



AAFP's Point of Care Ultrasound Recommended Curriculum Guidelines & The SonoSim® Ultrasound Training Solution

In 2018, the American Academy of Family Physicians (AAFP) released [recommended guidelines for a standardized point-of-care ultrasound curriculum](#) within family medicine residency programs. The SonoSim Ultrasound Training Solution matches these new industry recommendations through an ecosystem of cloud-based courses, knowledge assessments, interactive SonoSimulator® scanning cases, performance tracking, and access to real-patient pathology.

Basic Ultrasound		
AAFP Guideline	SonoSim Curriculum	Covered
Basic Ultrasound Knowledge	Fundamentals of Ultrasound Course	
Physics: Use of piezoelectric effect and generation of ultrasound images; the frequency, wavelength, power, and intensity as it relates to ultrasound	Introduction, Basic Ultrasound Physics	✓
Images: Ultrasound representation of fluid, soft tissues, solid organs, air, foreign bodies, and bone	Basic Ultrasound Physics, Imaging Artifacts	✓
Transducers: Four main types are linear, curvilinear, phased array, and intracavitary; each probe has a different crystal arrangement, size, and footprint that determines its preferred applications.	Transducer Basics	✓
Orientation: Sagittal, transverse, and coronal planes; probe marker position and its relation to the patient's body and screen image	Imaging Conventions	✓
Image Optimization: Depth (near and far field) and gain	Ultrasound System Operation	✓
Ultrasound Image Terminology: Echogenicity, artifacts, and anisotropy	Basic Ultrasound Physics, Imaging Artifacts	✓
Scanning Techniques: Sliding, fanning, rotating, and rocking	Cardiology Core Clinical: Introduction	✓
Modes: Two-dimensional, M-mode, and Doppler imaging	Imaging Modes, Doppler Mode Imaging	✓
Applications: Basic core applications of POCUS and incorporation into patient care. Advanced applications are optional and reserved for providers who have mastered the basic core applications.	All SonoSim Courses	✓
Safety: Understand the "As Low As Reasonably Achievable" (ALARA) principle and specific safety issues as they apply to ultrasound exposure (e.g., ocular settings, avoidance of first trimester Doppler or color use); understand probe cleaning and which studies need normal versus high-level disinfection	Infection Control & Biosafety	✓

*Basic Ultrasound Knowledge not covered: Documentation

OB/GYN

AAFP Guideline	SonoSim Curriculum		Covered
Limited First Trimester Evaluation: Essential Ultrasonography Components	First-Trimester Pregnancy Course	SonoSimulator Cases to Scan	
Transabdominal & transvaginal scanning techniques	Sonographic Imaging Techniques	First-Trimester Pregnancy Cases	✔
Presence of IUP: Utilize FEEDS (Fundal, Eccentric, Elliptical, Decidual reaction, Size of gestational sac) criteria or other documentable criteria to assess for presence of IUP	First-Trimester Pregnancy Ultrasound	First-Trimester Pregnancy Cases	✔
Viability of IUP	First-Trimester Pregnancy Ultrasound, Detecting Pregnancy Failure	First-Trimester Pregnancy Cases	✔
Detection of fetal heart rate in all stages of pregnancy: Using M-mode	First-Trimester Pregnancy Ultrasound Second- & Third-Trimester Pregnancy - Part I: Basic Fetal Anatomy	Second- & Third-Trimester Pregnancy - Part II Cases	✔
First trimester pregnancy gestational age assessment: By crown rump length	Pregnancy Dating Using Ultrasound	First-Trimester Pregnancy Cases	✔
Detection of free fluid in the pelvis	Pathologic Conditions	First-Trimester Pregnancy Cases	✔
Limited Second/Third Trimester Evaluation: Essential Ultrasonography Components	Second- & Third-Trimester Pregnancy - Part II Course	SonoSimulator Cases to Scan	
Determine placenta position (fundal, anterior, posterior, low-lying, previa) and know when transvaginal follow-up imaging is indicated	Placental Evaluation	Second- & Third-Trimester Pregnancy - Part I & Part II Cases SonoSim LiveScan® Early Stage Pregnancy Cases SonoSim LiveScan® Late Stage Pregnancy Cases	✔
Fetal presentation: Vertex, breech, or transverse	Fetal Lie & Presentation	Cephalic/Vertex Second- & Third-Trimester Pregnancy - Part I & Part II Cases SonoSim LiveScan® Late Stage Pregnancy Cases Breech Second- & Third-Trimester Pregnancy - Part I & Part II Cases SonoSim LiveScan® Late Stage Pregnancy Cases	✔
Amniotic fluid volume: Identify the single deepest pocket of fluid on third trimester ultrasound and appropriately calculate an amniotic fluid index	Amniotic Fluid Assessment	Second- & Third-Trimester Pregnancy - Part I & Part II Cases SonoSim LiveScan® Early Stage Pregnancy Cases SonoSim LiveScan® Late Stage Pregnancy Cases	✔
Placenta abruption: Identification of chorionic hemorrhage	Placental Evaluation	--	✔

