

Case Study -Series 4

There are 2 clients in this series please review carefully

- 70-year-old male patient
 - 1 question requires loading a worksheet
- 58-year-old female patient
 - 2 questions
- Final question does NOT relate to these clients

Total Marks 18

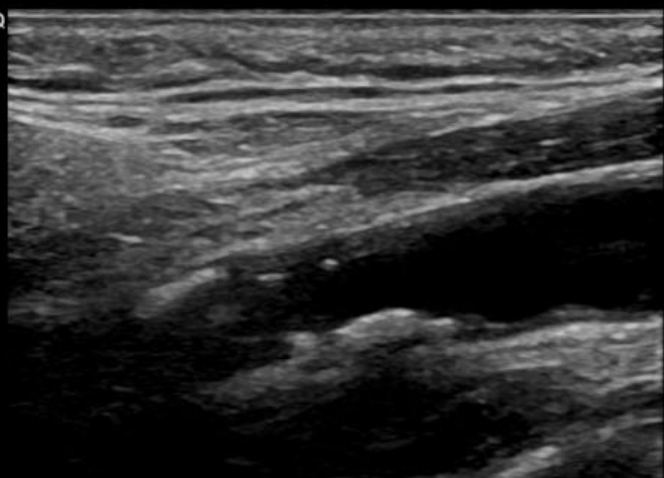
Client 1 - Clinical History



- 70-year-old-male
- Current smoker (1 pack a day)
- History of hypertension, hyperlipidaemia
- Is a diabetic
- ER admission with 5 episodes of blurring of vision in right eye that resolves within 24hrs.

