Notes on Introduction to Cardiac Physical Diagnosis.

## UTMB DIVISION OF CARDIOLOGY

W. Thornton, M.D.

J. Wallace, M.D.

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Figure 1.— Peripheral Pulses

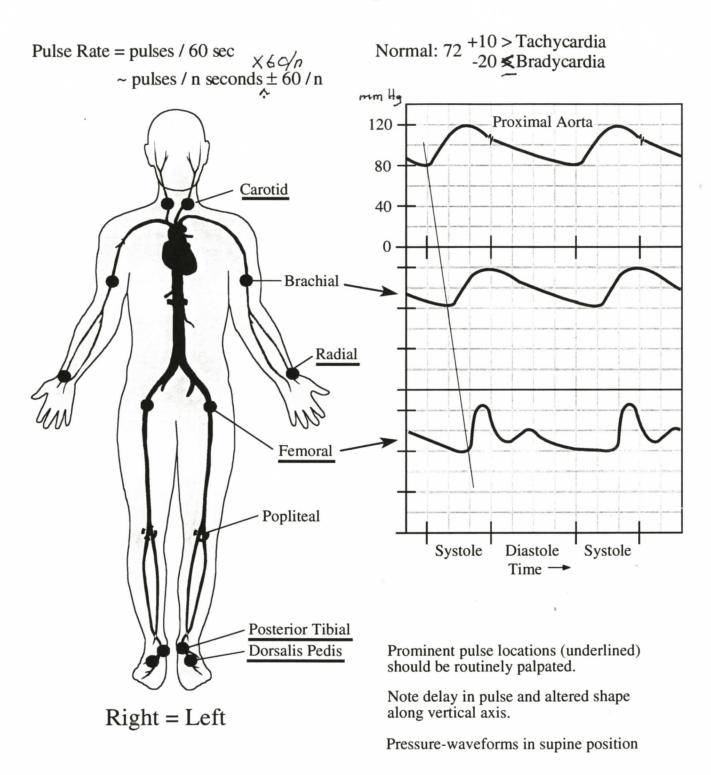


Figure 2A.- Arterial (Proximal Aorta) Pulse / BP

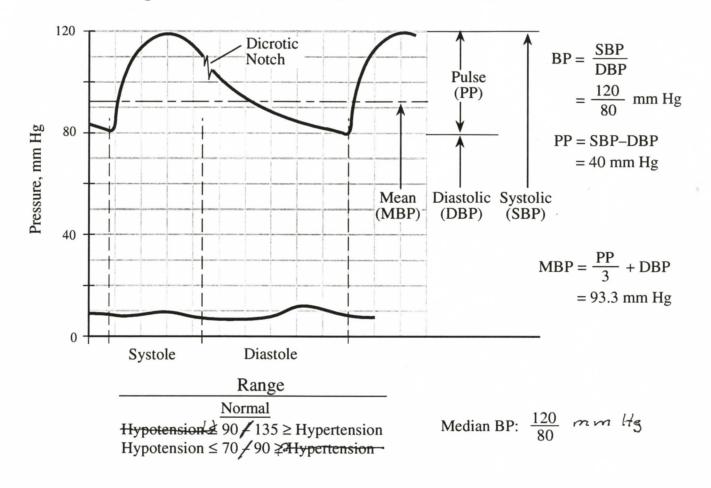
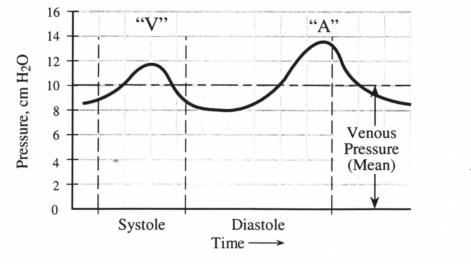


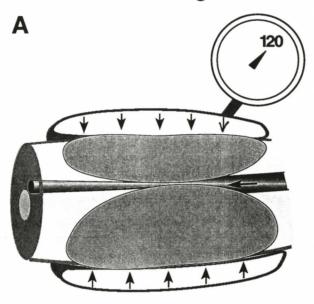
Figure 2B.- Venous (Internal Jugular) Pulse/Pressure



