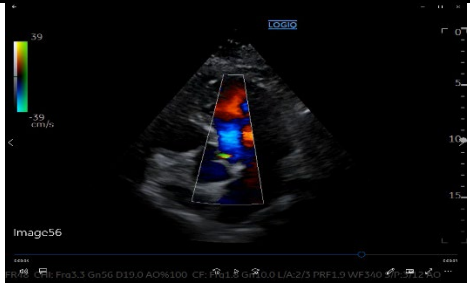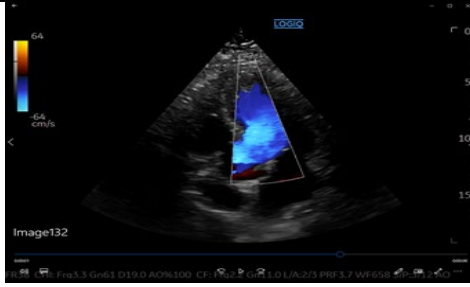
LOGIQ Fortis™ Demo Disc Guide

Cardiac	Right Ventricular Inflow View B-Mode with Advanced SRI and CTO CINE M5Sc-D	
Cardiac	Parasternal Long simultaneous Dual B-Mode and Color Flow CINE M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI and CTO displaying ECG and Respirometer M5Sc-D	
Cardiac	Parasternal Short Axis simultaneous Dual B-Mode and Color Flow CINE M5Sc-D	
Cardiac	Parasternal Long Axis B-Mode with Advanced SRI and CTO displaying ECG and Respirometer M5Sc-D	

LOGIQ Fortis™ Demo Disc Guide

Cardiac	Apical 5 Chamber view Color Flow in Aortic Valve CINE M5Sc-D	
Cardiac	Apical 5 Chamber view Color Flow in Aortic Valve CINE M5Sc-D	

Certificate of Completion

This certifies that

Ion Negru

has successfully completed

Proficient_UL Exam (DL)

Completed on 4/1/2021
(date format: mm/dd/yyyy)

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Proficient_UL Service Training (DL)

Completed on 3/26/2021

(date format: mm/dd/yyyy)

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Certificate of Completion

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Protecting Customer Data Is Everyone's Business

Completed on 12/31/2020

(date format: mm/dd/yyyy)

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UL Logiq E10s Service Training CBT

Completed on 4/1/2021

(date format: mm/dd/yyyy)

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LOGIQ Fortis™
Getting Started Guide

LOGIQ

ML6-15   C1-6
          AbdDetail   L2-9   C2-9   TGC

B

PATIENT

SCAN

REPORTS

END EXAM

UTILITY

MyPreset Shortcuts
- AbdDetail
- Renal
- Gyn

Image Shortcut
Res   Gen   Pen

Biopsy Kit
None

Colorize
Tint Map D

TGC

TGC Presets

100 %
Power Output

dB
Dynamic Range

MHz
Frequency

Near TGC
Far TGC

3D/4D   Contrast

Elasto   CHI

UGAP   MVI

V Nav   LOGIQ View

LOGIQ Apps

Abc

Clear

M   CW   PW   PDI TVI   CF   B Flow   B

L   R

P1   P2   Freeze

1	Power	11	TVI/PDI	21	Smart keys
2	Print keys	12	PW	22	Programmable keys
3	Freeze	13	CW	23	Rotary knobs
4	Dual screen	14	M-Mode	24	Digital TGCs
5	Auto Optimize	15	Measure	25	Probe selection
6	Depth/steer/sector width	16	Body pattern/ellipse	26	Touch panel
7	B-Mode Gain	17	ABC (comments)		
8	B-Flow	18	Clear		
9	Depth/zoom	19	Pointer		
10	Color	20	Trackball keys		

Connecting a probe

1. Turn latch horizontal for unlock position
2. Slide connector straight into port, cord side up. Turn latch vertical to lock. Image of probe will appear on TP after connected

Modality worklist

1. Select Patient icon on touch panel (26)
2. Select Worklist from the column on the left of the monitor
3. When the new window opens, select Query to refresh the worklist
4. Highlight the desire patient from the names in the top window using the pointer and press set (right trackball key) (20). Select "Transfer"
5. Confirm you have the correct patient selected, select scan category (ABD,OB, etc.) from the tabs
6. Exit the patient entry page by pressing Scan or select desired probe on the touch panel

Selecting probe and model/preset

1. Push the desired probe icon (25) to change from one transducer to another at any time
2. Select type of exam you would like to perform. For ex. Abd, Renal, etc.

Activating modes

1. B-Mode (7) is always active. To adjust the overall B-Mode brightness, turn the B-Mode button. Push down on B-Mode button to exit all modes
2. To activate B-Flow, select the B-Flow (8) button on console. To adjust brightness for B-Flow, turn the B-Mode button
3. Color Flow (10) – Push the CF button to activate color doppler
4. Push PDI/TVI (11) to activate power doppler
5. When using a cardiac probe and model, pushing the PDI/TVI button will activate TVI
6. M-Mode (14) – Push the M button to activate M-Mode. Turn M-Mode button to adjust overall M-Mode gain

Trackball keys (20)

Trackball key functions change depending on which mode is activated. The trackball icon on the lower right of the monitor displays functions as modes change. Use this icon for guidance for functionality.
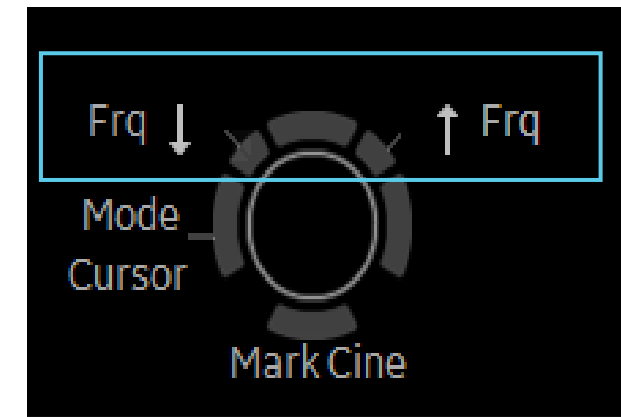
To configure the "Frq" keys, press Utility, System on Touch Panel, then User configurable key to choose the User Defined Trackball Set Key.

Note: *Use the CF button to adjust the overall gain when in Color doppler, PDI, TVI, and Color M-Mode.*

Print keys (2) programmable

1. Press P1 to store images to hard drive
2. Press P2 to print images on the thermal printer when one is present
3. Press Mark Cine then P1 to store a cine clip

Note: *Print destinations can be programmed by a GE representative upon install of the system*

Measurements (Generic)

1. Press "Measure" key (15), a caliper will appear on the screen
2. Use the trackball to move the caliper to the appropriate location, press "Set" either the left or right trackball key (20), a second caliper will appear

3. Place the second caliper in the appropriate location and press the "Set" right or left trackball key
4. Measurement window appears on the the screen and will display the distance between the two points. To activate 2nd set of calipers, push top trackball key. Additional measurements options available on upper trackball key
5. To remove measurement, select clear (18) button while the measure key is backlit green

6. When timeline is displayed on the screen select measure and select appropriate waveform for velocity measurement
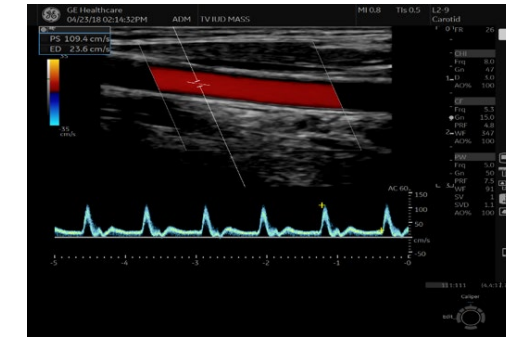
7. Pre-programmed measurements for each mode can be found on the touch panel when the measure key is active. These can be programmed per type of exam by your GE representative
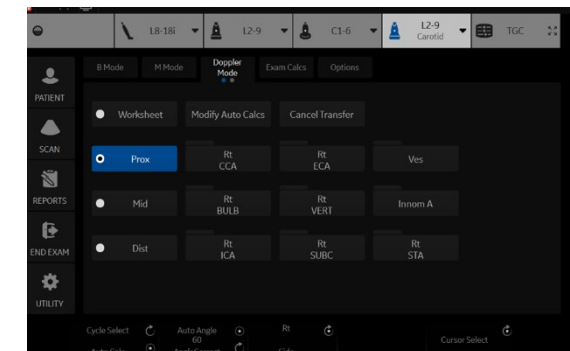
Annotating an image

