Anatomy

- Regarding anterior choroidal artery syndrome, all are true except?
- A. Hemiparesis
- B. Hemisensory loss
- C. Predominant Involvement of anterior limb of internal capsule
- D. Homonymous hemianopia
- Ans. C. Involvement of anterior limb of internal capsule
 Ref. KEITH & MOORE CLINICAL ANATOMY

Posterior limb of internal capsule is supplied by the anterior choroidal artery

Anterior choroidal artery territory stroke features:

- Complete Hemiplegia
- Hemianesthesia
- Homonymous hemianopia

	Anatomy of the Internal Capsule	
Division	Major Communication Tracts	Blood Supply
Anterior limb	- Tracts between the frontal lobe and pons (brainstem) - Tracts between the thalamus and prefrontal cortex - Tracts between the thalamus and cingulate gyrus	Lenticulostriate arteries (branches of the middle cerebral artery) Recurrent artery of Heubner (branch of the anterior cerebral artery)
Genu	- Tracts between the motor cortex in the frontal lobe and the cranial nerve nuclei in the brainstem (aka: corticobulbar tract)	Lenticulostriate arteries (branches of the middle cerebral artery) Recurrent artery of Heubner (branch of the anterior cerebral artery)
Posterior limb	- Tracts between the motor cortex of frontal lobe and anterior horn of spinal cord (aka: corticospinal tract) - Medial lemniscus tract (a continuation of the dorsal columns), which carries information about light touch, vibration, and pressure sensation from the body and spinal cord Anterolateral (aka: spinothalamic) tract, which carries pain and temperature information	Lenticulostriate arteries (branches of the middle cerebral artery) Anterior choroidal artery (branch of the internal carotid)

Surgeon removes a part of liver to the left of falciform ligament. Which segment the surgeon has removed

A.1 & 4a

B.2 & 3

C.1 & 4b

D. 18.3

2. Ans. b.2 & 3

Reference: Sabiston Surgery 18th

Resection of segments II and III is a commonly performed sublobar resection and is often referred to as a left lateral segmentectomy and left lateral sectionectomy or left lobectomy. Left lobe is that part of liver to the left of the falciform ligament.

Extra edge:

Nomenclature for Most Common Major Anatomic Hepatic Resections

SEGMENTS	COUINAUD, 1957	GOLDSMITH AND WOODBURNE, 1957	BRISBANE, 2000
V-VIII	Right hepatectomy	Right hepatic lobectomy	Right hemi-hepatectomy
IV-VIII	Right lobectomy	Extended right hepatic lobectomy	Right trisectionectomy
II-IV	Left hepatectomy	Left hepatic lobectomy	Left hemi-hepatectomy
11, 111	Left lobectomy	Left lateral segmentectomy	Left lateral sectionectomy
II, III, IV, V,	Extended left	Extended left lobectomy	Left trisectionectomy

SEGMENTS	COUINAUD, 1957	GOLDSMITH AND WOODBURNE, 1957	BRISBANE, 2000
VIII	hepatectomy		

3. Which of the following passes through foramen magnum?

A. Internal Carotid Artery

B. Sympathetic chain

C. Hypoglossal Nerve

D. Vertebral Artery

3. Ans. D. Vertebral Artery

Ref.Gray,s 40th ed., B.D.C. 4th ed.

The **foramen magnum** is a large opening in the occipital bone of the cranium. It is one of the several oval or circular apertures in the base of the skull (the foramina), through which the medulla oblongata (an extension of the spinal cord) enters and exits the skull vault.

Apart from the transmission of the medulla oblongata and its membranes, the foramen magnum transmits the spinal accessory nerve, **vertebral arteries**, the anterior and posterior spinal arteries, the membrana tectoria and alar ligaments.

Extra Edge-

Foramen	Structure Passing through it
Hypoglossal canal	Hypoglossal nerve & artery
F.Spinosum	Middle meningeal artery & vein,meningeal branch of mandibular nerve
Jugular Foramen	Cranial nerve 9,10,11, Inferior petrosal sinus,Internal jugular vein
F.Ovale	Mandibular nerve, Accessory meningeal artery, Lesser petrosal nerve, Emissary vein
F.Rotundum	Maxillary artery
Mandibular foramen	Inferior alveolar nerve & vessels
Carotid Canal	Internal Carotid Artery

4. Deoxygenated blood is not seen in

A. Pulmonary artery

B. Umbilical artery

C. Umbilical vein

D. Right heart

Ans. c. Umbilical vein

Ref.Ganong Physiology 23rd ed., Dutta 6th ed.

Heart assumes normal four chambered configuration by End of 6 weeks of Intrauterine life.

For exchange of gas Fetus depends on Placenta While Neonate depends on Lungs.

OXYgenated Blood from placenta → Umbilical Vein → Portal Vein→Ductus Venosus→IVC

→Right Atrium → From here blood is divided in 2 streams by Crista dividends(inferior margin of Septum Secundum

Stream 1

One third of blood goes to Fossa ovalis →left atria →Left ventricle →Ascending aorta for distribution to coronaries,head & upper limb.

Stream 2

Two third of blood get mixed with SVC blood and it goes to \rightarrow RV \rightarrow pulmonary trunk \rightarrow ductus arteriosus \rightarrow Descending aorta \rightarrow lower body

In fetal circulation LV & RV works in parallel i.e. L V supplies upper body & R V supplies lower body,

5. All of the following are pneumatic bones except?

A. Frontal

B. Ethmoid

C. Mandible

D. Maxilla

5. Ans. C. Mandible

Pneumatic bones:

Pneumatic bones can also be categorized under the irregular bones because they are also irregular in shape but since there is a difference between the two that is characteristically very important therefore they are often classified separately. The characteristic difference is the presence of large air spaces in these bones which make them light in weight and thus they form the major portion of skull in the form of sphenoid, ethmoid and maxilla. Besides making the skull light in weight they also help in resonance of sound and as air conditioning chambers for the inspired air.

- Pneumatic bones are those bones which contain an air filled cavity within them
- In humans, they are seen in relation to the the nasal cavity they enclose the paranasal sinuses
- Pneumatic bones are maxilla, frontal bone, sphenoid and ethmoid

All are seen in injury to common peroneal nerve except?

