



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 | | | |
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| AAPF 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 | | | |
|---|---|---|---------|
| AAPF 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 | | | |
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| 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 | | | |
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| 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) | | | |
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| 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 | | | |
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| 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 | | | |
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| 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 |
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| 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 | ✓ |