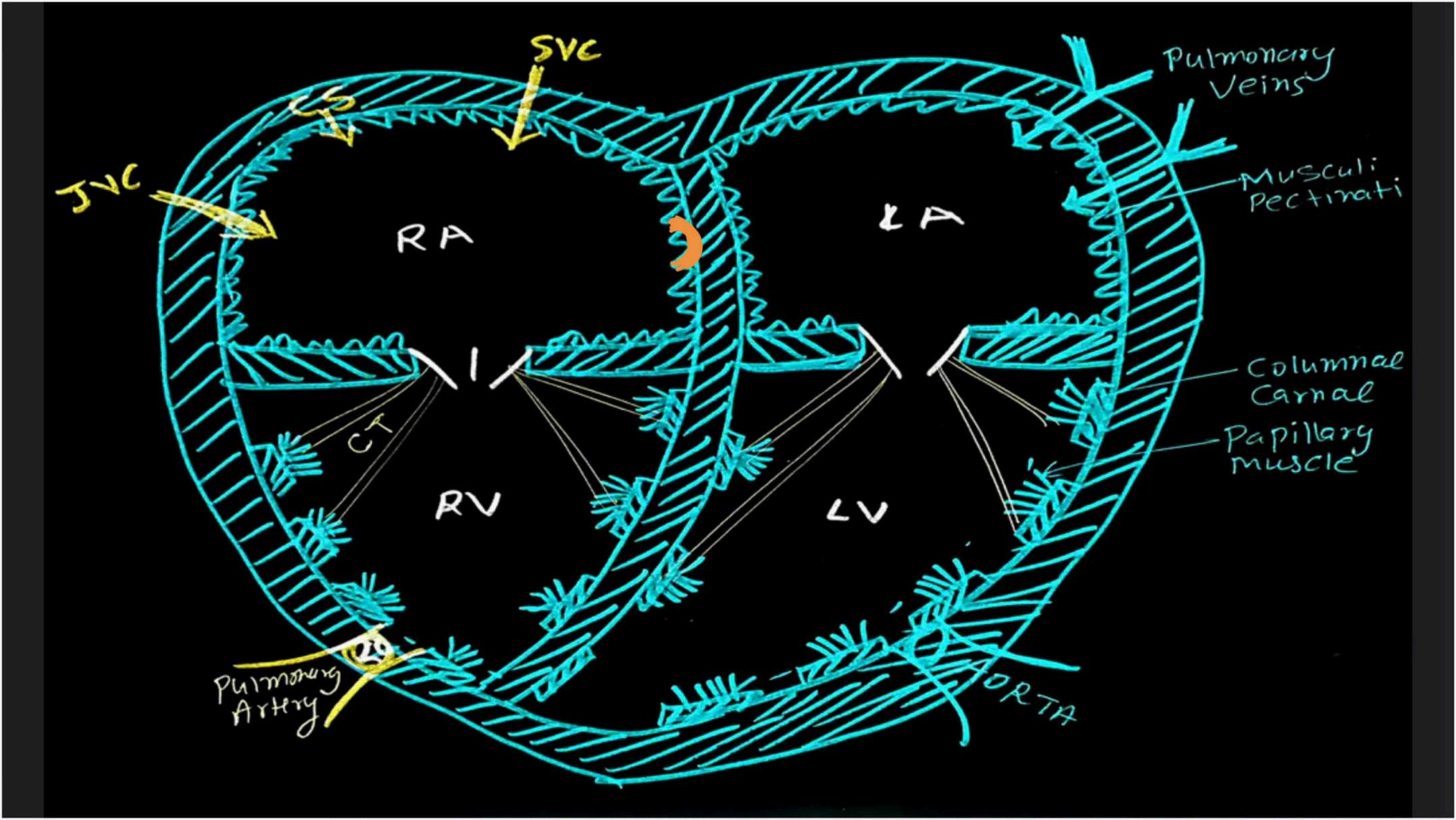


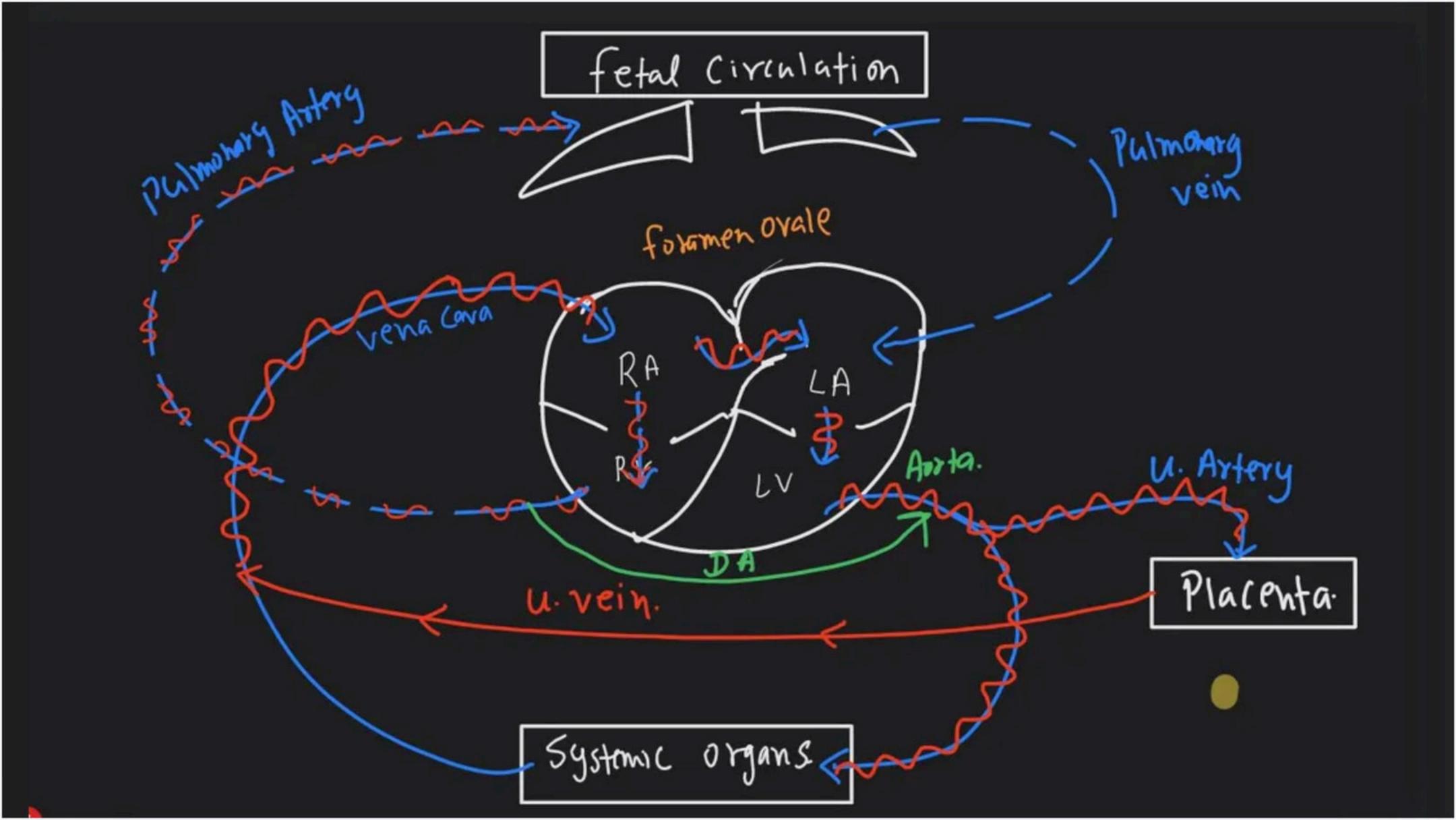
Course on Human Physiology: Body Fluids & Circulation