Advanced OB Ultrasonography Skills (Optional)	Advanced OB Courses	SonoSimulator Cases to Scan	
Recognition of molar pregnancy	First-Trimester Pregnancy: Pathologic Conditions	--	✓
Gestational age assessment using abdominal circumference, biparietal diameter, and femoral length	Second- & Third-Trimester Pregnancy - Part I: Fetal Biometry & Pregnancy Dating	Second- & Third-Trimester Pregnancy - Part I & Part II Cases SonoSim LiveScan® Late Stage Pregnancy Cases	✓
Evaluation of cervical insufficiency: Preterm labor assessment; measure of cervical length transabdominal/transcervical	Second- & Third-Trimester Pregnancy - Part I: Cervical Length	OB/GYN Cases	✓
Estimation of fetal weight	Second- & Third-Trimester Pregnancy - Part II: Fetal Weight, Intrauterine Growth Restriction, & Fetal Macrosomia	--	✓
Assessment of maternal anatomy	OB/GYN Core Clinical: Pelvic Anatomy First-Trimester Pregnancy: Anatomy	First-Trimester Pregnancy Cases	✓
Fetal anatomy	Second- & Third-Trimester Pregnancy - Part I: Basic Fetal Anatomy	Second- & Third-Trimester Pregnancy - Part I & Part II Cases	✓
Gender of fetus: Identify penis or labia during 18- to 20-week ultrasound	Second- & Third-Trimester Pregnancy - Part I: Basic Fetal Anatomy	--	✓
Specialized Examinations/Special Situations	Advanced OB Courses	SonoSimulator Cases to Scan	
Fetal well-being during third trimester, biophysical profile: Ultrasound assessment of amniotic fluid index (AFI), fetal breathing movements, gross body movements, and tone	Second- & Third-Trimester Pregnancy - Part II: Biophysical Profile	--	✓
Confirmation of fetal death: Absent fetal heart tones, fetal movement, skull deformity, maceration, and echogenic amniotic fluid	First-Trimester Pregnancy: Detecting Pregnancy Failure	--	✓
Gynecology Ultrasound Skills	Advanced GYN Courses	SonoSimulator Cases to Scan	
Intrauterine device (IUD) position: Presence or absence of IUD in uterus	GYN Ultrasound of Nonpregnant Abnormal Uterus - Part I: Localization of Intrauterine Devices	GYN Normal Uterus Cases GYN Abnormal Uterus - Part I Cases GYN Normal Adnexa Cases GYN Nonmalignant Adnexal Conditions Cases GYN Malignant Adnexal Conditions Cases	✓
Dysfunctional uterine bleeding	GYN Ultrasound of Nonpregnant Abnormal Uterus - Part II: Introduction	GYN Abnormal Uterus - Part II Cases	✓
Adnexal mass: simple, complex, hemorrhagic cysts	GYN Ultrasound Nonmalignant Adnexal Conditions: Ovarian Cysts	GYN Nonmalignant Adnexal Conditions Cases GYN Malignant Adnexal Conditions Cases	✓

