

NCP Version 7.0		Gen	Card	Vasc	Changes from 6.1 to 7.0	NCP Version 6.1				Core	Gen	Card	Vasc
1.0 COMMUNICATION					1.0 COMMUNICATION								
1.1 Oral communication					1.1 Oral communication								
1.1.1	Identify self to patient .	C	C	C	No change	1.1a	Identify self to patient.	C					
1.1.2	Explain examination procedure to patient.	C	C	C	No change	1.1e	Explain examination procedure to patient.	C					
1.1.3	Question patient to obtain relevant information regarding history and condition.	C	C	C	No change	1.1f	Question patient to obtain relevant information regarding history and condition.	C					
1.1.4	Communicate departmental reporting procedures to patient.	C	C	C	No change	1.1g	Communicate departmental reporting procedures to patient.	C					
1.1.5	Respond to patient questions or concerns.	C	C	C	No change	1.1h	Respond to patient questions or concerns.	C					
1.1.6	Communicate with patient's relatives and / or support persons.	C	C	C	No change	1.1i	Communicate with patient's relatives and / or support persons.	C					
1.1.7	Adapt communication in response to patient factors and situation.	C	C	C	REVISED: Added "factors".	1.1b	Adapt communication in response to patient and situation.	C					
1.1.8	Use medical terminology in oral communication with healthcare professionals.	C	C	C	REVISED: Combined 1.1j and 1.1k	1.1j	Communicate with other health care professionals.	C					
						1.1k	Use medical terminology and standard abbreviations in oral communication.	C					
1.1.9	Employ conflict resolution strategies.	S	S	S	REVISED: Changed verb from "Apply" to "Employ".	1.1l	Apply conflict resolution strategies.	S					
1.2 Written communication					1.2 Written communication								
1.2.1	Verify written, authorized directions for examination.	C	C	C	No change	1.2a	Verify written, authorized directions for examination.	C					
1.2.2	Record accurate and relevant medical history.	C	C	C	No change	1.2b	Record accurate and relevant medical history.	C					
1.2.3	Record examination procedures and results.	C	C	C	No change	1.2c	Record examination procedures and results.	C					
1.2.4	Ensure that documentation is timely, accurate, concise and complete.	C	C	C	No change	1.2d	Ensure that documentation is timely, accurate, concise and complete.	C					
1.2.5	Use medical terminology in written communication with healthcare professionals.	C	C	C	REVISED: Reworded to clarify competency.	1.2e	Write medical terminology and standard abbreviations.	C					
1.3 Non-verbal communication					1.3 Non-verbal communication								
1.3.1	Demonstrate professional and compassionate body language .	C	C	C	REVISED: Changed "Use appropriate" to "Demonstrate professional and compassionate"	1.3a	Use appropriate body language.	C					
1.3.2	Respond appropriately to non-verbal behaviours.	C	C	C	No change	1.3b	Respond appropriately to non-verbal behaviours.	C					

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2.0 PROFESSIONALISM					2.0 PROFESSIONAL RESPONSIBILITIES					
2.1 Legal and ethical requirements					2.1 Legal and ethical requirements					
2.1.1	Adhere to relevant provincial and federal legislation and regulations .	C	C	C	Assessment Environment: changed from A to C.	2.1a	Adhere to relevant provincial and federal legislation and regulations.	A		
2.1.2	Adhere to relevant professional scope of practice and code of ethics .	C	C	C		2.1b	Adhere to relevant professional scope of practice and code of ethics.	A		
2.1.3	Comply with requirements of provincial regulatory body , including applicable Standards of Practice and sexual abuse prevention guidelines.	C	C	C		2.1d	Comply with requirements of provincial regulatory body, including applicable Standards of Practice and sexual abuse prevention guidelines.	A		
2.1.4	Describe the structure and function of sonography regulators , unions, and associations.	A	A	A	NEW					
2.2 Professional Responsibilities					2.2 Professional judgement					
2.2.1	Create an environment that respects patient dignity and modesty.	C	C	C	REVISED: Changed "protects" to "respects" & added "modesty".	3.1f	Create an environment that protects patient dignity.	C		
2.2.2	Verify patient's identification.	C	C	C	No change	2.2a	Verify patient's identification.	C		
2.2.3	Maintain privacy and confidentiality .	C	C	C	REVISED: Removed "patient"	2.1e	Maintain patient privacy and confidentiality.	C		
2.2.4	Obtain and ensure ongoing informed consent.	C	C	C	REVISED: Added "Obtain" & removed "patient"	2.1f	Ensure informed patient consent.	C		
2.2.5	Verify that requested procedure correlates with patient's clinical history and presentation.	C	C	C	REVISED: Removed "and address concerns as appropriate".	2.2b	Verify that requested procedure correlates with patient's clinical history and presentation, and address concerns as appropriate.	C		
2.2.6	Evaluate patient preparation for requested examination.	C	C	C	No change	2.2c	Evaluate patient preparation for requested examination.	C		
2.2.7	Evaluate and address contraindications to procedures.	C	C	C	REVISED: Changed "procedure" to "procedures" & removed "and address as appropriate".	2.2f	Evaluate and address for contraindications to procedure and address as appropriate.	C		
2.2.8	Determine the need for presence of a chaperone.	C	C	C	REVISED: Changed verb from "Recognize" to "Determine". Assessment Environment: changed from A to C.	2.3k	Recognize need for presence of a chaperone.	A		
2.2.9	Identify and respond to urgent sonographic findings.	C	C	C	No change	2.2h	Identify and respond to urgent sonographic findings.	C		