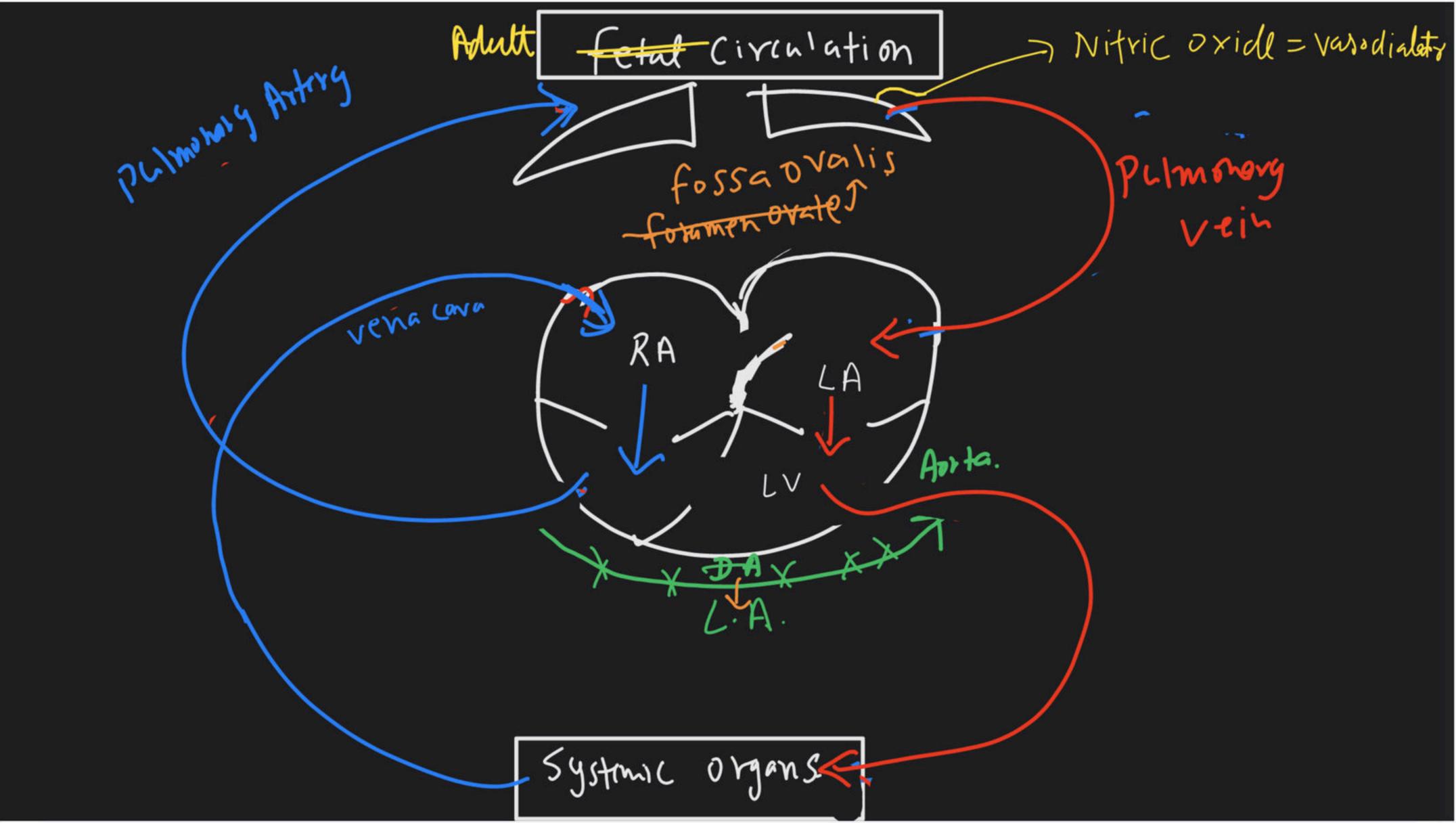
fetal Civulation

Hrind

foetwo Maanta Umbili (al Cord in umpilied Gord 15 100-1. fetal







Congenital Heart Disease

- A) & Patent foramen ovale (most common)
- B) A Patent Ductus Arteriosus (Least fatul)
 - () & Ventricular septal Defect (Most fatal)

Slow growth/dvpt, Exhaust
carly.

