



Diagnostic Medical Sonography Program

Student Scanning Protocols

SONO STUDENT SCANNING PROTOCOLS

Table of Contents

General Protocols	3
Abdomen	4
Renal/Bladder & Bladder	6
Pelvis – Female	7
Pelvis – Male	9
Scrotum	10
OB – 1st Trimester	11
OB – 2nd Trimester	13
OB – 3rd Trimester	16
Thyroid	17
Salivary Glands & Lymph Nodes	18
Chest/Thorax & Abdominal Wall & Inguinal Canal	19
Breast	20
Popliteal Fossa	21
Rotator Cuff	22
Achilles Tendon	23
Ankle Tendons & Ligaments	24
Elbow Tendons & Ligaments	25
Wrist Tendons & Carpal Tunnel	26
Knee Tendons & Ligaments	27
General Vascular Protocols	28
Lower Extremity Venous (LEV)	29
Upper Extremity Venous (UEV)	30
Carotid Arteries	31
Abdominal Doppler	32
Cardiac Protocols	33

General Protocols

SONO STUDENT SCANNING PROTOCOLS

Abdomen

Great Vessels

- AO TRV PROX
- AO TRV MID
- AO TRV DIST
- AO TRV BIF
- AO SAG PROX (ideally with the celiac trunk and SMA if possible)
- AO SAG MID
- AO SAG DIST
- AO SAG DIST BIF LT
- AO SAG DIST BIF RT
- IVC SAG PROX

Pancreas

- PANC TRV H
- PANC TRV B
- PANC TRV T
- PANC SAG H
- PANC SAG B
- PANC SAG T

Liver

- LIVER LT TRV (including HV's)
- LIVER LT TRV (including PV's)
- LIVER LT TRV (including lateral aspect and caudate lobe)
- LIVER LT SAG (including IVC)
- LIVER LT SAG (including AO)
- LIVER LT SAG (lateral, "flag shot")
- LIVER RT TRV (superior)
- LIVER RT TRV (including RHV)
- LIVER RT TRV (including RPV)
- LIVER RT TRV (liver/kidney interface)
- LIVER RT SAG (lateral to IVC)
- LIVER RT SAG (liver/kidney interface)
- LIVER RT SAG (lateral, "meat shot")

Biliary

- GB TRV NECK (both patient positions)
- GB TRV BODY (both patient positions)
- GB TRV FUNDUS (both patient positions)

SONO STUDENT SCANNING PROTOCOLS

- GB SAG LAT (both patient positions)
- GB SAG (longest length, both patient positions)
- GB SAG MED (both patient positions)
- CHD/CBD (at porta hepatis)
- CHD/CBD (at porta hepatis, with measurement)
- CBD (elongated into pancreatic head)

Kidneys

- LK/RK TRV UP
- LK/RK TRV MP
- LK/RK TRV MP (including width measurement)
- LK/RK TRV LP
- LK/RK SAG LAT
- LK/RK SAG MED
- LK/RK SAG (longest length)
- LK/RK SAG (longest length, including length and height measurements)

Spleen

- SPLEEN SAG (including LK UP)
- SPLEEN SAG (longest length)
- SPLEEN SAG (longest length, including length measurement)
- SPLEEN TRV (including LK UP)
- SPLEEN TRV (longest height)
- SPLEEN TRV (longest height, including height and width measurements)

SONO STUDENT SCANNING PROTOCOLS

Renal/Bladder & Bladder

Renal/Bladder

- LK/RK TRV UP
- LK/RK TRV MP
- LK/RK TRV MP (including width measurement)
- LK/RK TRV LP
- LK/RK SAG LAT
- LK/RK SAG MED
- LK/RK SAG (longest length)
- LK/RK SAG (longest length, including length and height measurements)

- TRV Upper Bladder
- TRV Mid Bladder
- TRV Lower Bladder
- TRV Bladder RT & LT urinary jets (utilizing colour doppler)
- SAG Bladder LT
- SAG Bladder Mid
- SAG Bladder RT
- SAG Bladder post-void (including length and height measurement)
- TRV Bladder post-void (including width measurement)

