

Hematology + CNS

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- ① We Have to Diagnose Anemias on The Basis "MCV"
(Normocytic = MCV 80-100), (MCV < 80 → Microcytic), (MCV > 100 → Macrocytic)
- ② Pencil cells → Iron Deficiency Anemia
- ③ osmotic fragility test → Hereditary Spherocytosis
- ④ Howell Jolly Bodies →
 - Hemolytic Anemia
 - Hereditary Spherocytosis
 - Megaloblastic Anemia
- ⑤ • Crewcut Appearance
• Chip munk facies } → β -Thalassemia major
- ⑥ Hemoglobin Barts (γ -chain tetramer) → Hydrops fetalis
- ⑦ • Hypesegmented Neutrophils
• egg shaped Macro-ovalocytes
• glossitis } → Megaloblastic Anemia
- ⑧ Pancytopenia with Hypocellularity of Bone Marrow → Aplastic Anemia
- ⑨ smudge cells → Chronic Lymphocytic Leukemia (CLL)
- ⑩ Starry sky pattern → Burkitt Lymphoma
- ⑪ Back pain + Lytic Bone Lesion + $\uparrow$ serum Ca^{2+} → Multiple Myeloma
- ⑫ Heinz Bodies → G6PD Deficiency
- ⑬ Reed Sternberg Cells → Hodgkin Lymphoma
- ⑭ Auer Bodies/Auer Rods → Acute Myeloid Leukemia
- ⑮ Philadelphia cells → CML
- ⑯ café au lait spots on skin → Neurofibromatosis
- ⑰ Rosenthal fibers → Pilocytic Astrocytoma
- ⑱ Psammoma Bodies → Meningioma
- ⑲ Homer-Wright Rosette → Neuroblastoma
- ⑳ glomeruloid Body
Pseudopallisading Necrosis } → Glioblastoma Multiforme (G-BM)

Gastrointestinal Tract

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- ① Birds Beak Appearance → Achalasia
- ② Tear at gastroesophageal Sphincter } → Mallory-Weiss Syndrome
Boerhaave syndrome
- ③ Portal HTN + Hematemesis → Esophageal varices
- ④ Newborn + Vomiting after feeding → Congenital pyloric stenosis
- ⑤ Chronic use of NSAIDs (Aspirin) → Peptic ulcer Disease
- ⑥ H. pylori Infection → Gastritis + Peptic ulcer + Gastric carcinoma
- ⑦ Leather Bottle like Stomach → Diffuse type gastric carcinoma
- ⑧ Sausage shaped Abdominal Mass → intussusception
- ⑨ Salt & Pepper chromatin → Gastrointestinal carcinoid Tumor
- ⑩ Tumor arising from Interstitial Cells of Cajal → Gastrointestinal Stromal Tumor
(GIST)
- ⑪ Hypersensitivity to Wheat, Rye, Barley → Celiac Disease
- ⑫
 - Cobblestone Appearance
 - Creeping fat
 - Skip lesion
 - String sign on X-Ray→ Crohn's Disease
- ⑬
 - Broad Based ulcer
 - Pseudopolyps
 - Lead Pipe sign on X-Ray
 - Bloody Diarrhea + Mucoid Material→ Ulcerative Colitis
- ⑭
 - Iron Deficiency Anemia
 - Occult Bleeding + Change in Bowel Habits
 - Napkin Ring→ Colorectal carcinoma
- ⑮ ↑ WBC Count + Pain at Periumbilical & Lower quadrant Rt → Appendicitis

Breast, Bones & Joints

(4)

- ①
 - Lumpy Bumpy mass
 - Fibrosis
 - Adenosis
 - Cysts with Apocrine Metaplasia → Fibrocystic change
- ②
 - Well Circumscribed
 - freely moveable mass
 - popcorn calcification → FibroAdenoma
- ③ Leaf-like growth pattern → Phyllodes Tumor
- ④
 - eczema like lesion on Nipple
 - clear Halo around Nucleus → Paget disease of Breast
- ⑤ Peau d'orange → Inflammatory Breast Carcinoma
- ⑥
 - Dimpling of Skin
 - Retraction of Nipple → Invasive ductal carcinoma
- ⑦ Blue Sclera → Osteogenesis Imperfecta
- ⑧ Brown Tumor of bone → Osteitis fibrosa cystica
- ⑨ Mosaic pattern of Lamellar bone → Paget disease of Bone
- ⑩ Sequestrum + Involucrum → Osteomyelitis
- ⑪
 - Lytic + Sclerotic Lesion
 - Codman triangle
 - Sunburst Appearance → Osteosarcoma
- ⑫
 - Destructive Lytic Lesion
 - Homer-wright Rosettes
 - Scanty Cytoplasm
 - onion-skin Appearance → Ewing's Sarcoma
- ⑬ Bone Eburnation + Joint mice → Osteoarthritis
- ⑭ Pannus formation + Baker's cyst → Rheumatoid Arthritis
- ⑮ Needle like crystals + Negative Birefringent → Gouty Arthritis
- ⑯ ~~OR~~ Rhombic crystals + positive Birefringent → Pseudogout

