Vydehi Institute Of Medical Sciences & Research Centre

#83, EPIP Area, Nallurahalli, Whitefield, Bangalore- 660076.

Undergraduate (MBBS) Teaching Schedule for the Month of October 2024, Department of Pathology, 2nd year: MBBS

DATE	DAY	THEORY CLASS	2.00 - 4.00 PM (PRACTICALS)
1.10.2024	Tuesday	MBBS RS 3 Dr.Shilpa 12.15-1.15pm Revision class: Cell injury 2: Pathological calcification and amyloidosis	Dr.Shailaja, Dr.Divya, Dr.Sandhya Charts revision
2.10.2024	wednesday	HOLIDAY	HOLIDAY
3.10.2024	Thursday	-	DrShilpa, Dr.Kavya, Dr.Varsha Assignment discussion of important questions
4.10.2024	Friday	12.15-1.15 Dr.Prathima Revision class (important questions)	Dr Radha, Dr.Vishwas , Dr.Sameena Assignment discussion of important questions RS3 batch Dr.Varsha General pathology revision slides
7.10.2024	Monday	11.15-12.15 Dr.Sameena Describe the epidemiology, risk factors, etiology, pathophysiology, presentations, gross and microscopy diagnostic test and complication of given test	
8.10.2024	Tuesday	Yoga session	Dr.Selvi, Dr.Devasmita, DrSandhya Revision class: slides, specimen, instrument and charts
10.10.20.24	Thursday	11.15-12.15 RS3 Dr.Shilpa Revision class : inflammation3: clinicalsigns, fate and morphologyal types of acute inflammation	Dr.Selvi, Dr.Devasmita, DrSandhya Revision class: slides, specimen, instrument and charts
11.10.2024	Friday	12.15-1.15pm DrSandhya Revision class (important questions)	DrRadha DrKavya Revision slides
14.10.24	Monday	12.15 pm to 1.15 pm **Dr Prathima** **(PA-1) : TOPIC- INTRODUCTION TO PATHOLOGY**	Dr Radha Dr Vishwas Dr Varsha **PA 1.1 - Describe the role of a pathologist in diagnosis and management of disease**

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		1.2.1. Define Etiology, Pathogenesis and Pathology. 1.2.2. Correlate the clinical findings with pathology. 1.3.1. Describe the brief history and evolution of Pathology	1.1.1. Describe the role of Pathologist in diagnosis and treatment. 1.1.2. Describe the role of Pathology in correlating clinical findings and disease process . 1.1.3. Enumerate different sections of Pathology and its diagnostic role PA 1.2 - Enumerate common definitions and terms used in Pathology PA 1.3 - Describe the history and evolution of Pathology
15.10.24	Tuesday	11.15 - 12.15 pm **Dr.Shilpa** **PA-2: TOPIC- CELL INJURY AND ADAPTATION** **PA 2.1 - Demonstrate knowledge of the causes, mechanisms, types and effects of cell injury and** **their clinical significance** 2.1.1. Enumerate the different causes of cell injury.	
16.10.24	Wednesday	--	Dr Radha Dr Vishwas Dr Varsha **PA 1.1 - Describe the role of a**

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			pathologist in diagnosis and management of disease 1.1.1. Describe the role of Pathologist in diagnosis and treatment. 1.1.2. Describe the role of Pathology in correlating clinical findings and disease process . 1.1.3. Enumerate different sections of Pathology and its diagnostic role PA 1.2 - Enumerate common definitions and terms used in Pathology PA 1.3 - Describe the history and evolution of Pathology Dr. Radha, Dr. Vishwas Dr. Varsha
17.10. 2024	Thursday	--	**PA 2.5 - Describe and discuss pathologic calcifications, gangrene** **Slides: Fatty liver,hyaline degeneration,monckebergs sclerosis** **Specimens:Fatty liver, Gangrene** 2.5.1. Describe the pathogenesis of Fatty liver in various conditions. 2.5.2. Describe the macro and microscopic changes in Fatty liver. 2.5.3. Enumerate causes of Pathologic calcifications. 2.5.4. Differentiate between metastatic and dystrophic calcifications. 2.5.5. Recognize calcification grossly, microscopically and name special stains for calcium. 2.5.6. Enumerate several conditions