Bladder

- TRV Upper Bladder
- TRV Mid Bladder
- TRV Lower Bladder
- TRV Bladder RT & LT urinary jets (utilizing colour doppler)
- SAG Bladder LT
- SAG Bladder Mid
- SAG Bladder RT
- SAG Bladder post-void (including length and height measurement)
- TRV Bladder post-void (including width measurement)

SONO STUDENT SCANNING PROTOCOLS

Pelvis – Female

Transabdominal

- SAG Vagina/Cervix
- SAG Uterus
- SAG Uterus (including length and height measurements)
- SAG Endometrium
- SAG Endometrium (including AP (height) measurement)
- SAG Uterus RT (parasagittal)
- SAG Uterus LT (parasagittal)
- TRV Vagina
- TRV Cervix
- TRV Uterus (mid body)
- TRV Uterus (fundus)
- TRV Uterus (fundus) (including width measurement)

- SAG RT Ovary
- SAG RT Ovary (including length and height measurements)
- TRV RT Ovary
- TRV RT Ovary (including width measurement)
- SAG RT Adnexa
- TRV RT Adnexa

- SAG LT Ovary
- SAG LT Ovary (including length and height measurements)
- TRV LT Ovary
- TRV LT Ovary (including width measurement)
- SAG LT Adnexa
- TRV LT Adnexa

Endovaginal

- SAG Uterus
- SAG Uterus (including length and height measurements)
- SAG Endometrium
- SAG Endometrium (including AP (height) measurement)
- SAG Uterus RT (parasagittal)
- SAG Uterus LT (parasagittal)
- TRV Cervix
- TRV Uterus (mid body)
- TRV Uterus (fundus)
- TRV Uterus (fundus) (including width measurement)

SONO STUDENT SCANNING PROTOCOLS

- SAG RT Ovary
- SAG RT Ovary (including length and height measurements)
- TRV RT Ovary
- TRV RT Ovary (including width measurement)
- SAG RT Adnexa
- TRV RT Adnexa

- SAG LT Ovary
- SAG LT Ovary (including length and height measurements)
- TRV LT Ovary
- TRV LT Ovary (including width measurement)
- SAG LT Adnexa
- TRV LT Adnexa

SONO STUDENT SCANNING PROTOCOLS

Pelvis – Male

Prostate

- SAG Prostate
- SAG Prostate (including length and height measurements)
- TRV Prostate
- TRV Prostate (including width measurement)

Seminal Vesicles

- TRV Seminal Vesicles
- SAG RT Seminal Vesicle
- SAG LT Seminal Vesicle

SONO STUDENT SCANNING PROTOCOLS

Scrotum

Testes

- SAG LT/RT TEST MID
- SAG LT/RT TEST MID (including length and height measurements)
- SAG LT/RT TEST MID (including color doppler)
- SAG LT/RT TEST MID (including PW doppler of arterial flow)
- SAG LT/RT TEST MID (including PW doppler of venous flow)
- SAG LT/RT TEST MED
- SAG LT/RT TEST LAT
- TRV LT/RT TEST UPPER
- TRV LT/RT TEST MID
- TRV LT/RT TEST MID (including width measurement)
- TRV LT/RT TEST LOWER
- TRV MIDLINE (including color doppler)

Epididymis

- SAG LT/RT EPI HEAD
- SAG LT/RT EPI HEAD (including length measurement)
- SAG LT/RT EPI HEAD (including color doppler)
- TRV LT/RT EPI HEAD
- SAG LT/RT EPI BODY/TAIL

Spermatic Cord

- TRV LT/RT SP CORD
- SAG LT/RT SP CORD
- SAG LT/RT SP CORD (including color doppler)

SONO STUDENT SCANNING PROTOCOLS

OB – 1st Trimester

Uterus/Vagina/Cervix

- SAG UT MID
- SAG UT RT
- SAG UT LT
- SAG CX
- SAG CX (including measurement)
- TRV CX
- TRV UT