*Gynecology Ultrasound Skills not covered: Breast mass

Cardiac

AAFP Guideline	SonoSim Curriculum		Covered
Echocardiograph (Cardiac Ultrasound) Basic Skills	Cardiology Course	SonoSimulator Cases to Scan	
Detection of pericardial effusion	Parasternal Short-Axis View: Mid-Ventricle, Subcostal Four-Chamber View, Case Studies	Cardiology Cases FoCUS Part I Cases eFAST Cases RUSH Cases SonoSim LiveScan® Cardiac Resuscitation Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Early Stage Pregnancy Cases SonoSim LiveScan® Late Stage Cases SonoSim LiveScan® Trauma Care Cases	✓
Assessment of global left ventricle (LV) contractility to assess systolic function (e.g., hyperdynamic/increased, normal, or reduced)	Parasternal Long-Axis View, Parasternal Short-Axis View: Mid-Ventricle, Apical Four-Chamber View, Subcostal Four-Chamber View, Case Studies	Cardiology Cases FoCUS Part I Cases	✓
Assessment of right ventricle (RV) size to assess for right heart strain and possibility of pulmonary embolism (PE) in appropriate clinical setting	Parasternal Short-Axis View: Mid-Ventricle, Apical Four-Chamber View, Subcostal Four-Chamber View, Case Studies	Cardiology Cases FoCUS Part I Cases	✓
Measurement of inferior vena cava (IVC) to approximate volume status	IVC Evaluation & RAP RUSH: The Tank - Intravascular Volume	Cardiology Cases FoCUS Part I Cases RUSH Cases	✓
Echocardiograph (Cardiac Ultrasound) Advanced Skills (Optional)	Echocardiograph Courses	SonoSimulator Cases to Scan	
Calculation of ejection fraction	Cardiology: Case Studies	Cardiology Cases FoCUS Part I Cases	✓
Regional wall motion abnormalities	FoCUS III <i>[In Development]</i>	Cardiology Cases FoCUS Part I Cases	✓
Diastolic dysfunction	FoCUS III <i>[In Development]</i>	Cardiology Cases	✓
Left ventricular mass for left ventricular hypertrophy (LVH) diagnosis	FoCUS III <i>[In Development]</i>	Cardiology Cases FoCUS Part I Cases	✓
Valvular abnormalities: Mitral/aortic regurgitation and stenosis	FoCUS II: Valvular Regurgitation, Valvular Stenosis	Cardiology Cases FoCUS Part I Cases	✓

Trauma			
AAFP Guideline	SonoSim Curriculum		Covered
Trauma Basic Ultrasound Skills	Trauma Courses	SonoSimulator Cases to Scan	
Assessment of free fluid in the abdominal cavity	eFAST & FAST: RUQ Views, LUQ Views, Performing the FAST Exam, Case Studies	eFAST Cases & FAST Cases SonoSim LiveScan® Trauma Care Cases	✓
Assessment of free fluid around the heart	eFAST & FAST: Cardiac Views, Performing the FAST Exam, Case Studies	eFAST Cases SonoSim LiveScan® Trauma Care Cases	✓
Assessment of a pneumothorax	eFAST: The eFAST Exam Pulmonary: Pneumothorax Rule-Out, Pneumothorax Rule-In	eFAST Cases Pulmonary Cases RUSH Cases SonoSim LiveScan® Cardiac Resuscitation Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Trauma Care Cases	✓
Assessment for a hemothorax	eFAST & FAST: Imaging Artifacts & Pitfalls Pulmonary: Pleural Effusion	eFAST Cases & FAST Cases RUSH Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Trauma Care Cases	✓

Aorta			
AAFP Guideline	SonoSim Curriculum		Covered
Aorta Basic Ultrasound Skills	Aorta/IVC Courses	SonoSimulator Cases to Scan	
Abdominal aortic aneurysm screening	Aorta/IVC Core Clinical: Clinical Considerations, Aortic Case Studies	Aorta/IVC Core Clinical Cases RUSH Cases SonoSim LiveScan® Cardiac Resuscitation Cases SonoSim LiveScan® Critical Care Cases	✓
Identification of vertebral shadow, aorta, IVC, and iliac bifurcation with proximal, mid, and distal imaging views	Aorta/IVC Anatomy & Physiology: Aortic Sonographic Anatomy, IVC Sonographic Anatomy	Aorta/IVC Core Clinical Cases	✓
Scan from xiphoid to umbilicus in transverse and longitudinal views to assess for fusiform vs. saccular aneurysm and proximal iliac artery aneurysm; evaluate for intramural thrombus detection	Aorta/IVC Anatomy & Physiology: Sonographic Technique Aorta/IVC Core Clinical: Aortic Anatomy, Aortic Case Studies	Aorta/IVC Core Clinical Cases RUSH Cases	✓
Use of Doppler waveform imaging/color Doppler	Aorta/IVC Anatomy & Physiology: Sonographic Technique	--	✓
Aorta Advanced Ultrasound Skills (Optional)	Aorta/IVC Courses	SonoSimulator Cases to Scan	
Proximal aortic root aneurysm or dissection	FoCUS Part I: Imaging Windows	Cardiology Cases SonoSim LiveScan® Cardiac Resuscitation Cases	✓
Abdominal aortic dissection	Aorta/IVC Core Clinical: Aortic Case Studies	RUSH Cases	✓

