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3 miscarriages in the last 2 years
Arterial Duplex with ABI ordered
RIGHT
Brachial 120 mmHg
Ankle 80 mmHg
ABI .66
LEFT
Brachial 120 mmHg
Ankle 85 mmHg
ABI .70
Is the Exam Complete?
TISSUE BRUIT
Do not confuse this with Artifact
When you see it recognize it as a sign of a very high flow velocity
Aortic Flow: 439 cm/sec

Monophasic R/L Iliac Arteries
Why would a 32 year old Female patient have significant Distal Abdominal Aortic Stenosis Without evidence of Atherosclerotic disease?
Patient states she has smoked between two to three packs per day for 17 years. Several attempts to quit smoking have been unsuccessful.
Females can also have Buerger’s Disease – though % is less
Buerger's disease is a chronic disease characterized by segmental inflammation and thrombosis of the small- and medium-sized arteries and veins of both the peripheral upper and lower limbs.
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Smoking, mostly male gender, genetic factors, infectious agents and mental stress due to poor socio-economic circumstances have all been suggested as possible trigger factors of Buerger’s Disease.
Treatment Options for this Patient

Conservative Treatment
Anticoagulation Therapy

Surgical Intervention
Followed by anticoagulation

Symptomatic
WITHOUT
signs of potential
limb loss

Symptomatic
WITH signs of
potential limb loss

This patient is experiencing embolization from the thrombus. Two Toes are at risk for amputation.

Surgical Intervention was performed, Followed by anticoagulation therapy. Also an aggressive anti-smoking program was prescribed. Toes were not amputated. Patient is being monitored for possible arterial recanulation of flow to the two effected toes.
Search of the literature

Primary aortic mural thrombus; presentation and treatment.
Han TL, Daising MC, et al
Department of Surgery, Peripheral Vascular Surgery Section, Indiana University School of Medicine

Anticoagulation is an effective treatment for aortic mural thrombi.
Bowdish ME, Weaver, FA, Liebman HA, Rowe, VL, Hood DB
Division of Vascular Surgery, Department of Surgery, Keck School of Medicine, University of Southern California