Adnexae

- SAG RT ADN
- TRV RT ADN
- SAG LT ADN
- TRV LT ADN

Ovaries

- SAG RT OV
- SAG RT OV (including length and height measurements)
- TRV RT OV
- TRV RT OV (including width measurement)

- SAG LT OV
- SAG LT OV (including length and height measurements)
- TRV LT OV
- TRV LT OV (including width measurement)

Embryo/Gestational Sac

- SAG GS
- SAG GS (including length and height measurements)
- TRV GS
- TRV GS (including width measurements)

- SAG CRL
- SAG CRL (including CRL measurement x3)
- FHR (including FHR measurement)

- YS
- YS (including measurement)

SONO STUDENT SCANNING PROTOCOLS

Advanced GA (12+ weeks) Additional Images

- CP
- HEAD
- HEAD (including BPD and HC measurements, if applicable)
- HRT/CHEST
- HRT (including FHR measurement)
- ST
- CI
- BL
- RT HUM
- RT RAD/ULN
- LT HUM
- LT RAD/ULN
- RT FEM
- RT TIB/FIB
- LT FEM
- LT RAD/ULN
- SAG PLACENTA
- TRV PLACENTA

Multiple Gestations

- The same images are required as dating a singleton pregnancy with additional images and measurements for each additional GS, YS and fetus

SONO STUDENT SCANNING PROTOCOLS

OB – 2nd Trimester

Maternal Anatomy

- SAG CX
- SAG CX (including measurement)
- SAG CX (including internal os with colour doppler)
- RT ADN
- LT ADN

Fetal Lie

- FETAL LIE SAG (documenting if baby is breech, cephalic or transverse)
- FETAL LIE TRV (documenting spine on maternal left or right)

Placenta

- PL SAG
- PL SAG CI
- PL TRV
- PL TRV CI
- PL TO CX (including measurement, if applicable)

Amniotic Fluid Assessment

- AFV or DVP/SDP (including measurement)

Fetal Head

- LV
- CP
- CSP
- CEREB
- CM
- NF
- HC (including head circumference measurements x2)
- BPD (including biparietal diameter measurements x2)

Fetal Face

- PROFILE
- FACE
- NB
- N/L
- ORBS

SONO STUDENT SCANNING PROTOCOLS

Fetal Heart

- FHR (including an m-mode measurement)
- 4CH HRT
- SITUS
- LVOT
- RVOT
- IVS
- AA
- DA
- 3VV
- BICAVAL
- SAX

Fetal Abdomen

- DIA
- GB
- SPL
- ST
- CI (fetal)
- KIDS SAG LT
- KIDS SAG RT
- KIDS TRV (including measurement of renal pelvis, if applicable)
- BL
- 3VC
- GEN
- AC (including abdominal circumference measurements x2)

Fetal Skeleton

- SP SAG (longest length)
- SP SAG (cervical)
- SP SAG (thoracic)
- SP SAG (lumbar)
- SP SAG (sacral)
- SP TRV (cervical)
- SP TRV (thoracic)
- SP TRV (lumbar)
- SP TRV (sacral)
- LT FEMUR
- LT TIB/FIB
- RT FEMUR
- RT TIB/FIB
- FL (including femur length measurements x2)

SONO STUDENT SCANNING PROTOCOLS

- LT FOOT
- RT FOOT
- LT HUMERUS
- LT RAD/ULN
- RT HUMERUS
- RT RAD/ULN
- LT HAND
- RT HAND

SONO STUDENT SCANNING PROTOCOLS

OB – 3rd Trimester

Maternal Anatomy

- SAG CX
- SAG CX (including measurement)
- SAG CX (including internal os with colour doppler)
- RT ADN
- LT ADN

Fetal Lie

- FETAL LIE SAG (documenting if baby is breech, cephalic or transverse)
- FETAL LIE TRV (documenting spine on maternal left or right)

Placenta

- PL SAG
- PL TRV

Amniotic Fluid Assessment

- AFV or DVP/SDP (including measurement)

Umbilical Artery Doppler

- Only performed when clinically indicated
- 2-3 measurements of the PI of the UA within the umbilical cord

