

Department of Physiology

Lesson plan

Name of faculty: Dr Shivayogappa S Teli

Date: 20.04.2022

Duration: 1 Hr

Time: 04.30 PM – 05.30 PM

Batch: 1 year MBBS

T-L method: Lecture

Learning Domain: Cognitive

System: Blood

Competency (Number: PY 2.5)

Module: I

- Describe the formation of platelets, functions, and variations

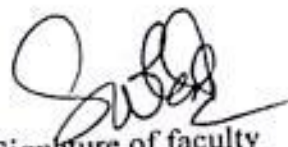
SLOs

- Describe the formation and structure of platelets
- Discuss the functions of platelets
- State normal platelet count and its variation
- List the causes of thrombocytopenia and thrombocytosis
- Explain the clinical significance of thrombocytopenia and thrombocytosis


Time (min)	Content	T-L method/ Media	Assessment plan
10	Set induction Objectives	Linker (Case scenario)	
10	Formation and structure of platelets	Discussion/PPT	SAQ/Viva
10	Functions of platelets	Explanation/PPT	SAQ/Viva
5	Interactive discussion	Questioning/TPS	
5	Normal platelet count and its variation	Explanation/PPT	Viva/MCQs
10	Causes of thrombocytopenia and thrombocytosis and clinical significance	Explanation/PPT/TPS	Viva/MCQs / SAQ
5	Point/Doubt of the day	Writing and sharing	
5	Summary and clarification	Narration	

PPT*=Power Point Presentation, TPS*=Think Pair and Share

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Signature of faculty

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 PONDICHERY - 605 107

Date: 22.04.22

Time: 4:30-5:30pm

Module: I

Name of faculty: Dr. Deepika V

T-L method: Lecture

Batch: I Year

Learning Domain: Knowledge

Competency no-(PY1.5) Describe the physiological basis of hemostasis and, anticoagulants. Describe bleeding & clotting disorders (Hemophilia, purpura)

Objectives: Describe the physiological basis of anticoagulants. Describe the bleeding and clotting disorders


Topic for the session: Anticoagulants, Haemostatic disorders, tests

Time (Minutes)	Design	T-L method/ Media	Assessment Plan	Moderator
5	Set Induction	Interaction	-	Faculty
5	Define anticoagulants and its importance	PPT/ Explanation	LAQ/ SAQ/ MCQ	
5	Classify anticoagulants			
10	Natural anticoagulants	PPT/ Explanation		
10	Synthetic anticoagulants			
10	Hemophilia, Purpura			
5	Tests for bleeding disorders			
5	Tests for clotting disorders	Video/ Explanation		
5	Summary			

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Department of Physiology

Session plan

Name of faculty: Dr.K.Soundariya

Batch: 1 Year

Type of session: Lecture

Duration of session: 2 hrs

Date & Time: 27.04.2022, 2.30 – 4.30 PM

Module 1: General Physiology, Blood & Nerve Muscle Physiology

Competency: PY 1.8 Describe and discuss the molecular basis of resting membrane potential and action potential in excitable tissue

Objectives:A. Describe the molecular basis of genesis of resting membranepotential

B. Describe the genesis of actionpotential

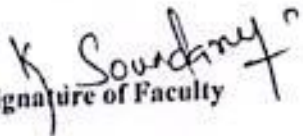
C. Draw a normal nerve Actionpotential.

D. Discuss the ionic basis of Action Potential.

E. State the differences between local and action potential.


Topic for the session: Bioelectric Potentials

Time	Design	T-L method/ Media	Assessment Plan
10 min	Set Induction	GIF animation in PPT slide – Comparative physiology	MCQ, SAQ
5 min	Introduction to Bioelectric potentials	Lecture, PPT	
15min	Gibbs – DonnanEquilibrium	Interactive discussion	
15 min	Genesis of resting membrane potential	Lecture, PPT	
5 min	Break		
5 min	Normal values of RMP in excitable tissues		
20 min	Definition & Genesis of Action potential	Interactive session	
25 min	Discuss the ionic basis of action potential	Lecture, PPT	
10 min	Differences between Local potential & Action potential		
5 min	Summary	By students	


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Department of Physiology

Session plan

Name of faculty: Dr.Poonguzhalai. S

Batch: I Year

Date: 28.04.2022

Type of session: Lecture

Time: 8:30-10:30am

Competency no-(PY3.2&3.3) Discuss the types & Properties of Nerve fibres & Nerve Injuries

Objectives: Understand the properties & Types of nerve fibres & Nerve Injuries


Topic for the session: Types, Properties & Nerve Injuries

Time	Design	T-L method/ Media	Moderator
5 minutes	Set Induction	Interaction	Faculty
15 minutes	Classification & Susceptibility of Nerve Fibres	PPT	
10 minutes	Properties of Nerve (Excitability)		
20 minutes	Properties of Nerve (Conductivity, Refractory Period, Accommodation)		
10 minutes	Reinforcing the concepts of Properties of Nerve	Questioning	
5 minutes	BREAK		
5 minutes	Introduction to Nerve Injuries	PPT	
10 minutes	Causes & Grades of Nerve Injuries		
20 minutes	Degenerative Changes		
15 minutes	Regenerative Changes		
5 minutes	Summary	Interaction	


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Department of Physiology

Lesson plan

Name of faculty: Dr Shivayogappa S Teli

Date: 04.05.2022

Duration: 1 Hr

Time: 04.30 PM – 05.30 PM

Batch: I year MBBS

T-L method: Lecture

Learning Domain: Cognitive

System: Nerve

Competency (Number: PY 3.1, 3.2, 3.3)

