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## **SYNOPSIS**

## **SYNOPSIS - GENERAL PATHOLOGY**

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- 3. Reversible Cell Injury. Cellular Adaptation. Hypertrophy and Hyperplasia. Types.
- 4. Cellular Adaptation. Atrophy. Types. Metaplasia. Dysplasia.
- 5. Intracellular Accumulations. Fatty Changes (Steatosis). Pathogenesis. Morphology. Stromal Fatty Infiltration. Lipomatosis. Intracellular Accumulation of Glycogen. Mucoid Changes. Epithelial Mucin. Connective Tissue Mucin.
- 6. Accumulation of Pigments. Classification of Pigments. Exogenous Pigments. Endogenous pigments. Hemosiderin Local and Generalized Hemosiderosis.
- 7. Endogenous Pigments. Accumulation of Melanin and Lipofuscin, Bilirubin, Jaundice.
- 8. Hyaline Changes (Hyalinosis). Pathologic Calcification.
- 9. Amyloidosis. Etiology and Pathogenesis. Classification. Staining Characteristics of Amyloid. Pathologic Changes in Organs.
- 10. Irreversible Cell Injury. Necrosis. Etiology and Pathogenesis. Morphology. Apoptosis. Specific Morphologic Forms of Necrosis: Coagulative Necrosis, Caseous Necrosis, Liquefactive Necrosis, Gangrene, Decubitus, Fat Necrosis, Fibrinoid Necrosis.
- 11. Hemodynamic Disorders. Edema. Etiopathogenetic Mechanism .Type and Morphology of Edema: Subcutaneous Edema. Pulmonary Edema. Edema of the Brain. Fluid Accumulation in Body Cavities. Clinical Correlation.
- 12. Hemodynamic Disorders. Hyperemia. Active Hyperemia. Passive Hyperemia (Congestion). Morphology. Acute and Chronic type. Pathologic Changes in Lungs, Liver, Spleen and Brain.
- 13. Hemorrhage. Causes. Mechanisms. Types. Hematoma, Petechia, Purpura. Ecchymoses. Large Accumulation of blood in the body cavities.
- 14. Thrombosis. Pathogenesis (Virchov's triad). Morphology of Thrombi. Arterial system Thrombi. Thrombosis in the Heart.Venous Thrombosis. Phlebothrombosis. Migratory Thrombosis. (Trousseau's Syndrome). Fate of Thrombosis. Clinical Features. Disseminated. Intravascular Coagulation (DIC).
- 15. Embolism. Thromboembolism. Pulmonary Embolism. Fate of Pulmonary Thromboemboli. Paradoxal Embolism. Systemic Embolism. Arterial Emboli.Air Embolism. Decompression Sickness. Amniotic Fluid Embolism. Fat Embolism. Miscellaneous Emboli.
- 16. Shock: Pathogenesis. Types and Stages of Shock. Pathologic Changes in Organs (Heart, Kidney, Lung, Liver, Brain).
- 17. Infarction. Types of Infarcts. Pathologic Changes in Organs. Outcome of Infarcts.
- 18. Inflammation. Definition. Terminology. Etiology. Mediators and Cells. Signs of Inflammation Local and Systemic Manifestations. Stages and Types.
- 19. Acute Inflammation. Exudate Formation Vascular and Cellular Events. DD Exudate and Transudate. Morphological Forms of Acute Inflammation: Serous, Fibrinous, Catarrhal, Purulent (Abscess, Flegmon). Hemorrhagic and Putrid Inflammation.
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- 21. Granulomatous inflammation in tuberculosis, syphilis, sarcoidosis, toxoplasmosis, catscratch disease, leprosy, actinomycosis, rheumatic fever (proliferative stage)
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- 23. Regeneration and Healing of Specialized Tissues. Healing of Mucosal Surface and Solid Epithelial Organs (Liver, Kidney, and Lung). Repair of Muscles, Nervous tissue. Healing of Bone Fracture.
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- 32. Benign Mesenchymal Tumors (Sort Tissue Tumors) Clinical aspects and Morphologic Types. Fibroma (DD with Fibromatosis). Osteoma. Chondroma. Lipoma. Rhabdomyoma and Leiomyoma. Hemangioma and Lymphangioma.
- 33. Malignant Mesenchymal Tumors .Clinical aspects and Morphologic Types. Fibrosarcoma. Malignant Fibrous Histiocytoma.. Chondrosarcoma. Osteosarcoma. Liposarcoma.
- 34. Malignant Mesenchymal Tumors (Soft Tissue Tumors). Clinical aspects and Morphologic Types. Rhabdomyosarcoma. Leiomyosarcoma. Synovial sarcoma. Angiosarcoma.
- 35. Benign and Malignant Melanocytic Tumors. Types of nevi pigmentosi. Clinical aspects and Morphologic Types. Malignant Melanoma.
- 36. Tumors of Central Nervous System. Clinical aspects and Morphologic Types. Classification. Astrocytoma, Glioblastoma, Meningeoma. Schwanoma, Neurofibroma. Neuroblastoma.

## References

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- 2. Pathology, Board Review Series- Arthur S.Schneider, Philip A.Szantop 1993
- 3. Textbook of Pathology 6th Edition Harsh Mohan, 2005
- 4. Pathologic Basis of Disease, Cot ran, Kumar, Robbins, 4th Edition, 1989

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