Fetal Biometry

- HC (including head circumference measurements x2)
- BPD (including biparietal diameter measurements x2)
- AC (including abdominal circumference measurements x2)
- FL (including femur length measurements x2)

Additional Images

- FHR (including an m-mode measurement)
- ST
- KIDS TRV (including measurement of renal pelvis, if applicable)
- BL

SONO STUDENT SCANNING PROTOCOLS

Thyroid

- TRV ISTHMUS

- SAG RT THYROID MID
- SAG RT THYROID MID (including length measurement)
- SAG RT THYROID MID (including colour doppler)
- SAG RT THYROID MED
- SAG RT THYROID LAT
- TRV RT THYROID UP
- TRV RT THYROID MID
- TRV RT THYROID MID (including width and height measurements)
- TRV RT THYROID LOW
- TRV RT NECK

- SAG LT THYROID MID
- SAG LT THYROID MID (including length measurement)
- SAG LT THYROID MID (including colour doppler)
- SAG LT THYROID MED
- SAG LT THYROID LAT
- TRV LT THYROID UP
- TRV LT THYROID MID
- TRV LT THYROID MID (including width and height measurements)
- TRV LT THYROID LOW
- TRV LT NECK

SONO STUDENT SCANNING PROTOCOLS

Salivary Glands & Lymph Nodes

Submandibular Gland

- RT SMG
- RT SMG (including colour doppler)
- LT SMG
- LT SMG (including colour doppler)

Parotid Gland

- RT PAROTID
- RT PAROTID (including colour doppler)
- LT PAROTID
- LT PAROTID (including colour doppler)

Sublingual Glands

- TRV SUBLINGUAL GLANDS
- TRV SUBLINDUAL GLANDS (including colour doppler)

Lymph Nodes

- Assess area of interest/concern (AOI/AOC) in both sagittal and transverse and document largest or most suspicious appearing lymph nodes
 - If there are multiple abnormal appearing lymph nodes;
 - Measure in all 3 planes
 - Assess with colour doppler
 - If all lymph nodes appear normal, take representative images and document the largest node including measurements and colour doppler

SONO STUDENT SCANNING PROTOCOLS

Chest/Thorax & Abdominal Wall & Inguinal Canal

Chest/Thorax

- Assess thorax by scanning through intercostal spaces laterally/posteriorly
- Assess the movement of the diaphragm using m-mode

Abdominal Wall

- Assess area of interest/concern (AOI/AOC) in both sagittal and transverse
- If a hernia is detected;
 - Document the size, location, wall defect, size, presence/absence of bowel loops, size change with Valsalva/patient position, reducibility with transducer pressure, colour doppler assessment

Inguinal Canal

- Assess the inguinal canal in both sagittal/oblique and transverse planes with the patient relaxing
- Re-assess the inguinal canal in both sagittal/oblique and transverse planes with the patient performing the Valsalva maneuver
- If a hernia is detected;
 - Document the size, location, wall defect, size, presence/absence of bowel loops, size change with Valsalva/patient position, reducibility with transducer pressure, colour doppler assessment
 - Determine if hernia is indirect or direct
 - Indirect: lateral to the inferior epigastric vessels
 - Direct: medial to the inferior epigastric vessels

SONO STUDENT SCANNING PROTOCOLS

Breast

Radial

- RT/LT BR 12:00 RAD
- RT/LT BR 3:00 RAD
- RT/LT BR 6:00 RAD
- RT/LT BR 9:00 RAD

Anti-Radial

- RT/LT BR 12:00 ARAD
- RT/LT BR 3:00 ARAD
- RT/LT BR 6:00 ARAD
- RT/LT BR 9:00 ARAD

Nipple

- RT/LT BR SAG @ NIPPLE
- RT/LT BR TRV @ NIPPLE

Axillary Tail

- RT/LT AXILLARY TAIL SAG
- RT/LT AXILLARY TAIL TRV

Additional Pathology Documentation

- If pathology is present:
 - Distance from nipple (including measurement)
 - Colour doppler assessment of lesion
 - Compression assessment of lesion
 - Image without cross beam

