



11TH BOARD / NEET

**BODY FLUIDS
& CIRCULATION**

L - 6

**CIRCULATORY
PATHWAYS**

WITH MENTI QUIZ

- **LIVE** ~Dr. Vani Sood | NEET Expert





BIOTONIC SCHEDULE OF THE WEEK



	8:00 AM NEET 2020	10:00 AM NEET 2020	5:00 PM 11 - CLASS	9:00 PM 12 - CLASS
MONDAY	MISSION MBBS NTA MOCK TEST ABHYAAS	NCERT RANK BOOSTER HUMAN HEALTH AND DISEASE	CRACK NEET WITH V NEET KREBS CYCLE	12TH VBIOTONIANS SERIES SURPRISE REVISION TEST
TUESDAY	MISSION MBBS NEET 2020 MUST KNOW NEET AABBREVIATIONS	NCERT RANK BOOSTER EVOLUTION	11TH VBIOTONIANS BODY FLUIDS AND CIRCULATION L - 6	12TH VBIOTONIANS SERIES HUMAN GENOME PROJECT
WEDNESDAY	MISSION MBBS SURPRISE TEST FOR NEET 2020	NCERT RANK BOOSTER MOLECULAR BASIS OF INHERITANCE	11TH VBIOTONIANS BODY FLUIDS AND CIRCULATION L - 7	12TH VBIOTONIANS DNA FINGERPRINTING
THURSDAY	MISSION MBBS NTA MOCK TEST ABHYAAS	BIOTONIC SPECIAL	QUESTION BANK PLANT KINGDOM L - 2	CRACK NEET WITH V NEET HUMAN EVOLUTION
FRIDAY	MISSION MBBS SURPRISE TEST FOR NEET 2020	MEGA TEST NEET BOTANY	11TH VBIOTONIANS BODY FLUIDS AND CIRCULATION L - 8	BIOTONIC SPECIAL
SATURDAY		INDEPENDANCE DAY SPECIAL		
SUNDAY		FULL MOCK TEST 50 MOST EXPECTED QUESTIONS 11 & 12 FULL SYLLABUS	BIOTONIC SPECIAL	

BIOTONIC SCHEDULE OF THE DAY

MISSION MBBS NEET 2020
SURPRISE TEST
FOR NEET 2020
WITH **MENTI QUIZ** PART - 3
-Dr. Vani Sood | NEET Expert
LIVE SEE YOU @ 8:00 AM

LIVE NEET 2020
NCERT RANK BOOSTER
**MOLECULAR BASIS
OF INHERITANCE**
WITH **MENTI QUIZ**
See You
@ 10:00AM
-Dr. Vani Sood | NEET Expert

11TH BOARD / NEET
BODY FLUIDS
& CIRCULATION L - 6
**CIRCULATORY
PATHWAYS**
WITH **MENTI QUIZ**
SEE YOU @ 5:00PM
LIVE -Dr. Vani Sood | NEET Expert

LIVE
12TH BOARD / NEET
**DNA
FINGERPRINTING**
WITH **MENTI QUIZ**
See You @ 9:00 PM
-Dr. Vani Sood | NEET Expert

Biotonic Special

30 Days
STRATEGY
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SEE YOU TOMORROW
@ 10:00AM

LIVE ~Dr. Vani Sood | NEET Expert

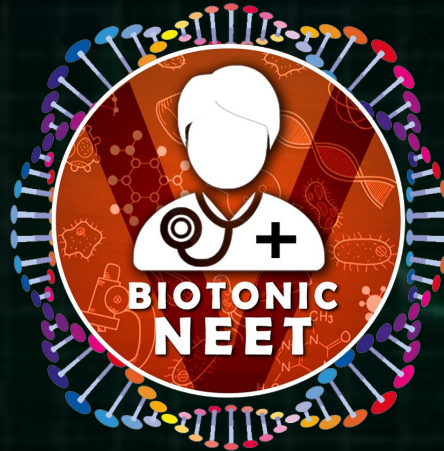




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BIOTONIC WALL OF FAME



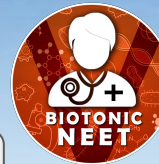
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Principles of Inheritance and Variation L-5 | Chromosomal Theory of Inheritance | Vedantu