1. Using digital or pop-out keyboard to annotate

- To add text to an image, type on A/N keyboard while text color is green. While green, the text can be moved to another part of the image with the trackball
- Push the right trackball key to set the comment. Text color will change from green to yellow after comment is set
- To edit or move a set text, move cursor to text, select right trackball key. Text will turn green and can be moved to desired location
- To display the digital keyboard when pushing the ABC button, Utility-System-General, check the box "Display Keyboard with Comment Button"

2. Using touch panel to annotate

- Select ABC (17) comment button
- Touch panel will display annotations. Select comment as needed
- Annotations are laid out on Touch panel with designated colors. Each color represents a set of comments which will replace each other. For ex. Select CCA then select ICA. Text will change to ICA since they are the same color code
- If annotation is designated as white in color, these annotations do not replace each other. Dots represent groupings for color blind users
- To customize comments, go to Utility, Comments on Touch Panel. Under Libraries, select the desired Library to edit comments. Up to 6 columns/ 5 rows. Each number followed by a word represents the color associated to that group i.e., 1 is blue group. Words within each group will replace each other. Small list will replace up to 12
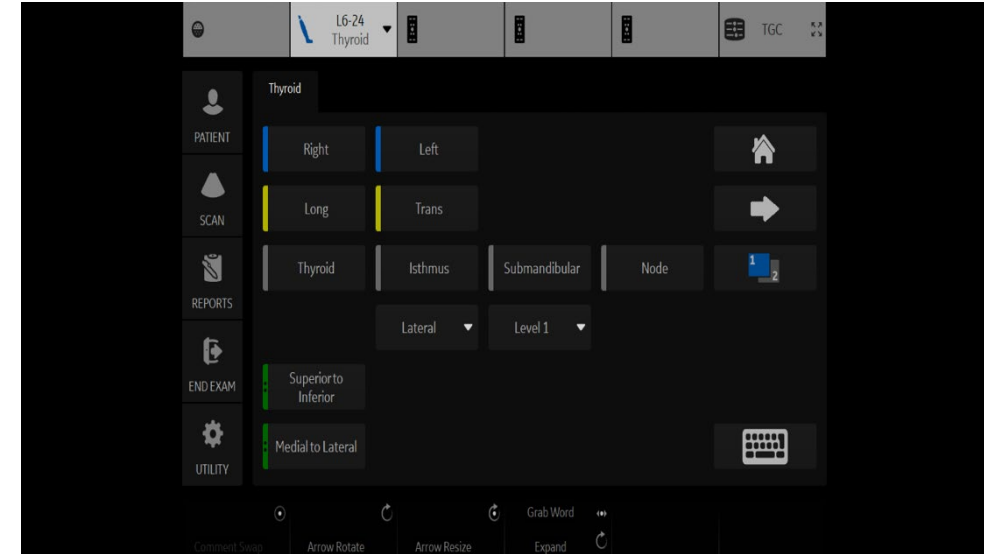
To select the comment cursor "home" position, move the cursor to the desired position. Push and hold the Home icon on the touch panel. The message "Set new home position" will be displayed on the bottom of the monitor.

Note: At anytime to remove entire text, measurements and arrows, hold down the clear button (18). Word delete (F10) located on keyboard can be used to remove the last text.

Split screen/Dual View

1. Press "L" on the Dual screen keys (4) to display the image on the left side of the screen
2. Press the "R" on the dual screen keys to display the image on the right side of the screen
3. To toggle between two images, press "L" or "R" dual screen keys or use trackball and set in the desired image
4. Press the "L" and "R" simultaneously to display the same image as live simultaneous side by side images
5. When using Color mode, simultaneous side by side will display color ROI on one side and B-Mode on the other
6. Press and hold "L" down to activate a quad screen. Use the "L" to toggle between the upper and lower images on the left. Use the "R" to toggle between the upper and lower images on the right
7. To return to single image, push down on the B-Mode (7) button

Biopsy Guide

1. Under B-Mode tab on the touch panel, select biopsy kit. The system will display the corresponding type of bracket and appropriate number of the guide
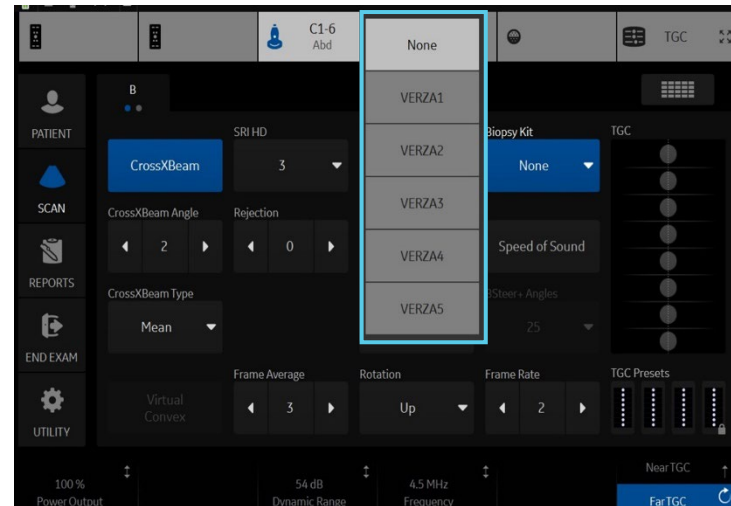
2. Select desired guide. Name and biopsy lines will show up on the screen. Be sure to match the number chosen on the screen with the number on the guide
3. To turn the biopsy guide off, select the "none" form the dropdown list

Note: The IC5-9 has two biopsy guides available, the disposable TR5 and the reusable RU guides. The reusable guide bracket is made of stainless steel. The disposable guide is white plastic and has 5 angle options. Please refer to the instructions found in the biopsy guide kit for cleaning and handling the guides.

B-Mode Optimization
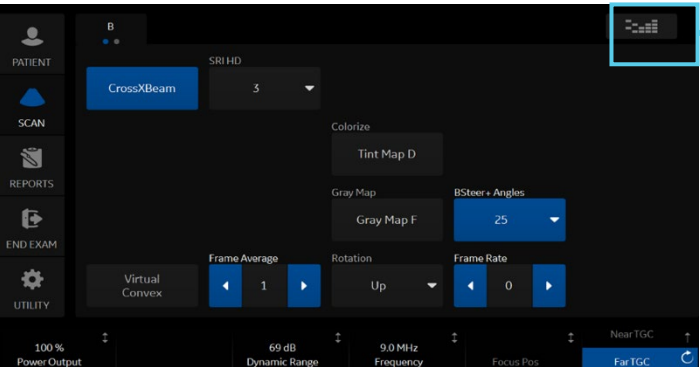
Commonly used parameters	Description
Digital TGC (24)	Use finger to swipe in direction of desired TGC curve. For finer adjustments, use Near TGC/Far TGC control knob below Digital TGC.
CHI Harmonics (Programmable Key 22)	Utilizes Digitally Encoded Ultrasound (DEU) to receive and display harmonic (double) frequencies. Enhances near field resolution. Multiple frequencies area available to help increase penetration.
Frequency	Range is dependent on probe and system. Use higher frequency for thinner/smaller patients, lower frequency for thicker/larger patients. Use lower frequency for deeper structures, higher frequency for more superficial structures.
Dynamic Range	Controls how echo intensities are converted to shades of gray, increasing the adjustable range of contrast. Increase dynamic range for more shades of gray, decrease for more contrast.
Gray Maps	Varies the appearance of the shades of gray from black to white. Choose the gray map prior to making other parameter changes. There is interdependency between the gray maps, gain and dynamic range.
CrossXBeam™ **CrossXBeam Angle** **CrossXBeam Type**	CrossXBeam, or compound imaging, combines three or more frames from different steering angles into a single frame. May help reduce speckle and noise in the image. Enhances tissue interfaces and border detection. CrossXBeam Angle allows the user to adjust the angle of send and receive signals. CrossXBeam Type: **Mean** averages all returning values (normal scanning mode), **Hybrid** combines a mix of both average and maximum values (center line + Max), **Max** displays only the maximum returning values (Max only).