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		Core	Gen	Card	Vasc						
2.2.10	Identify and respond to exceptions from established protocols and procedures.	C	C	C	No change	2.2g	Identify and respond to exceptions from established protocols and procedures.	C			
2.2.11	Practice within limits of personal knowledge, skill and judgement.	C	C	C	No change	2.2d	Practice within limits of personal knowledge, skill and judgement.	C			
2.2.12	Ask for guidance where appropriate.	C	C	C	No change	2.2e	Ask for guidance where appropriate.	C			
2.2.13	Demonstrate accountability for decisions and actions.	C	C	C	REVISED: Changed "Accept responsibility" to "Demonstrate accountability".	2.2i	Accept responsibility for decisions and actions.	C			
2.3	Professional conduct					2.3	Professional conduct				
2.3.1	Maintain appropriate personal boundaries with patients, their families, colleagues, and the public.	C	C	C	NEW						
2.3.2	Build the sonographer-patient relationship.	C	C	C	NEW						
2.3.3	Provide care in a manner that is respectful of individual diversity.	C	C	C	REVISED: Removed "for patient"	2.3b	Provide care for patient in a manner that is respectful of individual diversity.	C			
2.3.4	Describe the inter / intraprofessional roles commonly encountered in the workplace.	A	A	A	REVISED: Changed verb from "Understand" to "Describe".	2.3c	Understand the inter / intraprofessional roles commonly encountered in the workplace.	A			
2.3.5	Collaborate with inter / intraprofessional team members to optimize patient care.	S	S	S	REVISED: Changed "in decision making" to "to optimize patient care".	2.3d	Collaborate with inter / intraprofessional team members in decision making.	S			
2.3.6	Share knowledge with patients, colleagues, students and other members of healthcare team.	C	C	C	No change	2.3e	Share knowledge with patients, colleagues, students and other members of healthcare team.	C			
2.3.7	Provide and receive constructive feedback in a professional manner.	C	C	C	REVISED: Added "constructive"	2.3f	Provide and receive feedback in a professional manner.	C			
2.3.8	Respond to and disclose adverse events .	A	A	A	REVISED: Removed "Recognize".	2.3i	Recognize, respond to and disclose adverse events.	A			
	Describe professional liability .	A	A	A	REVISED: Changed verb from "Demonstrate awareness of" to "Describe".	2.3m	Demonstrate awareness of professional liability.	A			
2.4	Social Responsibility										
2.4.1	Demonstrate culturally safe practice .	C	C	C	NEW: Was discussed for 6.1 and was a priority for 7.0, required by the regulator.						
2.4.2	Demonstrate cultural humility .	C	C	C							
2.4.3	Practice anti-racism .	C	C	C							

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		Core	Gen	Card	Vasc				
2.4.4	Engage in practices that integrate Indigenous knowledge to align with the calls to Action of the Truth and Reconciliation Commission of Canada .	C	C	C					
2.4.5	Provide inclusive and safe care based on patient factors including determinants of health .	C	C	C					
2.5	Professional development					2.4	Maintenance of competence		
2.5.1	Engage in self-reflection to critically evaluate performance and establish goals for self-improvement.	C	C	C	REVISED: Reworded to incorporate self-reflection.	2.4a	Critically appraise performance and set goals for self-improvement.	C	
2.5.2	Consolidate and apply relevant peer-reviewed research to practice.	A	A	A	REVISED: Reworded to clarify competency.	2.4b	Review professional literature and assess relevance to practice.	A	
2.5.3	Describe the importance of continuing professional development.	A	A	A	REVISED: Changed verb from "Demonstrate awareness of" to "Describe".	2.4c	Demonstrate awareness of need for continuing professional development.	A	
2.5.4	Describe current and emerging issues in health care relevant to the practice of sonography.	A	A	A	REVISED: Changed verb from "Maintain awareness of" to "Describe".	2.3n	Maintain awareness of current and emerging issues in health care relevant to the practice of sonography.	A	
2.5.5	Describe emerging technological developments in the field of sonography.	A	A	A	REVISED: Changed verb from "Maintain awareness of" to "Describe". Removed "current".	2.3o	Maintain awareness of current and emerging technological developments in the field of sonography.	A	
2.5.6	Apply the foundations of scientific inquiry .	A	A	A	NEW				
2.5.7	Identify opportunities for continuous quality improvement and/or innovations.	A	A	A	NEW				
3.0	ASSESSMENT AND IMAGING					3.0	PATIENT ASSESSMENT AND CARE		
3.1	Examination Planning					5.1	Examination planning		
3.1.1	Assess for signs and symptoms of disease.	C	C	C	REVISED: Removed "vascular". Assessment Environment: Added C to Generalist & Cardiac.	3.3g	Assess for signs and symptoms of vascular disease.		C
3.1.2	Interpret history, signs & symptoms and other relevant information.	C	C	C	No change	5.1a	Interpret history, signs & symptoms and other relevant information.	C	
3.1.3	Correlate results from other relevant diagnostic testing .	A	A	A	REVISED: Reworded to incorporate many different types of diagnostic testing.	5.2a	Correlate results from laboratory tests, aspirations and biopsies.	A	