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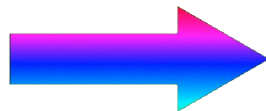
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Click on the name of the chapter to play the video

VIDEO Link	PDF Link
CLASS 11	
THE LIVING WORLD	THE LIVING WORLD PDF NOTES
BIOLOGICAL CLASSIFICATION	BIOLOGICAL CLASSIFICATION PDF NOTES
PLANT KINGDOM	PLANT KINGDOM PDF NOTES
ANIMAL KINGDOM	ANIMAL KINGDOM PDF NOTES

CLASS 12	
REPRODUCTION IN ORGANISMS	REPRODUCTION IN ORGANISMS PDF NOTES
SEXUAL REPRODUCTION IN FLOWERING PLANTS	SEXUAL REPRODUCTION IN FLOWERING PLANTS PDF NOTES
HUMAN REPRODUCTION	HUMAN REPRODUCTION PDF NOTES

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Q-7. The genotypes of a husband and wife are $I^H I^h$ and $I^H I^H$. Among the blood types of their children, how many different genotypes and phenotypes are possible? [NEET 2017]

A Three genotype and three phenotypes
B Three genotype and four phenotypes
C Four genotypes and three phenotypes
D Four genotypes and four phenotypes

A B
C D

Health
• Diseases of these parts

Pharynx
• Esophagus

Stomach
• Diseases of these parts
• Stomach cancer
• Stomach ulcers
• Gastritis
• Stomach pain
• Stomach ache

Small intestine
• Diseases of these parts
• Crohn's disease
• Celiac disease
• Irritable bowel syndrome
• Small intestine cancer

Large intestine
• Diseases of these parts
• Diverticulitis
• Hemorrhoids
• Irritable bowel syndrome
• Large intestine cancer

Rectum
• Diseases of these parts
• Hemorrhoids
• Rectal cancer

Bladder
• Diseases of these parts
• Bladder cancer
• Urinary tract infection

Uterus
• Diseases of these parts
• Uterine cancer
• Endometriosis
• Uterine fibroids

Ovary
• Diseases of these parts
• Ovarian cancer
• Polycystic ovary syndrome
• Ovarian cysts

Testis
• Diseases of these parts
• Testicular cancer
• Testicular torsion

Penis
• Diseases of these parts
• Penile cancer
• Erectile dysfunction

Prostate
• Diseases of these parts
• Prostate cancer
• Prostatitis

Urethra
• Diseases of these parts
• Urethritis

Uterine tube
• Diseases of these parts
• Ectopic pregnancy
• Fallopian tube cancer