SONO STUDENT SCANNING PROTOCOLS

Popliteal Fossa

- Assess area of interest/concern (AOI/AOC) in both sagittal and transverse
- If there is a bakers cyst present, assess for the presence of a neck or connection to the joint space
- Document in both planes and measure in 3 planes
- Assess with colour doppler

SONO STUDENT SCANNING PROTOCOLS

Rotator Cuff

- SAX BICEPS
- LAX BICEPS
- SAX SUBSCAP
- LAX SUBSCAP
- SAX SUPRA
- LAX SUPRA
- SAX SUPRA ANT
- SAX SUPRA MID
- SAX INFRA POST
- LAX INFRA
- ACJ
- POST LABRUM

SONO STUDENT SCANNING PROTOCOLS

Achilles Tendon

- LT/RT ACHILLES LAX-INSERT
- LT/RT ACHILLES LAX-MID
- LT/RT ACHILLES LAX-MID (including colour doppler)
- LT/RT ACHILLES LAX-MTJ
- LT/RT ACHILLES SAX-INSERT
- LT/RT ACHILLES SAX-MID
- LT/RT ACHILLES SAX-MID (including colour doppler)
- LT/RT ACHILLES SAX-MTJ
- LT & RT ACHILLES SAX
- LT & RT ACHILLES SAX (including colour doppler)

SONO STUDENT SCANNING PROTOCOLS

Ankle Tendons & Ligaments

Anterior Ankle

- SAX ANT ANKLE
- LAX TIB ANT
- LAX EXT HAL
- LAX EXT DIG

Lateral Ankle

- LAX ANT TALOFIB LIG
- LAX ANT TIBIOFIB LIG
- LAX CAL/FIB LIB
- SAX PL & PB

Medial Ankle

- SAX TB & FD
- SAX FHL
- LAX FHL
- SAX TIB ART, VEINS & NERVE

SONO STUDENT SCANNING PROTOCOLS

Elbow Tendons & Ligaments

Anterior Elbow

- SAX ACF
- LAX DIST BICEPS (anterior window)
- LAX DIST BICEPS (medial window)
- SAX HC & HT
- LAX CORONOID RECESS

Medial Elbow

- LAX CFT
- LAX UCL

Posterior Elbow

- LAX TRICEPS
- SAX ULN NERVE

Lateral Elbow

- LAX CET
- ANNULAR LIG

SONO STUDENT SCANNING PROTOCOLS

Wrist Tendons & Carpal Tunnel

Dorsal Wrist

- SAX APL & EPB
- SAX ERCL & ECRB
- SAX EPL
- SAX ED & EDI & EDM
- SAX ECU

Palmar Wrist

- SAX GUYON'S TUNNEL
- SAX FOREARM (median nerve at level of pronator quadratus)
- SAX FOREARM (including median nerve measurement)
- SAX PROX CARPAL TUNNEL
- SAX PROX CARPAL TUNNEL (including median nerve measurement)
- SAX DIST CARPAL TUNNEL
- SAX DIST CARPAL TUNNEL (including median nerve measurement)
- LAX MED NERVE (in carpal tunnel)
- LAX MED NERVE (including colour doppler)

SONO STUDENT SCANNING PROTOCOLS

Knee Tendons & Ligaments

Anterior Knee

- LAX QUAD TEND
- SAX QUAD TEND
- LAX ANT RECESS
- LAX PAT TEND
- SAX PAT TEND

Medial Knee

- LAX MCL
- MM
- LAX PES ANS
- LAX LCL
- LM
- LAX IT BAND

Posterior Knee

- SAX ST, SM & GC
- SAX SM-GB
- SAX TN, PA & PV
- LAX BIC FEM
- SAX PN

General Vascular Protocols

SONO STUDENT SCANNING PROTOCOLS

Lower Extremity Venous (LEV)