A

LOGIQ
E9



LT ICA

FR 3

- CHI
- Frq 8.
- Gn 3
- S/A 2/
- Map H/
1- D 4.
DR 6
- AO% 10

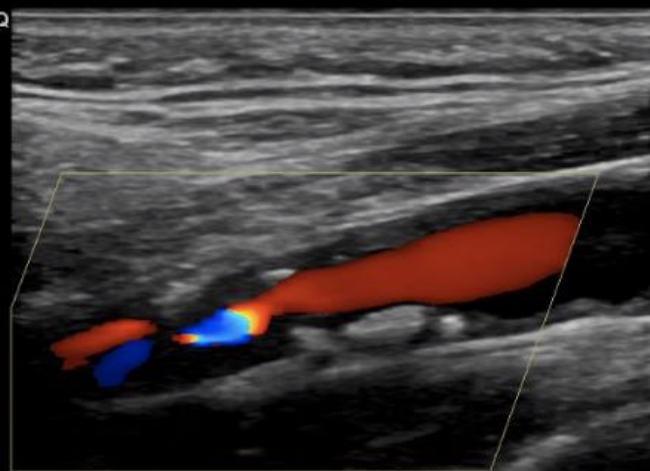
2-

3-

4-

B

LOGIQ
E9



LT ICA

FR 23

- CHI
- Frq 8.4
- Gn 33
- D 4.0
- AO% 100

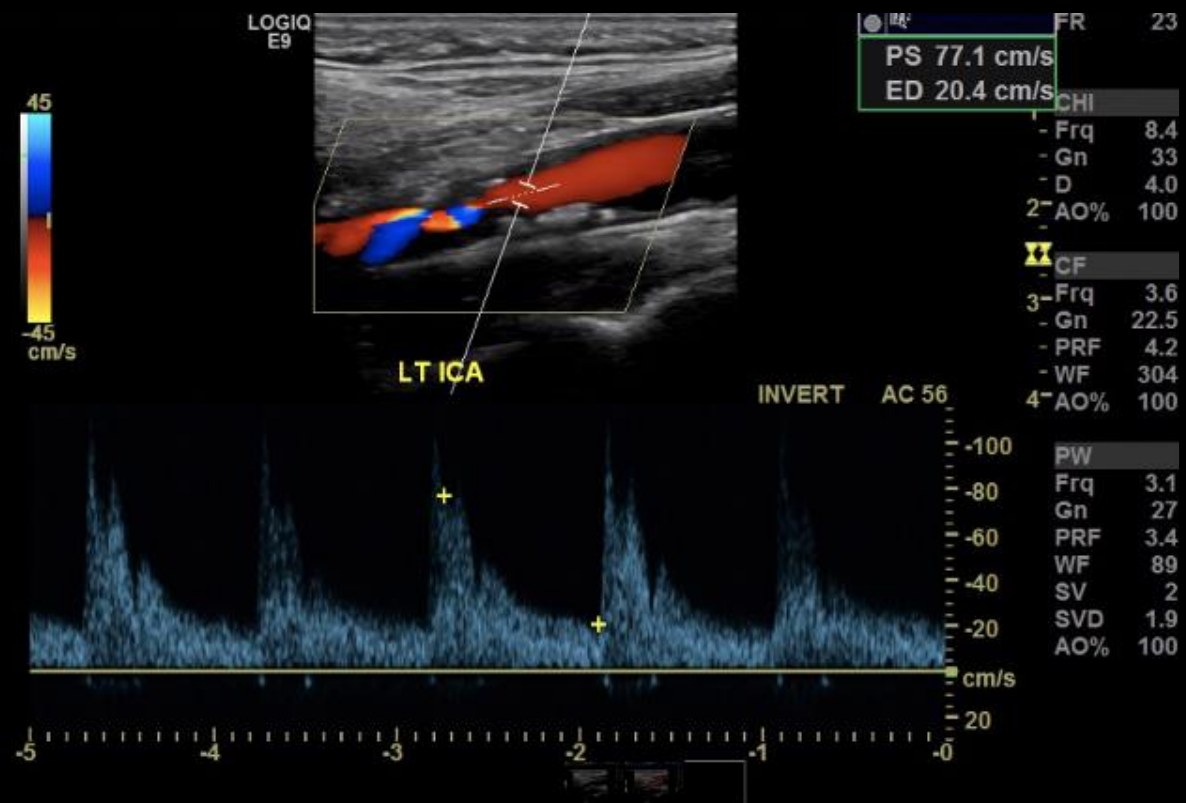
1-

- CF
- Frq 3.6
- Gn 22.5
- L/A 0/7
- PRF 4.2
2- WF 304