Vagina
• Diseases of these parts
• Vaginal cancer
• Vaginitis

Vulva
• Diseases of these parts
• Vulvar cancer
• Vulvodynia

Perineum
• Diseases of these parts
• Perineal cancer

Anal canal
• Diseases of these parts
• Anal cancer
• Hemorrhoids

Rectoanal junction
• Diseases of these parts
• Rectoanal cancer

Rectum
• Diseases of these parts
• Rectal cancer

Sigmoid colon
• Diseases of these parts
• Sigmoid cancer

Cecum
• Diseases of these parts
• Cecal cancer

Caecum
• Diseases of these parts
• Caecal cancer

Appendix
• Diseases of these parts
• Appendicitis

Blind loop
• Diseases of these parts
• Blind loop syndrome

Meckel's diverticulum
• Diseases of these parts
• Meckel's diverticulum

Diverticulum
• Diseases of these parts
• Diverticulitis

Polyp
• Diseases of these parts
• Polypoid degeneration

Cancer
• Diseases of these parts
• Cancer of the digestive system

Diagnosis
• Diseases of these parts
• Endoscopy
• Colonoscopy
• Sigmoidoscopy
• Barium enema
• Ulceroscopy
• Capsule endoscopy
• Double balloon enteroscopy
• Balloon enteroscopy
• Deep enteroscopy
• Single balloon enteroscopy
• Video capsule endoscopy
• Pillbox
• Pill camera
• Pill endoscopy
• Pill biopsy
• Pill therapy
• Pill delivery
• Pill monitoring
• Pill evaluation
• Pill optimization
• Pill personalization
• Pill prediction
• Pill prevention
• Pill prognosis
• Pill response
• Pill safety
• Pill satisfaction
• Pill adherence
• Pill compliance
• Pill persistence
• Pill retention
• Pill stability
• Pill solubility
• Pill absorption
• Pill distribution
• Pill excretion
• Pill elimination
• Pill metabolism
• Pill toxicity
• Pill side effects
• Pill interactions
• Pill contraindications
• Pill warnings
• Pill precautions
• Pill cautions
• Pill restrictions
• Pill limitations
• Pill contraindications
• Pill warnings
• Pill precautions
• Pill cautions
• Pill restrictions
• Pill limitations

Uterine cancer
Yes

SD Sonam Katiyar
yess mam

RA Ranjna Sharma
Yes

JW Jwarjish
Ye question doubt
tha mma.am

SD Sonam Katiyar
yess mam

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**CIRCULATORY
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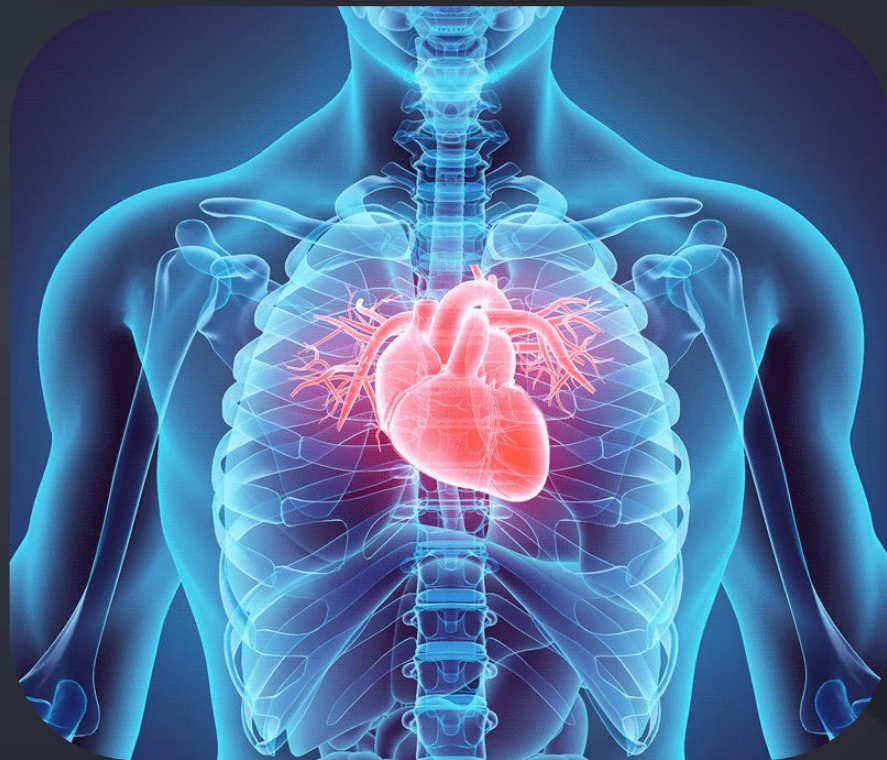
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LEARNING OUTCOME