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						5.2b	Correlate results from diagnostic imaging testing (radiography, computerized tomography, nuclear medicine and magnetic resonance studies).	A			
						5.2c	Correlate results from obstetric testing (amniocentesis, chorionic villus sampling, chromosome analysis, cell free DNA, dilation and curettage, non-stress testing).		A		
						5.2d	Correlate results from cardiac testing (ECG, Holter monitoring, stress ECG).			A	
						5.2e	Correlate results from oximetry and / or auscultation.			A	A
3.1.4	Integrate knowledge of anatomy and disease processes.	C	C	C	No change	5.1e	Integrate knowledge of anatomy and disease processes.	C			
3.1.5	Formulate sonographic scanning strategies.	C	C	C	No change	5.1d	Formulate sonographic scanning strategies.	C			
3.2	Operation of equipment					4.2	Operation of Equipment				
3.2.1	Apply physics principles in sonographic imaging.	C	C	C	NEW						
3.2.2	Input patient information.	C	C	C	REVISED: Changed "data" to "information".	4.1c	Input patient data.	C			
3.2.3	Select optimum system and transducer for examination considering patient factors, structures being examined and specific indications for examination.	C	C	C	REVISED: Changed "patient's age and size" to "patient factors".	4.1a	Select optimum system and transducer for examination considering patient's age and size, structures being examined and specific indications for examination.	C			
3.2.4	Select optimal preset values.	C	C	C	REVISED: Removed "determine" & changed "correct" to "optimal".	4.1b	Determine and select correct pre-set values.	C			
3.2.5	Set up 3-lead electrocardiogram (ECG).		C		No change	3.3f	Set up 3-lead electrocardiogram (ECG).			C	
3.2.6	Orient and manipulate transducer.	C	C	C	No change	4.2a	Orient and manipulate transducer.	C			
3.2.7	Monitor output display indices and adjust power output in accordance with "as low as reasonably achievable" (ALARA) principle.	C	C	C	No change	4.2c	Monitor output display indices and adjust power output in accordance with "as low as reasonably achievable" (ALARA) principle.	C			
3.2.8	Adjust instrument controls to optimize image.	C	C	C	No change	4.2d	Adjust instrument controls to optimize image.	C			
3.2.9	Identify artifacts.	C	C	C	No change	4.2e	Identify artifacts.	C			
3.2.10	Annotate images in accordance with institutional protocols.	C	C	C	REVISED: Reworded to clarify competency.	4.2f	Record patient position and plane of section on images, as required.	C			
3.2.11	Use software calculation packages.	C	C	C	No change	4.2g	Use software calculation packages.	C			
3.3	Examination (see Appendices)					5.3	Examination				

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3.3.1	Perform sonographic examination of structures of interest using knowledge of sonographic principles, instrumentation and techniques.	C	C	C	REVISED Removed "listed in Appendices A to F".	4.2b				
3.3.2	Select optimal acoustic window.	C	C	C	No change	5.3a	C			
3.3.3	Optimize patient position.	C	C	C	No change	5.3b	C			
3.3.4	Employ breathing techniques to optimize the ultrasound examination.	C	C	C	REVISED: Added "to optimize the ultrasound examination".	5.3c	C			
3.3.5	Interrogate anatomy in required planes of section.	C	C	C	No change	5.3d	C			
3.3.6	Evaluate images for orientation, identification, labeling, and diagnostic quality.	C	C	C	REVISED: Added "diagnostic quality" (previously captured in 5.3f).	5.3e	C			
3.3.7	Acquire diagnostic images.	C	C	C	REVISED: was <i>Evaluate images for quality</i> , which is now captured in 3.3.6.	5.3f	C			
3.3.8	Recognize sonographic appearance of normal structures.	C	C	C	No change	5.3g	C			
3.3.9	Differentiate artifact and normal variants from anatomic and pathologic findings.	C	C	C	No change	5.3i	C			
3.3.10	Recognize, investigate, and document abnormal findings.	C	C	C	REVISED: Added "document".	5.3j	C			
3.3.11	Modify examination based on sonographic evidence, clinical information, and patient factors.	C	C	C	REVISED: Removed "resource implications" (contained within). Changed "other contextual factors" to "patient factors".	5.3k	C			
3.3.12	Ensure all applicable components of examination are complete.	C	C	C	No change	5.3l	C			
3.3.13	Recognize equipment limitations.	C	C	C	No change	5.3m	C			
3.3.14	Recognize technical limitations.	C	C	C	No change	5.3n	C			
3.4	Related assessment techniques					3.3	Related techniques and procedures			
3.4.1	Measure blood pressure.		S	S	Assessment Environment: Changed Vascular from C to S. Removed A from Generalist.	3.3a		A	S	C
3.4.2	Perform palpation of areas of interest.	C		C	No change	3.3c		C		C