B-Mode Optimization *(continued)*
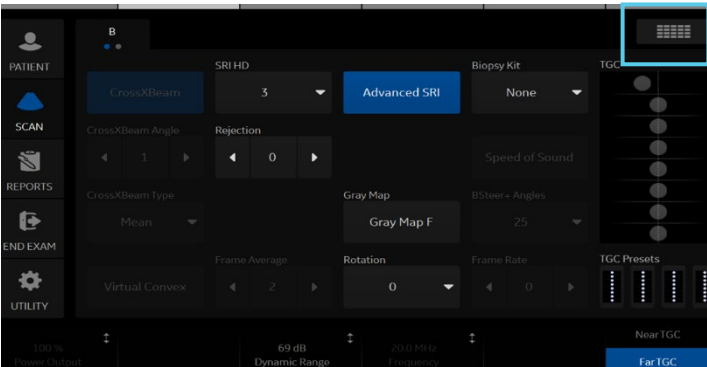
Commonly used parameters	Description
ATO (Auto Tissue Optimization) (5)	ATO analyzes the image data and then optimizes the gray map such that dark areas become darker and bright structures stand out more. For the user this translates into improved contrast resolution and noise suppression.
CTO (Continuous Tissue Optimization) (22)	CTO automatically adjusts B-Mode gain based on the signal and noise levels in the real-time image, reducing the chances of over-gain or under-gain. The gain adjustment is applied over depth and laterally as well as the whole image, resulting in a more uniform and appropriate gain across the entire image.
SRI HD	SRI HD is an image processing algorithm that smooths speckle and enhances edges. This increases contrast resolution, improves border delineation, reduces noise, and smooths speckle while maintaining its natural texture. SRI HD may be used on any probe or in any clinical application.
Advanced Speckle Reduction	The increased processing power available on the LOGIQ Fortis™ applies significantly more sophisticated smoothing and edge enhancement relative to SRI HD. This results in the differentiated imaging performance of Advanced SRI without impacting the high frame rates delivered by the cSound™ architecture. There are two types of Advanced SRI available in OB/GYN applications (Advanced SRI Type 1 and Advanced SRI Type 2).
Speed of Sound	A control to help fine-tune image resolution in applications where tissue have wide ranges of speed of sound such as breast and liver. It changes the speed of sound used by the imageformer for transmit and receive of ultrasound signals. Adjusting the speed of sound can help improve resolution, contrast, and reduce noise.

B-Mode Optimization *(continued)*

Commonly used parameters	Description
Rejection	Selects a level below which echoes caused by noise will not be amplified. The higher the rejection the more low-level echoes are eliminated.
Virtual Convex	Changes linear probe images from rectangular shape to convex shape and adds 20% more viewing area. *Note: When in Color Mode, you can select "Virtual Convex" on touch panel to display the color in convex.*
Frame Average	Helps to optimize line density or spatial resolution. Decrease frame rate for enhanced resolution, such as in Small Parts. Increase frame rate for faster frames such as for Vascular imaging.
Frame Rate	Helps to optimize line density or spatial resolution. Decrease frame rate for enhanced resolution, such as in Small Parts. Increase frame rate for faster frames such as for Vascular imaging.
B-Mode Raw Data (post processing)	On a frozen or recalled image you can adjust the following parameters; Gain, TGC, Auto Optimize, Dynamic Range, Gray Maps, SRI, Rejection, Zoom, Image reverse, Image rotation, as well as Comments and Measurements.

To display ALL touch panel parameters, select quick button on top right corner

B-Mode Optimization *(continued)*

IF	THEN
Image is too soft	1. Decrease SRI-HD 2. Activate Auto Optimize 3. Decrease frame average 4. Decrease dynamic range 5. Change gray map 6. Turn off CrossXBeam™
Image is too grainy	1. Increase SRI-HD 2. Increase dynamic range 3. Increase frequency 4. Increase frame average 5. Activate CrossXBeam 6. Change gray map
Image is too dark	1. Increase overall gain 2. Decrease frequency 3. Change gray map 4. Decrease dynamic range
Image is too noisy	1. Decrease overall gain 2. Activate Harmonics (CHI) 3. Activate Auto Optimize 4. Adjust digital TGC

IF	THEN
Image is not uniform	1. Decrease frame rate 2. Decrease scan area 3. Adjust depth 4. Adjust digital TGC
Image whites are too bright	1. Decrease overall gain 2. Increase dynamic range 3. Increase frequency
Technically difficult patient	1. Select appropriate Model, if abdominal exam select ABD2 2. Lower frequency 3. Turn off Harmonics (CHI) 4. Activate Auto Optimize 5. Lower dynamic range
Frame rates are too slow	1. Increase frame rate 2. Decrease scan area

CrossXBeam is a trademark of General Electric Company.

Color Doppler optimization

Commonly used parameters	Description
Velocity Scale (PRF)	Range of velocities that are assigned a color. Adjust the pulse repetition frequency (PRF) for an enhanced representation of the magnitude of the flow pattern. Increase for higher flow velocity, decrease for lower flow velocity.
Angle Steer	Provides a Doppler angle suitable for linear probe orientation. You can slant the ROI of the Color Flow linear image left or right to get more information without moving the probe.
Frequency	Changes the color parameters to enhance flow in different depths. Use lower color frequency for deeper vessels. Increase color frequency for superficial vessels. Range is dependent on probe and model.
Wall Filter	Filters out low velocity signals and affects low flow sensitivity versus motion artifact. Assists in reducing motion artifacts from motion outside the vessel wall.
Focus Position	Adjust focal zone within the color ROI for the best vessel filling, position focal zone in the middle or lower half of the ROI.
Frame Average	Temporal smoothing filter helps to create a smooth and persistent flow profile.
Line Density	Helps optimize color flow frame rate for sensitivity and spatial resolution. Higher line density will tighten vessel. Lower line density will increase frame rate.
Color Threshold	Percentage of gray scale level where color Doppler is overwritten. Decrease where vessels are large and easily identified, Increase where multiple small vessels need to be visualized.
Flash Suppression	Algorithm to help control motion artifacts.
Radiant*flow*™	Radiant*flow* is a rendering technique for Color Flow and Power Doppler Imaging, available on all probes. Radiant*flow* provides an easy, fast visualization of tiny vessels, displaying as a 3D.

Radiant*flow* is a trademark of General Electric Company.

Color Doppler optimization *(continued)*

The table below discusses adjustments that can be made to help in some scanning situations.
Not all listed adjustments may be necessary to achieve the desired result.

Flow	Adjust
Color does not fill the vessel	Increase color gain until flashes area seen in the surrounding tissue, then decrease the gain just until the color fills the vessel. If color does not fill the vessel decrease velocity scale (PRF), increase threshold, decrease Wall Filter. Decrease color frequency for penetration when needed.
Color displays mixed directions	Forward flow and reverse flow should be separated by a black transitional line. If there is no line between red and blue, increase the Velocity Scale (PRF).
Color is seen in right and/or left side of vessel, but the middle is blank	The color ROI box is perpendicular to vessel flow. If using a linear probe, change the ROI box angle using the touch panel knob selection "Angle Steer." ***Note:*** *If vessel is angled in the image, try a straight ROI box.*
Color is outside the vessel wall	Decrease color gain until color is within the vessel walls. Increase velocity scale (PRF) just until color is within vessel walls. Increase wall filter. Decrease color threshold.
Color is in superficial vessels, but not in deeper vessels	Decrease color frequency, increase color gain until flashes area seen in the surrounding tissue, then decrease gain just until color fills the deep vessels.
Frame rate is too slow	Decrease Color ROI box size, slightly taller then wider preferable. Decrease color line density.