Body Fluids and Circulation

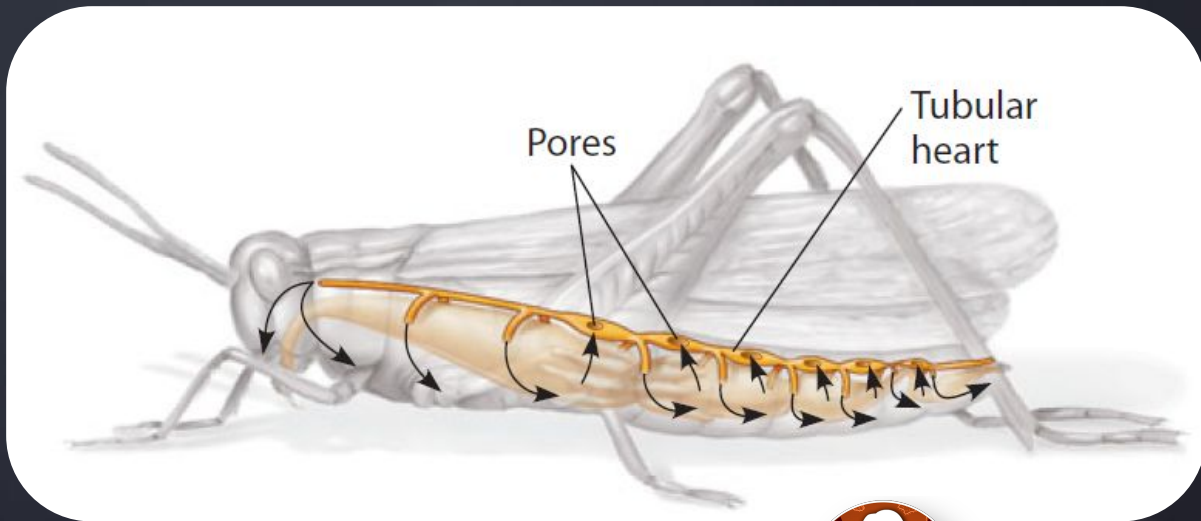
- ✓ Open circulatory system
- ✓ Closed circulatory system
- ✓ Single circulation
- ✓ Incomplete double circulation
- ✓ Double circulation
- ✓ Case Study: Tetralogy of Fallot



BODY FLUID AND CIRCULATION

Open Circulatory System

- ✓ Blood is not enclosed in the blood vessels, but is pumped into a cavity called a hemocoel where it surrounds the organs and then returns to the heart(s) through ostia (openings).
- ✓ Blood is called hemolymph
- ✓ The blood and interstitial fluid cannot be distinguished.
- ✓ Found in invertebrates.
- ✓ Example: Insects, crustaceans, and most mollusks)



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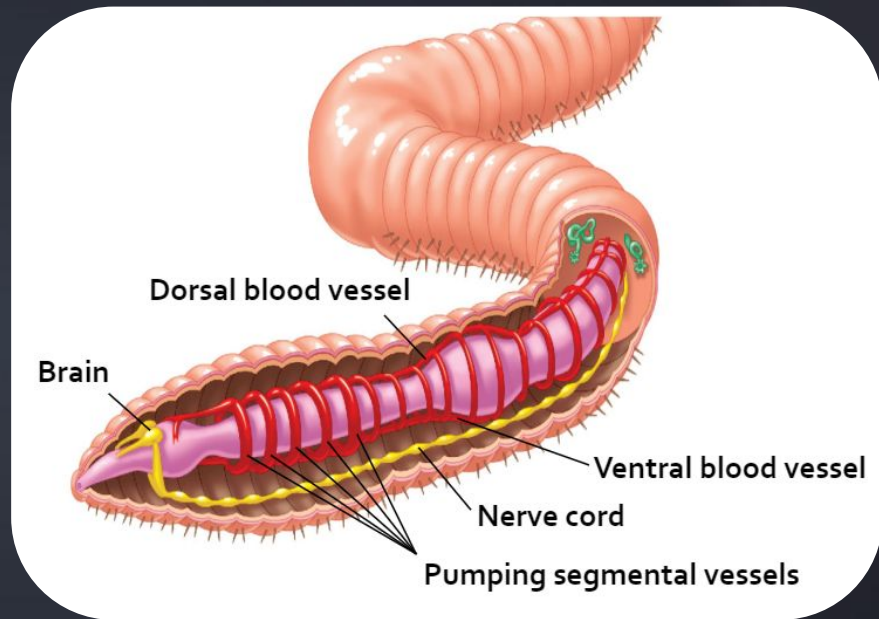




BODY FLUID AND CIRCULATION

Closed Circulatory System

- ✓ Blood is contained inside blood vessels, circulating unidirectionally from the heart around the systemic circulatory route, then returning to the heart again.
- ✓ Contain blood vessels arteries, veins and capillaries
- ✓ Blood and interstitial fluid are distinct.
- ✓ Found in vertebrates and earthworm

