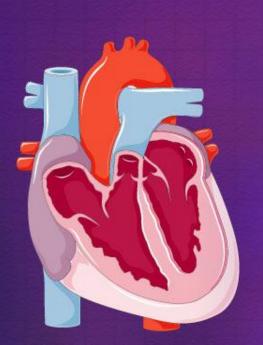
Warm-Up: 10/16/14

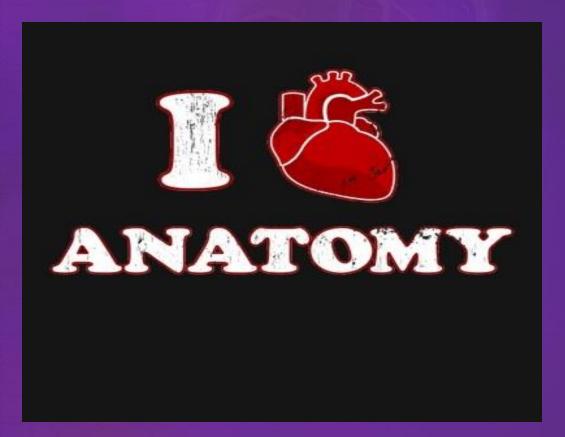
- Calculate and interpret the following pulse pressure:
 - 120/80
 - 143/94
 - 110/56



- Interpret the following B/P readings as WNL, prehyper-, hyper-, or hypo-.
 - 136/92
 - 98/48
 - 158/110
 - 106/64

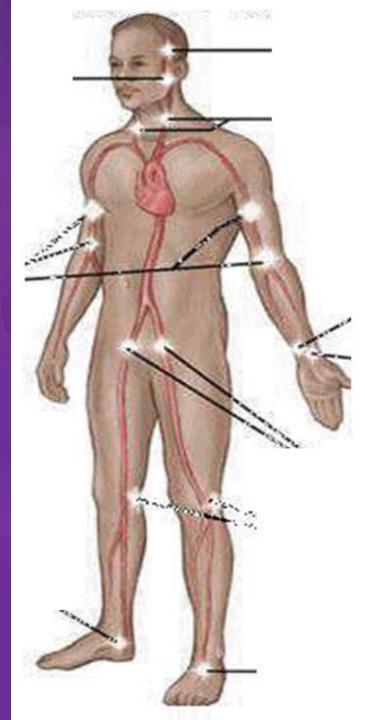
3. Pulse

 Def: P of the bld felt against the wall of the artery as the contracts & relaxes.



Pulse Sites

- Can be taken in 7 areas:
 - Radial*
 - Temporal
 - Dorsalis pedis
 - Carotid*
 - Brachial
 - Popiteal
 - Femoral



Pulse Characteristics

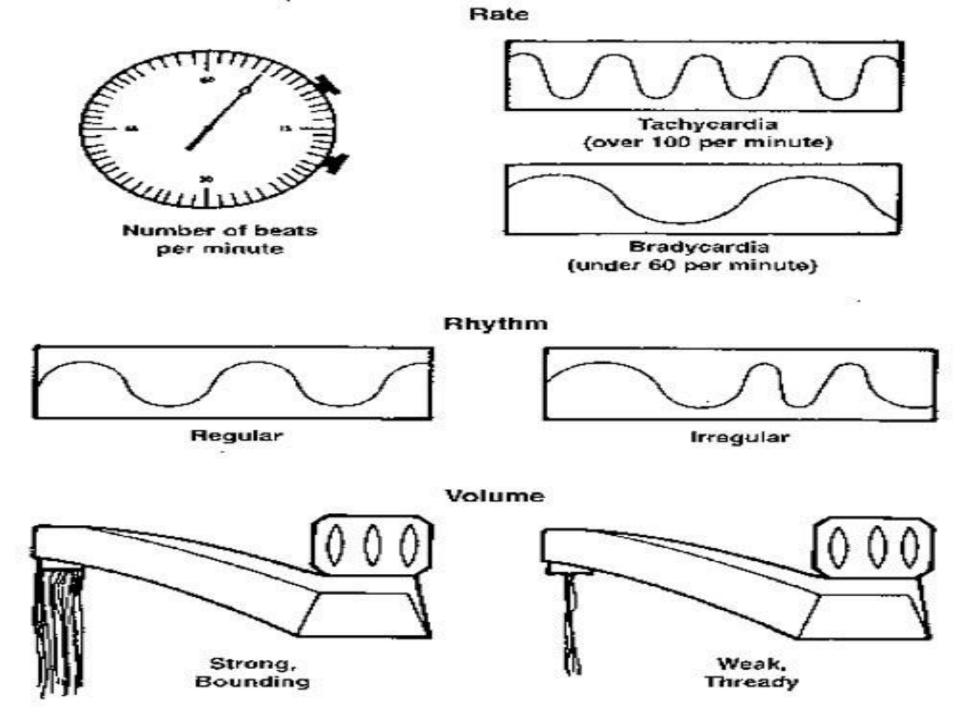
- Volume:
 - Bounding (strong)
 - Thready (weak)



- 60-90 bpm
- Children > 7 y/o = 70-90 bpm
- Children < 7 y/o = 80-110
- 1 y/o > = 100-160 bpm
- Bradycardia = < 60 bpm
- Tachycardia = > 100 bpm