Biliary/Abdominal			
AAFP Guideline	SonoSim Curriculum		Covered
Biliary/Abdominal Basic Ultrasound Skills	Intestinal/Biliary Course	SonoSimulator Cases to Scan	
Assess for symptomatic cholelithiasis: Identify presence of gallstone versus polyp or artifact	Gallbladder Evaluation	Intestinal/Biliary Cases SonoSim LiveScan® Hepatobiliary Cases SonoSim LiveScan® Early & Late Stage Pregnancy Cases	✓
Assess for acute cholecystitis: Presence of stones, sonographic Murphy sign, anterior gallbladder wall thickening, and pericholecystic fluid	Gallbladder Evaluation	Intestinal/Biliary Cases RUSH Cases SonoSim LiveScan® Hepatobiliary Cases SonoSim LiveScan® Early & Late Stage Pregnancy Cases	✓
Assess for common bile obstruction	Common Bile Duct Evaluation	--	✓
Biliary/Abdominal Advanced Ultrasound Skills	Biliary/Abdominal Courses	SonoSimulator Cases to Scan	
Appendicitis	Intestinal/Biliary: Appendicitis	Intestinal/Biliary Cases	✓
Hepato-splenomegaly	Liver: Anatomy, Sonographic Anatomy, Sonographic Technique Spleen: Anatomy, Sonographic Anatomy, Sonographic Technique	eFAST Cases & FAST Cases RUSH Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Trauma Care Cases SonoSim LiveScan® Hepatobiliary Cases	✓
Small bowel obstruction	Intestinal/Biliary: Small Bowel Obstruction	Intestinal/Biliary Cases	✓

*Biliary/Abdominal Advanced Ultrasound Skills not covered: Inguinal hernia

Genitourinary Tract			
AAFP Guideline	SonoSim Curriculum		Covered
Genitourinary Basic Ultrasound Skills	Genitourinary Courses	SonoSimulator Cases to Scan	
Evidence of ureteral stone or obstructive process: Identify mild, moderate, and severe hydronephrosis	Bladder Core Clinical: Case Pathologies Renal Core Clinical: Obstructive Uropathy, Case Studies	Renal Core Clinical Cases Intestinal/Biliary Core Clinical Cases SonoSim LiveScan® Genitourinary Cases SonoSim LiveScan® Early & Late Stage Pregnancy Cases	✓
Urinary retention and post-void residual volume: Calculate bladder volume and post-void residual	Bladder Core Clinical: Bladder Volume Measurement	Bladder Core Clinical Cases Renal Core Clinical Cases	✓
Genitourinary Advanced Ultrasound Skills (Optional)	Genitourinary Courses	SonoSimulator Cases to Scan	
Stone identification	Bladder Core Clinical: Case Pathologies Renal Core Clinical: Obstructive Uropathy, Case Studies	Renal Core Clinical Cases eFAST Cases SonoSim LiveScan® Genitourinary Cases	✓
Use of Doppler waveform imaging/color Doppler	Bladder Core Clinical: Case Pathologies	SonoSim LiveScan® Genitourinary Cases	✓
Testicular torsion	Scrotum: Sonographic Technique	--	✓
Ovarian torsion	GYN Ultrasound Nonmalignant Adnexal Conditions: Adnexal Torsion	SonoSim LiveScan® Early Stage Pregnancy Cases	✓
Prostate volume	Prostate: Anatomy, Sonographic Anatomy	Prostate Cases	✓

*Genitourinary Advanced Ultrasound Skills not covered: Acute versus chronic obstruction, Hydrocele, Varicocele, Epididymitis, & Orchitis