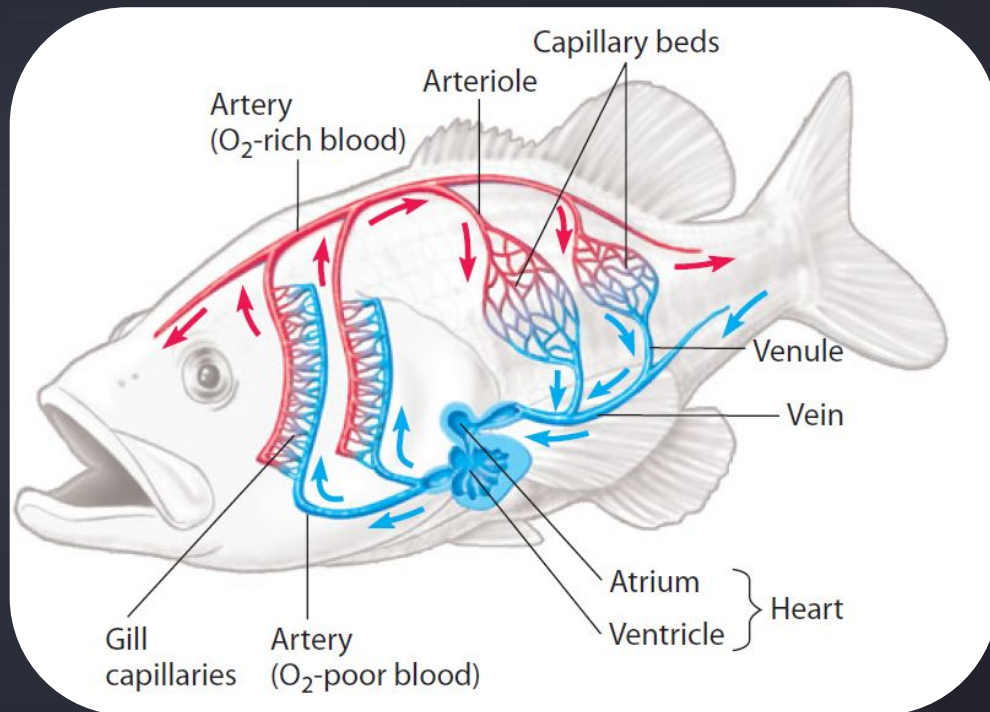


Annelida - Closed Circulatory System

BODY FLUID AND CIRCULATION

Single Circulation

- ✓ Found in Fishes
- ✓ They have a single circuit
- ✓ Two-chambered heart with a single atrium and a single ventricle
- ✓ Atrium collects blood that has returned from the body



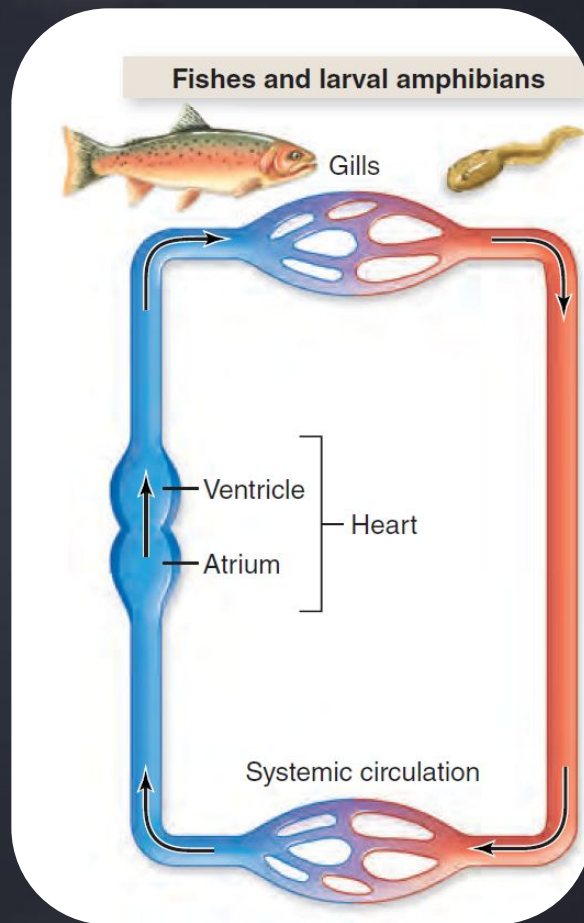


BODY FLUID AND CIRCULATION

Single Circulation

- ✓ Ventricle pumps the blood to gills for gas exchange called gill circulation (blood is reoxygenated)