A. Loss of sensation over sole

B. Foot drop

C. Injury to neck of fibula

D. Loss of dorsiflexion of toe

6. Ans. A. Loss of sensation over sole

Ref. Gray's Anatomy 40th ed., B.D.C. 4th ed.

Sensory loss to sole of foot in tibial nerve palsy.

Common Peroneal Nerve

PED - Peroneal Everts and Dorsiflexes, if injured than see foot drop.

Root Value- <u>L4</u>, <u>L5</u>, <u>S1</u>, <u>S2</u>

Loss often due to Compression at Fibular Neck (Superficial there - seen with kneeling alot and banging knees), Hip Fracture/Dislocation, Misplaced Gluteal Injection, Piriformis Syndrome causes dec sensation of Anterior Leg, Dorsum of Foot: dec Dorsiflexion, Eversion of Foot

Innervates: Anterior and Lateral Leg Compartments

Tibialis Anterior Muscle

Extensor Digitorum Longus Muscle

Fibularis Tertius Muscle (Peroneus)

Extensor Hallucis Longus Muscle

Fibularis Longus Muscle (Peroneus) Fibularis Brevis Muscle (Peroneus)

Skin Sensation on top of foot (dorsum, not the sole)

Pathology:

Neck Fracture of Fibula or trauma to lateral leg

Baker's Cyst Removal can hurt nerve in popliteal fossa dec innervation of Tibialis Anterior via deep branch (dec Dorsiflexion, Foot Eversion and Foot Drop/Dragging) and dec sensation to anterolateral upper calf

Which among the following is a branch from the trunk of brachial plexus?

A. Suprascapular nerve

B. Lateral thoracic nerve

C. Anterior thoracic nerve

D. Nerve to subclavius

7. Ans. Suprascapular nerve

Ref. Ugo Human Anatomy

BRANCHES OF THE BRACHIAL PLEXUS

There are a total of 17 branches arising from the brachial plexus that are destined to supply the upper limb. There are other branches that supplies structures within the neck, they include; nerve to scaleni and a branch that join the phrenic nerve to supply the diaphragm.

Of the seventeen branches of the brachial plexus, three of the branches arise from the root, one from the trunk, three from the lateral cord, five from the medial cord and five from the posterior cord.

BRANCHES FROM THE ROOT Long thoracic nerve of bell (C5,C6,C7).

- Dorsal scapular nerve (C5). 3. Nerve to subclavius (C5, C6).
- **BRANCH FROM THE TRUNK**

1. Suprascapular Nerve.

BRANCEHS FROM THE LATERAL CORD

- Lateral pectoral Nerve. ((C5, C6).
- Musculocutaneous (C5,C6, C7)
- Lateral root of median nerve (C5, C6, C7).

BRANCHES FROM THE MEDIAL CORD

- 1. Medial pectoral nerve
- 2. Medial cutaneous nerve of arm
- 3. Medial cutaneous nerve of forearm
- 4. Ulnar nerve

5. Medial root of median nerve

- POSTERIOR CORD BRANCHES
- 1. Axillary nerve (C5, C6)
- Upper subscapular nerve (C5,C6)
- 3. Thoracodorsal nerve (C7,C8).

4. Lower subscapular nerve (C5,C6)

5. Radial nerve (C5-T1).

Main blood supply of neck of femur?

A. Lateral circumflex femoral artery

B. Medial circumflex femoral artery

C. Profunda femoris artery D. External Iliac Artery

8. Ans. B. Medial circumflex femoral artery

Right isomerism is?

A. Asplenia B. Two spleens C. One spleen D. Polysplenia

9. Ans. A. Asplenia

Urethral crest is situated in:

A. Prostatic urethra B. Membranous urethra C. Penile urethra D. Bulbar urethra

10. Ans. A. Prostatic urethra

What is the type of joint seen at Growth plate-

A. FibroCartilaginous B. Primary cartilagenous

C. Secondary cartilagenous D. Gomphosis

11. Ans. B. Primary cartilagenous

Which among the following is not a component of hypogastric sheath?

B. Transverse cervical ligament A. Broad ligament of uterus D.lateral ligament of bladder

C. lateral ligament of uterus

12. Ans. A. Broad ligament of uterus

All are seen in the floor of 3rd ventricle except?

A. Infundibulum B. Oculomotor nerve C. Mammillary body D. Optic Stalk

13. Ans. D. Optic Stalk

Lines of blaschko are:

B. Blood vessel C. Nerves D. Lines of development A. Lymphatics

14. Ans. D. Lines of development

All of the following are affected in low radial nerve palsy except?

A. Extensor carpi radialis longus B. Extensor carpi radialis brevis

C. Finger extensors D. Sensation on dorsum of hand

15. Ans. A. Extensor carpi radialis longus

Site not affected in posterior cerebral artery infarct is?

D. Striate cortex A. Midbrain B. Pons C. Thalamus

16 Ans. B. Pons

Bifurcation of Common carotid artery is palpated at?

A. Upper border of cricoid cartilage B. Upper border of thyroid cartilage

C. Hyoid bone D. Cricothyroid membrane

17. Ans. B. Upper border of thyroid cartilage

In L5 root involvement, which among the following is not affected?

A. Thigh adduction B. Knee flexion C. Knee extension D. Toe extension

18. Ans. A. Thigh adduction

Muscular component of dorsal aorta develops from?

B. Paraxial mesoderm A. Septum transversum

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C. Intermediate mesoderm

D. Lateral plate mesoderm

19. Ans. B. Paraxial mesoderm

Diaphragm develops from all except:

A. Septum transversum

B. Dorsal mesocardium

C. Pleuroperitoneal membrane

D. Cervical myotomes

20. Ans. B. Dorsal mesocardium

Posterior relations of head of pancreas are all except?

A. Common bile duct

B. First part of duodenum

C.Right crus of Diaphragm

D. Inferior vena cava

21. Ans. B. First part of duodenum

Which of the following is not supplied by the anterior division of mandibular nerve (V3)?

A. Temporalis

B. Medial pterygoid

C. Lateral pterygoid

22. Ans. B. Medial pterygoid

Physiology

Basal metabolic rate is closely associated with?

