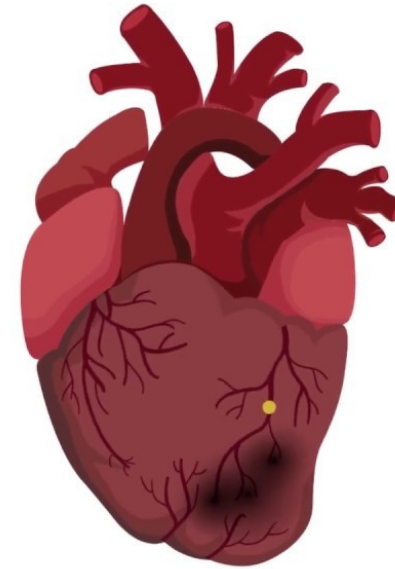


HEART AND PULSE

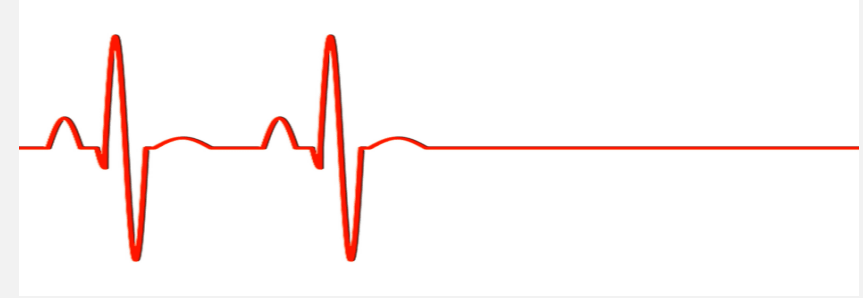
Parwana Muradi and Joanna Moustafa

CONTENT

1. General terms related to heart and pulse
2. Terms related to blood pressure
3. Terms denoting a normal pulse
4. Terms denoting abnormal/pathological pulses



GENERAL TERMS RELATED TO HEART AND PULSE



Pulsus, us, m

Latin, 4th declension, paradigm: ductus

English: pulse

Pulsatio, onis, f

Latin, 3rd declension, paradigm: dolor

English: pulsation

Pulsans, ntis

Latin 3rd declension

English: pulsating

GENERAL TERMS RELATED TO HEART AND PULSE

Greek roots:

Sphygmo-

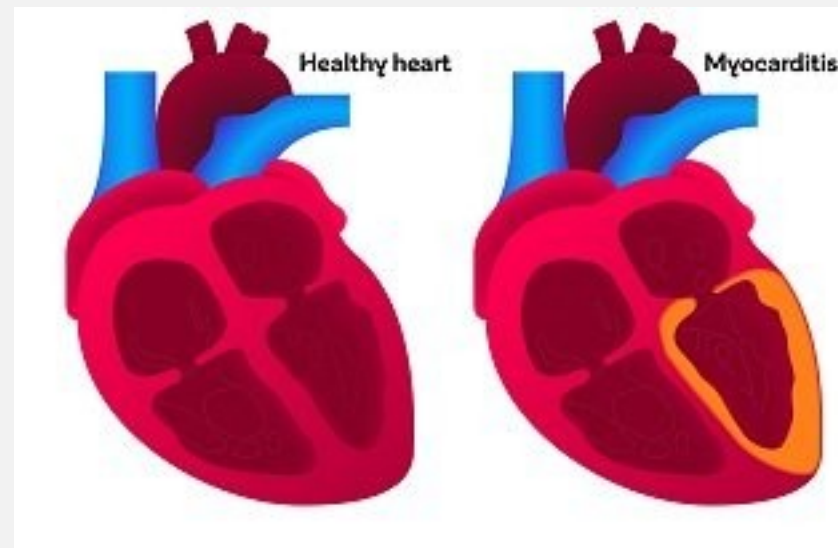
Meaning: pulse

Example: sphygmometria (an instrument for measuring the strength of the pulse beat)

Card-

Meaning: heart

Example: myocarditis (inflammation of heart muscle)

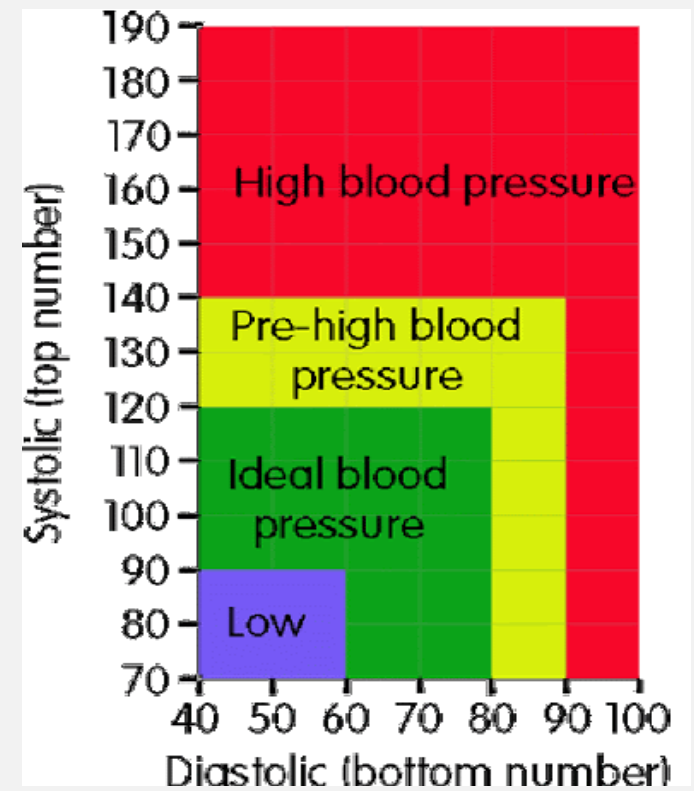


TERMS RELATED TO BLOOD PRESSURE

- **normotensio**, onis, f. / normotonia, ae, f
- Meaning: blood pressure within normal range