Image management

Print keys are programmed upon install by your GE representative to send to printers, PACS or Network storage devices and the system Internal Hard Drive.	
When you want to print/store an image, the P1 is most commonly used for the primary destination and internal hard drive:	1. Push P1 to print/store an image. The images will be visible in a thumbnail view at the bottom or left side of the image screen. 2. To store a Cine loop, push P1 during live scanning (do not push freeze first) or select Mark Cine on bottom track ball key to initiate cine then P1 to end. The Cine loop stored will be a pre-determined length of time specified during system set-up. 3. When the exam is complete, select "End Exam" on the left column of the touch panel. Select "End Current Patient" on the next touch panel screen. A list of patients and their exams currently stored on the system appears on the screen in the patient entry page.
To send to a PACS or Printer that is not the "Default" destination:	1. From the Patient entry page, highlight the patient's name and set to open the studies. If there is more than one exam, highlight the exams needed. 2. Select "Send To" from the bottom right corner of the page. 3. Select the destination form the "To" drop down menu and then select OK.
Once an exam has been closed, if there is a need to add additional images to the exam, these steps will reopen a closed exam:	1. From the patient entry page, select the patient from the list on the bottom of the screen. 2. Select "Resume" at the bottom of the screen. 3. Select "Save and Exit" from patient screen or push the "Freeze" button. The prior images will be visible in the thumbnail views, add images and repeat the "End Exam" process.

Image management *(continued)*

The system hard drive capacity and free space is available on the patient entry page. Move the trackball pointer over the pie icon in the lower left column. A message with the total capacity and the available free space will appear briefly. The color of the pie will change as the hard drive fills.

To review a closed exam from the internal hard drive:	1. From the patient entry page, double click the patient's name from the list on the bottom of the screen. 2. Highlight the desired exam from the list, or if just one, highlight the exam. 3. Select "Save and Exit" or push the "Freeze" key. The images will appear in the thumbnail display at the bottom or left side of screen. 4. Select any image from the thumbnails to bring into full screen view and use the "Body Pattern" toggle to scroll through images. 5. Select the "Active Images" icon from the lower right menus to view the exam in a multi-image format.
To start a patient who has a previous exam on the hard drive:	1. From the patient entry page, begin typing in the patient ID. 2. Once the ID has been entered the text will turn red, indicating there is a patient with this ID. 3. Highlight the patient ID from the list at the bottom of the page and select "New Exam" from the options on the touch panel. 4. Select "Save and Exit" or press "Freeze" to begin the exam.
To delete patients from the internal hard drive: ***Note:*** *Patients or exams do not automatically delete from the internal hard drive.*	1. In the patient entry page, select the operator drop down menu, choose ADM. The user must have admin rights to delete patients from the hard drive. 2. In the list of patient names, highlight the patient's name to be deleted. 3. Select "Delete" in the menu at the bottom of the list. A message box will appear to confirm the action, select OK.

Image management *(continued)*

To save images to CD/DVD or USB drive in PC format (Jpeg):

1. Insert a CD-R or DVD-R into the CD/DVD burner or insert a USB stick into the USB port.
2. Highlight the patient from the list of names on the hard drive. Select "Active Images" from the upper left corner of the screen.
3. Select the individual images you want to save or alternatively select "Select All" from the touch panel.
4. Select "Save As" images from the touch panel or left side of screen.
5. A window box will appear. From the drop down "Save in Archive" menu select either "For Transfer to CD/DVD" or USB.
6. Allocate a 'Folder Name' to the selected saved images.
7. From the drop down "Save As Type" menu, select JPEG AND WMV. This will save still images as JPEG and Cine loops as WMV files.
8. Select "Save". The image is saved to a temporary directory. If using a USB drive, skip to step 10 to eject; there is no "finalize" procedure
9. Once all the desired images are saved/converted, select "Save As" images again, the select Transfer to CD/DVD to transfer the images to the media.
10. Push the "F3" (Eject) button on the A/N keyboard. A new message box will appear; if ejecting a CD/DVD the message will have a choice to "finalize". The disc must be finalized for the images to be opened on a computer.
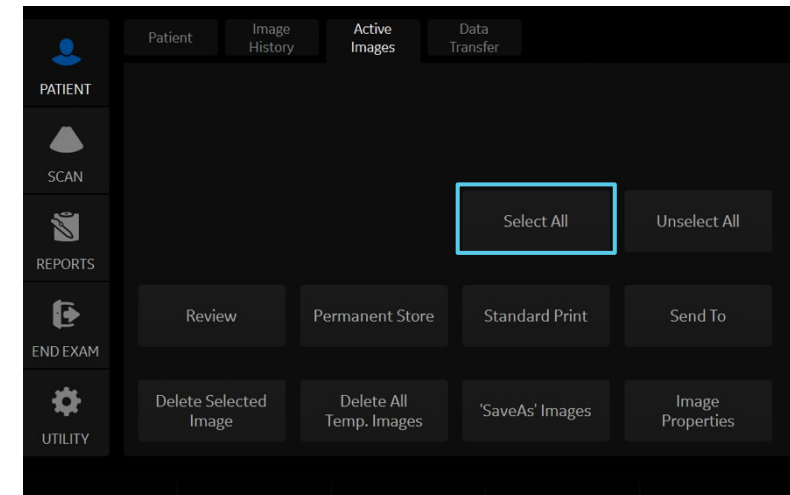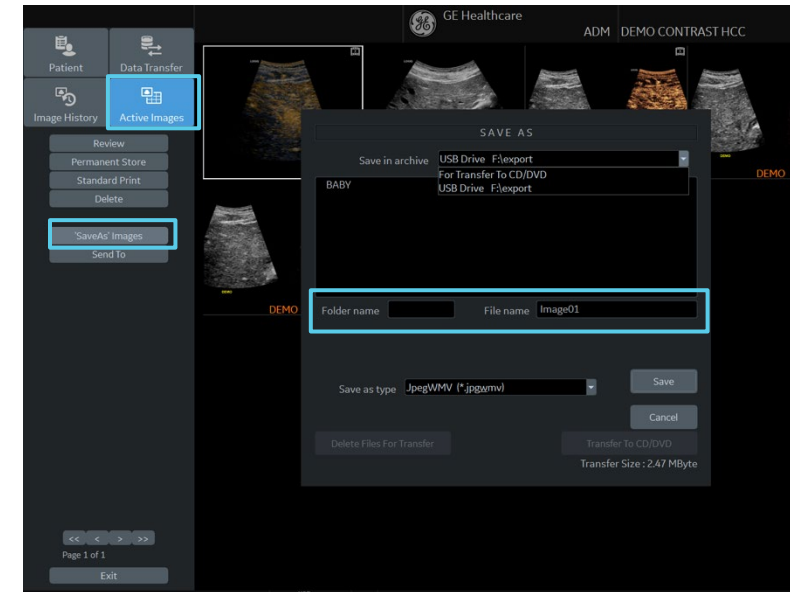
Back-up and restore presets

Note: It is recommended to do this with the assistance of a GE Service or GE Applications representative	
To back-up presets: Insert CD-R or DVD-R into the disk drive	1. Select Utility > System > from the touch panel. 2. Use the trackball pointer to select "Backup/Restore" tab on the monitor. 3. Select check box "User Defined Configuration" under the Backup column on the left. 4. Select CD/DVD from the dropdown menu under "Media." 5. Select "Backup" to save presets to CD/DVD. 6. Press "F3" (Eject) to eject and finalize the CD/DVD preset disk. 7. Label and store the CD/DVD in a secure location, in case a service call results in the need to restore presets.
To restore presets: Insert the "preset CD/DVD" into the disk drive	1. Select Utility > System from the touch panel. 2. Use the trackball pointer to select "Backup/Restore" tab on the monitor. 3. Select CD/DVD from the dropdown menu under "Media." 4. Select "User Defined Configuration" from the RESTORE field in the upper right column, which restores ALL the imaging parameters including your DICOM®/Connectivity settings. ***Note:*** *If you have multiple systems ensure your preset disk is specific to the system you are restoring to.* 5. Alternatively, under "Detailed Restore of User Defined," select the desired fields you wish to restore on the system i.e., Imaging Presets. 6. Select "Restore." The system will automatically shut down and re-boot to restore the presets.