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			associated with extracellular and intracellular protein accumulations. 2.5.7. Enumerate causes of accumulation of Glycogen and special stains used for detection of glycogen. 2.5.8. Identify the changes of fatty degeneration in Liver. 2.5.9. Identify and describe Monckeberg's medial calcification. 2.5.10. Identify the gross specimen of gangrene. 2.5.11. Enumerate the types of gangrene and discuss their pathogenesis.
18.10.24	Friday	12.15 - 1.15 pm **Dr.Shilpa** **PA 2.2 - Describe the etiology of cell injury. Distinguish between reversible-irreversible injury:** **mechanisms; morphology of cell injury** 2.2.1. Describe the pathogenesis of cell injury.(At least a few causes) 2.2.2. Enumerate the microscopic differences between reversible and irreversible cell injury. 2.2.3. Describe the mechanism of reversible and irreversible cell injury. 2.2.4. Enumerate few biochemical changes	Dr. Selvi Dr. Divya Dr. Varsha **PA 2.5 - Describe and discuss pathologic calcifications, gangrene** **Slides: Fatty liver,hyaline degeneration,monckebergs sclerosis** **Specimens:Fatty liver, Gangrene** 2.5.1. Describe the pathogenesis of Fatty liver in various conditions. 2.5.2. Describe the macro and microscopic changes in Fatty liver. 2.5.3. Enumerate causes of Pathologic calcifications. 2.5.4. Differentiate between metastatic and dystrophic calcifications.

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		frequently associated with irreversible cell injury. 2.2.5. What is lipofuscin and mention its importance.	2.5.5. Recognize calcification grossly, microscopically and name special stains for calcium. 2.5.6. Enumerate several conditions associated with extracellular and intracellular protein accumulations. 2.5.7. Enumerate causes of accumulation of Glycogen and special stains used for detection of glycogen. 2.5.8. Identify the changes of fatty degeneration in Liver. 2.5.9. Identify and describe Monckeberg's medial calcification. 2.5.10. Identify the gross specimen of gangrene. 2.5.11. Enumerate the types of gangrene and discuss their pathogenesis.
21.10.24	Monday	**12.15-1.15 Dr.shilpa** **PA 2.3 - Intracellular accumulation of fats, proteins, carbohydrates, pigments** 2.3.1. Enumerate the causes of intracellular and extracellular hyaline deposition 2.3.2. Enumerate the causes of fatty degeneration. Name the organs affected.2.3.3. Discuss the pathogenesis of fatty liver. Describe the morphology of fatty liver. 2.3.4. Enumerate special stains used to demonstrate Fat, Glycogen and Calcium.	**Dr.Shilpa, Dr Sameena** **PA 2.6 - Describe and discuss cellular adaptations: atrophy, hypertrophy, hyperplasia,** **metaplasia, dysplasia** 2.6.1. Define the term Adaptation. 2.6.2. Mention different types of Adaptation 2.6.3. Describe the pathogenesis and clinical significance of each Adaptation.

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		2.3.5 Enumerate the causes of intracellular accumulation of proteins. 2.3.6. Enumerate different types of pigments in health and disease. 2.3.7. Name special stains to demonstrate hemosiderin and melanin.	
22.10.24	Tuesday	**PA 2.4 - Describe and discuss Cell death- types, mechanisms, necrosis, apoptosis(basic as** **contrast with necrosis),autolysis** 2.4.1. Define necrosisand enumerate the different types with examples. Discuss the morphology and fate of coagulative, liquefactive and caseous necrosis. 2.4.2. Discuss the pathogenesis and morphology of fat necrosis. 2.4.3. Discuss the pathogenesis and pathology of Apoptosis. 2.4.4. Describe the clinical significance of Apoptosis and Necrosis. 2.4.5. Difference between apoptosis and necrosis. 2.4.6. Define autolysis. Explain the mechanism with example.	**Dr Shilpa Dr.Sandhya** **PA 2.6 - Describe and discuss cellular adaptations: atrophy, hypertrophy, hyperplasia,** **metaplasia, dysplasia** 2.6.1. Define the term Adaptation 2.6.2. Mention different types of Adaptation 2.6.3. Describe the pathogenesis and clinical significance of each Adaptation.
			Dr. Shilpa Dr. Varsha **PA 2.8 - Identify and describe various forms of cell injuries, their manifestations and** **consequences in gross and microscopic**