A. Lean body mass

B. Body surface area C. Daily activity

D. Food Intake

1. Ans. A. Lean body mass > B. Body surface area

Both options A and B seems correct (BMR = 3.52 X body weight 0.75). If there are two individuals with the same surface area but one has a higher lean body mass then the one with a greater lean body mass will have a higher

Basal Metabolic Rate (BMR), and the closely related resting metabolic rate (RMR), is the amount of daily energy expended by humans and other animals at rest. Rest is defined as existing in a neutrally temperate environment while in the post-absorptive state. (Inactive digestive system , which requires about 12 hours of rest)

BMR normally averages about 65 to 70 cal/ hr in average 70kg male. As BMR is energy expended at rest so option C & D are ruled out.

2. Mineralocorticoid receptor is not present in?

A. Liver

B. Colon

C. Hippocampus

D. Kidney

2. Ans. A. Liver

The mineralocorticoid receptor (or MR, MLR, MCR), also known as the aldosterone receptor or nuclear receptor subfamily 3, group C, member 2, (NR3C2) is a protein that in humans is encoded by the NR3C2 gene that is located on chromosome 4g31.1-31.2

MR is expressed in many tissues, such as the kidney, colon, heart, central nervous

system (hippocampus), brown adipose tissue and sweat glands. In epithelial tissues, its activation leads to the expression of proteins regulating ionic and water transports (mainly the epithelial sodium channel or ENaC, Na+/K+ pump, serum and glucocorticoid induced kinase or SGK1) resulting in the reabsoprtion of sodium, and as a consequence an increase in extracellular volume, increase in blood pressure, and an excretion of potassium to maintain a normal salt concentration in the body.

The primary action of NO in GIT is?

A. Vasodilatation

B. Vasoconstriction

C. GI smooth muscle Relaxation

D. Slow Smooth muscle contraction

3. Ans. C. GI smooth muscle Relaxation

NO, also k/a EDRF (endothelial derived relaxation factor), is synthesized by the endothelial cells in response to a number of stimuli. The NO that is formed by the endothelial cells diffuses to the smooth muscle cells, where it acts via cGMP to produce vascular smooth muscle relaxation.

Action of NO in the gut: During peristalsis initiated by stretching of the gut wall by the contents of the small intestine, there occurs a ring of contraction behind the food and an area of relaxation in front of it. The relaxation produced in the anterograde direction is due to activation of neurons that secrete NO, VIP, and ATP, all of which produce relaxation.

NO causes Relaxation of smooth muscle via Non Adrenergic Non cholinergic action.

Main site of water absorption is:

A. Jejunum

B. Colon

C. Ileum

D. Stomach

4. Ans. A. Jejunum

Daily total water input into the GI tract is approximately 9000ml

2000ml is ingested daily and 7000ml from endogenous secretions.

5500ml is reabsorbed in the jejunum, 2000ml in the ileum, 1300ml in the colon and the remaining 200ml appears in the stool.

Small air way has laminar flow because?

A. Reynold number more than 2000

B. Diameter is very small

C. The linear Velocity of Airflow in Small Airway is extremely low

D. Total cross sectional area low

5. Ans. C. The linear Velocity of Airflow in Small Airway is extremely low

The onset of turbulence under ideal conditions can be predicted by calculating the Reynold's number (Re): Re = D v d / V

Where D = diameter, v = mean velocity, d = density, V = viscosity

Reynold's Number greater than 3000 → Turbulent Flow.

Reynold's Number less than 2000 - Laminar Flow.

Velocity of flow is inversely proportional to total cross sectional area; since the total cross sectional area of small airways is large the velocity of flow is low. When the velocity of flow is low Reynold's number is less and so is tendency for turbulence.

Capillaries have highest cross sectional area so maximum turbulence.

Orthopnoea in Congestive heart failure develops due to?

- A. Reservoir function of pulmonary veins B. Pooling of blood in lower limb veins
- C. Pulmonary Hypertension D. Systemic Hypertension

6. Ans. A. Reservoir function of pulmonary veins

Ref: Harrison 17th edi pg 1446

Orthopnea is Sensation of breathlessness in recumbent position, relieved by sitting or standing it is caused by An increase in venous return associated with recumbent position.

Orthopnoea is usually a later manifestation of HF than is exertional dyspnoea. It results from redistribution of fluid from the splanchnic circulation and lower extremities into the central circulation during recumbency, with a resultant increase in pulmonary capillary pressure.

Nucleus involved in papez circuit-

A.Pulvinar

B.VPL Nucleus

C.Intralaminar

D.Anterior NU. Of thalamus

7. Ans.d.Anterior NU. Of thalamus

All the following are true about phagocytosis except-

A.Amoeba & other protozoans lives thier life out of it.

B.Used to ingest particles < 0.5microns in size

C.. Used to ingest particles > 0.5microns in size D.Digestion occurs within phagolysosomes

8. Ans.B.Used to ingest particles < 0.5microns in size

Biochemistry

Thiamine deficiency causes decreased energy production because?

A.it is required for the process of transamination

B.it is co-factor in oxidative reduction

C.it is co-enzyme for transketolase in pentose phosphate pathway

D.it is co-enzyme for pyruvate dehydrogenase & alpha ketoglutarate dehydrogenase

Ans. D.it is co-enzyme for pyruvate dehydrogenase & alpha ketoglutarate dehydrogenase

What factor is responsible for deciding whether an antibody will remain membrane bound or get secreted?