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3.4.3	Evaluate response to dynamic maneuvers .	C	C	C	REVISED: Changed verb from "Perform" to "Evaluate response to" & removed "provocative".	3.3d	Perform provocative / dynamic maneuvers (e.g., Valsalva).	C					
3.4.4	Perform intravenous starts.		S	S	No change	3.3k	Perform intravenous starts.			S	S		
3.4.5	Describe the sonographer's role in assisting with interventional procedures .	A	A	A	REVISED: Changed verb from "Understand" to "Describe".	3.2a	Understand role in interventional procedures.	A					
3.4.6	Describe the sonographer's role in the application of additional imaging techniques .	A	A	A	REVISED: Captures 3.2.b, 3.3e, 3.3h, 3.3i, 3.3j, and 4.2h.	3.2b	Understand role in transesophageal echocardiography.			A			
						3.3e	Understand the application of stress echocardiography.			A			
						3.3h	Understand the application of transrectal imaging.		A				
						3.3i	Understand when to perform a transperineal / translabial scan.		A				
						3.3j	Perform contrast-enhanced imaging.		A	A	A		
						4.2h	Perform sonographic examinations using 3-D imaging.		A	A			
3.5	Technical analysis (see Appendices)					5.4	Technical analysis						
3.5.1	Produce diagnostic data documenting sonographic findings.	C	C	C	No change	5.4a	Produce diagnostic data documenting sonographic findings.	C					
3.5.2	Describe the variables and their relationships within calculations.	A	A	A	REVISED: Changed verb from "Understand" to "Describe".	5.4c	Understand the variables and their relationships within calculations.	A					
3.5.3	Use spatial reasoning to interpret images.	C	C	C	No change	5.4d	Use spatial reasoning to interpret images.	C					
3.5.4	Identify and prioritize differential findings.	C	C	C	No change	5.4e	Identify and prioritize differential findings.	C					
3.5.5	Document limitations to exam quality and completeness.	C	C	C	No change	5.4f	Document limitations to exam quality and completeness.	C					
3.5.6	Formulate a technical impression and communicate findings to reporting physician.	C	C	C	REVISED: Combined 5.4b and 5.4g.	5.4b	Formulate impression based on findings.	C					
						5.4g	Provide a technical impression to reporting physician.	C					
4.0	SAFETY					6.0	WORKPLACE HEALTH AND SAFETY						
4.1	Patient safety					3.1	Patient safety and comfort						
4.1.1	Ensure safe patient transporting and transferring.	S	S	S	REVISED: Removed "comfortable" and "positioning".	3.1a	Ensure safe and comfortable patient transporting, transferring and / or positioning.	S					
4.1.2	Ensure safe patient positioning.	C	C	C	NEW								

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4.1.3	Assess patient's ability to tolerate examination.	C	C	C	No change	3.1b	Assess patient's ability to tolerate examination.	C			
4.1.4	Employ sterile technique .	S	S	S	No change	3.1c	Employ sterile technique.	S			
4.1.5	Employ best practices in infection prevention and control .	C	C	C	REVISED: Reworded to ensure clarity and consistency with current best practices.	3.1d	Employ universal precautions for infection control.	C			
4.1.6	Assess, monitor, and respond to patient's physical and mental status throughout examination.	C	C	C	REVISED: Reworded to improve clarity.	3.1e	Assess and monitor patient's physical and mental status prior to and during examination, and respond.	C			
4.1.7	Perform examination in a timely manner.	C	C	C	No change	3.1h	Perform examination in a timely manner.	C			
4.1.8	Maintain awareness of patient's accessory equipment .	A	A	A	REVISED: Removed "and take action as required."	3.1i	Maintain awareness of patient's accessory equipment and take action as required.	A			
4.1.9	Recognize and respond to emergency situations.	S	S	S	No change	3.1j	Recognize and respond to emergency situations.	S			
4.1.10	Demonstrate knowledge of Basic Life Support training or equivalent.	S	S	S	No change	3.1k	Demonstrate knowledge of Basic Life Support training or equivalent.	S			
4.2	Self-protection					6.2	Self protection				
4.2.1	Determine need for additional personnel to assist in examination.	C	C	C	No change	3.1g	Determine need for additional personnel to assist in examination.	C			
4.2.2	Employ proper body mechanics when transferring, positioning or transporting patient.	C	C	C	No change	6.2a	Employ proper body mechanics when transferring, positioning or transporting patient.	C			
4.2.3	Practice ergonomic techniques.	C	C	C	No change	6.2b	Practice ergonomic techniques.	C			
4.2.4	Engage in practices to promote own physical and environmental safety.	C	C	C	No change	6.2c	Engage in practices to promote own physical and environmental safety.	C			
4.2.5	Follow standardized procedures for handling and disposing of sharps, and contaminated and biohazardous materials.	A	A	A	No change	6.2d	Follow standardized procedures for handling and disposing of sharps, and contaminated and biohazardous materials.	A			
4.3	Safety of the work environment					6.1	Safety of the work environment				
4.3.1	Maintain clean and orderly work area.	C	C	C	No change	6.1a	Maintain clean and orderly work area.	C			
4.3.2	Recognize hazardous conditions in the work area and respond.	C	C	C	No change	6.1b	Recognize hazardous conditions in the work area and respond.	C			
4.3.3	Maintain awareness of fire and disaster plans.	A	A	A	No change	6.1c	Maintain awareness of fire and disaster plans.	A			
4.3.4	Locate emergency equipment.	C	C	C	No change	6.1d	Locate emergency equipment.	C			
4.4	Equipment maintenance					4.3	Equipment maintenance				