Deep Venous Thrombosis (DVT)			
AAFP Guideline	SonoSim Curriculum		Covered
DVT Basic Ultrasound Skills (Lower Extremities)	Vascular Courses	SonoSimulator Cases to Scan	
Use of Doppler waveform imaging/color Doppler	DVT: Sonographic Technique, Case Studies Leg-Venous: Sonographic Technique	DVT Cases RUSH Cases SonoSim LiveScan® Critical Care Cases	✓
Know difference between vein, artery, nerve, and lymph node	Leg-Arterial: Anatomy, Sonographic Technique Leg-Venous: Anatomy, Sonographic Technique	Leg-Arterial Cases Leg-Venous Cases	✓
Low-risk patient: Utilize 2-zone discrimination technique- compression at proximal femoral vein zone and popliteal vein zone. High-risk patient: Complete compression of lower extremity from common femoral vein to popliteal vein	DVT: POCUS DVT Examination	DVT Cases	✓
Differentiate DVT from cellulitis of lower extremity, superficial thrombophlebitis, and Baker cyst	DVT: Case Studies	DVT Cases	✓
DVT Advanced Ultrasound Skills (Upper Extremities) (Optional)	Vascular Courses	SonoSimulator Cases to Scan	
Anatomy of internal jugular, subclavian, axillary, brachial, basilic, and cephalic veins	Arm-Venous: Anatomy, Sonographic Technique Cerebrovascular: Anatomy, Sonographic Anatomy, Sonographic Technique	Arm-Venous Cases Cerebrovascular Cases	✓

Soft Tissue & Musculoskeletal			
AAFP Guideline	SonoSim Curriculum		Covered
Soft Tissue & Musculoskeletal Basic Ultrasound Skills	Soft Tissue Core Clinical Course	SonoSimulator Cases to Scan	
Cellulitis versus abscess	Cellulitis and Abscess Imaging	Soft Tissue Core Clinical Cases	✓
Foreign body	Foreign Bodies, Foreign Body Removal Techniques	--	✓
Soft Tissue & Musculoskeletal Basic Ultrasound Skills	Musculoskeletal Core Clinical Course	SonoSimulator Cases to Scan	
Joint effusions/bursitis	Effusion Evaluation	Musculoskeletal Cases	✓
Fractures	Bone Evaluation	Musculoskeletal Cases Soft Tissue Core Clinical Cases	✓
Tendon rupture/tear & tendonitis/tendinopathy	Tendon Evaluation	--	✓
Risks, benefits, indications, and contraindications to ultrasound-guided injection and aspiration	Effusion Evaluation Introduction to US-Guided Procedures: Introduction	--	✓
Soft Tissue & Musculoskeletal Advanced Ultrasound Skills	MSK Courses	SonoSimulator Cases to Scan	
Shoulder: Rotator cuff integrity and scanning protocols	Shoulder: Anatomy & Physiology, Sonographic Anatomy & Technique	Shoulder Cases	✓
Knee: Medial collateral ligament, lateral collateral ligament, and patellar tendon integrity	Knee: Anatomy, Sonographic Anatomy, Sonographic Technique	Knee Cases	✓
Ankle: Anterior talofibular ligament, calcaneofibular ligament, and posterior talofibular ligament integrity	Ankle: Anatomy, Sonographic Anatomy, Sonographic Technique	Ankle Cases	✓
Median nerve area and ultrasound features suggestive of carpal tunnel syndrome	Wrist: Anatomy, Sonographic Anatomy, Sonographic Technique	Wrist Cases	✓

Pulmonary			
AAFP Guideline	SonoSim Curriculum		Covered
Pulmonary Basic Ultrasound Skills	Basic Lungs Course	SonoSimulator Cases to Scan	
Pulmonary ultrasound anatomy: Ribs, pleura, lung tissue, diaphragm, description of lung zones for scanning	Anatomy, Sonographic Anatomy, Sonographic Technique	Basic Lungs Cases	✓
Pulmonary Basic Ultrasound Skills	Pulmonary Course	SonoSimulator Cases to Scan	
Pulmonary ultrasound anatomy: Ribs, pleura, lung tissue, diaphragm, description of lung zones for scanning	Lung Evaluation	Pulmonary Cases	✓
Pulmonary ultrasound artifacts: A-line pattern, B-line pattern, and pleura ultrasound artifacts: evidence of lung sliding	Imaging Adjuncts, Imaging Artifacts	Pulmonary Cases	✓
Assess for CHF: Presence of bilateral B lines in multiple lung zones	Alveolar Interstitial Syndrome	Pulmonary Cases	✓
Assess for pneumonia: Focal B line pattern and other sonographic sign	Alveolar Interstitial Syndrome, Lung Consolidation	Pulmonary Cases	✓
Assess for pneumothorax: Lack of lung sliding	Pneumothorax Rule-Out, Pneumothorax Rule-In	eFAST Cases Pulmonary Cases RUSH Cases SonoSim LiveScan® Cardiac Resuscitation Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Trauma Care Cases	✓
Assess for pleural effusion and hemothorax	Pleural Effusion	Cardiology Cases FoCUS Part I Cases eFAST Cases Pulmonary Cases RUSH Cases SonoSim LiveScan® Cardiac Resuscitation Cases SonoSim LiveScan® Critical Care Cases SonoSim LiveScan® Trauma Care Cases	✓
Pulmonary Advanced Ultrasound Skills	Pulmonary Course	SonoSimulator Cases to Scan	
Acute respiratory distress syndrome (ARDS)	Alveolar Interstitial Syndrome	--	✓
Chronic interstitial lung disease	Alveolar Interstitial Syndrome	--	✓
Interstitial pneumonia	Alveolar Interstitial Syndrome	--	✓