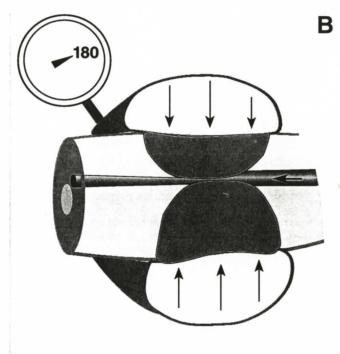
Venous Pressure Median Low ≤ High ≥

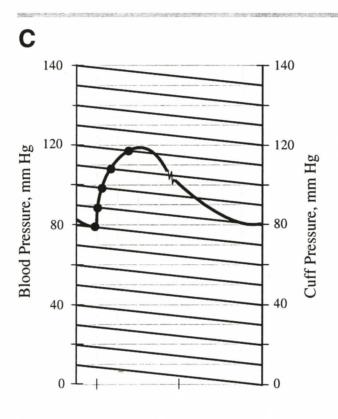
1 mm Hg = 1.36 cm Hz

Figure 3.- Manual Blood Pressure



Cuff Size: width ≥ .4 arm circumfrence length ≥ .8 arm circumfrence





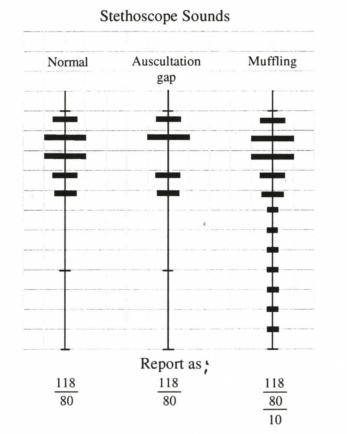
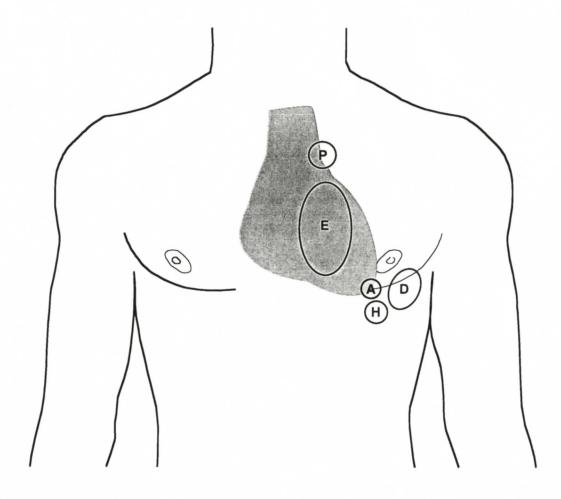


Figure 4.- Principal Areas of Cardiac Pulsation



- A Normal apical area, dime sized 5LICS-MCL
- (H) "Hypertrophied" apical area, increase size, shifted inferiorly
- (D) "Dilated" apical area, marked size increase, shifted laterally
- E Ectopic area, left peristernal area
- Pulmonic area, 2LICS, peristernal

Primary areas of precordial pulsation:
As you progress you will find that additional areas are necessary of in cardiac examination.

pulsation may

occassionaly be found

Figure 5.- Normal Heart Sounds

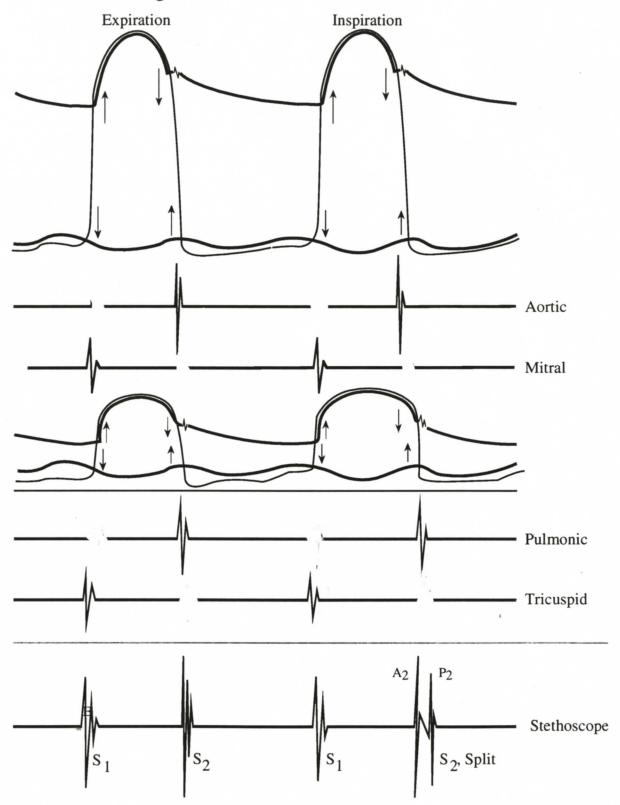
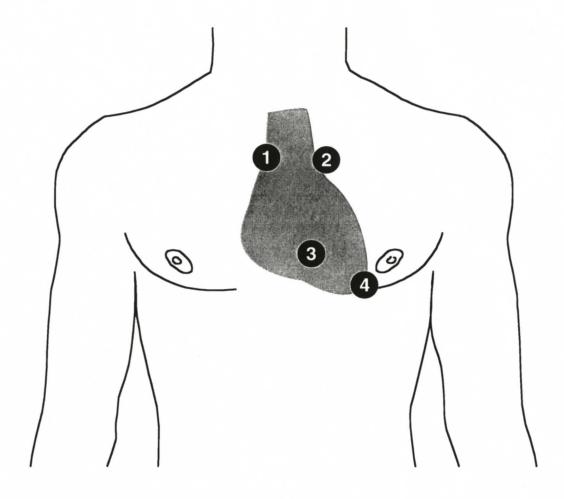


Figure 7.- Primary Areas for Cardiac Ausculation



- 1 Aortic Area (2RSB)
- 2 Pulmonic Area (2LSB)
- 3 Tricuspid Area (4LSB)
- 4 Mitral, (Apical) Area (5MCL)

As you progress you will find that additional areas are necessary in cardiac auscultation.