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4.4.1	Describe imaging and instrumentation activities included in quality assurance testing.	A	A	A	REVISED: Changed verb from "Understand" to "Describe".	4.3a	Understand imaging and instrumentation activities included in quality assurance testing.	A			
4.4.2	Identify degraded instrument performance.	A	A	A	No change	4.3b	Identify degraded instrument performance.	A			
4.4.3	Describe basic trouble shooting.	A	A	A	REVISED: Changed verb from "Understand" to "Describe".	4.3c	Understand basic trouble shooting.	A			

Appendix A: Examination Techniques for the Generalist Sonographer – OBSTETRICS & GYNECOLOGY

OBESTRICS & GYNECOLOGY			TECHNIQUE			Changes from 6.1 to 7.0
GYN and/or OB Trimester	STRUCTURE / CHARACTERISTIC	Real time assessment	Doppler assessment	Measure (2D and/or Doppler)		
A1	GYN, 1 st , 2 nd , 3 rd	Adnexa	C			
A2	GYN	Bowel	C			Assessment Environment: changed <i>Real time assessment</i> from A to C.
A3	GYN, 1 st , 2 nd , 3 rd	Cervix	C			
A4	GYN, 1 st	Cul-de-sacs	C			
A5	GYN, 1 st	Endometrium	C	C	C	Assessment Environment: changed <i>Doppler assessment</i> from A to C.
A6	GYN, 1 st	Fallopian tubes	C			
A7	GYN	Muscles & ligaments	A			
A8	GYN, 1 st , 2 nd , 3 rd	Ovaries	C	C	C	
A9	GYN, 1 st , 2 nd , 3 rd	Urinary bladder	C			
A10	GYN, 1 st , 2 nd , 3 rd	Kidneys	C			
A11	GYN, 1 st	Uterus	C	A	C	
A12	GYN, 1 st	Vagina	C			
A13	GYN, 3 rd	Uterine vessels	A	A		REVISED: added 3 rd ; changed "Vasculature of the female pelvis" to "Uterine vessels". Assessment Environment: changed <i>Real time assessment</i> from C to A.
Fetal Age / Fetal Growth						
A14	1 st	Mean sac diameter	C		C	REVISED: Changed "Gestational sac" to "Mean sac diameter".
A15	1 st	Crown rump length	C		C	REVISED: Changed "Fetal pole" to "Crown rump length".
A16	2 nd , 3 rd	Abdominal circumference	C		C	

OBESTRICS & GYNECOLOGY			TECHNIQUE			Changes from 6.1 to 7.0
GYN and/or OB Trimester	STRUCTURE / CHARACTERISTIC	Real time assessment	Doppler assessment	Measure (2D and/or Doppler)		
A17	2 nd , 3 rd	Biparietal diameter	C		C	
A18	2 nd , 3 rd	Femur length	C		C	
A19	2 nd , 3 rd	Head circumference	C		C	
A20	2 nd , 3 rd	Humerus	C		A	NEW
Fetal Head						
A21	2 nd , 3 rd	Anterior horn lateral ventricles	C		A	Assessment Environment: added A to Measure.
A22	2 nd , 3 rd	Atria of lateral ventricles	C			Assessment Environment: removed C from Measure.
A23	2 nd , 3 rd	Cavum septi pellucidi	C			
A24	2 nd , 3 rd	Cerebellum	C		C	
A25	2 nd , 3 rd	Cerebral vessels	A	A	A	
A26	2 nd , 3 rd	Choroid plexus	C			
A27	2 nd , 3 rd	Cisterna magna	C		C	
A28	2 nd , 3 rd	Falx cerebri	C			
A29	2 nd , 3 rd	Skull	C			
A30	2 nd , 3 rd	Thalamus	C			
A31	2 nd , 3 rd	Third ventricle	C			
Fetal Spine						
A32	1 st	Gross spinal development	C			
A33	2 nd , 3 rd	Cervical spine	C			
A34	2 nd , 3 rd	Thoracic spine	C			
A35	2 nd , 3 rd	Lumbar spine	C			REVISED: was "Lumbo-sacral spine"; separated into 2 structures/characteristics.
A36	2 nd , 3 rd	Sacral spine	C			
Fetal Face						
A37	2 nd , 3 rd	Facial profile	C			
A38	2 nd , 3 rd	Palate	A			
A39	2 nd , 3 rd	Mouth / lips	C			
A40	1 st , 2 nd , 3 rd	Nasal bones	C		A	
A41	2 nd , 3 rd	Orbits	C		A	Assessment Environment: changed Measure from C to A.
Fetal Neck						
A42	1 st	Nuchal translucency	C		A	
A43	2 nd , 3 rd	Nuchal fold	C		C	
Fetal Chest / Thorax						
A44	2 nd , 3 rd	Diaphragm	C			
A45	1 st , 2 nd , 3 rd	Lungs	C			REVISED: added 1 st .

