

## Ultrasound

Are you going to grow taller?

Yes

No



What is this part of the bone called?

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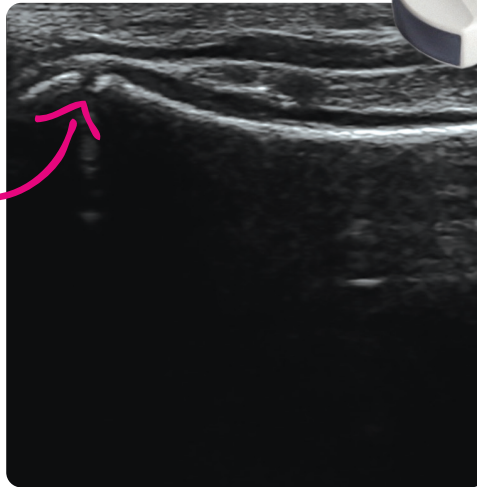
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The growth plates disappear between the ages of 13 & 15 for girls and 15 & 17 for Boys. However, in some boys and girls the growth plate doesn't close until 18-21 years old!!!

What parts of your body did you look at today? Circle them below!

Bones

Muscles

Carotid artery

Jugular Vein

Heart

Lungs

Liver

Kidneys

The gel is really important! It is the same density as our tissues and it helps transmit the sound waves into the body. The sound waves bounce off the different tissue boundaries and the probe detects the returning waves. These are converted into images by the main computer. Without the gel, the sound waves are reflected by the large difference in density between the probe and the air. In fact 99% of the sound waves are reflected back into probe and do not enter the body without the gel.

If you took some measurements, write them in the space below!



**Did you know** the frequency of the sound waves from an ultrasound machine is above 20,000 Hz. That is above our hearing range!

## Pulse Doppler

Did you hear your pulse?

Yes

No

How would you describe your heartbeat?

Triphasic  
(3 sounds)

Diphasic  
(2 sounds)

Monophasic  
(1 sound)



**Career Finder**  
 Medical Engineer  
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 Midwife  
 Vascular scientist

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