- S/P 4/12
- AO% 100

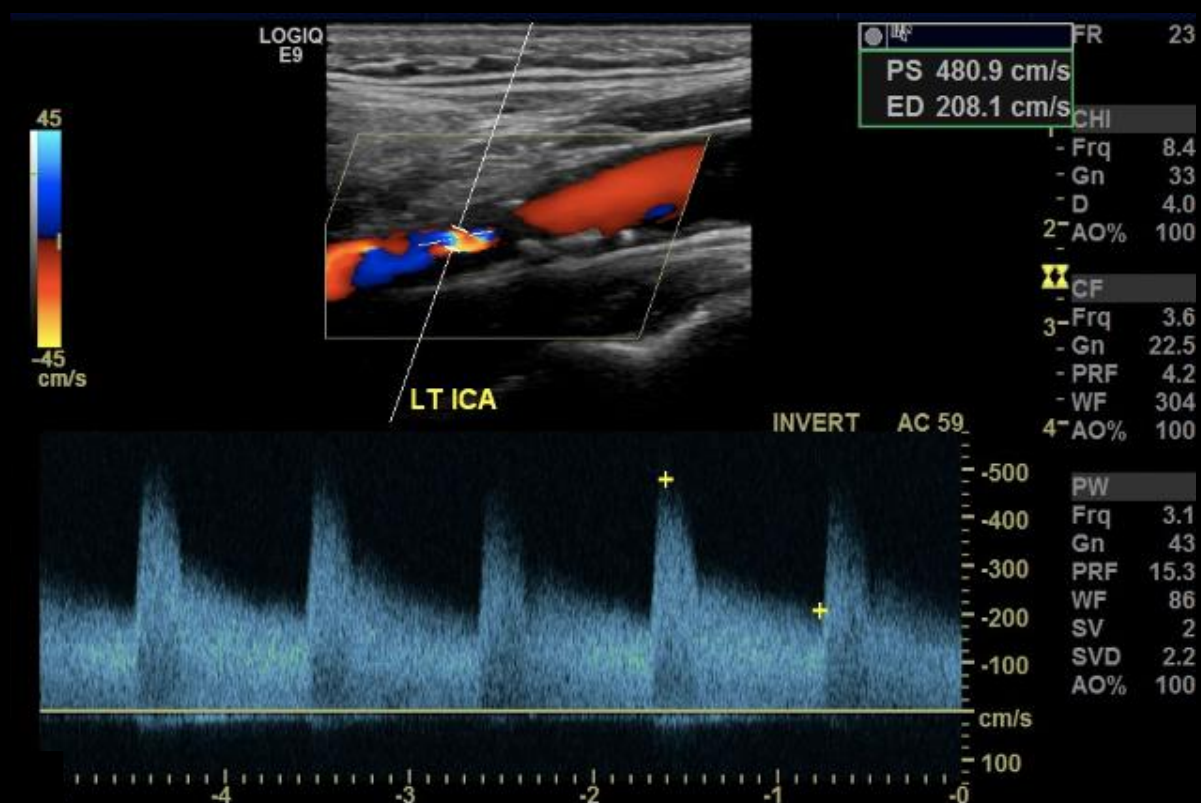
3-

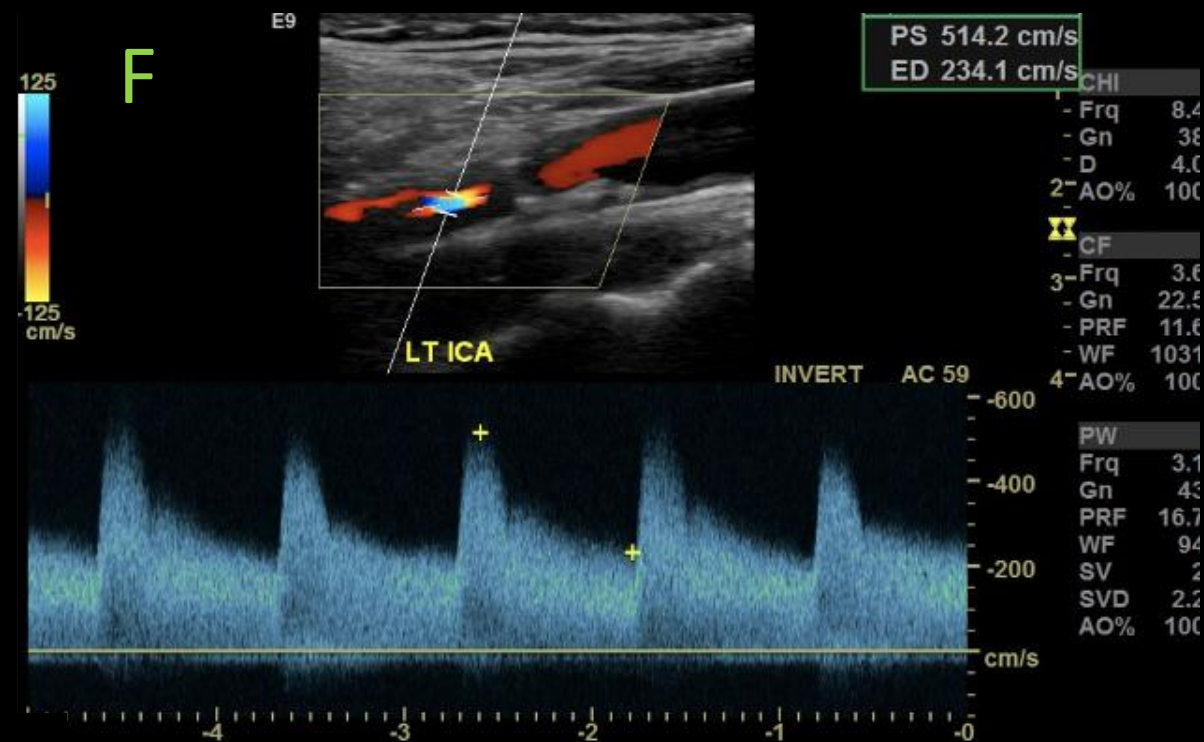
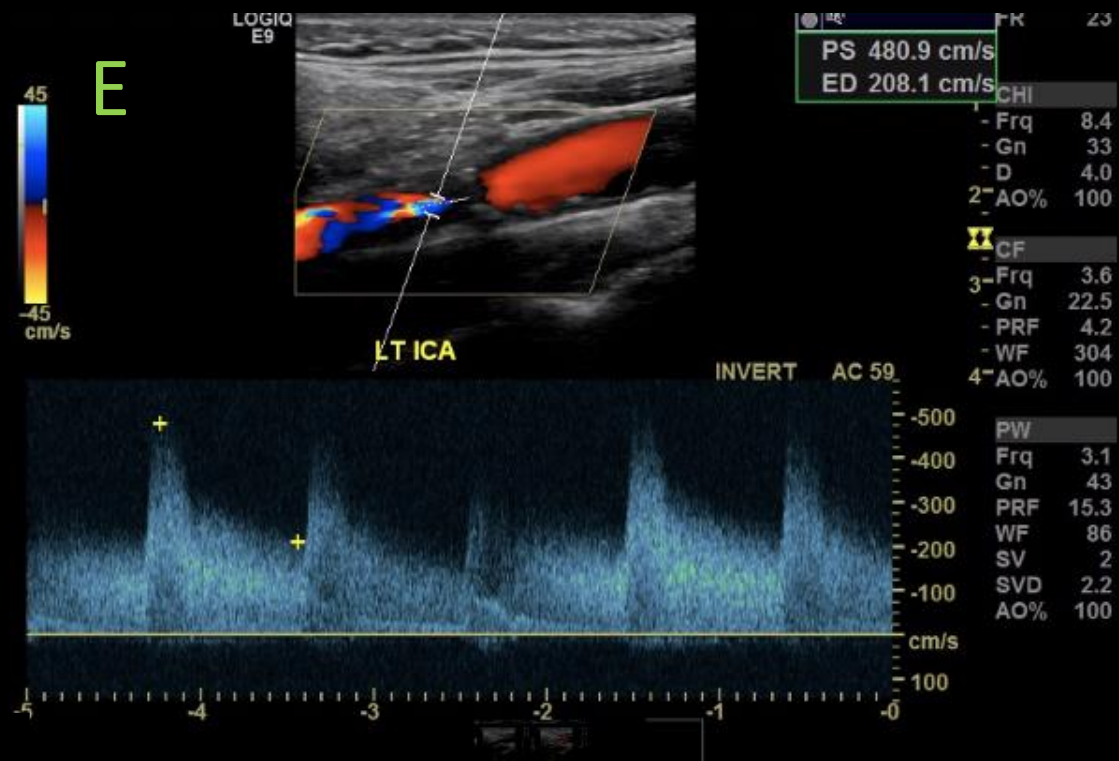
4-