OBESTRICS & GYNECOLOGY			TECHNIQUE			Changes from 6.1 to 7.0
GYN and/or OB Trimester	STRUCTURE / CHARACTERISTIC	Real time assessment	Doppler assessment	Measure (2D and/or Doppler)		
A46	2 nd , 3 rd	Thoracic shape	C			
Fetal Heart						
A47	1 st , 2 nd , 3 rd	Fetal heart rate	C		C	
A48	2 nd , 3 rd	Situs	C			
A49	2 nd , 3 rd	Size	C			
A50	2 nd , 3 rd	Axis	C			
A51	2 nd , 3 rd	4 Chamber fetal heart	C			
A52	2 nd , 3 rd	Aortic arch	C			
A53	2 nd , 3 rd	Ductal arch	A			
A54	2 nd , 3 rd	Interventricular septum	C			NEW
A55	2 nd , 3 rd	Outflow tracts	C			
A56	2 nd , 3 rd	Three vessel view	C			
Fetal Abdomen						
A57	2 nd , 3 rd	Adrenals	C			
A58	2 nd , 3 rd	Aorta	C			
A59	2 nd , 3 rd	Bowel	C			
A60	2 nd , 3 rd	Gallbladder	C			
A61	2 nd , 3 rd	Kidneys	C		C	
A62	2 nd , 3 rd	Liver	C			
A63	2 nd , 3 rd	Renal pelvis	C		C	
A64	2 nd , 3 rd	Spleen	C			
A65	1 st , 2 nd , 3 rd	Stomach	C			
Umbilical Cord and Placenta						
A66	1 st , 2 nd , 3 rd	Umbilical cord	C			
A67	1 st , 2 nd , 3 rd	Fetal insertion	C	A		REVISED: added 1 st .
A68	2 nd , 3 rd	Placental insertion	C	A		
A69	1 st , 2 nd , 3 rd	Placenta	C		A	MOVED from Placenta section (deleted "Placenta" as its own section).
A70	2 nd , 3 rd	Umbilical cord vessels	C	C	C	REVISED: Changed "Vessels" to "Umbilical cord vessels". Assessment Environment: added C to Measure; changed Doppler assessment from A to C.
Fetal Pelvis						
A71	1 st , 2 nd , 3 rd	Urinary bladder	C			
A72	2 nd , 3 rd	Genitalia	C			
Fetal Skin						

OBESTRICS & GYNECOLOGY			TECHNIQUE			Changes from 6.1 to 7.0
GYN and/or OB Trimester	STRUCTURE / CHARACTERISTIC	Real time assessment	Doppler assessment	Measure (2D and/or Doppler)		
A73	2 nd , 3 rd	Contour	C			
A74	2 nd , 3 rd	Thickness	C			Assessment Environment: removed A from <i>Measure</i> .
Fetal Musculoskeleton						
A75	1 st	Gross limb development	C			
A76	2 nd , 3 rd	Feet	C			
A77	2 nd , 3 rd	Femurs	C		A	Assessment Environment: changed <i>Measure</i> from C to A.
A78	2 nd , 3 rd	Fibulas	C		A	REVISED: Changed "Fibula" to "Fibulas".
A79	2 nd , 3 rd	Hands	C			
A80	2 nd , 3 rd	Humeri	C		A	
A81	2 nd , 3 rd	Radii	C		A	REVISED: Changed "Radius" to "Radii".
A82	2 nd , 3 rd	Ribs	C			
A83	2 nd , 3 rd	Tibias	C		A	REVISED: Changed "Tibia" to "Tibias".
A84	2 nd , 3 rd	Ulnas	C		A	REVISED: Changed "Ulna" to "Ulnas".
Determination of:						
A85	2 nd , 3 rd	Amniotic fluid	C		C	REVISED: removed "Single Pocket Evaluation ". Deleted "Amniotic fluid index".
A86	1 st , 2 nd , 3 rd	Chorionicity	C			
A87	2 nd , 3 rd	Cervical length	C		C	
A88	2 nd , 3 rd	Fetal lie	C			
A89	2 nd , 3 rd	Fetal presentation	C			
A90	1 st , 2 nd , 3 rd	Number of Fetuses	C			
A91	2 nd , 3 rd	Relation of placenta to internal os	C	C	C	MOVED from Placenta section (deleted "Placenta" as its own section). Assessment Environment: added C to <i>Measure</i> .
Other						
A92	1 st	Yolk sac	C		C	
A93	1 st	Gestational sac	C			NEW
A94	1 st	Fetal pole	C			NEW
A95	3 rd	Fetal breathing movement	C			REVISED: Changed "breathing" to "Fetal breathing movement".
A96	3 rd	Fetal movement	C			
A97	3 rd	Fetal tone	C			

