MBBS – TEACHING SCHEDULE

# VYDEHI INSTITUTE OF MEDICAL SCIENCES AND RESEARCH CENTER
## TIMETABLE FOR CBME PATHOLOGY -DECEMBER 2024

| Date | Theory | Practical |
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| 2/12/2024<br>Monday | 12.15 pm to 1.15 pm Dr.Prathima<br><br>**PA-7.4 - Describe the effects of tumour on the host including paraneoplastic syndrome**<br>**PA-7.5 - Describe immunology and the immune response to cancer**<br>7.4.1. Discuss the local and systemic effects of tumour on the host.<br>7.4.2. Define and discuss Paraneoplastic syndromes.<br>7.4.3. Discuss the different types and clinical significance of tumour markers and their role in lab diagnosis.<br>7.5.1. Describe host immune response to cancer. | |
| 3/12/2024<br>Tuesday | 11:15 to 12:15 pm Dr.Divya<br><br>**TOPIC: IMMUNOPATHOLOGY AND AIDS**<br>**PA 9.3 - Describe the HLA system and the immune principles involvedin transplant and mechanism of transplant rejection.**<br>9.3.1. Define HLA system and Major Histocompatibility Complex molecules.<br>9.3.2. Describe the function of MHC class I and class II molecules.<br>9.3.3. Describe the mechanism ofrecognition and rejection of allografts with schematic diagrams.<br>9.3.4. Describe the mechanism and morphology of rejection of Kidney grafts.<br>9.3.5. Describe the methods of increasing graft survival.<br>9.3.6. Describe the mechanism and types of Graft Versus Host Disease (GVHD) | |
| 4/12/2024<br>Wednesday | | 2-4 pm Dr.Sunitha, Dr.Sandhya, Dr.Athulya<br><br>**TOPIC: BASIC DIAGNOSTIC CYTOLOGY (PA-8)** |

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| | | **PA 8.1 - Describe the diagnostic role of cytology and its application in clinical care.**<br>8.1.1. Describe the procedure of FNAC, its advantages and limitations. |
| 5/12/2024<br>Thursday | | 2-4 pm Dr.Sunitha, Dr.Sandhya, Dr.Athulya<br><br>**TOPIC: BASIC DIAGNOSTIC CYTOLOGY (PA-8)**<br>**PA 8.1 - Describe the diagnostic role of cytology and its application in clinical care.**<br>8.1.1. Describe the procedure of FNAC, its advantages and limitations. |
| 6/12/2024<br>Friday | 12.15 pm to 1.15 pm Dr.Divya<br>**PA 9.4 - Define autoimmunity. Enumerate autoimmune disorders.**<br>9.4.1. Define Autoimmune disease<br>9.4.2. Classify Autoimmune diseases<br>9.4.3. Define and enumerate the types of immunologic tolerance.<br>9.4.4. Describe the mechanism of central tolerance.<br>9.4.5. Describe the mechanism of peripheral tolerance.<br>9.4.6. Describe the mechanism of autoimmunity with a neat labelled schematic diagram.<br>9.4.7. Describe the general features associated with autoimmune diseases | |
| 9/12/2024<br>Monday | 12:15 to 1:15 pm Dr.Divya<br><br>**PA 9.4 - Define autoimmunity. Enumerate autoimmune disorders.**<br>**PA 9.5 - Define and describe the pathogenesis of Systemic Lupus Erythematosus**<br>**PA 9.7 - Define and describe the pathogenesis of other common autoimmune diseases**<br>9.4.1. Define Autoimmune disease<br>9.4.2. Classify Autoimmune diseases<br>9.4.3. Define and enumerate the types | |

