

List of online lectures for students of OT/PT in Pathology

Topic	Faculty
1. Cell injury: General structure of a cell, Causes of cell injury (physical, chemical, biological), Mechanism of cell injury, Types of cell injury	Dr Kawthalkar
2. Cell injury: Reversible cell injury, Degenerations, Types of degenerations, Cloudy swelling, hydropic change, Hyaline change, Fatty change, Mucinous change	Dr Kawthalkar
3. Irreversible cell injury: Necrosis, Types of necrosis, Apoptosis, Calcification (dystrophic, metastatic)	Dr Kawthalkar
4. Amyloidosis	Dr Richa Sharma
5. Acute inflammation: Definition, Causes, Vascular and cellular events	Dr Richa Sharma
6. Chemical mediators of inflammation	Dr Richa Sharma
7. Morphologic types of inflammation, Ulcer, Outcomes of inflammation	Dr Kawthalkar
8. Chronic inflammation, Differences between acute and chronic inflammation, Types, Granulomatous inflammation with examples	Dr Richa Sharma
9. Repair and regeneration: Definitions, Types of cells based on regenerative capacity, Process of regeneration, Process of repair	Dr Kawthalkar
10. Wound healing by primary and secondary intention, healing in bone, nerve, muscle, Factors affecting wound healing, abnormalities of wound healing	Dr Richa Sharma
11. Immune system: Organization, Cells of immune system, Antibodies, Regulation of immune response	Dr Kawthalkar
12. Hypersensitivity reactions: Types and examples, Graft rejection	Dr Kawthalkar
13. Immunodeficiency disorders: Primary (in short), Secondary (HIV)	Dr Kawthalkar
14. Autoimmune disorders: Definition, Classification, Systemic lupus erythematosus, Rheumatoid arthritis, Laboratory diagnosis of autoimmune disorders	Dr Richa Sharma
15. Circulatory disturbances: Edema (definition, causes, pathogenesis, differences between transudates and exudates)	Dr Richa Sharma
16. Circulatory disturbances: Chronic venous congestion (liver, lungs), thrombosis (definition, pathogenesis, types, effects, fate)	Dr Richa Sharma

17. Embolism (definition, types, clinical effects), infarction (definition, types, common sites, morphology)	Dr Kawthalkar
18. Shock: Definition, Types with pathogenesis, Morphology	Dr Richa Sharma
19. Pathologic changes in vitamin deficiencies (A, B, C, D, E, K)	Dr Kawthalkar
20. Disorders of growth: Atrophy, Agenesis, hypoplasia, Hypertrophy, Hyperplasia, Metaplasia, Dysplasia	Dr Richa Sharma
21. Neoplasia: Definition, Classification, Pathogenesis, Differences between benign and malignant tumors	Dr Richa Sharma
22. Carcinogenesis: Definition, Radiation, Viral, Chemical carcinogenesis, Hereditary tumors	Dr Richa Sharma
23. Precancerous lesions, Carcinoma in situ, Malignant neoplasms: Modes of Spread (with special reference to metastasis to bone and CNS), Grading, Staging	Dr Kawthalkar
24. Medical genetics: Classification of genetic disorders, modes of inheritance with examples	Dr Richa Sharma

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