Figure 8.– Heart Sound Diagrams

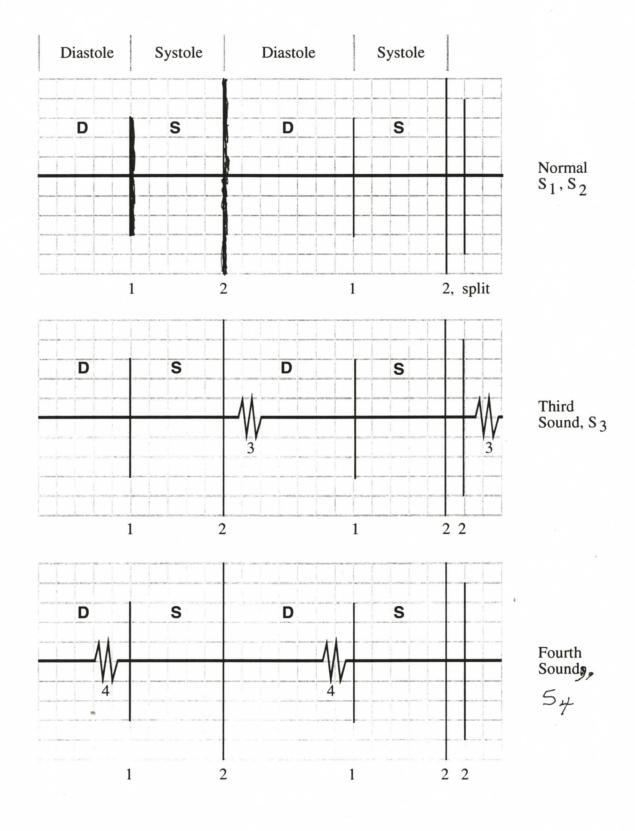


Figure 9.- Diagrams and Description of Heart Sounds/Murmurs

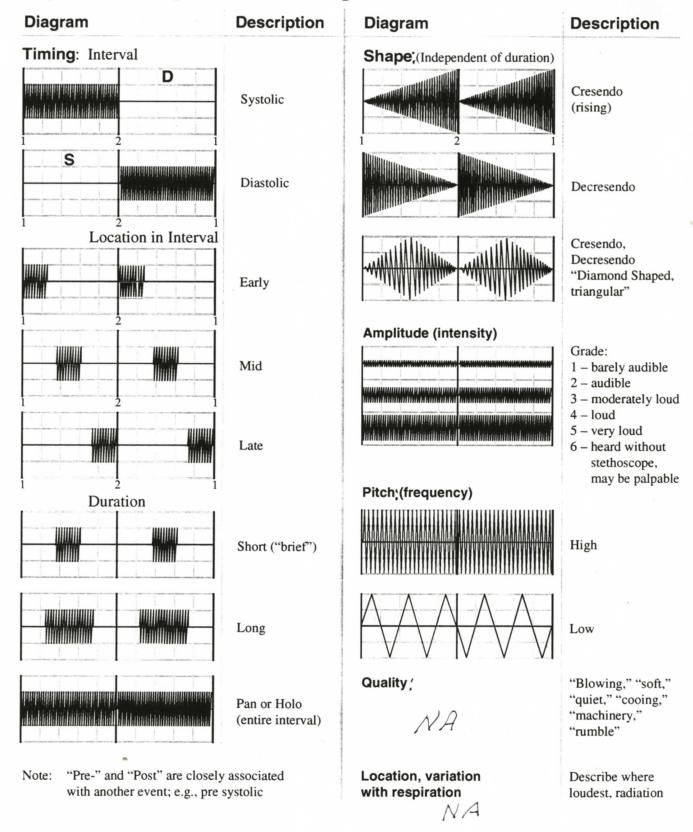


Figure 9.- Diagrams and Description of Heart Sounds/Murmurs

Diagram	Description	Diagram	Description
Timing: Interval	Systolic	Shape (Independent of duration)	Cresendo (rising)
s l	Diastolic		Decresendo
Location in Interval	Early		Cresendo, Decresendo "Diamond Shaped, triangular"
	Mid	Amplitude (intensity)	Grade: 1 – barely audible 2 – audible 3 – moderately loud
Duration	Late	Pitch (frequency)	<ul> <li>4 – loud</li> <li>5 – very loud</li> <li>6 – heard without stethoscope, may be palpable</li> </ul>
	Short ("brief")		High
	Long		Low
	Pan or Holo (entire interval)	Quality	"Blowing," "soft," "quiet," "cooing," "machinery," "rumble"
Note: "Pre-" and "Post" are closely with another event; e.g., pre		Location, variation with respiration	Describe where loudest, radiation