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| | of immunologic tolerance.<br>9.4.4. Describe the mechanism of central tolerance.<br>9.4.5. Describe the mechanism of peripheral tolerance.<br>9.4.6. Describe the mechanism of autoimmunity with a neat labelled schematic diagram.<br>9.4.7. Describe the general features associated with autoimmune diseases<br>9.5.1. Define SLE and enumerate and describe various types of SLE<br>9.5.2. Describe the revised criteria for classification of SLE<br>9.5.3. Enumerate and describe the spectrum of autoantibodies in SLE.<br>9.5.4. Describe the etiopathogenesis of SLE with a neat labelled schematic diagram.<br>9.5.5. Describe the morphological features in SLE.<br>9.5.6. Enumerate the clinical features of SLE.<br>9.7.1. Define Sjögren Syndrome.<br>9.7.2. Describe the etiopathogenesis of Sjögren syndrome.<br>9.7.3. Describe the clinical features of morphological findings in Sjögren syndrome.<br>9.7.4. Enumerate organ specific autoimmune diseases and systemic autoimmune diseases | |
| 10/12/2024<br>Tuesday | 11:15 to 12:15 pm Dr.Divya<br>**TOPIC: IMMUNOPATHOLOGY AND AIDS**<br>**PA 9.3 - Describe the HLA system and the immune principles involvedin transplant and mechanism of transplant rejection.**<br>9.3.1. Define HLA system and Major Histocompatibility Complex molecules.<br>9.3.2. Describe the function of MHC class I and class II molecules.<br>9.3.3. Describe the mechanism ofrecognition and rejection of allografts with schematic diagrams.<br>9.3.4. Describe the mechanism and morphology of rejection of Kidney grafts.<br>9.3.5. Describe the methods of | |

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| | increasing graft survival.<br>9.3.6. Describe the mechanism and types of Graft Versus Host Disease (GVHD) | |
| 11/12/2024<br>Wednesday | | 2-4pm Dr.Sunitha, Dr.Varsha<br>**PA 8.2 - Describe the basis of exfoliative cytology including the technique & stains used**<br>**PA 8.3 - Observe a diagnostic cytology and its staining and interpret the specimen**<br>8.2.1. Describe the sites of exfoliative cytology (PAP smear, body fluids, sputum, urine)<br>8.2.2. Enumerate the steps and name different stains used in pap stain.<br>8.3.1. Observe and interpret the cytology reports |
| 12/12/2024<br>Thursday | | 2-4pm Dr.Sunitha, Dr.Varsha<br>**PA 8.2 - Describe the basis of exfoliative cytology including the technique & stains used**<br>**PA 8.3 - Observe a diagnostic cytology and its staining and interpret the specimen**<br>8.2.1. Describe the sites of exfoliative cytology (PAP smear, body fluids, sputum, urine)<br>8.2.2. Enumerate the steps and name different stains used in pap stain.<br>8.3.1. Observe and interpret the cytology reports |
| 13/12/2024<br>Friday | 12:15 to 1:15 pm Dr.Divya<br>**PA 9.3 - Describe the HLA system and the immune principles involvedin transplant and mechanism of transplant rejection.**<br>9.3.1. Define HLA system and Major Histocompatibility Complex molecules.<br>9.3.2. Describe the function of MHC class I and class II molecules.<br>9.3.3. Describe the mechanism ofrecognition and rejection of allografts | |

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| | with schematic diagrams.<br>9.3.4. Describe the mechanism and morphology of rejection of Kidney grafts.<br>9.3.5. Describe the methods of increasing graft survival.<br>9.3.6. Describe the mechanism and types of Graft Versus Host Disease (GVHD) | |
| 16/12/2024<br>Monday | 12:15 to 1:15 pm Dr.Kavya<br>**PA-13.3 - Define and classify anemia**<br>13.3.1. Define Anemia.<br>13.3.2. Classify anemia based on morphology and etiology | |
| 17/12/2024<br>Tuesday | 11:15 to 12:15 pm Dr.Kavya<br>**PA-13.4 - Enumerate and describe the investigation of anemia**<br>13.4.1. Write the investigations required for the laboratory diagnosis of anemia<br>13.4.2. What is CBC, ESR, PCV<br>13.4.3. Peripheral smear and bone marrow examination in the diagnosis of anemias | |
| 18/12/2024<br>Wednesday | | 2-4pm Dr.Prathima, Dr.Vishwas, Dr.Sameena, DrCatherine<br>7.1b.2. Identify the gross and microscopic features of malignant neoplasms<br>Slides: Squamous cell carcinoma, Basal cell carcinoma, Adenocarcinioma<br>Specimens: Squamous cell carcinoma, Adenocarcinoma |
| 19/12/2024<br>Thursday | | 2-4pm Dr.Prathima, Dr.Vishwas, Dr.Sameena, DrCatherine<br>7.1b.2. Identify the gross and microscopic features of malignant neoplasms<br>Slides: Squamous cell carcinoma, Basal cell carcinoma, Adenocarcinioma<br>Specimens: Squamous cell carcinoma, Adenocarcinoma |
| 20/12/2024<br>Friday | 12:15 to 1:15 pm Dr.Sameena<br>**PA 10.3 - Define and describe the pathogenesis and pathology of leprosy**<br>10.3.1. Define and Classify Leprosy<br>10.3.2. Discuss the pathogenesis of | |