A. Carbohydrate content

B. Class switching C. Differential RNA splicing D. Surface charge

2. Ans. C. Differential RNA splicing			
Vitamin K is involved in the post of A. Glutamate B. Aspartate	translational mo C. Tyrosin		D. Tryptophan
3. Ans. Glutamate			
4 Which away the fallenday is not			ž.
 Which among the following is not A. Glucagon excess 		6 phospatase defici	
C. Cirrhotic liver damage		en synthase deficien	
Ans. A. Glucagon excess		1 A	
T. Milit M. Glucagori Caccas			
Cell fusion is a innovative method	of preparing s	pecific antibodies.	Technique to induce cell
fusion includes following all except?			and the second
A. Attaching inactive viral particle on cell mem		. Adding ethylene gl	
C. Applying a small electric current	D	. Reducing the visco	sity of the membrane
5. Ans. D. Reducing the viscosity of the m	embrane		
6. Urea cycle occurs in:			
A. Liver B. Intestine	C. Brain	D. I	Kidney
6. Ans. A. Liver			
	Company of the last		
7. Which of the following change in	a vector used to	o increase the yiel	d of protein produced in
recombinant protein synthesis? A. Inducible promoter	R Copper (or protease inhibitor	
C. Translation initiation		tion and transcriptio	
and the same and t			
7. Ans. A. Inducible promoter			
8. Two plants are grown. One to exp	ress green fluo	rescent pigment &	Other express Fire fly
luciferase containing media. Which plant	will glow in the	dark?	14.00
A. Both plants will glow		B. Neither will glow	
C. Plant expressing green fluorescent pigment	will glow). Plant expressing f	irefly luciferrase will glow
8. Ans. D. Plant expressing firefly luciferrase v	vill glow		
9. A patient who was given primagu	in develops hen	olysis. The probal	ble cause may be
A.Glucose 6 phosphate dehydrogenase deficie		. Glucose 6 phospha	
C. Alpha keto glutarate dehydrogenase deficie	ncy D	. Pyruvate Kinase D	eficiency
9. Ans. A.Glucose 6 phosphate dehydrogenase	e deficiency		
10. Transfer of an amino group from			
A.Tranaminases B.Aminases	C.Transke	tolase D.D	ecarboxylase
10. Ans. A.Tranaminases			
Q.11 Which of the following statement			
A.HDL increases oxidation of LDL		uces foam cell produ	
C.HDL is best predictor of CAD	D.HDL hel	ps to clear lipids from	m atheroma
11. Ans. A.HDL increases oxidation of LDL			

PATHOLOGY

which of the following helps in generating oxygen burst in the neurophils?

A. superoxide dismutase B.NADPH oxidase C. peroxidase D. Glutathione reductase

1. Ans. B.NADPH oxidase

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Which is not an autoimmune disease? A. SLE B. Grave's disease C. Myasthenia gravis D. Sickle cell disease 2. Ans. D. Sickle cell disease An 8 year old boy completed 8 out of 10 day course of cefaclor. Now he developed a generalized erythmatic rash which is mildly pruritic and lymphadenopathy. Diagnosis is? A. Kawasaki disease B. Type 3 hypersensitivity C. Anaphylaxis 3. Ans. B. Type 3 hypersensitivity Which among the following is the hallmark of acute inflammation? A. Vasoconstriction B. Stasis C. Vasodilation and increase in permeability D. Leukocyte margination 4. Ans. C. Vasodilation and increase in permeability Some antigen was injected into a rabbit. What antibody will it produce initially? A. IgG B. IgM C. IgA D. IgD 5. Ans. B. IgM Principle organelle involved in the execution of apoptosis is? A. Nucleus B. Lysosome C. Mitochondria D. Endoplasmic reticulum 6. Ans. C. Mitochondria Psammoma bodies are seen in all except? A. Follicular carcinoma thyroid B. Papillary carcinoma thyroid C. Cystadenocarcinoma D. Meningioma 7. Ans. A. Follicular carcinoma thyroid Not a predisposing factor for atherosclerotic plaque formation? A. ApoE B. Alpha 2-macroglobulin C. Oxidised LDL D. Increased homocystiene 8. Ans. B. Alpha 2-macroglobulin Most potent activator of T cells? A. B cells B. Follicular dendritic cells C. Mature dendritic cells D. Macrophages 9Ans. C. Mature dendritic cells True about platelet function defect? A. Normal platelet count with prolonged bleeding time B. Thrombocytopenia with prolonged bleeding time C. Normal bleeding time with normal platelet number D. Normal platelet count with decreased bleeding time Ans. A. Normal platelet count with prolonged bleeding time All are true about blood coagulation except? A. Factor 10 in a part of both intrinsic and extrinsic pathway B. Extrinsic pathway is activated by contact with plasma and negatively charged proteins C. Calcium is very important for coagulation D. Intrinsic pathway can be activated in vitro 11. Ans. B. Extrinsic pathway is activated by contact with plasma and negatively charged proteins All of the following are neuronal tumours except? A. Gangliocytoma B. Ganglioglioma C. Neuroblastoma D. Ependymoma 12. Ans. D. Ependymoma

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Which complement component is first common point between involved classical and alternate pathway? A. C1 B. C2 C. C3 D. C4 13. Ans. C. C3 All are true about xanthogranulomatous inflammation except? A. Presence of foamy macrophages B. Presence of tuberculous infection C. Multinucleated giant cell D. Presence of vellow Nodules 14. Ans. B. Presence of tuberculous infection Q.15 All are involved in generating free oxygen radical for killing of bacteria except-A.Superoxide Dismutase B.Fenton's reaction C.NADPH oxidase. D.Glutathion peroxidase 15. Ans. D.Glutathion peroxidase Q.16 Which is false about Bernard Soulier syndrome-A.Ristocetin Aggregation is normal B.Aggregation with collagen & ADP is normal C.Large platelets D.Thrombocytopenia 16. Ans. A.Ristocetin Aggregation is normal Q.17 Slide fixing in pathology most commonly done by -B.Alcohol A.Formaldehyde C.Picric acid D.Glutraldehyde 17. Ans. A.Formaldehyde PHARMACOLOGY Which of the following is given to treat thrombocytopenia secondary to myelosuppresive therapy -A.Iron Dextran B.Oprevelkin(interleukin-11) C.Tranexamic Acid D.Erythropoietin 1. Ans. B.Oprevelkin(interleukin-11) True about MRSA resistance is-A.Due to production of Penicillinase B.Due to alteration in penicillin binding proteins C.Plasmid mediated D.Treated with amoxicillin & clavulinic acid B.Due to alteration in penicillin binding proteins Treatment with INH leads to deficiency of ? A.Thiamine B.Niacin C.Pyridoxine D.Pantothenic acid 3. Ans. C. Pyridoxine Which drug not used to control bleeding while delivery of a woman with heart disease? A.Methylergometrime B.Carboprost C.Syntocin D.Misoprostol 4. Ans. A.Methylergometrime All true about Fulvestrant (selective estrogen receptor downregulator) A. Used for treatment of advanced breast cancer B. Also known as pure anti estrogen C. Is slower acting, have shorter duration of action &lower safety profile than SERM D.Administered as once monthly intramuscularinjection. 5. Ans. C. Is slower acting, have shorter duration of action &lower safety profile than SERM All are true about Ranalozine except? A. Has hypotensive effects B. 1st line antianginal drug C. Affects glycemic control D.Induces CYP3A

