

## ABDOMEN

- . PANCREAS TRV
- . IVC SAG
- . AORTA
  - . SAG
    - i. Prox
    - ii. mid
    - iii. distal
  - . TRV (mid abd.)
    - i. Bifurcation
    - ii. clip
- . LIVER
  - . SAG LLL
    - i. @IVC
    - ii. move left
    - iii. clip
  - . TRV LLL (start by heart)
    - i. Hepatic vein
    - ii. LPV
    - iii. Clip (include dome and lig teres)
  - . SAG RLL
    - i. Dome (entire)
    - ii. Medial, medial
    - iii. Clip (include kidney, IVC)
- . TRV RLL
  - i. IVC + hepatics
  - ii. Inferior with PV
  - iii. Include kidney
  - iv. Clip
- . GB
  - . Long axis (SAG)
  - . TRV
  - . Decub LLD
- . CBD
- . R Kidney
  - . SAG, measure
  - . TRV x 3
- . Spleen
  - . SAG, Measure x1
  - . TRV
- . L Kidney
  - . SAG, measure
  - . TRV x 3

Hint: Voluson, try OB setting

## KIDNEYS

- R Kidney
  - . SAG
    - Measure
    - Clip
  - . TRV
    - UP
    - MP
    - LP
- L Kidney
  - . SAG
    - Measure
    - Clip
  - . TRV
    - UP
    - MP
    - LP
- Bladder
  - . TRV, Clip.
  - . SAG, Clip.

Hint:

- Arms over head
- RI normal is < 0.7
- If new hydro, get RI

Transplant:

- add RI (UP, MP, LP)
- main renal artery
- renal vein
- Doppler image whole kidney
- Artery stenosis if
  - Peak systolic velocity > 300 cm/s
  - Or
  - >3x iliac artery
  - or
  - tardus parvus

## PELVIC

Note: if EM < 5 mm, it's linear echogenic

To see the CX, pivot hand back

Retroverted: CX is up (move hand down). Fundus is down (move hand up)

Trans-Abdominal:

- SAG UT – measure x 2
- TRV UT – measure x 1
- RO (or R AD)
  - TRV, clip, SAG, clip
- LO (or L AD)
  - TRV, clip, SAG, clip

Pelvic:

- SAG UT – measure if didn't get from above
- SAG CX
- COR CX
- COR UT – measure if needed
- RO
  - COR
  - SAG
  - Clip
- LO
  - COR
  - SAG
  - Clip
- EM

## THYROID

Hint: virtual convex

- Nodules > 1 cm need bx.
- All nodules > 1 cm, measure x3
- If 5-9 mm, measure one of them x3
- Isthmus
  - TRV – measure x 1
  - Clip
- R lobe
  - TRV
    - UP
    - MP – measure
    - LP
    - Clip
  - SAG
    - Measure x 2
    - Doppler
    - Clip
  - Nodule – measure x3, Doppler
- R IJ chain
  - Clip
  - Measure if > 0.7 cm, x2
- L lobe (repeat above)
- L IJ chain (repeat above)

## SCROTAL

- TRV image of both testicles. With Doppler
- R TRV
  - UP
  - MID – measure x 1
  - LP
- R SAG
  - Lateral
  - Mid – measure x 2
  - Medial
  - Doppler
  - RI (spectral) – PW, left click, RI
- Epidymis
  - Head by testicle
  - Body
  - Tail
- Check varicocele and valsalva

## LIVER DOPPLER

- MPV (angle correct, velocity goal > 15 cm/s)
- RPV – posterior, blue
- RPV – anterior, red
- LPV
- 
- RHV
- MHV
- LHV
- IVC (intrahepatic)

### Hint

- hit L button to start.
- Go LATERAL for PV's (mid clavicular)
- Go SUPERIOR for HV's

## AORTA

Hint: > 3 cm, or 1.5x proximal. Iliacs 1.5 cm

### SAG

Prox  
mid  
dist

### TRV (measure x2)

Prox  
mid  
dist

### Bifurcation

TRV  
Clip  
Measure x 2

### If diagnostic, add

- Doppler, velocity
  - Prox AO above renal
  - mid
  - dist
  - iliac arteries