- TRV CFV (dual non-compression/compression comparison)
- SAG CFV
- SAG CFV (including colour doppler)
- SAG CFV (including PW doppler)
- TRV GSV (dual non-compression/compression comparison)
- SAG GSV
- SAG GSV (including colour doppler)
- TRV FV/DFV (dual non-compression/compression comparison)
- SAG FV/DFV
- SAG FV/DFV (including colour doppler)
- TRV FV Prox thigh (dual non-compression/compression comparison)
- SAG FV Prox thigh
- SAG FV Prox thigh (including colour doppler)
- TRV FV Mid thigh (dual non-compression/compression comparison)
- SAG FV Mid thigh
- SAG FV Mid thigh (including colour doppler)
- TRV FV Dist thigh (dual non-compression/compression comparison)
- SAG FV Dist thigh
- SAG FV Dist thigh (including colour doppler)
- TRV PopV (dual non-compression/compression comparison)
- SAG PopV
- SAG PopV (including colour doppler)
- SAG PopV (including PW doppler)
- TRV TPJ (dual non-compression/compression comparison)
- SAG TPJ
- SAG TPJ (including colour doppler)
- TRV PTVs (dual non-compression/compression comparison)
- SAG PTVs
- SAG PTVs (including colour doppler)
- TRV PeroVs (dual non-compression/compression comparison)
- SAG PeroVs
- SAG PeroVs (including colour doppler)

SONO STUDENT SCANNING PROTOCOLS

Upper Extremity Venous (UEV)

- TRV IJV (dual non-compression/compression comparison)
- SAG IJV
- SAG IJV (including colour doppler)
- SAG SubclavV
- SAG SubclavV (including colour doppler)
- SAG SubclavV (including PW doppler and augmentation)
- TRV CephV (dual non-compression/compression comparison)
- SAG CephV
- SAG CephV (including colour doppler)
- SAG CephV (including PW doppler and augmentation)
- TRV AxV (dual non-compression/compression comparison)
- SAG AxV
- SAG AxV (including colour doppler)
- SAG AxV (including PW doppler and augmentation)
- TRV BrachVs (dual non-compression/compression comparison)
- SAG BrachVs
- SAG BrachVs (including colour doppler)
- SAG BrachVs (including PW doppler and augmentation)
- TRV BasVs (dual non-compression/compression comparison)
- SAG BasVs
- SAG BasVs (including colour doppler)
- SAG BasVs (including PW doppler and augmentation)

SONO STUDENT SCANNING PROTOCOLS

Carotid Arteries

- SAG LT/RT SubclavA
- SAG LT/RT SubclavA (including colour doppler)
- SAG LT/RT SubclavA (including PW doppler and measurement of PSV and EDV)
- TRV LT/RT SubclavA
- TRV LT/RT SubclavA (including colour doppler)
- SAG LT/RT CCA Dist
- SAG LT/RT CCA Dist (including colour doppler)
- SAG LT/RT CCA Dist (including PW doppler and measurement of PSV and EDV)
- TRV LT/RT CCA Dist
- TRV LT/RT CCA Dist (including colour doppler)
- SAG LT/RT Bulb
- SAG LT/RT Bulb (including colour doppler)
- TRV LT/RT Bulb
- TRV LT/RT Bulb (including colour doppler)
- SAG LT/RT ICA Prox
- SAG LT/RT ICA Prox (including colour doppler)
- SAG LT/RT ICA Prox (including PW doppler and measurement of PSV and EDV)
- TRV LT/RT ICA Prox
- TRV LT/RT ICA Prox (including colour doppler)
- SAG LT/RT ECA Prox
- SAG LT/RT ECA Prox (including colour doppler)
- SAG LT/RT ECA Prox (including PW doppler and measurement of PSV and EDV)
- TRV LT/RT ECA Prox
- TRV LT/RT ECA Prox (including colour doppler)
- SAG LT/RT VertA
- SAG LT/RT VertA (including colour doppler)
- SAG LT/RT VertA (including PW doppler and measurement of PSV and EDV)

SONO STUDENT SCANNING PROTOCOLS

Abdominal Doppler

Portal Veins

- SAG MPV (anterior to IVC)
- SAG MPV (anterior to IVC, including height measurement)
- SAG MPV (including colour doppler)
- SAG MPV (including PW doppler and measurement of PSV)
- SAG RPV
- SAG RPV (including colour doppler)
- SAG RPV (including PW doppler)
- SAG LPV
- SAG LPV (including colour doppler)
- SAG LPV (including PW doppler)