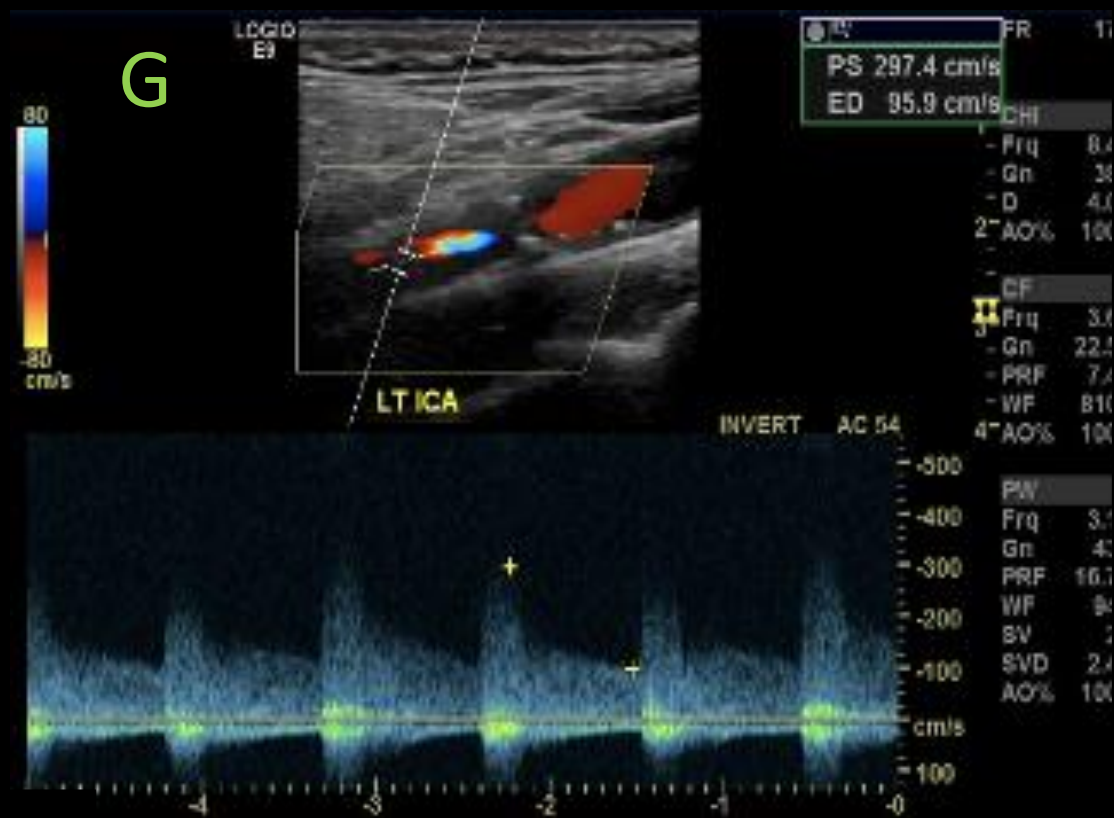
C



D

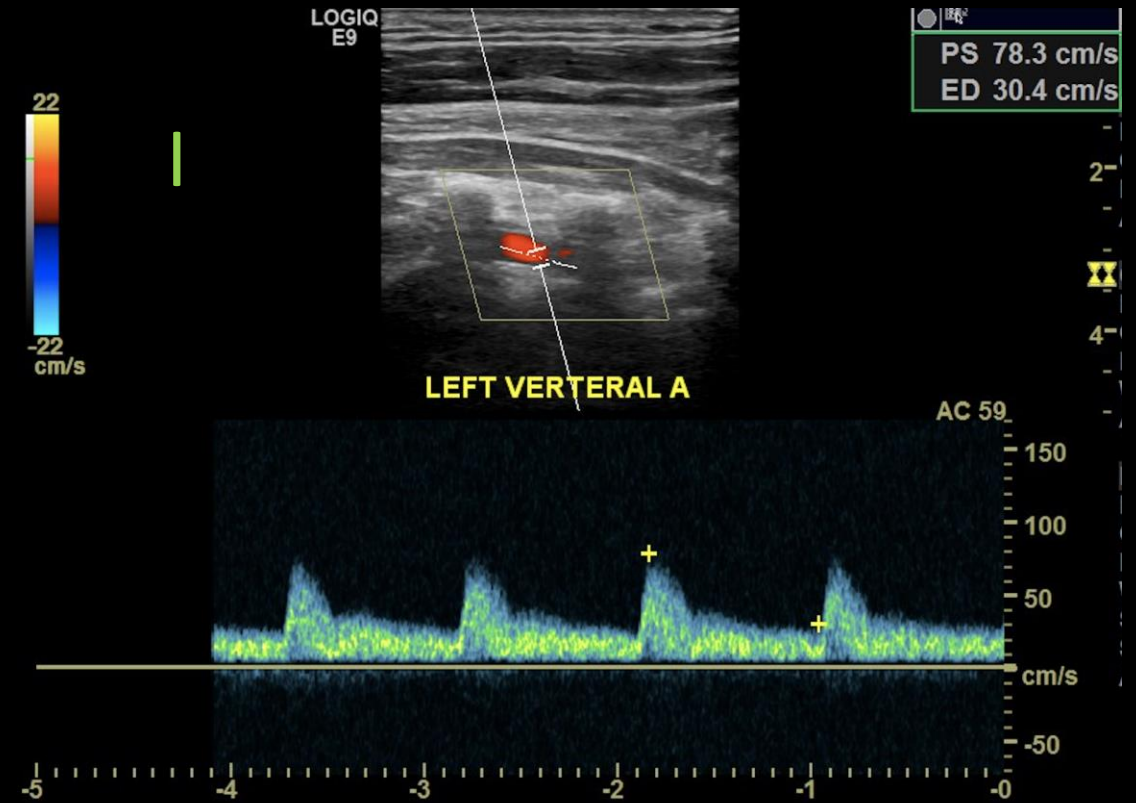






Final image

There are 9 images in this series



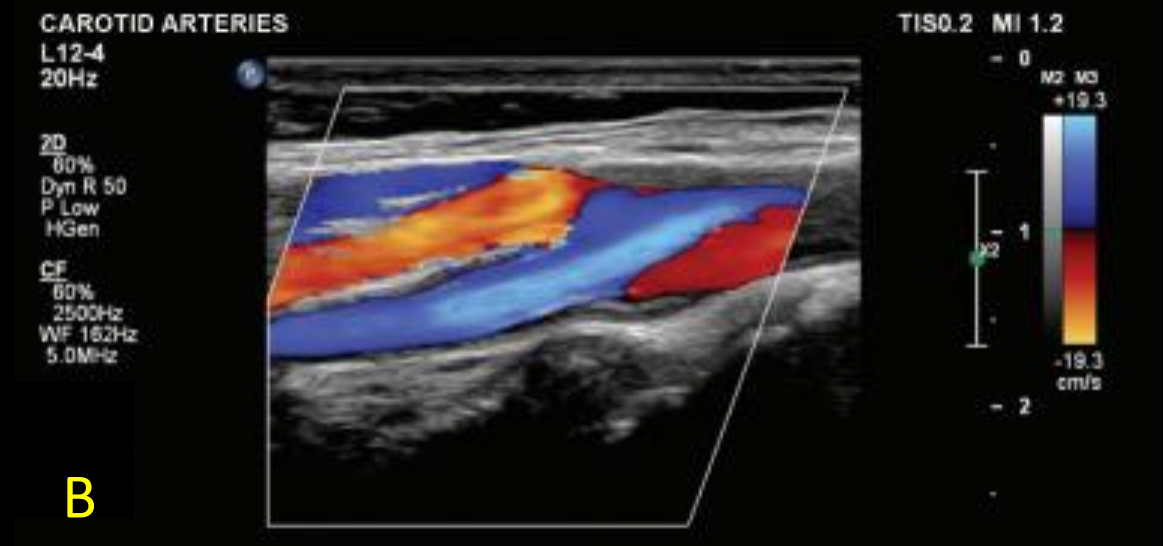
Question 1

- For patient 1
 - And based on images A, B, C, D,E,F,G H and I (9 images)
- Complete and upload a ultrasound worksheet/ report for this study –
date and sign your worksheet. [5 marks]