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Adding new user initials

Select Utility > Admin > Users

- Select "Add" and enter user details
- ENSURE that you DO NOT include the following characters in a user's ID: slash (/), dash (-), asterisk (*), question mark (?), an underscore (_), ampersand (&), lower case letters or blank spaces. DO NOT set up users with the same initials or ID. The system will overwrite the first user ID if a second is created with the same initials
- Display ID, type in the short form ID (typically initials) of the user for display on the title bar when storing images. This is limited to 5 characters
- Enter password using the defined policies
- *Note: If a password is created the user will be required to enter the password when logging on*
- The system administrator can specify whether the users account is active, blocked or requires a password change. If needed, select the check box "user must change password." The user will be prompted to change their password on the next logon
- Select the Group Membership for the new user. Multiple groups can be selected if needed. The user will need Operator access rights to appear on the dropdown list of operators

Note: The system Admin can remove a user from the list. Select the user ID from the list and select "Remove." The user and password will become inactive. If the user and password need to be removed permanently, select the user and password and select "Remove." A pop-up dialog will appear to confirm the complete removal of the user account.

When the user selects their ID from the list in the "operator" field in the patient entry page, the logon window will pop up.

Enter Operator Id then the password and select "Ok"
Note: The user can change their password at anytime
The user will have access according to the rights in their assigned group.

EZ Imaging

This feature includes *MyPreset*, *EZ Touch Panel* and *Quick Patient Change*.

MyPreset:

MyPreset allows you to configure the models available on the touch panel according to the Probe or Category.
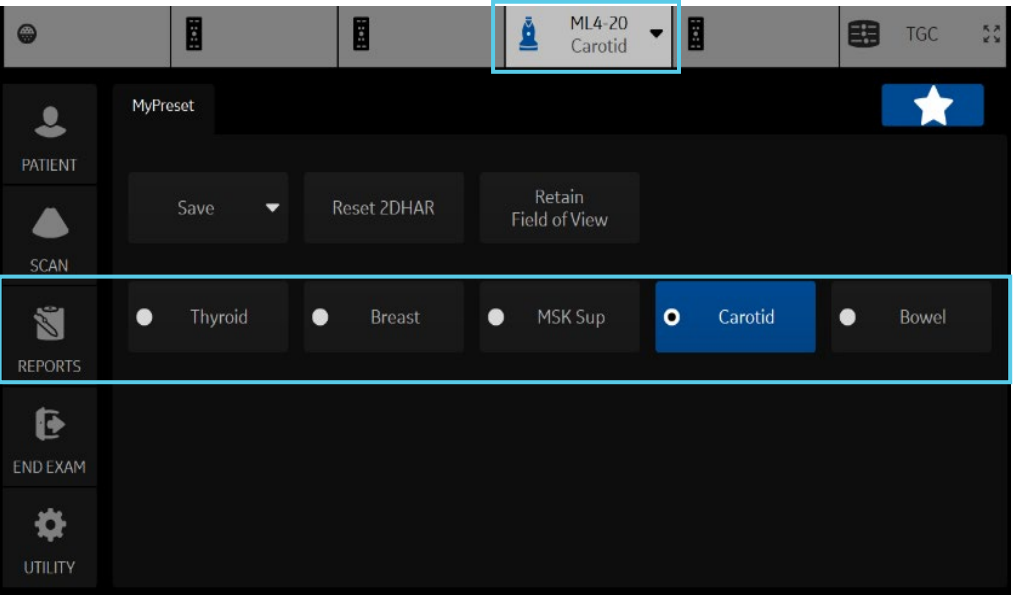
EZ Touch Panel:

EZ Touch Panel allows the operator quick access to change model, flow modes and Doppler modes without searching through multiple pages or many different parameters
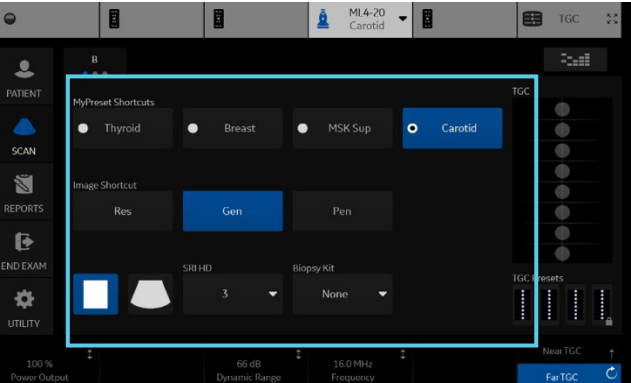
Quick Patient Change:

This workflow is for operators who need a quick way to start a new patient, save data and reset the system for next patient without returning to the patient demographic page.

1

EZ Imaging – MyPreset

To activate MyPreset:
Go to Utility > System > System Imaging
Under controls, check the Default MyPreset
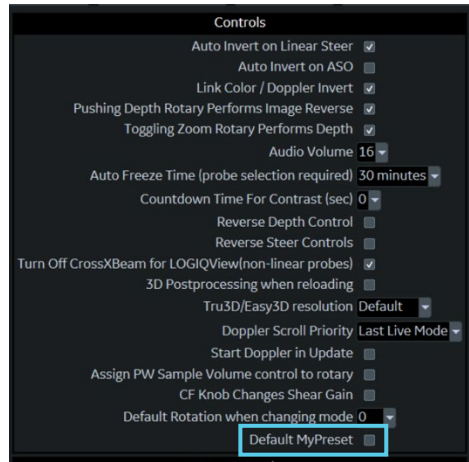
Select star on touch panel to switch between MyPreset and conventional tab
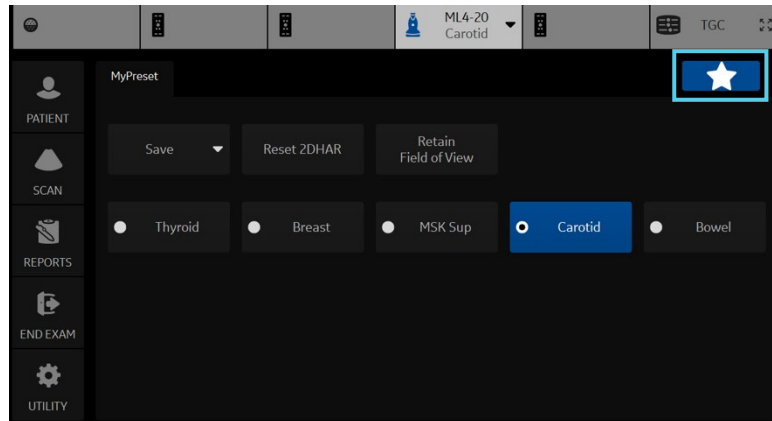
Activate EZ Touch Panel:
1. Check "Easy Touch Panel Page" – Utility > System > System Imaging > EZ settings
2. Select "By Probe" or "By Category" in MyPreset shortcuts
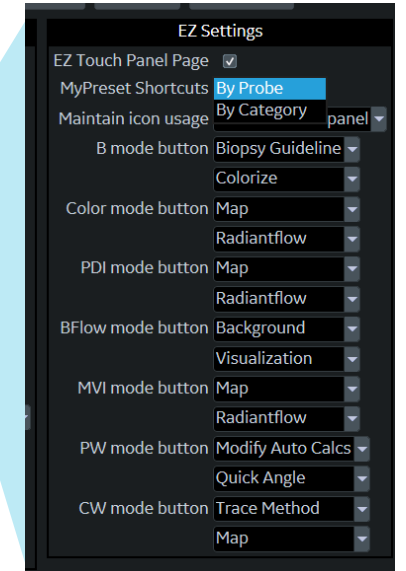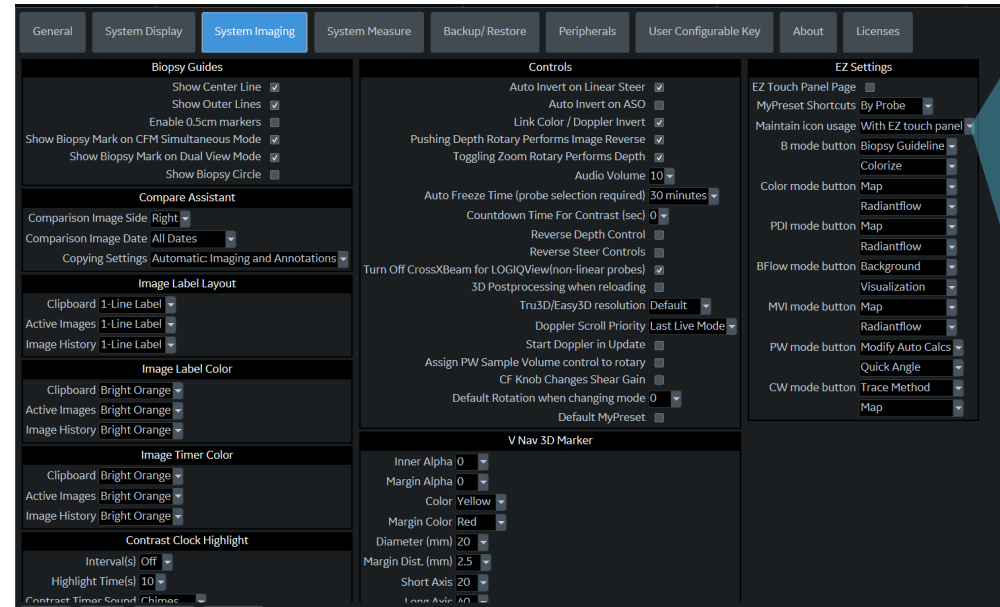
EZ Imaging – EZ Touch Panel