6. Ans. A. Has hypotensive effects Drug of choice for central diabetes insipidus is? A. Desmopressin B. Leuperolide C. Thiazide diuretics D.Insulin 7.Ans. A. Desmopressin Integrase inhibitor approved for treatment of HIV is-A. Raltegravir B. Indinavir C. Lopinavir D.Tipranavir 8. Ans. A. Raltegravir Which of the following antihypertensive drugs is contraindicated in a patient on lithium therapy in order to prevent toxicity? A. Clonidine B. Beta blockers C. Calcium channel blockers D. Diuretics 9. Ans. D. Diuretics Which of the following is not an adverse effect of thalidomide? B. Teratogenicity C. DVT D. Hypothyroidism A. Diarrhoea 10. Ans. A. Diarrhoea Amphotericin b causes deficiency of? 11. A. Na B. Ca. C. K D. Ma 11. Ans. C. K All of the following decrease bone resorption in osteoporosis except? C. Strontium A. Alendronate B. Etidronate D. Teriparatide 12. Ans. D. Teriparatide Which is not seen in digoxin toxicity? A. Biventricular tachycardia B. Proxysmal atrial tachycardia C. Ventricular bigeminy D. Regularisation of Atrial Fibrillation 13.Ans. D. Regularisation of Atrial Fibrillation **Buprenorphine** is? A. Partial agonist at mu receptor B. Partial agonist at kappa receptor C. Full agonist at mu receptor D. Antagonist at kappa receptor 14. Ans. A. Partial agonist at mu receptor Which among the following is the best inotrope drug for use in right heart failure due to pulmonary hypertension A. Dopamine B. Isoprenaline C. Halothane D. Milrinone 15. Ans. D. Milrinone Which among the following does not cause hyperpyrexia? A. MAO inhibitors B. Alcohol C. TCA's D. Amphetamine 16. Ans. B. Alcohol All are true about Aprepitant except? B. Crosses blood brain barrier A. Agonist at Nk1 C. Ameliorates nausea and vomiting of chemotherapy D. Metabolized by CYP3A4 17. Ans. A. Agonist at Nk1

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A. Acetylcholinesterase inhibition by malathion can be reversed by increasing the level of atropine

Which of the following is true?

B. Sulphonilamide inhibits folate reductase irrevesibly

C. Flouoroacetate competetively inhibits aconitase D. Ethanol acts by inhibiting aldehyde dehydrogenase when used in methanol poisoning 18. Ans. D. Ethanol acts by inhibiting aldehyde dehydrogenase when used in methanol poisoning A schizophrenic patient started on haloperidol 2 days back, comes with complaints of torticollis and orofaciolingual movements. What is the diagnosis? A. Acute dystonia B. Tardive dyskinesia C. Parkinsonism D. Akathisia 19. Ans. A. Acute dystonia Mifepristone is used in? A. Molar pregnancy B. Threatened abortion C. Fibroid D. Ectopic pregnancy 20. Ans. C. Fibroid > D. Ectopic pregnancy All of the following are true about erlotinib except? A. Small molecular inhibitor of tyrosine kinase associated with EGFR receptors B. Food delays its absorption C. Acniform eruptions and diarrhea are its common side effects D. Used in non small cell lung cancer when there is no response to other chemotherapeutic agents 21. Ans. B. Food delays its absorption Pulmonary toxicity is seen with? A. Bleomycin B. Cisplatin C. Doxorubicin D. Actinomycin D 22. Ans. A. Bleomycin All are used in the treatment of hot flushes except? B. Venlafaxine A. Tamoxifene C. Gabapentine D.Peroxetine 23. Ans. A. Tamoxifene All are true about meglitinides except? A. Decreases post parandial hyperglycemia B. Incidence of Hypoglycemia less common than sulfonylureas C. It decreases insulin resistance D. Causes stimulation of insulin release from pancreas 24. Ans. C. It decreases insulin resistance Pregnant mother at 35 weeks of gestation with SLE. Which of the following drug can not be used-A. Prednisolone B. Methotrexate C. Sulfsalazine D. Hydroxychloroguine 25. Ans. B. Methotrevate Tolerance in opioids develops to all except? A. Miosis B. Analgesia C. Euphoria D. Nausea and vomiting 26. Ans. A. Miosis All are actions of muscarinic antagonist except? A. Decreases gastric secretion B. Prolongs A-V conduction C. Decreases tracheobronchial secretions D. Causes Contraction of radial muscles of iris 27. Ans. D. Causes Contraction of radial muscles of iris Drugs used in prophylaxis of migraine are all except? A. Propranolol B. Flunarizine C. Topiramate D. Levetiracetam 28. Ans. D. Levetiracetam Administration of which of the following drug needs alkalization of urine? A. Cytosine arabinoside B. Methotrexate C. Cisplatin D. Ifosfamide

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D.MacFadyean's stain

29. Ans. B. Methotrexate

All of the following are true regarding diabetes mellitus except?

A. Type 2 diabetes patients never requires insulin

B. Sliding scale regimen is used in hospitalized patients

C. Low evening insulin dose prevents nocturnal hypoglycemia

D.Regular insulin is used in treatment of gestational diabetes

30. Ans. A. Type 2 diabetes patients never requires insulin

All are true regarding serotonin syndrome except?

A. It is not idiosyncratic and unpredictable

B. Dantrolene is drug of choice C. Can be used by SSRI D.Features include hyperthermia & hypertension

31. Ans. B. Dantrolene is drug of choice

MICROBIOLOGY

About tetanus true is a/e

A.Heat resisitant spores B.3 doses of vaccine to be given for primary prevention

C. Incubation period period 6-10 days D.Person to person transmission does not occur

1. Ans. B.3 doses of vaccine to be given for primary prevention

B. Waysons stain

A farmer from Himachal Pradesh presents with small ulceron leg. After few days he developed a swelling in the inguinal region which later ulcerated. What stain can be used to detect bipolar stained organisms?

