

In 2018, the American Institute of Ultrasound in Medicine (AIUM), in collaboration with various professional women's health societies, released their [Practice Parameter for the Performance of Limited Obstetric Ultrasound Examinations by Advanced Clinical Providers](#). The goal of this practice parameter is to assist "women's health nurse practitioners (WHNPs), physician assistants in obstetrics and gynecology (PAOGs), and certified nurse-midwives (CNMs)/certified midwives (CMs) performing and interpreting limited obstetric ultrasound studies within their scopes of practice."¹

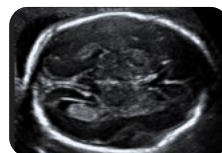
The award-winning, patented SonoSim Ultrasound Training Solution matches these industry recommendations through an ecosystem of cloud-based courses, knowledge assessments, interactive SonoSimulator® scanning cases, performance tracking, and access to real-patient pathology.

Limited First-Trimester Examination



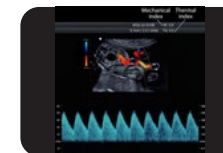
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Limited Second- or Third-Trimester Examination



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General Considerations



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Limited First-Trimester Examination (Up to 13 6/7 Weeks)

Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Presence, size, location, and number of gestational sac(s)	<i>OB/GYN Core Clinical: Embryology, Pathologic Conditions</i> <i>Advanced First-Trimester Pregnancy: First-Trimester Pregnancy Ultrasound, Pregnancy Dating Using Ultrasound, Detecting Pregnancy Failure, Pathologic Conditions</i>	<i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy Cases</i>
Presence or absence of yolk sac		
Presence or absence of embryo/fetus: singleton	<i>OB/GYN Core Clinical: Embryology, Pathologic Conditions</i> <i>Advanced First-Trimester Pregnancy: First-Trimester Pregnancy Ultrasound, Detecting Pregnancy Failure, Special Scenarios</i>	
Estimation of gestational age using crown-rump length (CRL)	<i>OB/GYN Core Clinical: Pathologic Conditions</i> <i>Advanced First-Trimester Pregnancy: First-Trimester Pregnancy Ultrasound, Pregnancy Dating Using Ultrasound</i>	
Presence or absence of cardiac activity (record by M-mode or 2D video clip)	<i>OB/GYN Core Clinical: Embryology, Pathologic Conditions</i> <i>Advanced First-Trimester Pregnancy: General Considerations, Detecting Pregnancy Failure, Pathologic Conditions</i>	<i>Female Pelvis Anatomy & Physiology Cases</i> <i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i> <i>Advanced GYN Normal Uterus Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy Cases</i>
Cervix	<i>Female Pelvis Anatomy & Physiology: Anatomy, Sonographic Anatomy & Technique</i> <i>OB/GYN Core Clinical: Anatomy, Sonographic Anatomy & Technique</i> <i>Advanced First-Trimester Pregnancy: Anatomy, Pathologic Conditions</i> <i>Advanced GYN Normal Uterus: Normal Anatomy, Sonographic Technique, Case Studies</i>	

¹American Institute of Ultrasound in Medicine. AIUM Practice Parameter for the Performance of Limited Obstetric Ultrasound Examinations by Advanced Clinical Providers. *J Ultrasound Med.* 2018;37(7):1587-1596. doi:10.1002/jum.14677

Limited First-Trimester Examination (Up to 13 6/7 Weeks)		
Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Cul-de-sac (including presence or absence of fluid)	<i>Female Pelvis Anatomy & Physiology: Anatomy, Physiology, Sonographic Anatomy & Technique</i> <i>OB/GYN Core Clinical: Anatomy, Sonographic Anatomy & Technique, Embryology, Pathologic Conditions</i> <i>Advanced First-Trimester Pregnancy: Anatomy, Pathologic Conditions</i> <i>Advanced GYN Normal Adnexa: Female Pelvis Physiology</i> <i>Advanced GYN Normal Uterus: Female Pelvis Physiology, Sonographic Technique, Case Studies</i>	<i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i> <i>Advanced GYN Malignant Adnexal Conditions Cases</i> <i>Advanced GYN Normal Uterus Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy & Genitourinary Cases</i>
Uterus	<i>OB/GYN Core Clinical: Anatomy, Sonographic Anatomy & Technique, Embryology, Pathologic Conditions, Case Studies</i> <i>Advanced First-Trimester Pregnancy: Anatomy, Sonographic Imaging Techniques, First-Trimester Pregnancy Ultrasound, Pathologic Conditions</i> <i>Advanced GYN Abnormal Uterus Part I & II: All Lessons</i> <i>Advanced GYN Normal Adnexa: Adnexal Anatomy, Female Pelvis Physiology, Sonographic Anatomy & Technique</i> <i>Advanced GYN Normal Uterus: All Lessons</i>	<i>Female Pelvis Anatomy & Physiology Cases</i> <i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i> <i>Advanced GYN Abnormal Uterus Part I & II Cases</i> <i>Advanced GYN Malignant Adnexal Conditions Cases</i> <i>Advanced GYN Nonmalignant Adnexal Conditions Cases</i> <i>Advanced GYN Normal Adnexa Cases</i> <i>Advanced GYN Normal Uterus Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy Cases</i>
Adnexa (including presence, location, appearance, and size of adnexal findings)	<i>OB/GYN Core Clinical: Pathologic Conditions, Case Studies</i> <i>Advanced First-Trimester Pregnancy: Pathologic Conditions</i> <i>Advanced GYN Malignant Adnexal Conditions: All Lessons</i> <i>Advanced GYN Nonmalignant Adnexal Conditions: All Lessons</i> <i>Advanced GYN Normal Adnexa: All Lessons</i>	<i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i> <i>Advanced GYN Malignant Adnexal Conditions Cases</i> <i>Advanced GYN Nonmalignant Adnexal Conditions Cases</i> <i>Advanced GYN Normal Adnexa Cases</i>
Intrauterine fluid collection	<i>Advanced First-Trimester Pregnancy: First-Trimester Pregnancy Ultrasound</i>	<i>OB/GYN Core Clinical Cases</i> <i>Advanced First-Trimester Pregnancy Cases</i>
Estimating a due date		<i>Advanced First-Trimester Pregnancy Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy Cases</i>