Hepatic Veins

- TRV RHV
- TRV RHV (including colour doppler)
- TRV RHV (including PW doppler)
- TRV MHV
- TRV MHV (including colour doppler)
- TRV MHV (including PW doppler)
- TRV LHV
- TRV LHV (including colour doppler)
- TRV LHV (including PW doppler)

Splenic Vein

- TRV SV (at splenic hilum)
- TRV SV (at splenic hilum, including colour doppler)
- TRV SV (at splenic hilum including PW doppler)
- TRV SV (at pancreas)
- TRV SV (at pancreas, including colour doppler)
- TRV SV (at pancreas including PW doppler)

Cardiac Protocols

SONO STUDENT SCANNING PROTOCOLS

Parasternal

PLAX

- Cine Increased depth PLAX
- Cine Normal depth PLAX
- 2D LV measurements diastole (IVSd, LVIDd, PWd)
- 2D LV measurements systole and LA measurement (LVIDs, LAs)
- Cine Zoom LA
- Cine Zoom AO
- 2D AO measurement LVOT
- 2D AO measurement Root
- Cine 2D High PLAX
- 2D High PLAX Asc AO measurement
- Cine Colour Av
- Cine Colour MV
- Cine Colour IVS/LV
- M-mode AV
- M-mode MV
- M-mode LV

RVIT

- Cine RVIT 2D
- Cine Colour TV
- CW through TV - Vmax TR

PSAX – AV level

- Cine Overall of PSAX AV level
- Cine Zoom AV
- Cine Zoom AV colour
- Cine Optimized TV
- Colour TV
- CW TV - Vmax TR
- Cine Optimized PV
- Colour PV
- PW RVOT – VTI RVOT
- CW PV - VTI PV/PHT PR

PSAX – MV level, Pap level, Apex level

- Cine 2D at MV level
- Cine 2D at Pap level
- Cine 2D at Apex level

SONO STUDENT SCANNING PROTOCOLS

Apical

AP 4

- Cine Overall 4CH
- Cine Zoom up LV
- Simpson's Biplane LV in Diastole
- Simpson's Biplane LV in Systole with calculated Ejection Fraction
- Cine Zoom up LA
- LA volume measurement with calculated volume
- Cine Colour MV
- PW MV inflow measurements
- CW MV – VTI Inflow/PHT for MS/PISA for Mod-Sev MR
- LV TDI Lateral E' measurement
- LV TDI Septal E' measurement
- PW Pulm Veins
- Cine Mod 4CH
- Cine Zoom RA
- RA Major/Minor measurement
- RV 2D measurement
- Cine Colour TV
- CW TV
- TAPSE measurement
- RV TDI Lat S' measurement

AP 5

- Cine 2D AO/AV/LV overall
- Cine Colour AV/LVOT/LV
- PW LVOT – VTI LVOT
- CW AV – VTI AV/PHT AR

AP 2

- Cine Overall 2CH
- Cine Zoomed up LV
- Simpson's Biplane LV in Diastole
- Simpson's Biplane LV in Systole with calculated Ejection Fraction (should have AP2 as well as the average between AP4 & AP2 present)
- Cine Zoom up LA
- LA volume measurement with calculated volume
- Cine Colour MV
- CW MV

SONO STUDENT SCANNING PROTOCOLS

AP 3

- Cine Overall 3CH
- Cine Colour AV
- CW AV
- Cine Colour MV
- CW MV

Subcostal:

- Cine Overall 4CH
- Cine Zoom IAS
- Cine Colour IAS
- Cine IVC/Hep 2D with sniff
- IVC diameter measurement with and without sniff
- Decide & enter RAP (Doppler image)
- Cine Colour of HV and IVC
- PW Hep Vein
- Cine AO long axis 2D
- Cine AO long axis colour
- PW AO

SSN:

- Cine 2D overall arch
- Cine Colour ascending
- CW ascending
- Cine Colour descending
- CW descending