C. Ziehl Neelson staining

A. Albert's stain

2. Ans. B. Waysons stain

Vectors does not transmits infection by -A. Ingestion B.Regurgitation C. Rubbing of infected feces D.Contaminated body fluids

3. Ans. A. Ingestion

All are factors responsible for resurgence of malaria except

A. Drug resistance B. Use of bed nets C. vector resistance D. Development of newer strains of parasite

4. Ans. B. Use of bed nets

Regarding Leptospirosis.True is-

A.Rats are only reservoir B.Fluroquinolones are drug of choice

C.Person to person transmission D. Oro fecal transmission

5. Ans. A.Rats are only reservoir

Fungus causing infection in immunocompetent individuals is-

1. Aspergillus 2.Penicillium 3.Cryptococcus 4. Candida

6. Ans. 4. Candida

A 7 month old child presents with history of bouts of cough ending with a whoop. Immunization history is not available. What is the best way to confirm the diagnosis?

A. Nasophayngeal swab B. Cough plate culture C. Tracheal aspirate D. Oral swab

7.Ans. A. Nasophayngeal swab

Aflatoxin is produced by?

B. Aspergillus niger C. Candida albicans D.Actinomycetes A. Aspergillus flavus

8. Ans. A. Aspergillus flavus

9. A. Nei:	The polysacch sseria meningitidis	B. Pneumoco		no role in their detella pertussis		hilus influenza
9 Ans	s. C. Bordetella pe	rtussis				
		obacter jejuni false is nic strain to cause camp voir			s main source	of infection
10. A	ns. C.Humans are	only reservoir				
11.	Which virus a	nong the following is	least likely to cros	s placenta?		
A. Rub		B. Herpes simplex	C. HIV		V	
11. A	ns. B. Herpes sin	plex				
A. Cau C. Sec	sed by Treponema ondary yaws can i	nvolve bones & Joints	NO. 2007	non-venerally involve heart and	nerves	
12. A	ns. D. Late stage	s involve heart and ne	erves			
13. A. Cap		e protein stands for: de in pneumococcus	B. Concanavalir	n-a C. Cal	retinin	D. Cellular
13. An	s. A. Capsular pol	saccharide in pneumoc	occus			
A. Nitr B. E.co C. 1 pt D. 1 b 14. At 15. A. <10 C. It is	ate test positive foli colony count < us cell per 7 fields acilli per oil immer ns. B. E.coli colon All are true ab 0 % spread by trar is a DNA virus	10^3 bacteria /ml in wet film of patients u sion field in gram staine by count < 10^3 bact out Parvovirus excep	rine d urine sample. eria /ml t? B. Spread by re D. Affects eryth	espiratory route proje progenitor ce	elis	
16. A. Ren	Sterile pyuria al tuberculosis	is present in? B. Chronic hydroneph	rosis C. Wilr	m's tumour	D. Neurobla	estoma
16. An	s. A. Renal tubero	ulosis				
17. A. Stro	Visceral larva ongyloides stercora	migrans is seen in?	ma duodenale	C. Toxocara ca	nis D. Ascar	ris lumbricoide
17. A	ns. C. Toxocara c	anis				
18. A. Mer		true about carbohydr clonal response C. H			ell independen	t immunity
18. An	s. A. Memory					
		e presents with ches om sputum grows on organism?				
	solubility	B. Bacitracin sensitivit	ty C. Cat	alase test	D. oxidase	test
19. An	s. A. Bile solubility					

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20. A female prese	ents with signs of	meningitis. CSF	shows gram p	ositive bacilli. Most likely	
organism is ? A. Listeria	B. Haemophilus in	fluenzae	C. Pneumococcu	s D. Pseudomonas	
20. Ans. A. Listeria					
weight loss.He is also penicillin.Sputum exa- howed evidence of gra diagnosis?	a known case of co mination is normal	ngenital heart however brond weakly acid fo	disease ,for wi choscopic lavag ast branching fi	weeks.He has reduced ap lich he has taken prophyl e cultured on sheep blood aments. What is likely D. Mycobacterium tubercu	axis of d agar
A. Actinomycosis	b. Nocardiosis	C. Asper	gillus	D. Mycobacterium tubercu	105/5
21. Ans. B. Nocardiosis				A PERSONAL ARRESTS AND A SECURIOR AN	200000
 Late onset end A. Staphylococcus epider 				is most commonly cause nes D. Propionibacterium	
22. Ans. D. Propioniba	cterium acne				
A. Cotrimoxazole	What is the most a B. Erythromycin		g to give him?	nal failure with increased D.Benzyl penicillin	
23. Ans. B. Erythromycin	- 45				
 False about pr Capsule aids in viruler Least likely cause of n 		B. Commonest ca D. It is bile sensit		ia and pneumonia	
24. Ans. C. Least likely o	ause of meningitis				
25. False about C. A. Toxin production is ch C. Toxic to heart and neu			B. Damage by t D.More common		
25. Ans. A. Toxin pr	roduction is chromos	ome mediated			
<u>FMT</u>					
1. An Infant is br	rought to casualty	with reports of	violent shaking	by parents. Most charac	teristic
A. Long bone fracture	B. Ruptured spleer	C. Subd	ural hematoma	D. Skull bone fracture	
1. Ans. C. Subdural he	matoma				
Gun powder of A. Magnifying lens	n clothing can be v B. UV rays	isualized by? C. Infra	red rays	D. Dye	
2. Ans. C. Infrared rays					
Signature fract. A. Depressed skull fractu. C. Counter coupe injury		B. Suture displac D. Fracture at for			
3. Ans. A. Depressed sku	all fracture				
4. Rave drug is? A. ecstasy	B. Cocaine	C. Heroi		D. Amphetamine	
4. Ans. A. ecstasy	D. COCOINE	C. Heroi		v. Amprictarinie	