Limited Second- or Third-Trimester Examination		
Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Fetal number: singleton	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Twin Gestation</i>	<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i>
Cardiac activity (record by M-mode or 2D video clip)	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Basic Fetal Anatomy</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Biophysical Profile, Fetal Weight, Intrauterine Growth Restriction, & Fetal Macrosomia</i>	<i>OB/GYN Challenge Cases</i> <i>SonoSim LiveScan® Early Stage, Late Stage Pregnancy, & Six-Step Obstetric Examination Cases [Coming Soon Late Q2 2022]</i>

Limited Second- or Third-Trimester Examination

Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Determination of fetal presentation	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Fetal Lie & Presentation</i>	<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Placental location with respect to internal cervical os	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Imaging Tips & Pitfalls, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Placental Evaluation</i>	<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Evaluation of amniotic fluid volume (single deepest vertical pocket [DVP] or 4-quadrant amniotic fluid index [AFI])	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Imaging Tips & Pitfalls, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Basic Fetal Anatomy</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Assessment of Extrafetal Anatomy, Amniotic Fluid Assessment, Biophysical Profile</i>	<i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Oligohydramnios and polyhydramnios	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Basic Fetal Anatomy</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Amniotic Fluid Assessment</i>	--
Fetal biometry (biparietal diameter and/or head circumference, abdominal diameter or abdominal circumference if estimating fetal weight, femoral diaphysis length)	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Imaging Tips & Pitfalls, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Fetal Biometry & Pregnancy Dating</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Fetal Weight, Intrauterine Growth Restriction, & Fetal Macrosomia</i>	<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy, Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Cerebellum	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Case Study</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Basic Fetal Anatomy, Fetal Biometry & Pregnancy Dating</i>	<i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>OB/GYN Challenge Cases</i>
Midline falx		<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>OB/GYN Challenge Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Thalami		
Cavum septi pellucidi		
Stomach		<i>Six-Step Obstetric Examination Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Umbilical vein as it courses through the liver		
Femoral diaphysis		
Estimation of gestational age	<i>Six-Step Obstetric Examination: Sonographic Anatomy & Technique, Case Study</i> <i>Advanced Second- & Third-Trimester Part I: Fetal Biometry & Pregnancy Dating</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Fetal Weight, Intrauterine Growth Restriction, & Fetal Macrosomia</i>	<i>SonoSim LiveScan® Late Stage Pregnancy & Six-Step Obstetric Examination Cases</i> <i>[Coming Soon Late Q2 2022]</i>
Evaluation of fetal growth, size/date discrepancy	<i>Advanced Second- & Third-Trimester Pregnancy Part II: Fetal Weight, Intrauterine Growth Restriction, & Fetal Macrosomia</i>	<i>Advanced Second- & Third-Trimester Pregnancy Part II Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy Cases</i>