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			specimens. **Slides: Coagulative necrosis & caseous necrosis** 2.8.1. Identify the morphology of coagulative, liquefactive and caseous necrosis. 2.8.2. Define and morphologically identify different types of Gangrene. 2.8.3. Correlate clinical presentation and morphological changes in Necrosis and Gangrene Dr. Shilpa Dr. Varsha
25.10.2024	Friday	**PA 2.7 - Describe and discuss the mechanisms of cellular aging and apoptosis** 2.7.1. Discuss the mechanism of cellular aging 12:15 - 1:15 pm Dr. Shilpa	**PA 2.8 - Identify and describe various forms of cell injuries, their manifestations and** **consequences in gross and microscopic specimens.** **Slides: Coagulative necrosis & caseous necrosis** 2.8.1. Identify the morphology of coagulative, liquefactive and caseous necrosis. 2.8.2. Define and morphologically identify different types of Gangrene. 2.8.3. Correlate clinical presentation and morphological changes in Necrosis and Gangrene RS3 batch Specimen: Fatty liver, gangrene Slides: Fatty liver, gangrene
28.10.2024	Monday	**TOPIC: INFLAMMATION (PA- 4)** **PA 4.1 - Define and describe the general**	**Dr.Divya Dr.Varsha**

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		features of acute and chronic inflammation including **stimuli, vascular and cellular events** 4.1.1. Define and differentiate acute and chronic inflammation. 4.1.2. Describe the pathogenesis of acute and chronic inflammation. 4.1.3. Describe the various vascular and cellular events involved in acute inflammation. 4.1.4. Define and describe chemotaxis, phagocytosis and opsonisation.	**TOPIC: AMYLOIDOSIS (PA- 3)** **PA 3.1 - Describe the pathogenesis and pathology of amyloidosis** **PA 3.2 - Identify and describe amyloidosis in a pathology specimen** 3.1.1. Describe the pathogenesis and pathology of Amyloidosis. 3.1.2. Enumerate the diseases associated with amyloid deposition and name the common organs affected. 3.1.3. Enumerate the Investigations used in diagnosis of amyloidosis. 3.1.4. Special stains used to demonstrate the amyloid 3.2.1. Identify the gross specimen of amyloid kidney/spleen. (Optional) 3.2.2. Identify the amyloid deposition microscopically. 3.2.3. Interpretation of the special stain done. Dr. Divya , Dr. Varsha
29.10.2024	Tuesday	**11.15-12.15pm Dr Devasmita** **PA 4.1 - Define and describe the general features of acute and chronic inflammation including** **stimuli, vascular and cellular events** 4.1.1. Define and differentiate acute and chronic inflammation. 4.1.2. Describe the pathogenesis of acute	**Dr.Divya, Dr. Varsha** **TOPIC: AMYLOIDOSIS (PA- 3)** **PA 3.1 - Describe the pathogenesis and pathology of amyloidosis** **PA 3.2 - Identify and describe amyloidosis in a pathology specimen** 3.1.1. Describe the pathogenesis and

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		and chronic inflammation. 4.1.3. Describe the various vascular and cellular events involved in acute inflammation. 4.1.4. Define and describe chemotaxis, phagocytosis and opsonisation. RS3 Dr.Divya Cell injury 3: Apoptosis pigments and accumulations	pathology of Amyloidosis. 3.1.2. Enumerate the diseases associated with amyloid deposition and name the common organs affected. 3.1.3. Enumerate the Investigations used in diagnosis of amyloidosis. 3.1.4. Special stains used to demonstrate the amyloid 3.2.1. Identify the gross specimen of amyloid kidney/spleen. (Optional) 3.2.2. Identify the amyloid deposition microscopically. 3.2.3. Interpretation of the special stain done.
30.10.2024	Wednesday	-	**Dr.Divya, Dr. Sandhya** **TOPIC: AMYLOIDOSIS (PA- 3)** **PA 3.1 - Describe the pathogenesis and pathology of amyloidosis** **PA 3.2 - Identify and describe amyloidosis in a pathology specimen** 3.1.1. Describe the pathogenesis and pathology of Amyloidosis. 3.1.2. Enumerate the diseases associated with amyloid deposition and name the common organs affected. 3.1.3. Enumerate the Investigations used in

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			diagnosis of amyloidosis. 3.1.4. Special stains used to demonstrate the amyloid 3.2.1. Identify the gross specimen of amyloid kidney/spleen. (Optional) 3.2.2. Identify the amyloid deposition microscopically. 3.2.3. Interpretation of the special stain done.
31.10.2024	Thursday	**HOLIDAY**	

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