Cardiovascular System

⑦

- ① Cotton Wool Spots → Chronic HTN
- ② Hyaline Arteriosclerosis → Benign HTN
- ③ Hyperplastic Arteriosclerosis → Malignant/Severe HTN
(onion skin thickening of wall)
- ④ foam cells (macrophages laden with LDL) → Atherosclerosis
- ⑤ • Double-Barreled Aorta
• Cystic Medial degeneration] → Aortic Dissection
- ⑥ • Temporal Headache
• fragmentation of internal Elastic Lamina] → Giant Cell Arteritis
- ⑦ • Tree Barking Appearance of Aorta
• Cow's Heart] → Thoracic Aortic Aneurysm
(Syphilitic Aneurysm)
- ⑧ Pulseless Disease → Takayasu Arteritis
- ⑨ String-of-pearls Appearance on imaging → PolyArteritis Nodosa
- ⑩ patches + Nodules + plaques → Kaposi Sarcoma
- ⑪ Nutmeg Liver → Rt sided Heart failure
- ⑫ Aschoff Bodies → Rheumatic fever
- ⑬ fish mouth or Buttonhole deformity → Stenosis of Mitral Valve in
Rheumatic Heart Disease
- ⑭ • Splinter Hemorrhages
• Janeway Lesion
• Osler's Node] → Infective Endocarditis
- ⑮ Glue Sniffers Heart → Dilated Cardiomyopathy
- ⑯ Banana like configuration of Ventricles → Hypertrophic Cardiomyopathy
- ⑰ Spider cells → Rhabdomyomas

Male genital & Female genital system

③

① - Well circumscribed, gray-white tumor
- Sheet of uniform polygonal cells
- Clear cytoplasm } → Seminoma / potato tumor

② Reticular pattern
Schiller Duval Bodies
(Primitive glomeruli) } → Yolk sac tumor

③ Gynecomastia
Crystalloids of Ranke } → Leyding cell tumor

④ PSA > 10 ng/ml → Prostate cancer

⑤ Grape-like lesion → Embryonal Rhabdomyosarcoma

⑥ Chocolate cyst → Endometriosis

⑦ Psammoma Bodies → Serous ovarian tumor

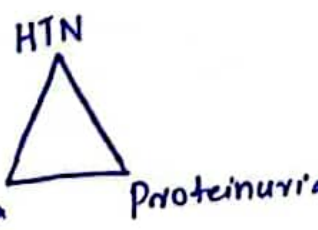
⑧ Nests of transitional cells → Brenner tumor

⑨ Dermoid cyst
Struma ovarii } → Teratoma

⑩ Schiller Duval Bodies → Yolk sac tumor (Endodermal sinus tumor)

⑪ Call Exner Bodies
Coffee-bean nuclei } → Granulosa Theca cell tumor

⑫



→ Pre-eclampsia

Kidney + Bladder

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- ① Lumpy-Bumpy Appearance of glomeruli → Post-streptococcal GN
- ② Tram-Track Appearance → Membranoproliferative GN
- ③ Spike & Dome pattern → Membranous Nephropathy
- ④ Basket & Weave Appearance → Alport Syndrome
- ⑤ Wire Loop Appearance → Lupus Nephropathy
- ⑥
 - patchy suppurative Inflammation
 - pain at costovertebral angle → Acute Pyelonephritis
- ⑦ Tubular Thyroidization → Chronic Pyelonephritis
- ⑧ Swiss-cheese Appearance → Medullary Sponge Kidney Disease
- ⑨ Psammoma Bodies → Renal Cell Carcinoma
- ⑩
 - children
 - Abdominal mass
 - Hematuria → Wilms' Tumor

Endocrinology

- ① Hurthel Cells → Hashimoto Thyroiditis
- ② Orphan Annie Nuclei → Papillary CA thyroid
- ③ Amyloid deposit → Medullary CA thyroid
- ④ Psammoma Bodies →
 - Papillary CA thyroid
 - Meningioma
 - Serous ovarian tumor
 - Renal cell carcinoma
- ⑤

Moon face
Central obesity
Abdominal striae

 } → Cushing Syndrome
- ⑥

Hypotension
Skin Hyperpigmentation

 } → Addison Disease
- ⑦ Crooke's Hyaline change → Cushing Syndrome
- ⑧ Salt-and-pepper Appearance → Pheochromocytoma
- ⑨ Bamboo spine (X-Ray) → Ankylosing spondylitis

Pulmonology

- ① Hyaline membrane formation → Acute Respiratory Distress Syndrome
- ② Charcot-Leyden crystals
Curschmann spirals } → Bronchial Asthma
- ③ Pink puffers → Emphysema
- ④ Blue Bloaters → Chronic Bronchitis
- ⑤ foul smelling sputum → Bronchiectasis
- ⑥ Honeycomb Lung (X-Ray) → Idiopathic pulmonary fibrosis
- ⑦ Asteroid Bodies → Sarcoidosis
- ⑧ consolidation of entire lobe → Lobar pneumonia
- ⑨ Ghon Complex
Ranke Complex } → ~~pulmonary~~ pulmonary TB
- ⑩ Salt-and-pepper chromatin →
 - Small Cell Lung Ca
 - Carcinoid Tumor
 - PheochromocytomaNeuroendocrine Tumor
- ⑪ Collar Button Lesion → Carcinoid tumor