EZ Touch Panel in B-Mode
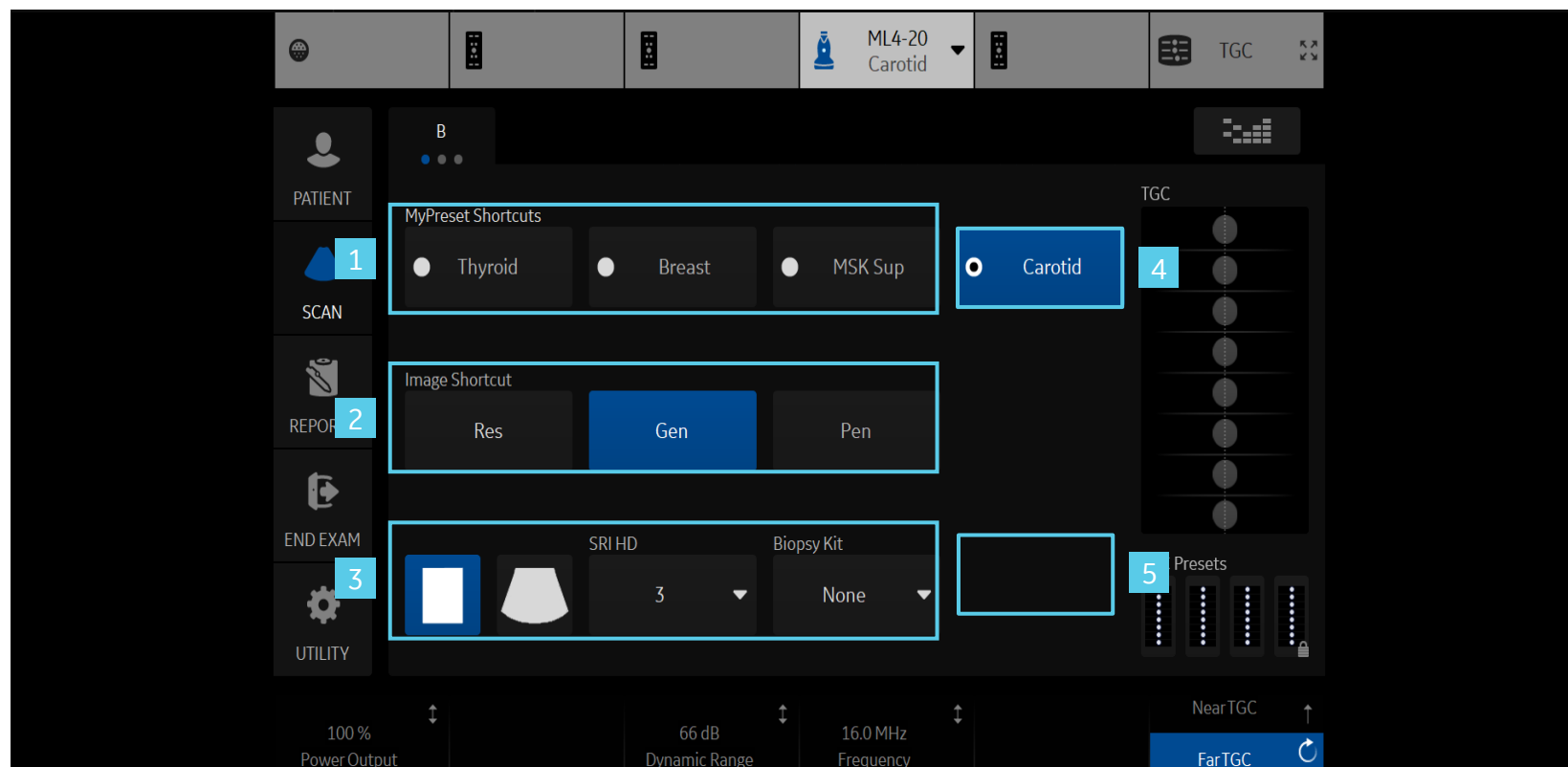
1. Models can be quickly changed on the touch panel.
2. Shortcuts available to quickly change the frequency using Gen, Pen. and Res
3. Essential presets (Non-configurable)
4. The last used or current model is displayed in the 4th position
5. A desired additional preset can be assigned to the 5th position

EZ Imaging with Flow Modes
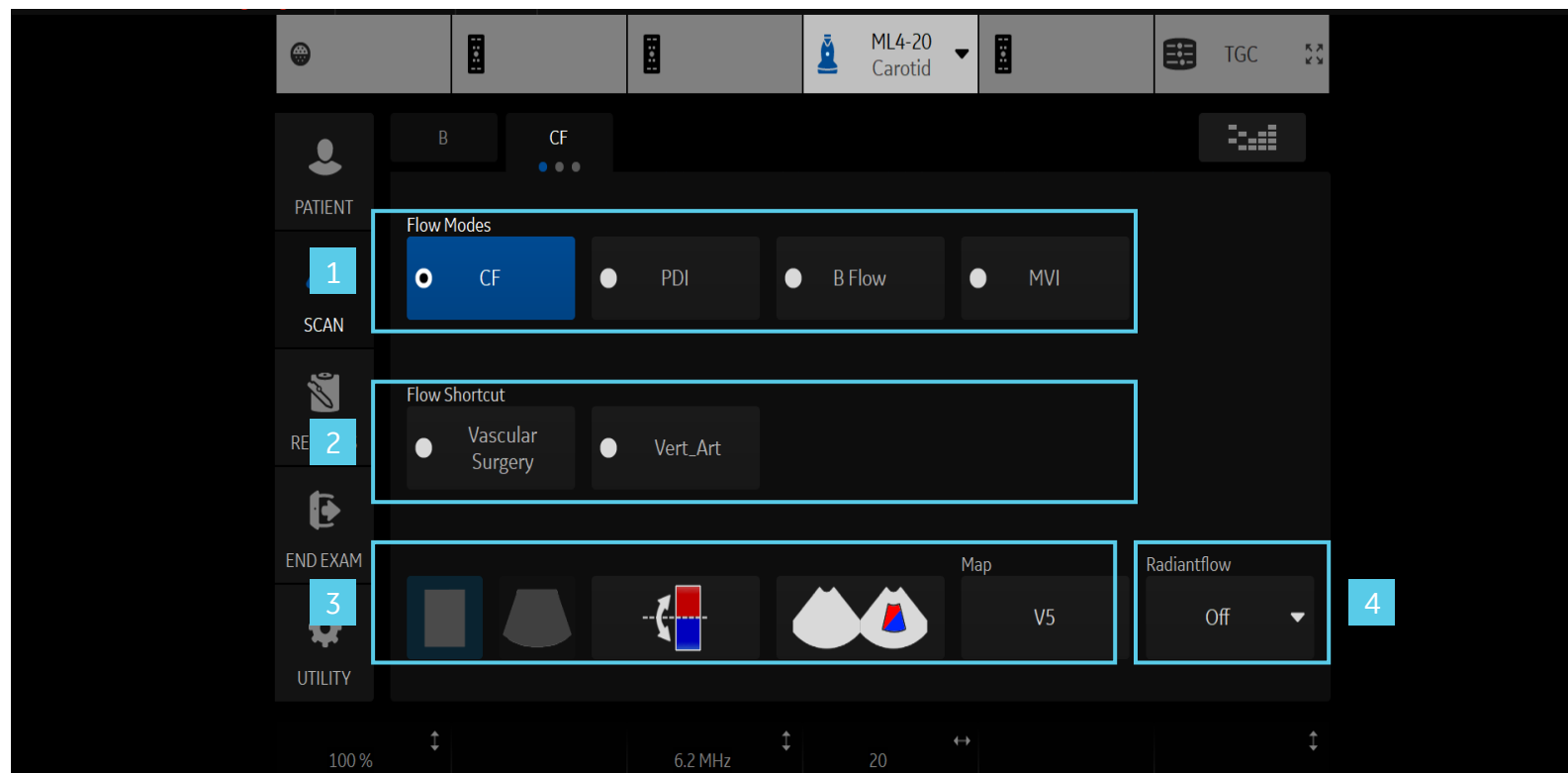
1. Change flow models quickly
2. Color and Power Doppler Flow shortcuts
3. Essential controls available on the touch panel
4. A desired additional essential control can be assigned to the 4th position

