

Aorta Screen

(BILL AS US AAA SCREENING)



Indications

- ◆ Men 65 years or older with h/o smoking
- ◆ Women 65 years or older with cardiovascular risk factors
- ◆ Patients 50 years or older with a family history of aortic/peripheral vascular aneurysmal disease
- ◆ Patients with personal history of peripheral vascular aneurysmal disease
- ◆ Additional risk factors of AAA including hypertension and connective tissue diseases

Equipment

- ◆ Curvilinear or sector transducer
 - 2-7 MHz

Patient Position

- ◆ Supine
- ◆ Decubitus as needed

Patient Prep

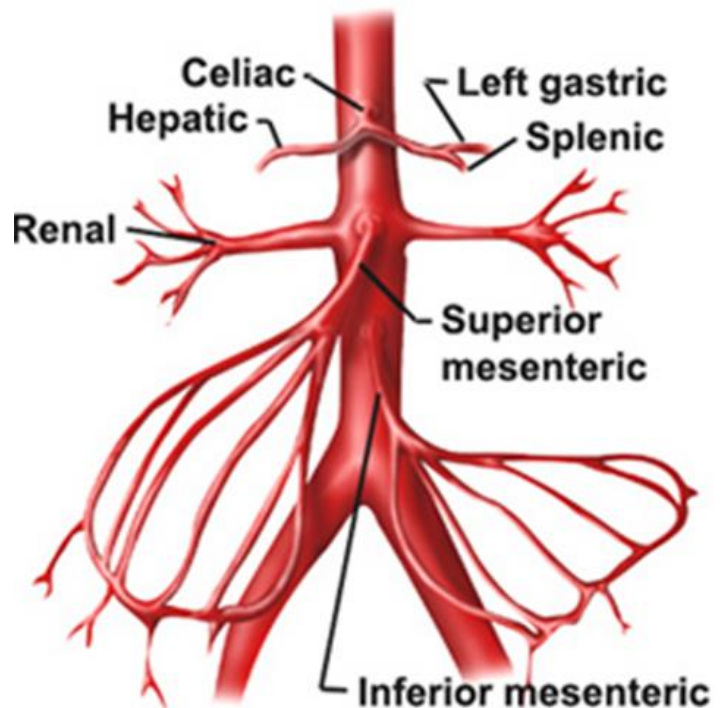
- ◆ NPO 6-8 hours



Evaluation

Transverse & Longitudinal

- ◆ Evaluate
 - Just proximal to SMA/cealic axis
 - Near renal arteries
 - Just proximal to bifurcation
- ◆ Evaluate for and document
 - Areas of plaque
 - Measurements
 - Outer wall to outer wall
 - Perpendicular to vessel
 - Aneurysm
 - Aorta
 - Greater than or equal to 3cm
OR
 - Greater than or equal to 1.5 times the diameter of the proximal aorta



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Images

Proximal Aorta

- ◆ Longitudinal
 - AP measurement
- ◆ Transverse

Mid Aorta

- ◆ Longitudinal
 - AP measurement
- ◆ Transverse

Distal Aorta

- ◆ Longitudinal
 - AP measurement
- ◆ Transverse

Aneurysm

- Longitudinal
 - Measure max AP and length
- Transverse
 - Measure max Trans
- Color
- ◆ Relationship to renal arteries OR SMA and bifurcation
- ◆ If aneurysm found, leave as AAA screen

-All measurements should include images w/out & w/measurements

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Additional Information

- ◆ Positioning
 - Coronal or lateral approach in the supine or RLD or LLD may be helpful if aorta obscured by bowel gas
 - The liver may be used as a window to view the aorta coronally from an intercostal approach
- ◆ ACR recommendations for AAA follow up:
 - AAA 3.0 - 3.9 cm- every three years
 - AAA 4.0 - 4.9 cm - annually
 - AAA 5.0 - 5.4 cm- every 6 months

References

- ACR–AIUM–SPR–SRU PRACTICE PARAMETER FOR THE PERFORMANCE OF DIAGNOSTIC AND SCREENING ULTRASOUND OF THE ABDOMINAL AORTA IN ADULTS Revised 2020 <https://www.acr.org/-/media/ACR/Files/Practice-Parameters/US-Abd-Aorta.pdf>
- <http://www.yoursurgery.com/ProcedureDetails.cfm?BR=2&Proc=70>