Rhythm

- Regular or irregular
- Arrhythmia: irregular/abnormal caused by electrical conduction problem



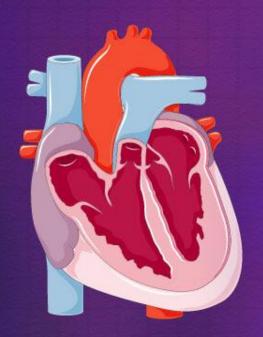
Factors Affecting Pulse

Increase Pulse:

- Exrs Stress
- Drugs Fever
- Excitement Shock

Decrease Pulse:

- Sleep
- Drugs
- Heart Disease
- Coma
- Physical Training



Apical Pulse, AP

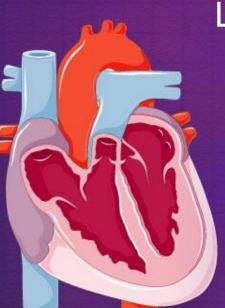
Def: heartbeat heard at the apex of the heart.

Reasons for taking apical pulse:

- 1. ordered by the doc
- 2. cardiac pts: irregular heart beats, hardening of the arteries or weak pulse
- 3. prior to certain meds
- all infants = pulse is rapid & difficult to count

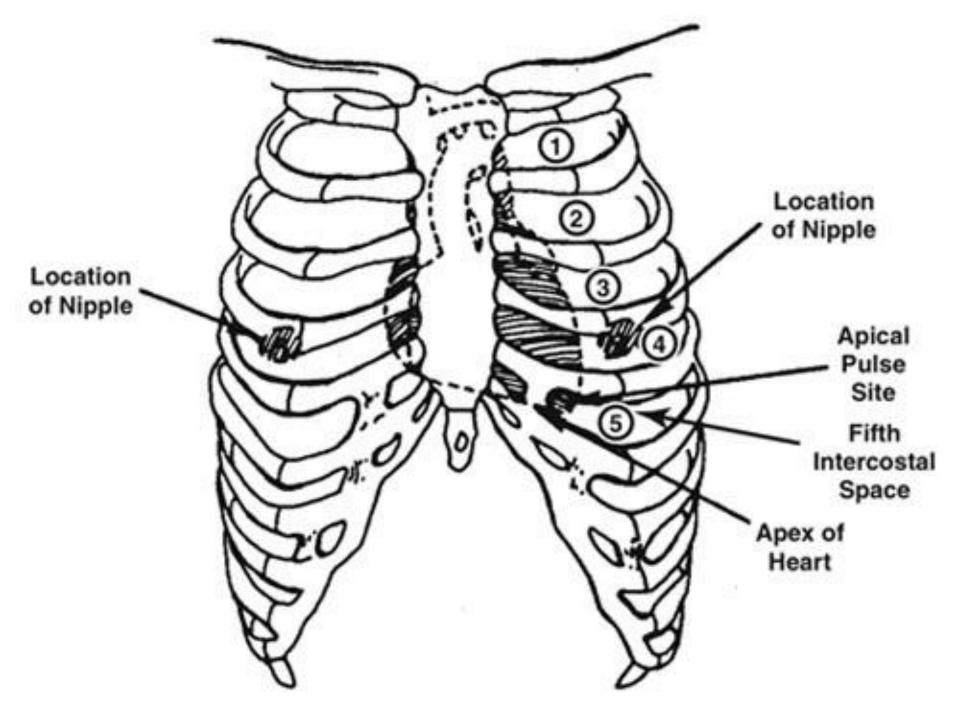
AP continued...

Heart sounds – caused by the closing of the heart valves as bld flows through the chambers of the heart. 1 beat = 1 lubb-dubb (2 distinct sounds)



Locating the AP:

- Place bell of stethoscope 2-3 inches to the L of the sternum below the L nipple
- 2. Listen for one full minute



Pulse Deficit

Occurs if...

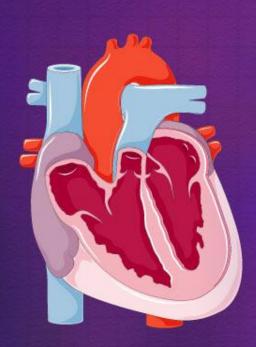
- 1. Heart is weak & does not pump enough blood to produce a pulse in some cases.
- 2. Tachycardia \rightarrow not enough time to fill up the atria for every beat.

Measurement of pulse deficit:

- 1. Measure apical & radial pulse at the same time (2 people)
- 2. Subtract radial rate from apical rate = pulse deficit

Measuring Pulse

- Count for 10s multiply by 6
- Count for 15s (4)
- Count for 30s (2)



Recording VS Results

- Accuracy is essential
 - 1. report abnormal findings STAT
 - 2. have questionable readings checked by another individual
- Physician will decide if info can be told to a pt.
 - Use Graphing TPR if available

Graphing TPR

A. Graphs present a visual diagram of variations in a pt's VS & are easier to follow than a list of #s

B. Graphic sheets are legal records1. must be neat, legible & accurate2. must be completed in ink

. Sheets may vary from area to area & hospital to hospital

Military Time

GRAPHIC CHART

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VS Lab #2

- Correctly record the following VS measurements on a TPR graph for two classmates:
 - P (record using an open dot)
 - BP (must be within 5 mmHg of my measurement)
 - Your adm date is 10/22/14