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5. Sparrow mark A. Gunshot injuries B. Stab injury of face C. Vitriolage	s are seen in?			
D. Windshield glass injur	У			
5. Ans. D. Windshield gl	ass injury			
	examination tachycard	with bluish pigmentation lia & hypotension after		
A. Mercury	B. Arsenic	C. Lead	D. Cop	per
6. Ans. B. Arsenic				
7. A poison which A. Iodine	h is illuminous, translud B. Ammonium bromide		D. Yell	ow phosphorous
7. Ans. D. Yellow phosph	norous			
Auto-Rikshaw A. Contact bruise	ran over a child's thigh B. Patterned bruise	there is a mark of the C. Imprint abrasion		ks, it is an ssure bruise
B. Ans. B. Patterned bru	ise			
9. Dental numbe	ring is done by all exce	pt?		
A. FDI two digit system C. Palmer notation	4	B. Anatomic and diagra D. Harder acrogenic me		ting
9. Ans. D. Harder acroge	enic method			
PSM	7 [
An investigat disease.what is the ne A.ANOVA C. Multiple logistic regre	ext study you will do?	factors presence or absorbed B.Multiple linear regre		hich co-relates with the
1. Ans. B.Multiple lines	r regression			
Which is not t A.Cholestrol less then 10 C.Fat intake 10% of tot	00 mg/day	tion recommendation in B.Avoid alcohol D.Salt restriction less t		
Ans. B.Avoid alcohol				
All the followi A.Social reforms	ng Reforms have been B.Leadership reforms	proposed in world healt C .Policy refor		D.Economic reforms
3. Ans. D.Economic refo	rms			
According McI A. Increased awareness Behavioural modificat	and knowledge	in mortality due to TB i B. Medical advancement D. Social and environm	vt.	
4. Ans. D. Social and en	vironmental factor			
5. Orthotolidine A. Chlorine	test is used for assessin B. Nitrites	ng concentration- C. Nitrates	D. Fluo	orine
5. Ans. A. Chlorine				
6. Which of the f	ollowing does not caus B. Nitrous oxide	e indoor air pollution? C. Radon	D. Mer	cury vapor
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6. Ans. B. Nitrous oxide Most important and potential agent that can be used in bioterrorism: C. Mycobacterium tuberculosis A.Yersinia pestis B. Small pox D. Clostridium botulinum 7. Ans. B. Small pox Which insect among the following is not resistant to DDT? A. Musca domestica B. Phiebotomus C. Cullex fatigans D. Anopheles stephenci 8. Ans. B. Phlebotomus All are true about biomedical waste disposal except: A. Human anatomical waste is disposed in a yellow bag B. Red bag contents can be a potential source of infection C. Black bag is used for incineration ash D. Blue bag contents are disposed in secure landfill 9. Ans. D. Blue bag contents are disposed in secure landfill A graph of normal blood sugar level curve and diabetic blood sugar level curve was shown. An area was seen overlapping towards the normal glycemic curve. A point at 120 mg/dl was shown too. Question: what does that area represent? A. True positive B. False positive C. True negative D. False negative 10. Ans. D. False negative All are part of National screening programmes except? A. Diabetes mellitus B. Dental caries C. Refractive errors D. Carcinoma cervix 11. Ans. B. Dental caries Carrier state is not important in transmission of: B. Typhoid C. Polio A. Measles D. Diphtheria 12 Ans. A. Measles Denominator in maternal mortality rate? A. Total number of live births B. Total number of married women C. Total number of births D. Midyear population 13. Ans. A. Total number of live births A population is divided in relevant subgroups & samples were selected randomly from these sub groups. What type of sampling was done? A. Simple random sampling B. Stratified sampling C. Cluster sampling D. Systematic sampling 14. Ans. B. Stratified sampling Pearson's skewness coefficient is? A. Mean-Mode/SD B. Mode-Mean/SD C. SD/Mean-Mode D. SD/Median-Mode 15. Ans. A. Mean-Mode/SD About human development index, all are true except? A. Life expectancy at birth B. Life expectancy at 1 year of age C. Education D. GDP 16. Ans. B. Life expectancy at 1 year of age Efficiency of pasterurized milk is assessed by-B. Methylene Blue test C. Catalase test A. Phosphatase test D. Oxidase test 17. Ans. A. Phosphatase test Which among the following is a cardioprotective fatty acid? B. Stearic acid D. Omega-3 fatty acids A. Palmitic acid C. Oleic acid

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18. Ans. D. Omega-3 fatty acids

19. Which is non deleberate measures for control of mosquito?

A. Use of alkalinity causing soaps

B. Efforts by community to prevent development of environment suitable for mosquitoes.

C. Use of larvicidals

D. Use of bed nets for mosquito

19. Ans. A. Use of alkalinity causing soaps

False regarding Japanese encephalitis is:

A.During Epidemics 2-3 cases in a village are seen

B. Bite from infected mosquito is always associated with disease

C.About 70% of patients are children below 5 year age.

D. Overt disease to inapparent cases ratio is 1:100

20. Ans. B. Bite from infected mosquito is always associated with disease

21. Arthropod transmitted disease not found in india?

A. West nile fever B. Dengue C. Yellow fever D. Sandfly fever

21. Ans. C. Yellow fever

22. Most useful indicator for acute illness

A.Case fatality rate B.Standardized mortality ratio C. Case specific death rate D. Fiver year survival

22. Ans. A.Case fatality rate

23. Direct standardisation is used to compare the mortality rates between two countries. This is done because of the difference in:

A.Causes of death B.Numerators C.Age distribution D.Denominators

23. Ans: C Age distributions

<u>ENT</u>

Odoni cells and Haller cells are associated with the following structures respectively?

A. Optic nerve and Orbital floor

B. Optic nerve and Internal carotid artery
D. Orbital floor and Internal carotid artery

C. Optic nerve and Ethmoidal air cells

1. Ans. A. Optic nerve and Orbital floor

Pain sensation from the ethmoid sinus is carried by :

A. Frontal nerve B. Lacrimal nerve C. Nasociliary nerve D. Infraorbital nerve

3. Ans. C. Nasociliary nerve

3. A 5 year old boy while having dinner suddenly becomes aphonic and is brought to the casulty for the complaint of respiratory distress. What should be the next management?

A. Cricothyroidotomy B. Emergency tracheostomy C. Humidified oxygen D. Hemlich maneuver

3. Ans. D. Hemlich maneuver

4. Acoustic neuroma involves

A. Superior vestibular division of 8th cranial nerve B. Auditory part of 8th cranial nerve

C. 7th cranial nerve D. Inferior vestibular division of 8th cranial nerve

4. Ans. D. Inferior vestibular division of 8th cranial nerve

5. Time of occurrence of secondary hemorrhage after tonsillectomy?

A. 24 hrs B. 12 hrs C. 6 days D. 12 days

5. Ans. C. 6 days

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D. Equatorial edema

True regarding ranula?