Module: I


SLOs

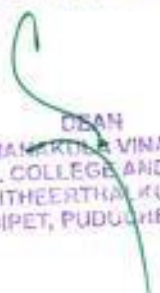
- To apply basic understanding of nerve physiology in solving clinical conditions

Time (min)	Content	T-L method/ Media	Assessment plan
5	Set induction	Interactive discussion	
10	Case-1 'Botulism' Kottram 23 film clip Discussion on neuro-muscular transmission	ECE (Case scenario) Videos/PPT/TPS	Viva/MCQs
10	Case-2 Drug-induced peripheral neuropathy Discussion on axonal transport	ECE (Case scenario) PPT/TPS	Viva/MCQs
10	Case-3 Local anesthetics Discussion on nerve properties	Questioning/ PPT/TPS	Viva/MCQs
10	Case-4 Astrocytoma Discussion on neuroglia	Explanation/PPT/TPS	Viva/MCQs / SAQ
10	Case-5 Neurapraxia Discussion on nerve injury	Explanation/PPT/TPS	Viva/MCQs / SAQ
5	Summary		

PPT= Power Point Presentation; ECE= Early clinical exposure; TPS= Think, pair and share

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Department of Physiology
Lecture schedule of the month of October 2022

Date	Time/ Day	Hrs	Comp. No	Topic	TL-method	Faculty
5.10.22	Wednesday 9.30 - 10.30	1	10.6	Spinal Cord lesions	Lecture	Dr.K.Soundariya
6.10.22	Thursday 08.30 - 9.30	1	10.4	Vestibular Apparatus	Lecture	Dr.K.Soundariya,
	9.30 - 10.30	1	10.4	Postural Reflexes	Lecture	Dr.S.Poonguzhalai
7.10.22	Friday 11:30 - 12:30	1	10.8	Autonomic Nervous system	Lecture	Dr.V.Deepika
	12.30 - 1.30	1	10.1	Cerebral Cortex	Lecture	Dr.S.Poonguzhalai
10.10.22	Monday 8.30 - 10.30	2	PY 10	Formative Assessment - 5		All Faculty
11.10.22	Tuesday 8.30 - 9.30	1	10.7	Hypothalamus	Lecture	Dr.Shivayogappa
12.10.22	Wednesday 9.30 - 10.30	1	10.7	Limbic System	Lecture	Dr.Shivayogappa
	2.30 - 4.30	2	10.7	Basal Ganglia	Lecture	Dr.Shivayogappa
13.10.22	Thursday 08.30 - 10.30	2	10.7	Cerebellum	Lecture	Dr.Shivayogappa
Batch - A	2.30 - 3.30	1	-	CSF, Blood Brain Barrier	Lecture	Dr.K.Soundariya
	3.30 - 4.30	1	10.9	Speech	Lecture	Dr.V.Deepika
14.10.22	Friday 11:30 - 1:30	2	10.15	Physiology of Hearing - Functional Anatomy, Middle Ear Functions, Organ of Corti, Mechanism of Hearing	Lecture	Dr.S.Poonguzhalai
Batch - B	2.30 - 3.30	1	-	CSF, Blood Brain Barrier	Lecture	Dr.K.Soundariya
	3.30 - 4.30	1	10.9	Speech	Lecture	Dr.V.Deepika
17.10.22	Monday 2.30 - 3.30	1	10.9	Learning, Memory	Lecture	Dr.S.Poonguzhalai
Batch - A	3.30 - 4.30	1	11.1	Temperature Regulation	Lecture	Dr.Shivayogappa
18.10.22	Tuesday 8.30 - 9.30	1	10.15	Mechanism of Hearing, Theories, Auditory Pathway	Lecture	Dr.S.Poonguzhalai
Batch - B	2.30 - 3.30	1	10.9	Learning, Memory	Lecture	Dr.S.Poonguzhalai
	3.30 - 4.30	1	11.1	Temperature Regulation	Lecture	Dr.Shivayogappa
19.10.22 to 21.10.22	Wednesday					
25.10.22	Tuesday 8.30 - 9.30	1	10.16	Hearing tests and Deafness	Lecture	Dr.S.Poonguzhalai
26.10.22	2.30 - 4.30	2	Revision for B Batch			
	Wednesday 9.30 - 10.30	1	10.13, 10.14	Taste & Smell	Lecture	Dr.V.Deepika
27.10.22	2.30 - 4.30	2	10.17	Functional Anatomy, Physiology of Vision, Refractive errors	Lecture	Dr.V.Deepika
	Thursday 08.30 - 10.30	2	10.18, 19	Visual Pathway	Lecture	Dr.V.Deepika
Batch - A	2.30 - 4.30	2	11.5	Sedentary Lifestyle, Aging	Lecture	Dr.Shivayogappa
28.10.22	Friday 11:30 - 1:30	2	10.17, 18,19	Visual Reflexes, Colour Vision and Applied	Lecture	Dr.V.Deepika
Batch - B	2.30 - 4.30	2	11.5	Sedentary Lifestyle, Aging	Lecture	Dr.Shivayogappa
29.10.22	Saturday 2.30 - 4.30	2	11.8, 11,12	Exercise Physiology, Brain Death, Yoga and Meditation	Lecture	Dr.Shivayogappa

K. Soundariya
Faculty Incharge
Dr.Soundariya.K

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