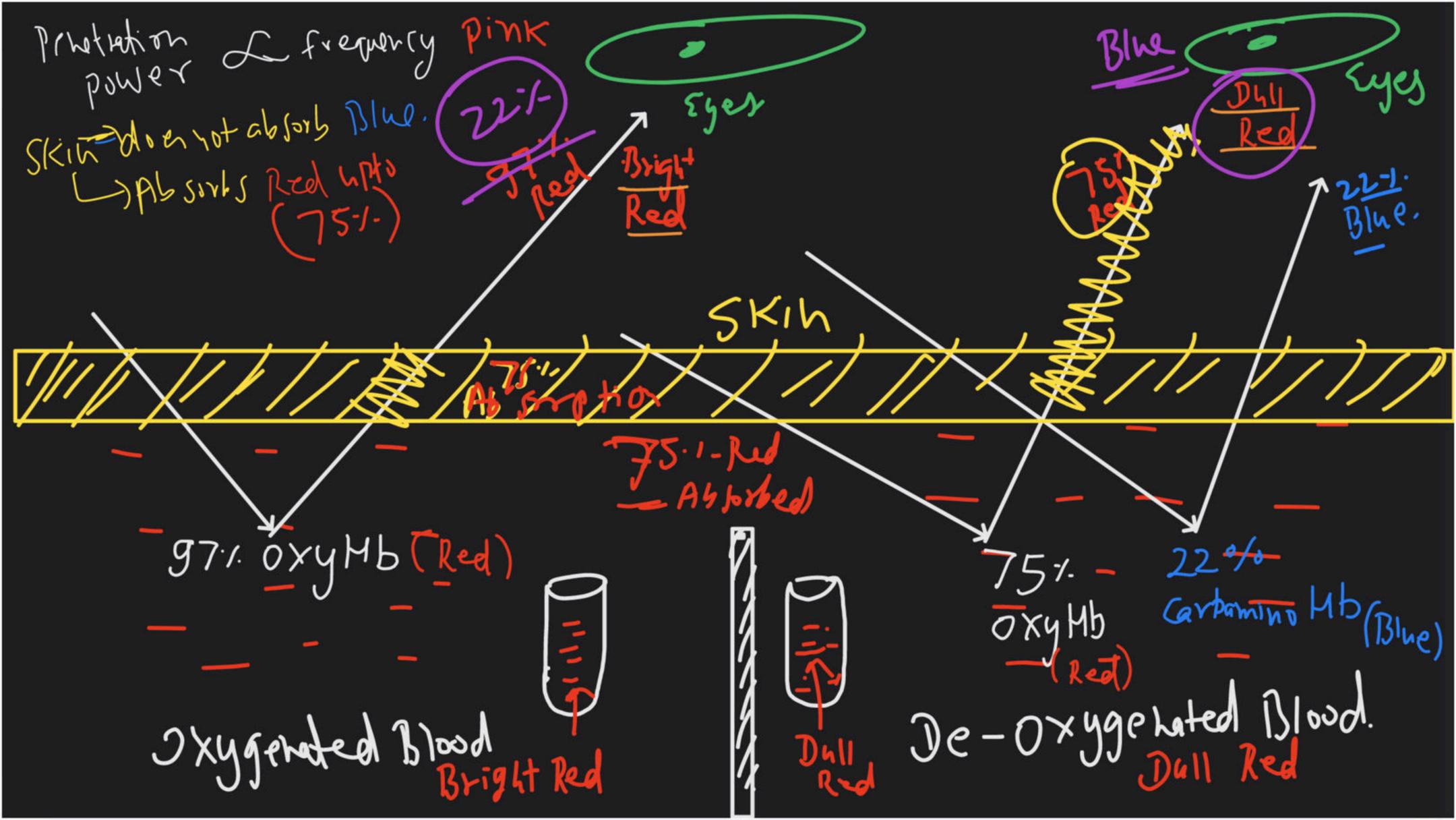
Blue Babies

Blue Babies

Blue Babies

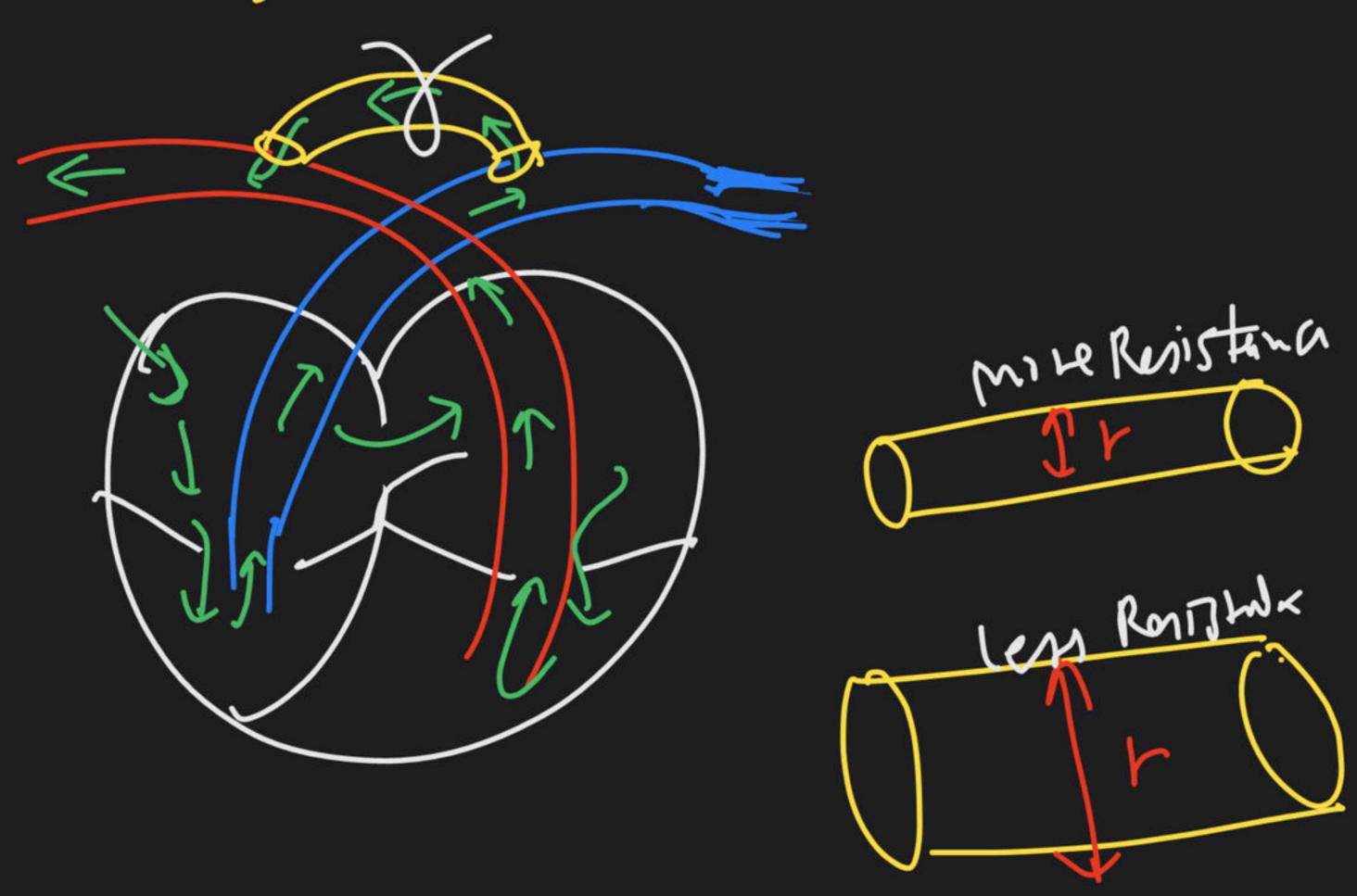