EZ Imaging with Pulsed Wave or Continuous Wave activated
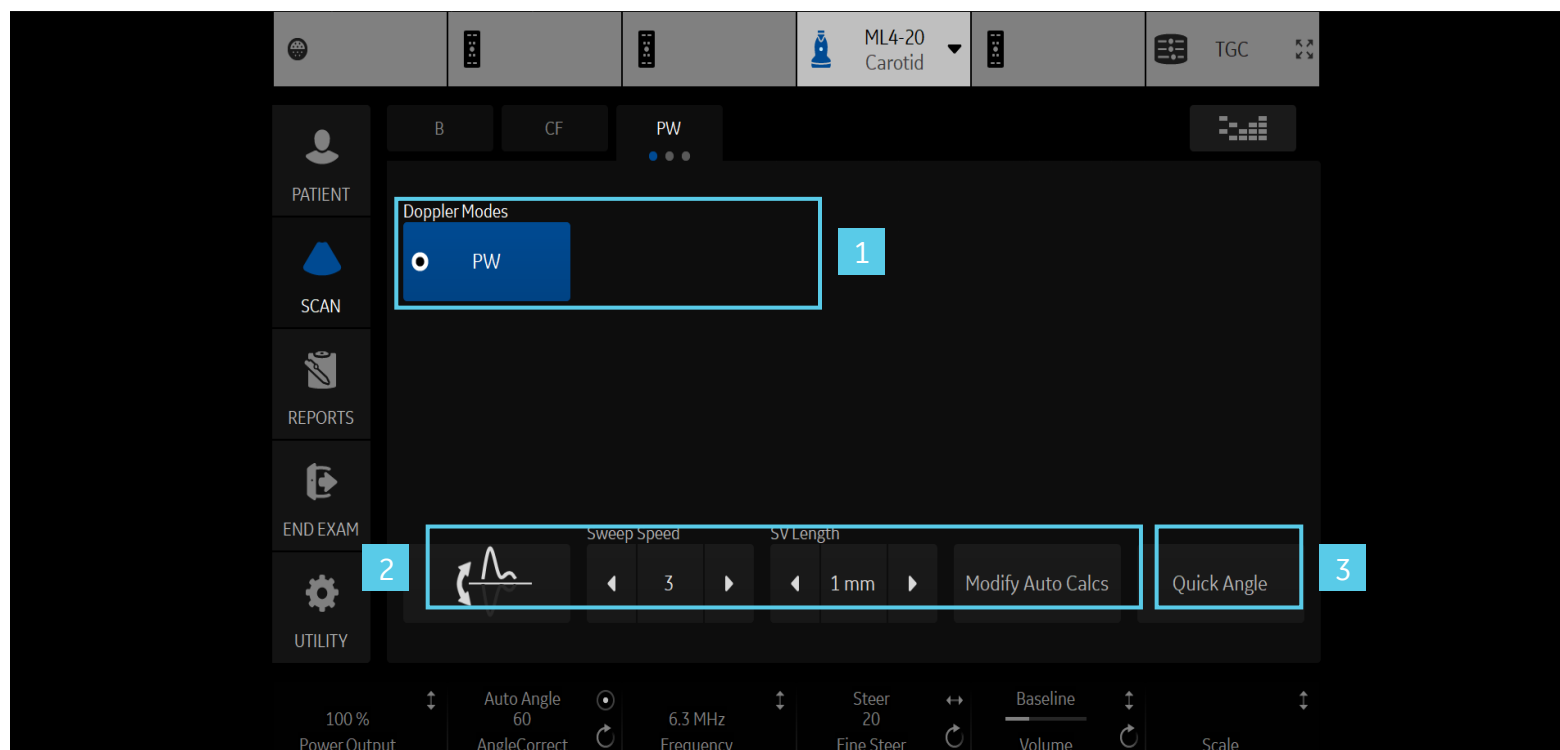
1. Change Doppler technologies quickly on the touch panel (if CW and PW are both supported)
2. Essential controls (Non-configurable)
3. A desired additional essential control can be assigned to the 3rd position

EZ Touch Panel imaging icons

PW/CW invert: Select to invert PW or CW Waveform
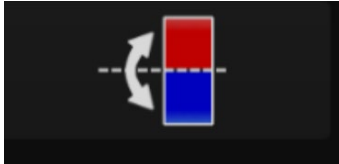
Color Invert: Select to Invert the Color Doppler

Simultaneous display: Select to show a live image in both color and B-Mode

Virtual Convex: Select for an extended field of view with linear probes

Reverse: Select to reverse the image orientation

EZ Touch Panel icons are only available when EZ Touch Panel is checked in the utility pages

Cleanability

Cleaning the trackball

1. Twist and remove the trackball prior to cleaning the trackball and the trackball housing (1-3)
2. Clean the trackball and the trackball housing with a dry soft cloth (4-6)
3. After cleaning the trackball, replace and twist the trackball into the trackball housing (7-8)

Cleaning filters

Clean the system's air filters to ensure a clogged filter does not cause the system to overheat and reduce system performance and reliability. It is recommended the filters be cleaned every two weeks, but the requirements will vary due to your system use.