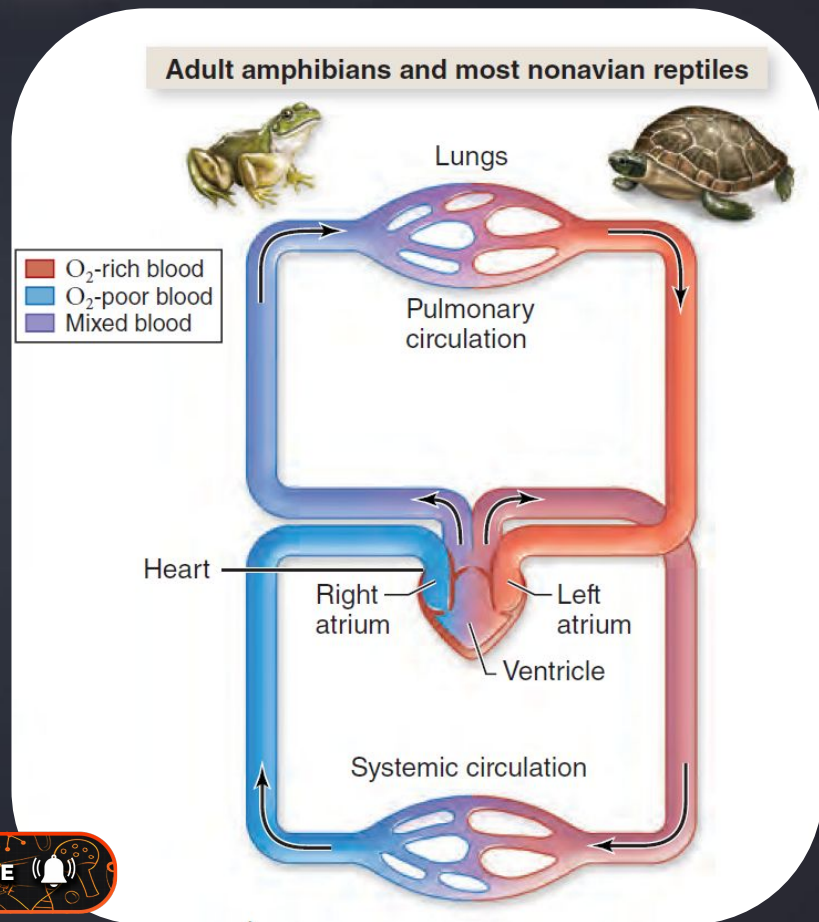
Heart → Gills → Body → Heart



BODY FLUID AND CIRCULATION

Incomplete Double Circulation

- ✓ Found in Amphibians and reptiles (except crocodiles)
- ✓ They have a two circuit
- ✓ Left atrium receives oxygenated blood from the gills/lungs/skin
- ✓ Right atrium gets the deoxygenated blood from other body parts.
- ✓ They get mixed up in the single ventricle which pumps out mixed blood (incomplete double circulation).