Ro-Shypery

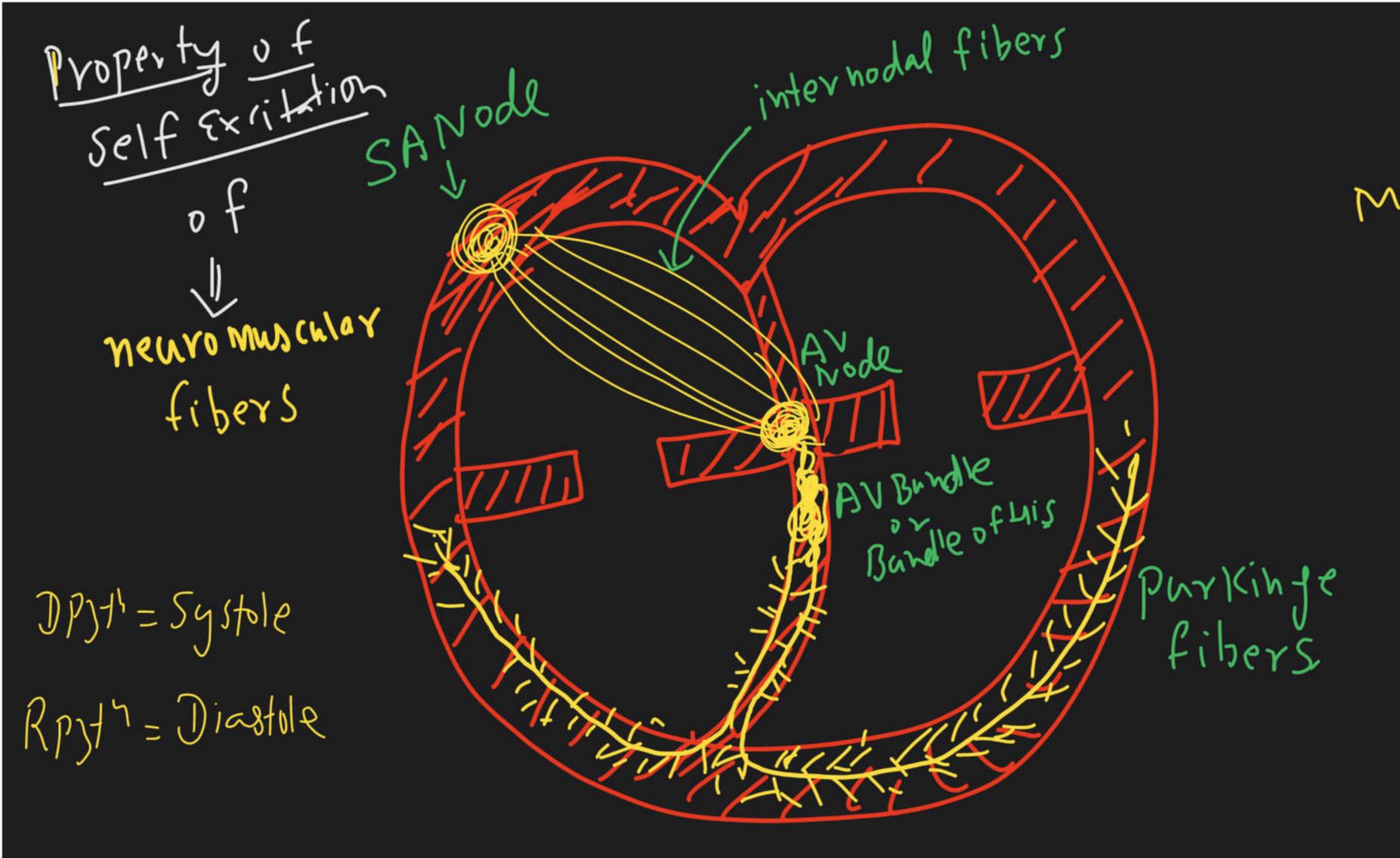
disabilition of Skin = (yano Sis



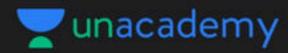
Red To 1 1602 Why does desky gelated blood appear blue below the skib

Ductus Arteriosus.