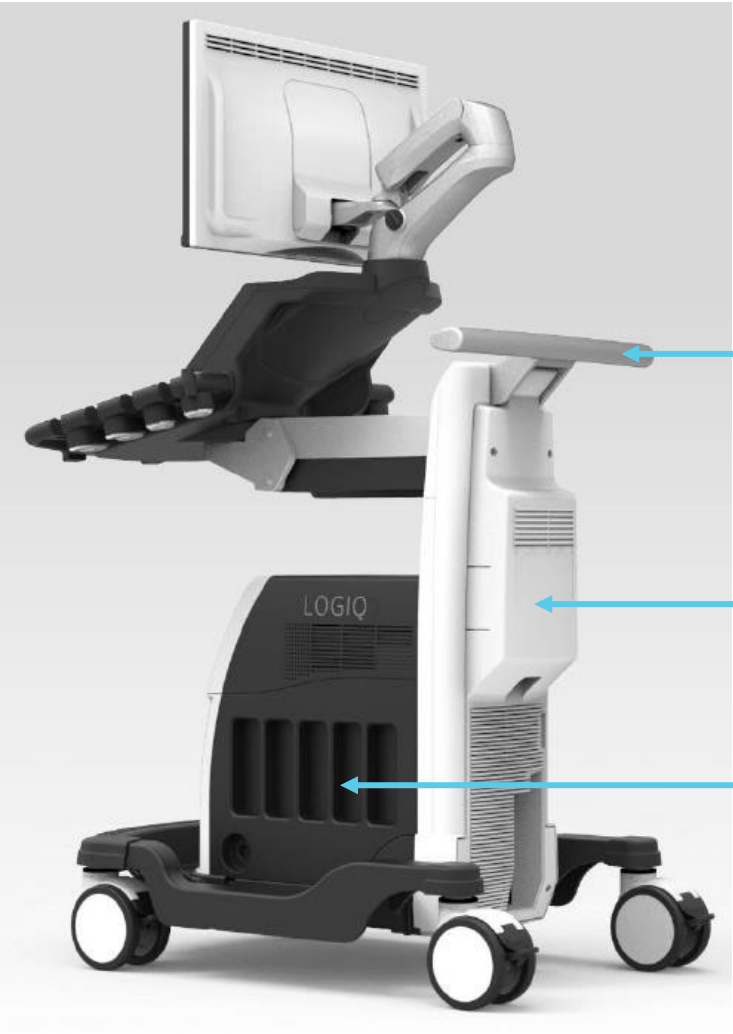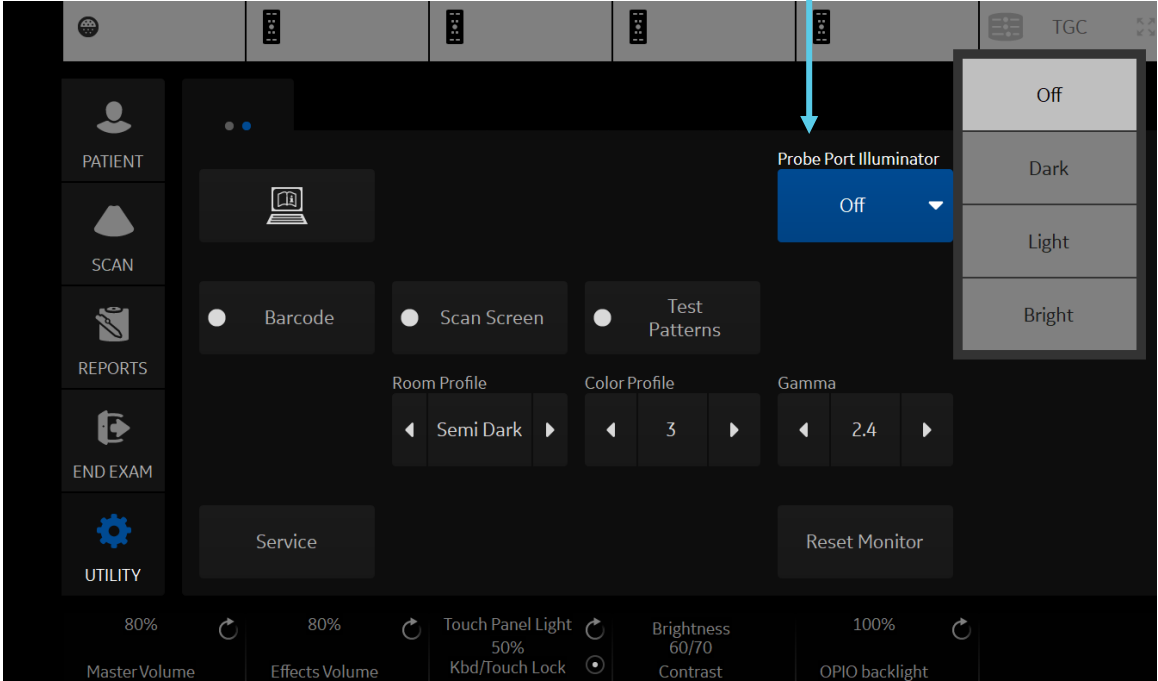Remove the front cover of the cabinet to access the filter.
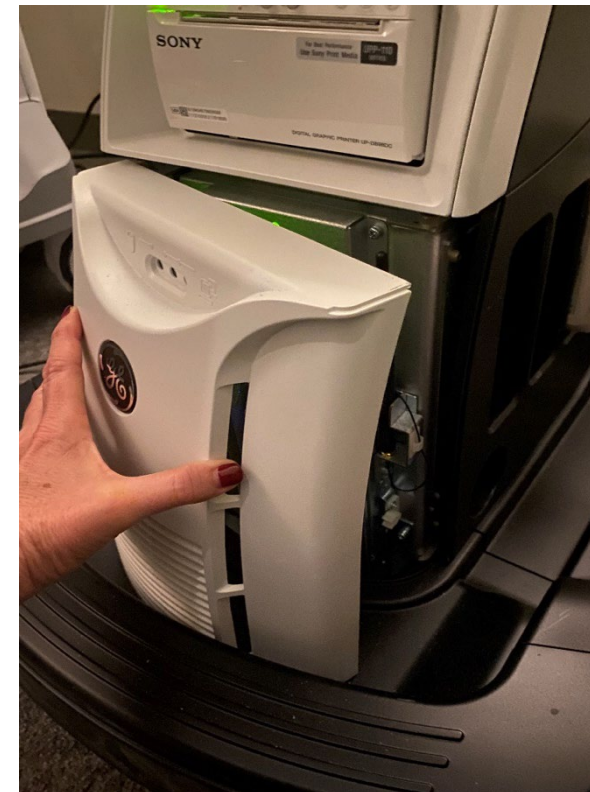
Portability

Touch panel page 2 illuminator settings
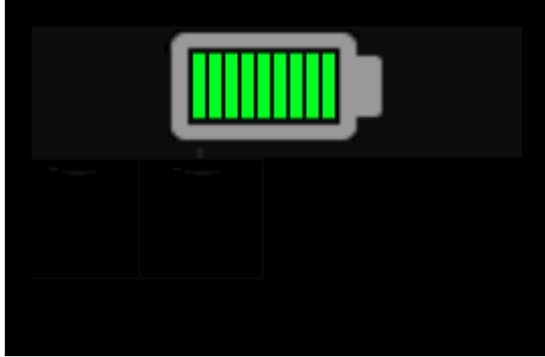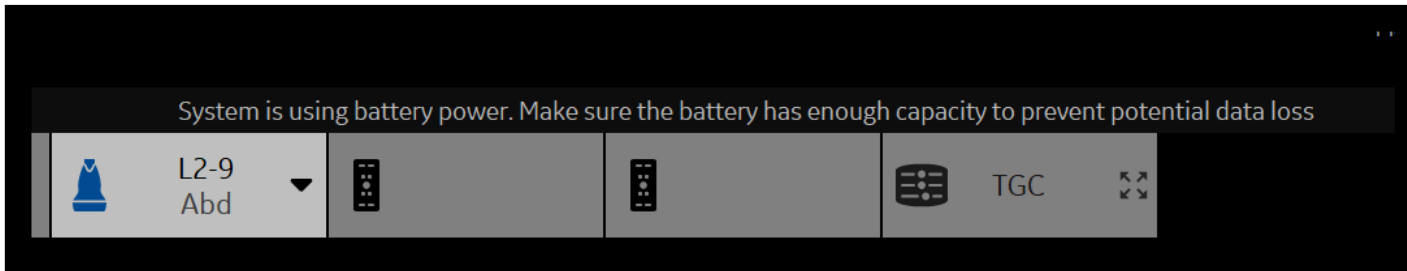- Off
- Dark
- Light
- Bright

Handle

Integrated battery backpack

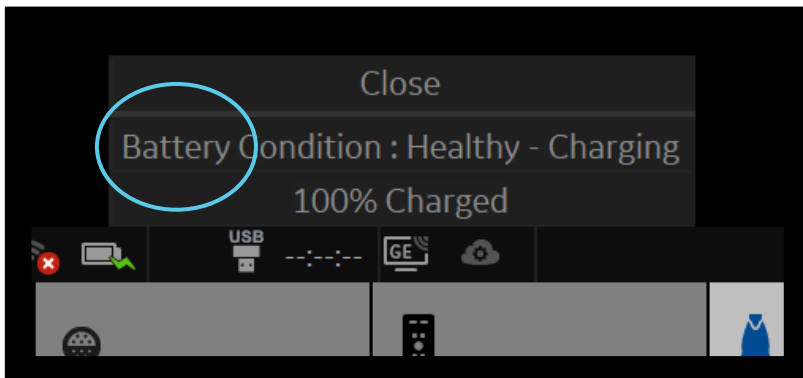Illuminator 4 active probe ports and one park port

Portability

The Battery Indicator icon at the top left of the monitor indicates the status of the battery.

System is using battery power. Make sure the battery has enough capacity to prevent potential data loss

L2-9 Abd

TGC

A message will pop up when-scanning on battery to remind you to check your battery capacity.

Close

Battery Condition : Healthy - Charging

100% Charged

USB

To check the percentage of battery life before disconnecting from AC power, click on the battery icon on the bottom left of the monitor.

JB21079XX