

PULMONARY O> or >0

(segregation of B.P.) SYSTEMIC O>MAD > O - oxygenated blood can be distributed

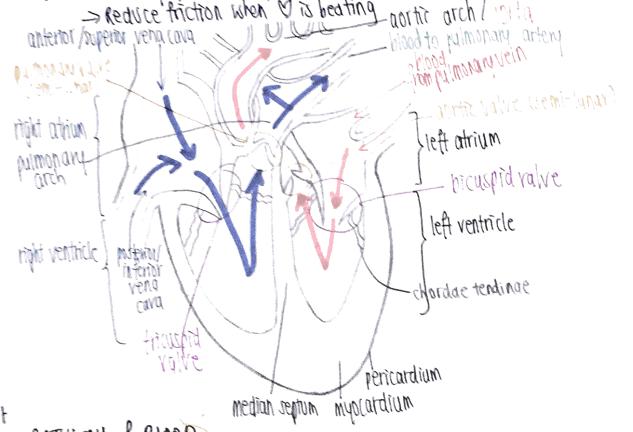
faster to tissue cells

- Blood entering lungs π of a lower pressure → Ensure blood flows slowly

-> More time to be well oxygenated

STRUCTURE of O'L pericardium

- surrounded by pericardium, which is made up of 2 layers of membrone with fluid in bother anterior source friction when & is beating another arch/1919



PATHWAY OF BLOOD

vena cava.

1 Proxygenated blood from various parts of body return to the right atnum of heart via anterior & pasterior 1

2) Right atrium contract to allow blood to flow into right ventricle. Tricuspid valve opens due to higher pressure in atrium than ventrice, allowing blood to flow through

3 Right ventricle contracts & high B.P. closes tricuspid valve to prevent backflow of blood into atrium Blood leaves right ventricle via pulmonary arch, to which divides into 2 pulmonary arteries for each lung. pulmonary valves in pulmonary Farch prevents back flow of blood into right ventricle.

4) - Sec PULMONARY point.

reserved cood from lungs is brought to left atrium via pulmonary veins Rheial tay | Moreline above artick hims shoot to enter left ventricle.

6) Left ventricle contracts & blood leaves through aurtic arch. From a orfic arch, blood is distributed to all parts except lungs. The aortic arch possesses a acritic valve to prevent backflow of blood into left ventricle-Blood entening anortic archlaorta is of a high pressure.

Decropant arteries originate from the anticarch to bring food & Oz to or muscles

CARDIAC CYCLES - contraction (Relaxation - Valves open close - 1/4 Pressure - Alond flow

1) When both atria & ventricles are relaxed, blood returns to both atria

Diffina contract atrial system, forcing blood into the relaxed ventricles. (Atno-ventricular valves open)

3 After a short pause, both ventricles contract ventricular aspetale) & atria relaxes (atrial diastre). The A in B.P. closes bicuspid & tricuspid valves to prevent. -and also opens the abortic & pulmonary valves to allow blood to flow to the autal pulmonary any since pressure in ventricles > aorto k p. artery (semi-lunar valves)

4 Ventricles relax (ventricular diastole) so there is a fall in pressure in ventricles, closing semi-lunar values in both arches toprevent... DUB!

5 Blood returns to relaxed atma & the cycle repeats.

IN 1 Cheat...

- Ventricular systole + diastole = 1 heartbeat (0 &s, max is 1=) } It vancs from person to person though short payse boto the next heart beat

CONTROL of B.P. by (measured w/ sphyg momanometer in mmHg)

Highest B.P. in arteries: Ventricular systole, decreases during ventricular diastole Highest near aortic arch, lower the further arteries are from heart

- Low B.P. in veins, Ommitty in vena cara first before opening to right atrium

NOTIVA: 120/80 mnHg, High: 140/90 mm H q

(H) ventricle aorta 6 1 MUNTO 1 time/s Rheia Tay | More item notes at tick pinale

same pressure > values still close! Diantraction of left athum forces blood into left ventricle

2) Ventricles contract, pressure higher than atrium so bicuspia values close .

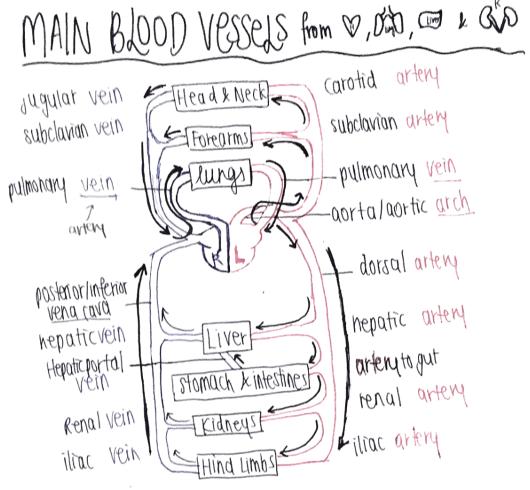
3 Pressure in ventricles > aorta, semi-lunar/aortic

valve opens @ Ventrides telax so a ortic valve closes.

6) Pressure cont. to decrease

Ricuspid valves upen as pressure in ventified carrism

ressure in ventrides as blood enter ventricles from atrium. Cycle repeats!



blood supply to heart muscles greatly reduced Athensoloniii > Heart attack Angina (ladic acid). (Fathy plague)

Due to fatty deposits of tholestern & sat-fats on innersurface of commany atteness

⇒ Atherosclenosis

H

0

W

narrowing lumen of artenes & ? B.P.

- Develops trough inner surface which I risk of blood dot
 - > Thrombosis
- Occlusion of commanyartenes cut off supply of O2k blood to hear't musdet.
- Lactic acid due to anderobic respiration ⇒ Angina

Heart muscles damaged, leading to beart attack -Stg 2 Thrombus

-Stg | Atherona

EW>WZTH>W - Proper stress management - Wholy smoking

Grenetics

(Micotine -- CO)

Reg. physical exercise otherations & mountains elastroy of arterial walls

MGOZNGZ

Rheia Tay | More free notes at tick.ninja

Proper diet (polyunsat fats) V'cholesterol IVI

y zat-fotz Ly in cholesterol

Emotional stress