Emergent Vascular Cases
Michigan Society of Ultrasound
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My Ultimate Goal Everyday

Make Duplex The Gold Standard......
Treat Every Image You Take, Like You Are Taking A Picture of A Work of Art

Washko 2006
Are These Images Truly The Best Images I Can Attain?
Just Because The Study Wasn’t Ordered, Does Not Mean You Can Ignore The Secondary Findings....
Incidental Finding Of A Large Right CFA Aneurysm During A Venous Exam..
Where Else Should One Interrogate?
Answer

- Contralateral
- External Iliac
- Common Femoral Artery
- Superficial Femoral Artery
- Popliteal
- Abdominal Aorta
- Common Iliac
So What Brought You To The E.R?
I Couldn’t Read My Book

• ER referral to Peripheral Vascular Lab
• Patient: “My eyes are blurring”
• ER MD: “What do you mean”
• Patient: “When I rest my book on my body at night the words on the page look fuzzy”
• ER MD: “Where do you rest your book”
• Patient: “On my stomach”
• ER MD: Well, this picture pretty much explains why you couldn’t read - but heh, Mr ____, did you ever notice that the book was moving?
Tuesday Last Week

10cm x 12cm AAA
12cm x 11cm Abdominal Aortic Aneurysm
Speaking of CFA and Popliteal Aneurysms .......

- Last Monday
- 61 year old patient
- Bilateral lower extremity pain
- Weak pulses
- *(Has Not Been To A Physician in 25 years)*
Saccular SFA Distal Aneurysm
Treat Every Image You Take, Like You Are Taking A Picture of A Work of Art

Washko 2006
Are These Images Truly The Best Images I Can Attain?
One Never knows Where
The Images You attain will
End Up!
Image Optimization and Correlation In AAA

Outside Facility Images for Correlation

UNC Rex Healthcare
Image Optimization and Correlation In Extracranial Imaging (2 weeks Previous)

Outside Facility Images for Correlation

UNC Rex Healthcare
Prior To Upgrading Transducers and Software

- Imaging comments
- Near zone detail difference
- Far zone detail difference
- Color-ADF-SMI
- Patient specific
- Sonogenic vs Non sonogenic
Technology is Here To Help You Not To Scare You!
Keys Points on Adapting New Technology

- Always utilize new technology and software applications in a controlled environment.
- Perform examinations on your departments standard machine.
- Color and secondary imaging parameters may have different appearances and functionality especially in face of underlying irregular cardiac rhythm with new Rev levels.
- Technologic advances laboratory (Controlled environment) vs Day to Day application.
- Controlled environments and thought processes can be radically impact real world day to day application.
Incidental Findings
Clinical History

- 34-year-old male
- SOB
- Feels prominence in groins x 4 weeks
- Venous duplex BLE
- Spiral CT demonstrates multilobe P.E.
Right and Left Groin Regions

Matrix Curved Linear i8xl

Matrix Linear II Lx
Clinical History

• 46 year old male
• Cardiomyopathy
• Antiphospholipid antibody syndrome
• Severe hypertension
• Renal duplex examination
Simple Renal Cyst?
B-Mode and Color

LT KID

LT KID

Dist A  27.5 mm  Dist B  18.4 mm
Real Time Comparison
M-SMI Mode and Color

LT KID

Dia A 27.5 mm  Dist B 18.4 mm
1 month Later
Plus Much More......