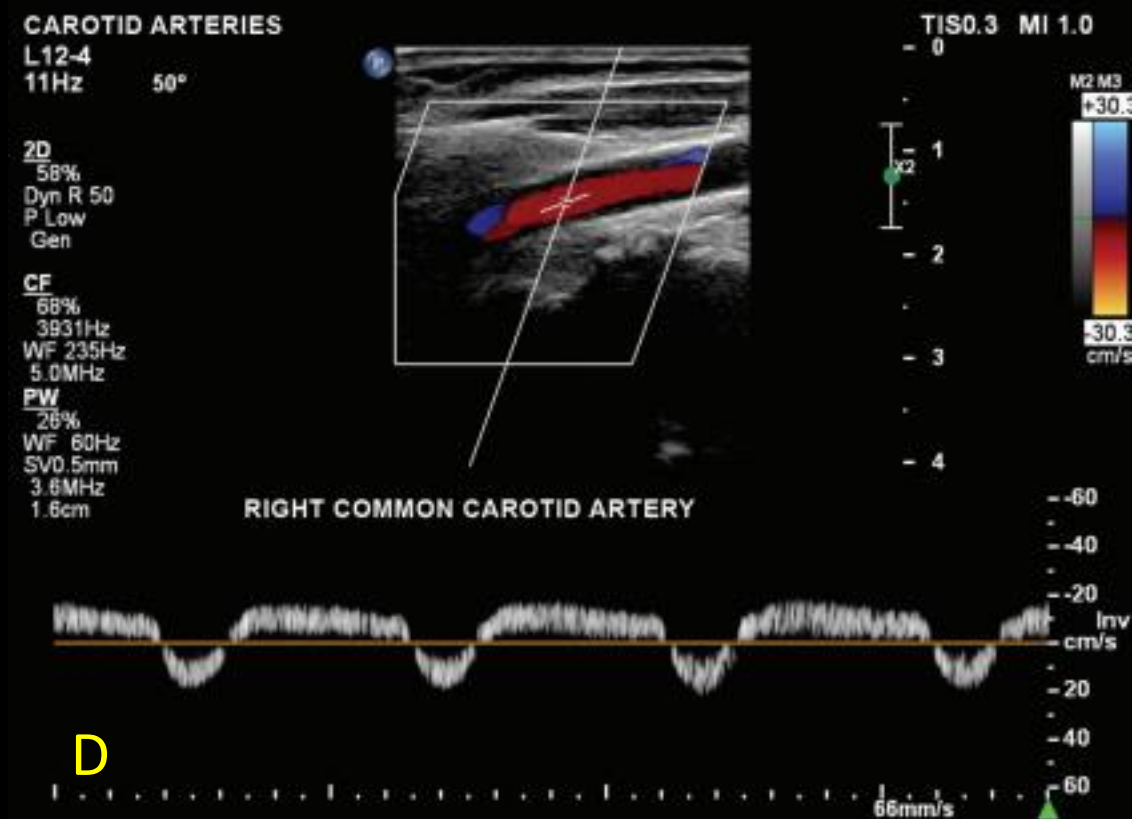
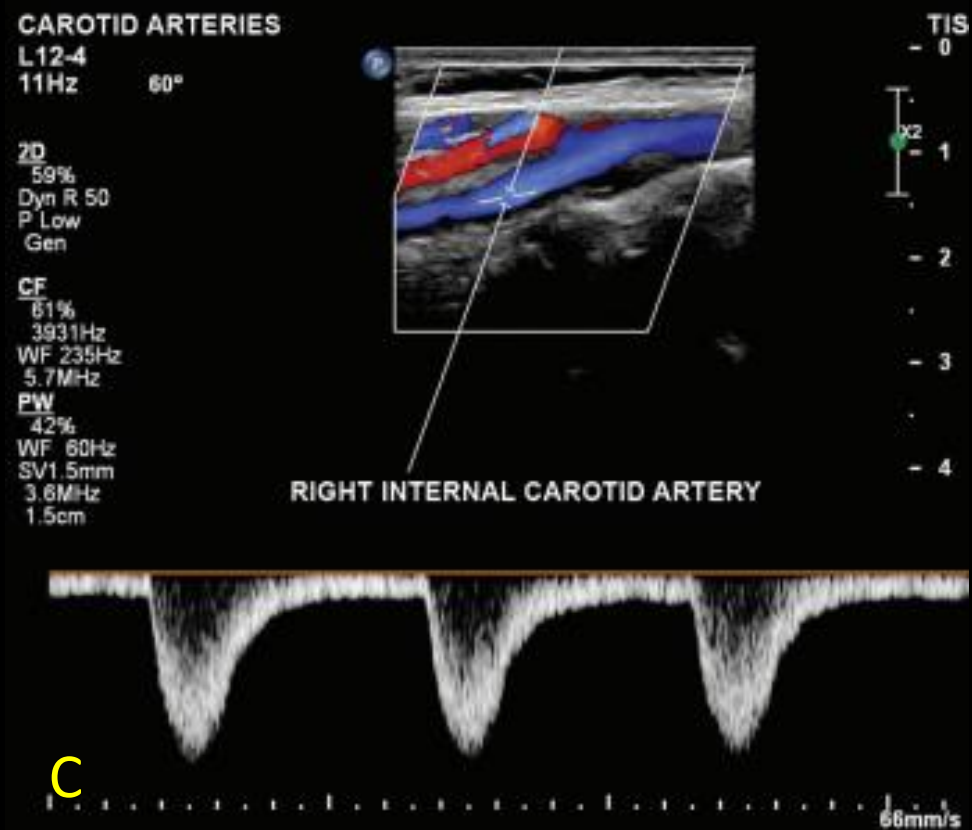
Client 2 - Clinical History

- 58-year-old female
- hypertensive
- smoker (20 cigarettes/day),
- Presents with symptoms of frequent episodes of collapse.
- Limb pulses and blood pressure levels are different between right and left arms.
- No history stroke TIA
- Requested scan – Carotid