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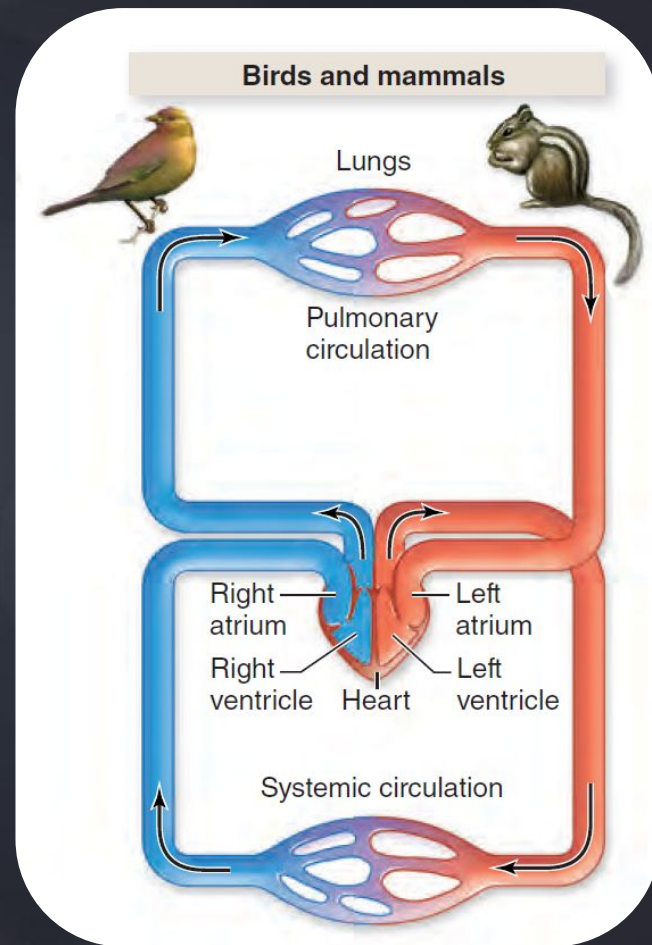




BODY FLUID AND CIRCULATION

Complete Double Circulation

- ✓ Found in mammals and birds
- ✓ Two separate circulatory pathways are present
- ✓ Four-chambered hearts with two atria and two ventricles,
- ✓ Complete separation of O_2 -rich from O_2 -depleted blood



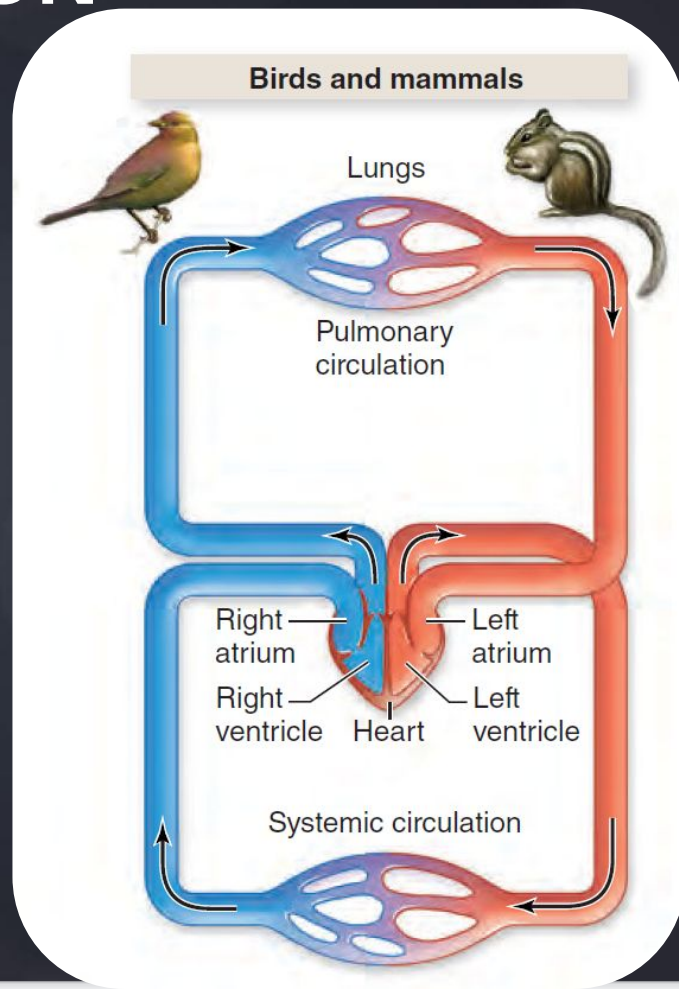
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BODY FLUID AND CIRCULATION