- **hypotensio**, onis, f. / hypotonia, ae, f.
- Meaning: low blood pressure
- Causes: pregnancy, heart problems, dehydration

- **hypertensio**, onis, f. / hypertonia, ae, f.
- Meaning: High blood pressure
- Causes: smoking, diet, stress



The greek roots used:

- -tensio
- Meaning: blood pressure

- -ton-
- Meaning: tone disorder

TERMS RELATED TO BLOOD PRESSURE

- **tachycardia**, ae, f.
- Meaning: heart rate faster than normal
- Causes: anemia, diabetes

- **bradycardia**, ae, f.
- Meaning: heart rate slower than normal
- Causes: heart tissue damage, heart defect

- **asystolia**, ae, f.
- Meaning: absence of contraction of the heart

Greek roots used:

- Tachy- means fast
- Brady- means slow



TERMS DENOTING NORMAL PULSES

- p. **aequalis**

Meaning: even, steady pulse concerning the amplitude

- p. **regularis**

Meaning: regular pulse concerning frequency

- p. **plenus**

Meaning: full pulse (occurring when the arteries are filled with blood properly)

TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- p. **inaequalis**

Meaning: uneven and unsteady pulse
(concerning the amplitude)

- p. **Irregularis**

Meaning: Irregular pulse (concerning frequency)

Associated with: arrhythmia, conductive heart dysfunction

- p. **intermittens**

Meaning: Discontinuation,
long pauses occurring between pulse
beats



TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- p. **intercurrens**

Meaning: Irregular pulse + heart extrasystole

- p. **celer** or **frequens**

Meaning: Accelerated pulse, fast pulse

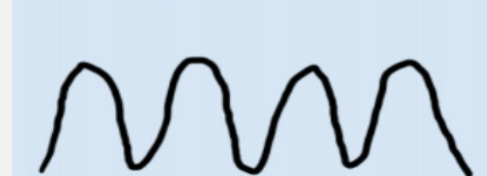
Association: Side effect of many medications

- p. **tardus** or **rarus**

Meaning: Slow pulse, rare pulse

Association: Intoxication, lack of potassium and hypothyroidism

Pulsus celer



Pulsus tardus



TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- **p. fortis** or **magnus**

Meaning: Abnormally strong pulse

Associated with: anemia, hypertonia



- **p. mollis** or **parvus**

Meaning: Shallow and weak pulse

Associated with: hypovolemic shock, cardiogenic shock



- **p. durus**

Meaning: Hard pulse

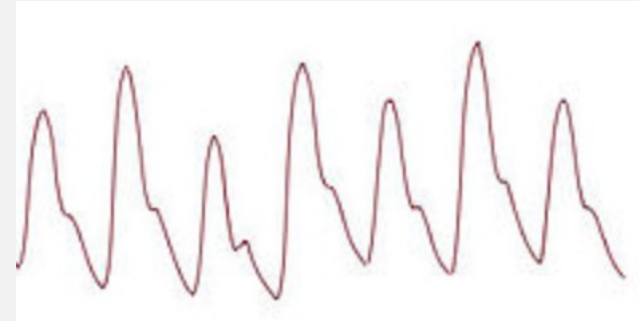
Associated with: high blood pressure

TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- **p. alternans**

Meaning: Alternating, strong pulse and weak pulse

Associated with: Left ventricular dysfunction



- **p. insensibilis**

Meaning: Non-palpable pulse

Associated with: asystole, ventricular fibrillation

- **p. filiformis**

Meaning: Thready and wiry pulse

Associated with: circulation centralisation,

TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- **p. vibrans**

Meaning: Quavery pulse, difficult to palpate

Associated with: stenosis of vessels, arteriosclerosis

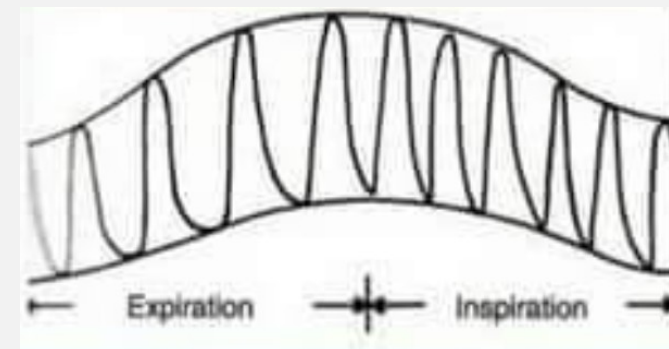
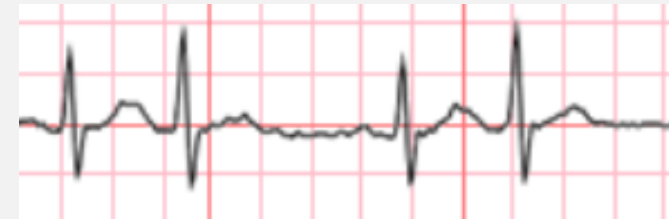
- **p. bigeminus**

Meaning: Normal pulse which is followed by an abnormal second pulse in short time, long pause

Associated with: electrolyte imbalance, myocardinfarction, cardiac conduction fail

- **p. paradoxus**

Meaning: A pulse that weakens abnormally during inspiration and is symptomatic of various abnormalities



TERMS DENOTING ABNORMAL/PATHOLOGICAL PULSES

- **p. undosus**

Meaning: Wavy pulse, uncertain - hits strong but retreats slowly (gentle)

Associated with: Low blood viscosity, excess of blood



THANK YOU FOR LISTENING