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| | leprosy<br>10.3.3. Differentiate morphology of tuberculoid and lepromatous leprosy | |
| 23/12/2024<br>Monday | 12:15 to 1:15 pm Dr.Kavya<br>**TOPIC: MICROCYTIC ANAEMIA (PA-14)**<br>**PA-14.1 - Describe iron metabolism**<br>**PA 14.2 - Describe the etiology, investigations and differential diagnosis of microcytic hypochromic anemia**<br>14.1.1. Describe iron metabolism<br>14.2.1. List the causes of microcytic hypochromic anemia.<br>14.2.2. Describe the investigations in a case of iron deficiency anemia.<br>14.2.3. Discuss the differential diagnosis of microcytic hypochromic anemia.<br>14.2.4. Write the peripheral blood and bone marrow findings in iron deficiency anemia. | |
| 24/12/2024<br>Tuesday | 11:15 to 12:15 pm Dr.Kavya<br>**TOPIC: MACROCYTIC ANAEMIA (PA-15)**<br>**PA 15.1 - Describe the metabolism of Vitamin B12 and the etiology and pathogenesis of B12 deficiency**<br>**PA 15.2 - Describe laboratory investigations of macrocytic anemia**<br>**PA 15.4 - Enumerate the differences and describe the distinguishing features of megaloblastic and non-megaloblastic macrocytic anemia**<br>15.1.1. Describe the metabolism of vitamin B12.<br>15.1.2. Discuss the etiology and pathogenesis of vitamin B12 deficiency.<br>15.2.1. List the causes of macrocytic anemia<br>15.2.2. Describe laboratory investigations of macrocytic anemia.<br>15.2.3. Describe the peripheral blood and bone marrow picture in megaloblastic anemia<br>15.4.1. Discuss the etiology of megaloblastic anemia<br>15.4.2. Describe the distinguishing features of megaloblastic and non | |

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| | megaloblastic macrocytic anemia.<br>15.4.3. Enumerate the differences between megaloblastic and non megaloblastic macrocytic anemia. | |
| 25/12/2024<br>Wednesday | HOLIDAY | HOLIDAY |
| 26/12/2024<br>Thursday | | 2-4pm Dr.Afsal, Dr.Prathima<br>Dr. Devasmita, Dr.Sandhya<br>**PA 13.2 - Describe the role of anticoagulants in hematology**<br>13.2.1. List and write the mechanism of action of anticoagulants used in hematology.<br>13.2.2. Discuss the appropriate use of anticoagulants in hematology and blood bank. |
| 27/12/2024<br>Friday | 12:15 to 1:15 pm Dr.Kavya<br>**TOPIC: HEMOLYTIC ANAEMIA (PA-16)**<br>**PA-16.1 - Define and classify hemolytic anemia**<br>**PA 16.2 - Describe the pathogenesis and clinical features and hematologic indices of hemolytic anemia**<br>**PA 16.5 - Describe the peripheral blood picture in different hemolytic Anaemias**<br>16.1.1. Define hemolytic anemia<br>16.1.2. List the causes of inherited and acquired hemolytic anemia by mechanisms.<br>16.2.1. Describe the pathogenesis of intravascular and extravascular hemolytic anemias<br>16.2.2. Enumerate clinical features in hemolytic anemia<br>16.2.3. Enumerate the laboratory investigations in haemolytic anaemia.<br>16.5.1. Describe the peripheral blood picture in different hemolytic anemias with respect to RBC morphology. | |
| 30/12/2024<br>Monday | 12:15 to 1:15 pm Dr.Kavya<br>**PA-16.3 - Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia**<br>16.3.1. Describe the pathogenesis, | |

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| | hematologic features and laboratory diagnosis of sickle cell anemia<br>16.3.2. Describe the pathogenesis, hematologic features and laboratory diagnosis of thalassemia.<br>16.3.3. List the features to distinguish thalassemia from iron deficiency anemia | |
| 31/12/2024<br>Tuesday | 11:15 to 12:15 pm Dr.Kavya<br>**PA-16.4a - Describe the etiology pathogenesis, hematologic indices and peripheral blood picture of Acquired hemolytic anemia**<br>16.4a.1. Explain the etiopathogenesis of acquired hemolytic anemia.<br>16.4a.2. Descibe the laboratory diagnosis of acquired hemolytic anemia. | |

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