Images



Images



Images

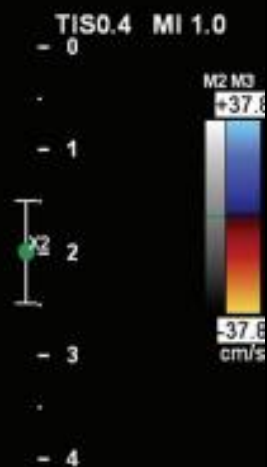
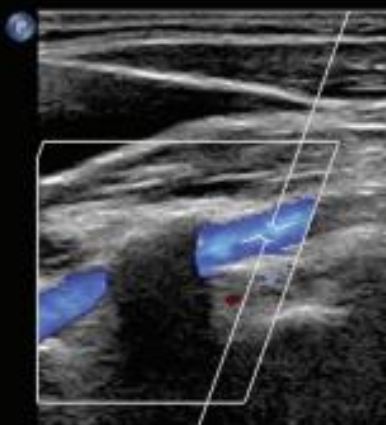
CAROTID ARTERIES

L12-4
12Hz 50°

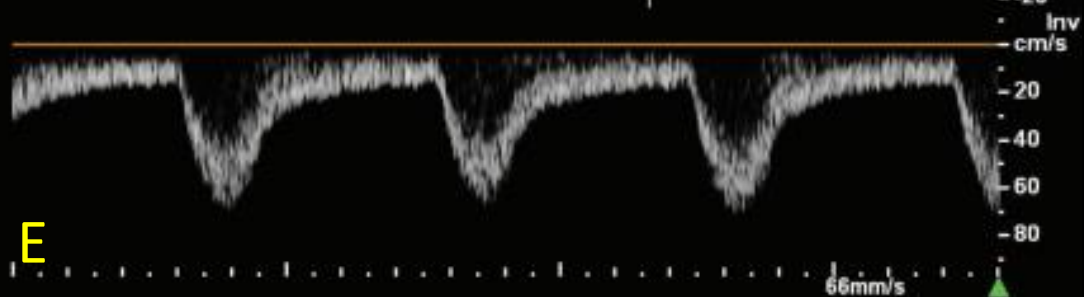
2D
57%
Dyn R 50
P Low
Gen

CF
70%
3931Hz
WF 235Hz
4.0MHz

PW
26%
WF 60Hz
SV1 5mm
3.6MHz
2.3cm



RIGHT VERTEBRAL ARTERY



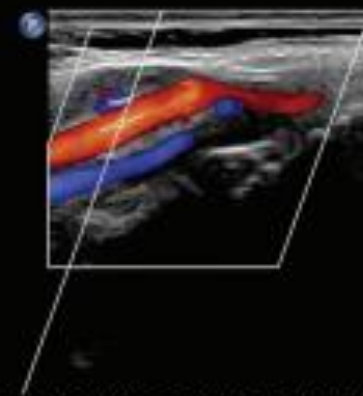
CAROTID ARTERIES

L12-4
11Hz 50°

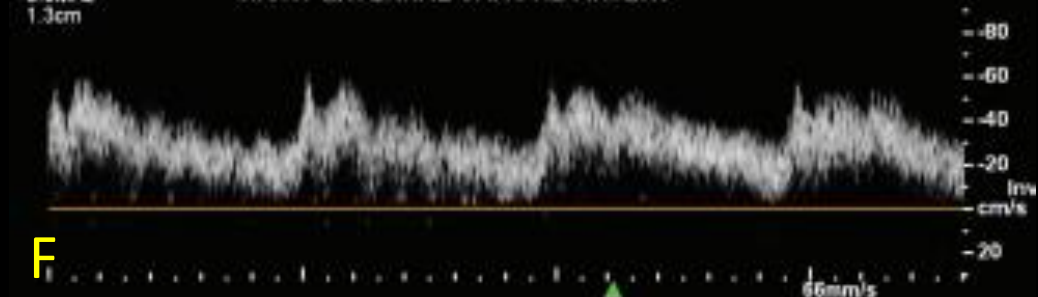
2D
59%
Dyn R 50
P Low
Gen

CF
60%
3931Hz
WF 235Hz
5.7MHz

PW
28%
WF 60Hz
SV0 5mm
3.6MHz
1.3cm



RIGHT EXTERNAL CAROTID ARTERY



Questions – patient 2

Consider images A-F and the clinical history:

2. Describe the spectral Doppler trace in Image F. [4 marks]

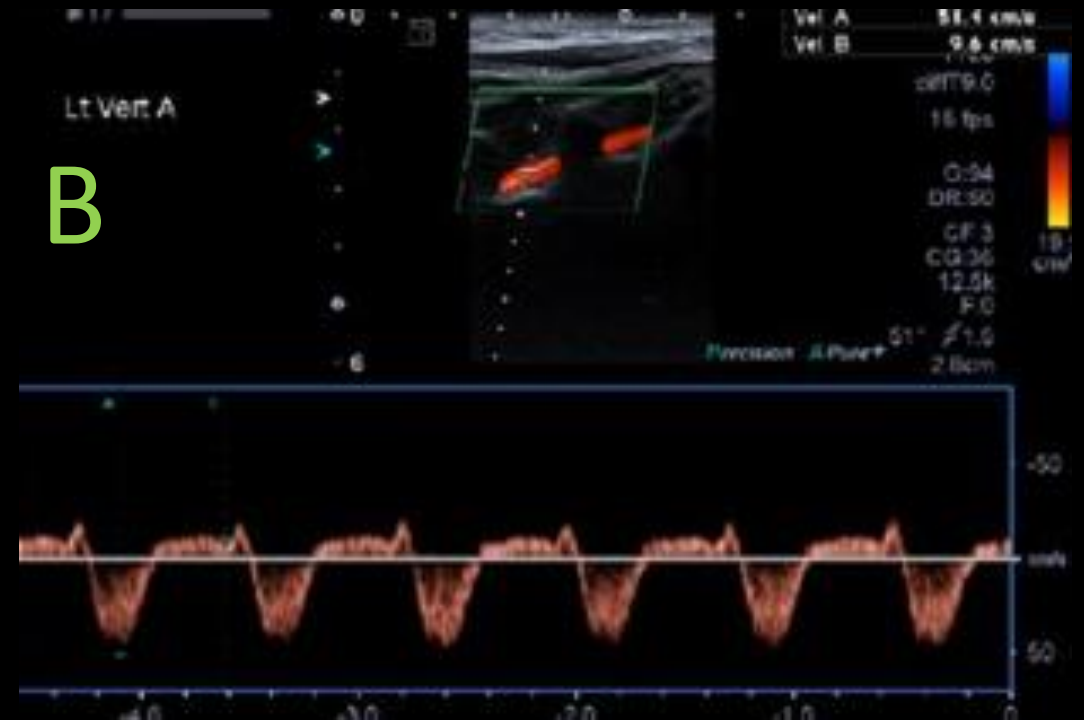
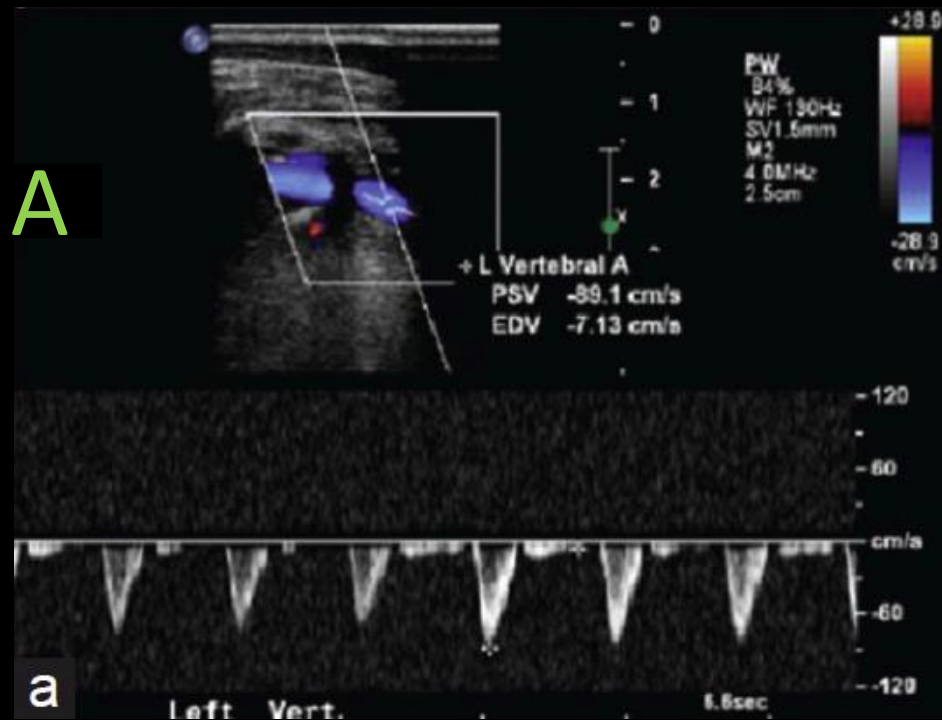
3. Based on the images AND the clinical history, provide a written ultrasound report. (Be very specific) [3marks]

Final images and question

- These two images are incidental findings from 2 different clients NOT associated with client 1 or 2
- Both images are left vertebrals from 2 different patients.
- Look at image A and B and consider the question provided.

4. Consider the two vertebral images. Describe the spectral Doppler waveform. Indicate in your response if either is normal or abnormal and why.

[6 marks]



Questions

Patient 1:

1. You must complete and upload a sonographer worksheet for this study sign and date your worksheet. [5 marks]

Patient 2:

2. Describe the spectral traces seen in image F. (include if this is a normal abnormal trace and why) [4 marks]
3. Based on the images AND the clinical history, provide a written ultrasound report. [3 marks]

Final images not relating to patient 1 or 2

4. Consider the two vertebral images. Describe the spectral Doppler waveforms. Indicate in your response if they are normal and abnormal and why. [6 Marks]