Appendix B: Examination Techniques for the Generalist Sonographer – ABDOMEN

ABDOMEN		TECHNIQUE			Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Doppler assessment	Measure (2D and/or Doppler)	
B1	Abdominal aorta	C	A	C	
B2	Abdominal wall	C			
B3	Adrenal fossae	C			REVISED: changed "glands" to "fossae". Assessment Environment: changed <i>Real time assessment</i> from A to C.
B4	Celiac trunk	C			
B5	Chest and thorax	A			
B6	Common iliac arteries	C	A	C	
B7	Common iliac veins	A	A		
B8	Inferior vena cava	C	C		
B9	Pancreas	C			Assessment Environment: removed A from <i>Measure</i> .
B10	Peritoneal, retroperitoneal cavities / spaces	C			
B11	Spleen	C		C	
B12	Splenic vein	C	C		
B13	Superior mesenteric artery	C			
Biliary System					
B14	Gallbladder	C	A	C	Assessment Environment: added A to <i>Doppler assessment</i> .
B15	Common hepatic duct	C		A	
B16	Common biliary duct	C		C	
B17	Cystic duct	C			Assessment Environment: changed <i>real time assessment</i> from A to C.
B18	Pancreatic duct	C		C	NEW
B19	Intrahepatic ducts	C			
Gastrointestinal tract					
B20	Appendix	S	A	S	Assessment Environment: added S to <i>Measure</i> and A to <i>Doppler assessment</i> .
B21	Small bowel	A			
B22	Large bowel	A			
B23	Stomach	A			
Urinary tract					
B24	Kidneys	C	S	C	
B25	Renal arteries	S	S	S	

ABDOMEN		TECHNIQUE			Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Doppler assessment	Measure (2D and/or Doppler)	
B26	Renal veins	S	S	S	
B27	Ureters	C			
B28	Urinary bladder	C	S	C	Assessment Environment: added S to Doppler assessment.
B29	Prostate	C		C	
B30	Seminal vesicles	C		A	Assessment Environment: changed Measure from C to A.
Liver					REVISED: deleted "vasculature"
B31	Liver	C		C	
B32	Hepatic veins	C	C		
B33	Hepatic artery	C	C		
B34	Portal veins	C	C	C	

Appendix C: Examination Techniques for the Generalist Sonographer – SUPERFICIAL STRUCTURES

SUPERFICIAL STRUCTURES		TECHNIQUE			Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Doppler assessment	Measure (2D and/or Doppler)	
C1	Breast	A			
C2	Inguinal canal	A			REVISED: Changed "region" to "canal".
C3	Superficial tissues	S			Assessment Environment: Changed <i>real time assessment</i> from A to S.
C4	Lymph nodes	C	A	A	Assessment Environment: added A to <i>measure</i> and <i>Doppler assessment</i> .
Neck					
C5	Salivary glands	A			
C6	Parathyroid	A			
C7	Thyroid	C	C	C	
C8	Neck compartments	C			NEW
Scrotum					
C9	Epididymis	C	C		NEW
C10	Testes	C	C	C	NEW
C11	Scrotal wall	C	A	A	NEW
C12	Spermatic cord	C	A	A	NEW
C13	Scrotal sac	C			NEW
C14	Pampiniform plexus	C	A	A	NEW

Appendix D: Examination Techniques for the Generalist Sonographer – PERIPHERAL VEINS

PERIPHERAL VEINS		TECHNIQUE		Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Doppler assessment	
Peripheral veins, upper extremity, for DVT				
D1	Jugular vein	S	S	
D2	Innominate vein	S	S	
D3	Subclavian vein	S	S	
D4	Axillary vein	S	S	
D5	Brachial veins	S	S	REVISED: changed “vein” to “veins”.
D6	Basilic vein	S	S	
D7	Cephalic vein	S	S	
Peripheral veins, lower extremity, for DVT				
D8	Common femoral vein	C	C	
D9	Femoral vein	C	C	
D10	Popliteal vein	C	C	
D11	Sapheno-femoral junction	C	C	
D12	Sapheno-popliteal junction	C	C	
D13	Popliteal fossa	C		MOVED from Appendix C.
D14	Deep calf veins	C	C	Assessment Environment: Changed <i>real time assessment</i> and <i>Doppler assessment</i> from A to C.
D15	Inferior vena cava	A	A	NEW
D16	Iliac veins	C	C	

Appendix E: Examination Techniques for the Cardiac Sonographer

CARDIAC		TECHNIQUE							Changes from 6.1 to 7.0	
STRUCTURE / CHARACTERISTIC		2D real time assessment	Measure (2D)	M-mode	Measure - M-mode	Colour Doppler assessment	Pulsed wave (PW) Doppler assessment	Continuous wave (CW) Doppler assessment		Tissue Doppler assessment
E1	Abdominal situs	C								
E2	Cardiac position	C								
E3	Chest & thorax (adjacent, extra-cardiac)	C								
E4	Coronary vessels	A	A			A				