Limited Second- or Third-Trimester Examination

Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Evaluation of fetal well-being	<i>Advanced Second- & Third-Trimester Pregnancy Part II: Assessment of Extrafetal Anatomy, Biophysical Profile</i>	<i>Advanced Second- & Third-Trimester Pregnancy Part II Cases</i> <i>OB/GYN Challenge Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy Cases</i>
Evaluation for vasa previa using color-flow doppler	<i>Advanced Second- & Third-Trimester Pregnancy Part II: Placental Evaluation</i>	<i>Advanced Second- & Third-Trimester Pregnancy Part II Cases</i>
Adjunct ultrasound guidance for amniocentesis	<i>Advanced Second- & Third-Trimester Pregnancy Part II: Amniotic Fluid Assessment</i>	--
Transvaginal cervical length measurement for risk stratification with respect to preterm delivery	<i>Advanced Second- & Third-Trimester Pregnancy Part I: Cervical Length</i>	<i>OB/GYN Core Clinical Cases*</i>
Head shape variation (dolichocephaly and brachycephaly)	<i>Advanced Second- & Third-Trimester Part I: Basic Fetal Anatomy</i>	<i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i>
Uterus	<i>OB/GYN Core Clinical: Anatomy, Sonographic Anatomy & Technique, Embryology, Pathologic Conditions, Case Studies</i> <i>Advanced GYN Abnormal Uterus Part I & II: All Lessons</i> <i>Advanced GYN Normal Adnexa: Adnexal Anatomy, Female Pelvis Physiology, Sonographic Anatomy & Technique</i> <i>Advanced GYN Normal Uterus: All Lessons</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Assessment of Extrafetal Anatomy, Fetal Lie & Presentation</i>	<i>Female Pelvis Anatomy & Physiology Cases</i> <i>OB/GYN Core Clinical Cases</i> <i>Advanced GYN Abnormal Uterus Part I & II Cases</i> <i>Advanced GYN Malignant Adnexal Conditions Cases</i> <i>Advanced GYN Nonmalignant Adnexal Conditions Cases</i> <i>Advanced GYN Normal Adnexa Cases</i> <i>Advanced GYN Normal Uterus Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy & Late Stage Pregnancy Cases</i>
Cervix	<i>Female Pelvis Anatomy & Physiology: Anatomy, Sonographic Anatomy & Technique</i> <i>OB/GYN Core Clinical: Anatomy, Sonographic Anatomy & Technique</i> <i>Advanced GYN Normal Uterus: Normal Anatomy, Sonographic Technique, Case Studies</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: Cervical Length</i> <i>Advanced Second- & Third-Trimester Pregnancy Part II: Assessment of Extrafetal Anatomy</i>	<i>Female Pelvis Anatomy & Physiology Cases</i> <i>OB/GYN Core Clinical Cases</i> <i>Advanced GYN Normal Uterus Cases</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I & II Cases</i> <i>SonoSim LiveScan® Early Stage Pregnancy & Late Stage Pregnancy Cases</i>
Adnexa	<i>OB/GYN Core Clinical: Pathologic Conditions, Case Studies</i> <i>Advanced GYN Malignant Adnexal Conditions: All Lessons</i> <i>Advanced GYN Nonmalignant Adnexal Conditions: All Lessons</i> <i>Advanced GYN Normal Adnexa: All Lessons</i>	<i>OB/GYN Core Clinical Cases</i> <i>Advanced GYN Malignant Adnexal Conditions Cases</i> <i>Advanced GYN Nonmalignant Adnexal Conditions Cases</i> <i>Advanced GYN Normal Adnexa Cases</i> <i>SonoSim LiveScan® Late Stage Pregnancy Cases</i>
Biophysical profile (BPP) (fetal breathing movements, fetal body movements, fetal tone, amniotic fluid volume)	<i>Advanced Second- & Third-Trimester Pregnancy Part II: Biophysical Profile</i>	--

*Non-pregnant cervix measurement training

General Considerations		
Learning Objective	SonoSim Course & Lesson	Relevant SonoSimulator Cases
Image documentation, image retention, and reporting of the limited obstetric ultrasound examination	<i>Six-Step Obstetric Examination: Introduction</i> <i>Advanced First-Trimester Pregnancy: General Considerations</i>	<i>All SonoSim GYN Cases</i>
As low as reasonably achievable (ALARA) principle	<i>Fundamentals of Ultrasound: Infection Control & Biosafety</i> <i>Advanced First-Trimester Pregnancy: General Considerations</i> <i>Advanced Second- & Third-Trimester Pregnancy Part I: General Considerations</i>	--
Thermal index for soft tissue (TIS)	<i>Advanced First-Trimester Pregnancy: General Considerations</i>	
Thermal index for bone (TIB)		
Quality control	<i>Advanced GYN Normal Adnexa: Sonographic Anatomy & Technique</i> <i>Advanced GYN Normal Uterus: Sonographic Technique</i>	
Patient education	<i>Advanced First-Trimester Pregnancy: General Considerations</i>	
Transducer selection	<i>OB/GYN Core Clinical: Sonographic Anatomy & Technique</i> <i>Advanced First-Trimester Pregnancy: Sonographic Imaging Techniques</i> <i>Advanced GYN Normal Adnexa: Sonographic Anatomy & Technique</i> <i>Advanced GYN Normal Uterus: Sonographic Technique</i> <i>Second- & Third-Trimester Pregnancy Part I: General Considerations</i>	<i>All SonoSim Cases</i>
Infection control & safety	<i>All SonoSim GYN Courses</i>	--

Concepts Not Covered

Limited First Trimester Examination: Adjunct ultrasound guidance for chorionic villus sampling, embryo transfer, and localization and removal of an intrauterine contraceptive device

Limited Second- & Third-Trimester Examination: Columns of the fornix, Adjunct ultrasound guidance for external cephalic version or other procedure