Muche filess having having have like properties



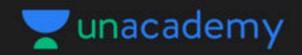
2 · Asked by Sabbi

Please help me with this doubt

SIR, aapne bataya tha ki haemoptysis me cough ke sath blood aata hai. To tuberculosis me v to

Cough ke sath blood aata hai to kya haemoptysis ke koi aur symptoms hai jis se

Pata chale ki ye haemoptysis hai Tb nahi.



1 · Asked by Mayur

Please help me with this doubt

A drop of each of the following, is placed separately on four slides. Which of them will not coagulate?

- (a) Blood seruri
- (b) Blood from pulmonary artery
- (c) Whole blood from pulmonary vein
- (d) Blood plasma

unacademy

2 • Asked by Mayur

Please help me with this doubt



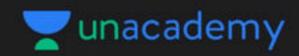
Detection of blood groups is done by agglutinisation test using antiserum. According to this method, if the blood shows coagulation with

- (a) antiserum B, blood group is AB
- (b) antiserum B, blood group is B
- (c) antiserum A and B, blood group is O
- (d) antiserum A, blood group is O.

antiserum = Serum Comining Authories

ALLtisorum B contain anti-A

ALLtisorum B contain anti B



▲ 4 • Asked by Ayush

Please help me with this doubt

ADMINS OF 2023

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-) -フ~ご Morradal Berdip phr/(hp node nodo Fiber Isheo-His Speed 5 reed

The Conducting system of Heart

It is made of myocardium that is specialised for initiation and conduction of the cardiac impulse. Its fibres are finer than other myocardial fibres, these are completely cross striated and posses special nerve like properties (= self excitatory neuromuscular pathway).

The conducting system has the following parts.

S.A. Node (Pacemaker)

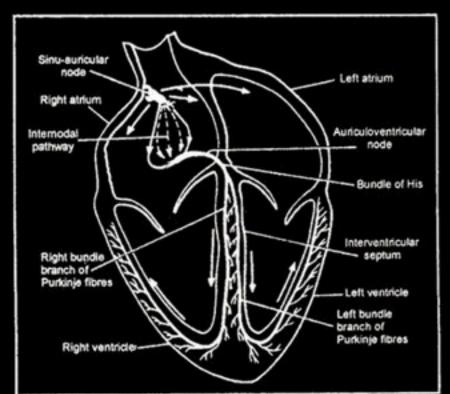
↓
Inter nodal pathway

↓
A.V. Node

↓
Bundle of His

↓
Purkinje fibres (Rt & Lt)

Rate of conduction is fastest in bundle of His and slowest in AV node



- (1) Sinuatrial node (SA node). It is known as the "pacemaker" of the heart. Located in the wall of Rt. Atrium it generates impulses at the rate of about 72 per minute. and initiates heart beat.
- (2) Internodal pathway. it is the network of neuromuscular pathway that connects the SA node to the AV node.
- (3) Atrioventricular node (AV Node). It is smaller than SA node and is situated in the atria near AV septum. It capable of generating impulse at rate of about 40/mt.
- (4) Bundle of His (AV Bundle). it is the connection between the atrial and ventricular musculature. It begins at the AV node and then divides into left and right branches as it descends down towards ventricles.
 - The left branches of the AV bundle descends on their respective side of the interventricular septum and is distributed to the ventricles after dividing into Purkinje fibres.
- (5) The Purkinje fibres. These are distributed through the endocardium of the ventricles and propagate the impulse in the entire ventricle musculature.

Why SA node is called the pacemaker of the heart?

Although impulse is produced by the entire neuromuscular pathway, the frequency of impulse generation is maximum is case of SA node in comparison to other parts of pathway. Hence it guides the rhythm of heart beat and is called the pacemaker of the heart. The AV node on the other hand just conducts the impulse forwards.