Complete Double Circulation

- ✓ Left and right atria: Receive and pumps Oxygenated and deoxygenated blood respectively to ventricles
- ✓ Ventricles pump it out without any mixing of oxygenated and deoxygenated blood



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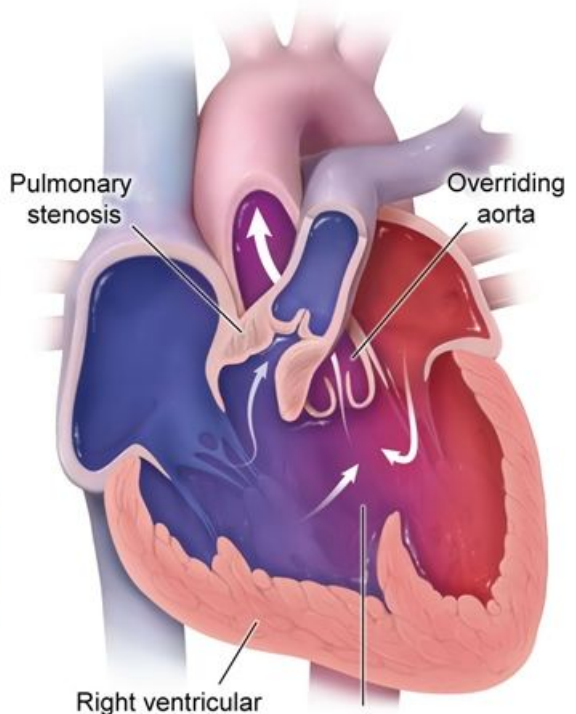
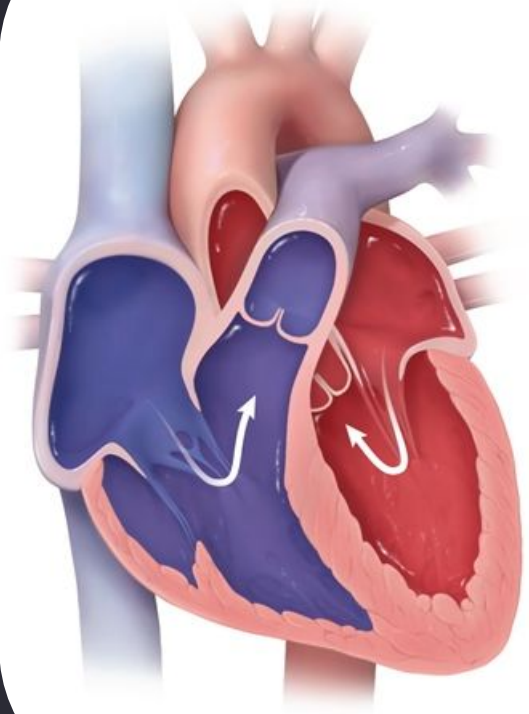




CASE STUDY: TETRALOGY OF FALLOT

Normal heart

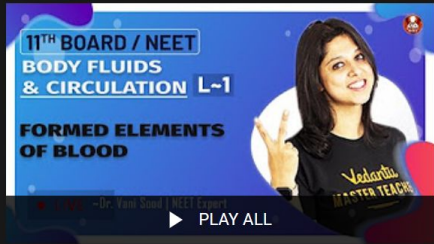
Tetralogy of Fallot



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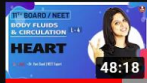
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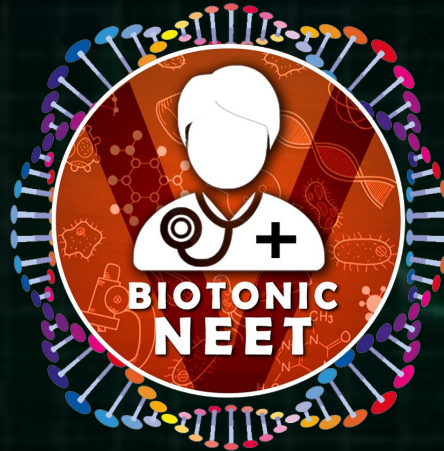




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