*Pulmonary Basic Ultrasound Skills not covered: Assess for asthma/COPD exacerbation

*Pulmonary Advanced Ultrasound Skills not covered: Pleural-based masses

Ocular

AAFP Guideline	SonoSim Curriculum		Covered
Ocular Basic Ultrasound Skills	Ocular Course	SonoSimulator Cases to Scan	
Detached retina	Retinal Detachment	Ocular Cases	✓
Vitreous detachment	Vitreous Detachment	Ocular Cases	✓
Vitreous hemorrhage	Vitreous Hemorrhage	Ocular Cases	✓
Ocular Advanced Ultrasound Skills (Optional)	Ocular Course	SonoSimulator Cases to Scan	
Intraocular foreign body	Ocular Trauma	Ocular Cases	✓
Papilledema	Optic Nerve Evaluation and ICP	Ocular Cases	✓
Lens dislocation	Ocular Trauma	--	✓

*Ocular Advanced Ultrasound Skills not covered: Eccentric pupillary light reflex in ocular trauma

Procedural Guidance

AAFP Guideline	SonoSim Curriculum		Covered
Procedures Basic Ultrasound Skills	Procedures Courses	SonoSimulator Cases to Scan	
Thoracentesis	Thoracentesis: All Lessons <i>[In Development]</i>	Thoracentesis Cases <i>[In Development]</i>	
Paracentesis	Paracentesis: All Lessons <i>[In Development]</i>	Paracentesis Cases <i>[In Development]</i>	
Peripheral IV placement	Peripheral Venous Access: All Lessons	Peripheral Venous Access Cases	✓
Central line placement	US-Guided Internal Juglar Vein Cannulation: All Lessons	US-Guided Internal Juglar Vein Cannulation Cases	✓
	US-Guided Subclavian Vein Cannulation: All Lessons	US-Guided Subclavian Vein Cannulation Cases	
	US-Guided Femoral Line Placement: All Lessons	US-Guided Femoral Line Placement Cases	
Knee aspiration and injection	Musculoskeletal Core Clinical: Effusion Evaluation	--	✓
Foreign body identification and removal	Soft Tissue Core Clinical: Foreign Bodies, Foreign Body Removal Techniques	--	✓

*Procedures Basic Ultrasound Skills not covered: Lumbar puncture

*Optional Advanced Procedures Ultrasound Skills not covered: Nerve blocks; Fine needle aspiration/biopsy; & Shoulder, ankle, hip, wrist aspiration, and injection

Clinical Protocols

AAFP Guideline	SonoSim Curriculum		Covered
Clinical Protocols Ultrasound Skills	Protocol Courses	SonoSimulator Cases to Scan	
FAST/E-FAST: Focused assessment with sonography for trauma	eFAST: All Lessons FAST: All Lessons	eFAST Cases FAST Cases	✓
RUSH: Rapid ultrasound for shock and hypotension	RUSH: All Lessons	RUSH Cases	✓
BLUE: Bedside lung ultrasound in emergency	Pulmonary: All Lessons	Pulmonary Cases	✓
CLUE: Cardiac limited ultrasound exam	Cardiology: IVC Evaluation and CVP, Case Studies FoCUS Part I: Cardiac Output Measurements, Pulmonary Artery Pressure Measurements	Heart Cases Cardiology Cases FoCUS Part I Cases	✓
FEEDS criteria (see OB/GYN section)	First-Trimester Pregnancy: First-Trimester Pregnancy Ultrasound, Detecting Pregnancy Failure	First-Trimester Pregnancy Cases	✓