CARDIAC		TECHNIQUE								Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC	2D real time assessment	Measure (2D)	M-mode	Measure - M-mode	Colour Doppler assessment	Pulsed wave (PW) Doppler assessment	Continuous wave (CW) Doppler assessment	Tissue Doppler assessment		
E5	Hepatic veins	C				C	C			Assessment Environment: Added C to PW Doppler Assessment
E6	Outflow tracts	C	C			C	C	C		
E7	Pulmonary veins	C				C	C			
E8	Wall layers (endo, myo, pericardium)	C	C	S	S					
E9	Wall segments	C	C	S						
Aorta										
E10	Arch & branches	C	C			C				
E11	Ascending	C	C			C		C		
E12	Descending	C	C			C	C	C		
E13	Root	C	C	S	S	C				
Atria										
E14	Left	C	C	S	S	C				
E15	Right	C	C			C				
E16	Left Atrial Appendage	C								
E17	Right Atrial Appendage	A								
Pulmonary artery										
E18	Main pulmonary artery	C	S			C	C	C		
E19	Bifurcation	C				A	A	C		
Septa										
E20	Atrial	C				C	C	C		
E21	Ventricular	C	C	S	S	C	C	C		
Valves										
E22	Aortic	C		C		C		C		Assessment Environment: Removed C from PW Doppler assessment.
E23	Mitral	C	S	C		C	C	C		
E24	Mitral (annulus)	C							C	
E25	Pulmonic	C				C		C		Assessment Environment: Removed C from PW Doppler assessment.
E26	Tricuspid	C				C	C	C		
E27	Tricuspid annulus	C		C	C				C	
Vena cava										

CARDIAC		TECHNIQUE								Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		2D real time assessment	Measure (2D)	M-mode	Measure - M-mode	Colour Doppler assessment	Pulsed wave (PW) Doppler assessment	Continuous wave (CW) Doppler assessment	Tissue Doppler assessment	
E28	Inferior	C	C	S		C				Assessment Environment: changed M-mode from C to S. Removed S from Measure - M-mode.
E29	Superior	A				A				
Ventricles										
E30	Left	C	C	S	S	C				
E31	Right	C	C	S	S	C				

Appendix F: Examination Techniques for the Vascular Sonographer

VASCULAR		TECHNIQUES				Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Measure	Doppler assessment	Indirect Testing (PPG, arterial pressure testing)	
Abdominal vascular						
F1	Aorta	C	C	C		
F2	Celiac trunk	C	S	S		
F3	Hepatic artery	C	C	C		
F4	Superior mesenteric artery	C	S	S		
F5	Superior mesenteric vein	S	S	S		
F6	Inferior mesenteric artery	S	S	S		
F7	Inferior mesenteric vein	S	S	S		
F8	Renal artery	S	S	S		Assessment Environment: changed from C to S.
F9	Renal veins	S	S	S		Assessment Environment: changed from C to S.
F10	Hepatic veins	C	C	C		
F11	Portal veins	C	C	C		
F12	Splenic artery	S	S	S		
F13	Splenic vein	C	C	C		
F14	Inferior vena cava	C	C	C		
F15	Common iliac artery	C	C	C		NEW
Cerebrovascular						
F16	Common carotid artery	C	C	C		
F17	Internal carotid artery	C	C	C		
F18	External carotid artery	C	C	C		

VASCULAR		TECHNIQUES				Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Measure	Doppler assessment	Indirect Testing (PPG, arterial pressure testing)	
F19	Vertebral artery	C	C	C		
F20	Subclavian artery	C	C	C		
F21	Innominate (brachiocephalic) artery	C	C	C		
F22	Intracranial arteries	A	A	A		
Peripheral arteries, upper extremity						
F23	Innominate (brachiocephalic) artery	S	S	S		Assessment Environment: changed from C to S.
F24	Subclavian artery	S	S	S		Assessment Environment: changed from C to S.
F25	Axillary artery	S	S	S		Assessment Environment: changed from C to S.
F26	Brachial artery	S	S	S	A	Assessment Environment: changed <i>Real time assessment, Measure, and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from C to A.
F27	Forearm arteries	S	S	S	A	Assessment Environment: changed <i>Real time assessment, Measure, and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from S to A.
Peripheral arteries, lower extremity						
F28	External iliac artery	S	S	S		REVISED: changed “Iliac arteries” to “external iliac artery”. Assessment Environment: changed from C to S
F29	Common femoral artery	S	S	S	A	Assessment Environment: changed <i>Real time assessment, Measure, and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from C to A.
F30	Femoral artery	S	S	S	A	Assessment Environment: changed <i>Real time assessment, Measure, and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from C to A.
F31	Popliteal artery	S	S	S	A	Assessment Environment: changed <i>real time assessment, measure, and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from C to A.
F32	Calf arteries	S		S	A	Assessment Environment: changed <i>real time assessment and Doppler assessment</i> from C to S. Changed <i>Indirect Testing</i> from C to A.
Peripheral veins, upper extremity						
F33	Jugular vein	C		C		
F34	Innominate vein	C		C		
F35	Subclavian vein	C		C		
F36	Axillary vein	C		C		
F37	Brachial vein	C	C	C		
F38	Forearm veins	C	C	C		
F39	Basilic vein	C	C	C		
F40	Cephalic vein	C	C	C		

VASCULAR		TECHNIQUES				Changes from 6.1 to 7.0
STRUCTURE / CHARACTERISTIC		Real time assessment	Measure	Doppler assessment	Indirect Testing (PPG, arterial pressure testing)	
Peripheral veins, lower extremity						
F41	Iliac veins	C		C		
F42	Common femoral vein	C		C		
F43	Femoral vein	C		C		
F44	Popliteal vein	C		C		
F45	Calf veins	C		C		
F46	Saphenous veins	C	C	C		
F47	Perforator veins	A	A	A		NEW
F48	Valves	S		S		NEW
Grafts and stents						
F49	Grafts and stents	A	A	A		Assessment Environment: changed from C to A.