A. It is also known as epulis B. It is a cystic swelling in the floor of mouth

C. It is a type of thyroglossal cyst

D. It is a type of mucus retention cyst

6. Ans. B. It is a cystic swelling in the floor of mouth

All are true statements regarding use of sodium fluoride in the treatment of otosclerosis except?

A. It inhibits osteblastic activity.

B. Used in active phase of otosclerosis when schwartz sign positive.

C. Has antienzymatic action on proteolytic enzymes toxic to cochlea.

D. contraindicated in renal failure patients.

7. Ans. A. It inhibits osteblastic activity.

8. Endolymphatic Hydrops is seen in

A. Meniere's disease B.Otosclerosis C.Acoustic neuroma D.Cholesteatoma

8. Ans: A Meniere's disease

OPHTHALMOLOGY

All are seen in Argyl Robertson pupil except?

A. Near reflex normal B. Direct light reflex absent

C. Consensual light reflex normal D. Visual Acuity normal

1. Ans. C. Consensual light reflex normal

2. A young patient presents to ophthalmology clinic with loss of central vision. There is no obvious family history. ERG were observed to be normal. Which is most probable diagnosis-

A.Best's disease B. Stargardt's disease C. Retinitis pigmentosa D. Macular hole

2. Ans. B. Stargardt's disease

3. Damage to nerve supplying Superior oblique muscle causes diplopia in which direction

A. Horizontal and downwards B. Vertical and downwards

C. Horizontal and upwards D. Vertical and upwards

3. Ans. B. Vertical and downwards

4. A patient had running nose and pain over medical aspect of eye being treated with decongestants for many days. He later developed chemosis, proptosis and diplopia on abduction of right eye with congestion of optic disc. What is the probable diagnosis?

A. Acute ethmoidal sinusitis B. Orbital cellulitis

C. Cavernous sinus thrombosis D. Orbital apex syndrome

4. Ans. C. Cavernous sinus thrombosis

5. A 5 yr old boy presented with leukocoria in right eye ball which is diagnosed as diffuse retinoblastoma involving the entire globe, while other eye had 2-3 small lesions in the periphery. What will be the ideal management for this patient?

A. Enucleation of both eyes

B. Enucleation of right eye & conservative management for the other eye

C. Enucleation for right eye and Focal therapy for the other eye

D. 6 cycles of chemotherapy

5. Ans. C. Enucleation for right eye and Focal therapy for the other eye

A tennis player gets hit by a ball on the eye, following which he has complaints of decreased vision. which of the following suggests that injury is due to trauma-

A. Optic neuritis B. Pars planitis C. Vitreous base detachment

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6. Ans. C. Vitreous base detachment

Most common malignant cause for bilateral proptosis in children?

A. Lymphoblastic lymphoma B. Rhabdomyosarcoma C. ALL D. AML

7. Ans. D. AML

8. Which of the following most commonly presents with bilateral proptosis in children?

A. Cavernous haemangioma B. Chloroma C.Fibrous Histiocytoma D.Pleomorphic Adenoma

8. Ans. B. Chloroma

9. A patient presented with sudden onset of floaters and sensation of falling of a curtain in front

of the eye. Which one of the following is the appropriate diagnosis?

A. Retinal detachment B. Eales disease C. Vitreous haemorrhage D. Macular hole

9. Ans. A. Retinal detachment

10 Ophtalmoplegic migraine is defined by-

A.Headache with irreversible lose of ophthalmic nerve function

B.Recurrent transient 3rd nerve palsy associated with headache

C. Recurrent transient 3td,4th & 6th nerve palsy associated with headache

D. Head ache with optic neuritis

10. Ans: C. Recurrent transient 3rd,4th & 6th nerve palsy associated with headache

11. Which of the following drug is not used for medical treatment of diabetic retinopathy?

A.Tamoxifen B.Benfotiamine C.Pyridazinones D.Ruboxisaturin

11. Ans: A. Tamoxifen

MEDICINE

 A girl presented with recurrent occipital headache associated with ataxia and vertigo. Mother also has similar complaints. Most probable diagnosis is?

A. Vestibular neuronitis B. Basilar migraine C. Tension head ache D. Cluster head ache

1. ANs. B. Basilar migraine

2. A 32 year old mountaineer has a hematocrit of 70%. What is the possible explanation?

A. Polycythemia with relative dehydration B. High altitude cerebral oedema

C. High altitude pulmonary oedema D. Hemodilution

2. Ans. A. Polycythemia with relative dehydration

3. Tetracycline is used in the prophylaxis of which of the following diseases?

A. Cholera B. Brucellosis C. Leptospirosis D. Meningitis

3. Ans. A. Cholera

Punnett square is used for -

A. Finding genotype of offspring B. Statistical analysis

C. Anatomical surface area of human body D. Diseased & non diseased individuals

4. Ans. A. Finding genotype of offspring

5. Cavitation is seen in?

A. Mycolplasma pneumonia B. Tuberculous pneumonia
C. Streptococcal pneumonia D. Staphylococcus pneumonia

5. Ans. C. Streptococcal pneumonia

In pseudohyperparathyroidism, true is?

A. Gain of function mutation in Gsa B. Decreased conversion of GTP to GMP

C. Decreased inositol tri phosphate production D. Decreased formation of cAMP

6. Ans. D. Decreased formation of cAMP

7. Difference between follicular carcinoma and follicular adenoma is?

A. Vascular invasion B. Mitosis C. Nuclear pleomorphism D. Tubule formation

7. Ans. A. Vascular invasion

8. Which among the following is used for diagnosis of anti phospholipid antibody syndrome

A.Beta 2 microglobulin antibody B. Anti nuclear antibody

C. Anti centromere antibody D. Anti beta 2 glycoprotein antibody

8. Ans. D. Anti beta 2 glycoprotein antibody

Which is the most reliable objective sign of identifying pulmonary plethora in chest X-ray?

A. Diameter of the main pulmonay artery >16mm

B. Diameter of the left pulmonay artery >16mm

C. Diameter of the descending Right pulmonay artery >16mm

D. Diameter of the descending Left pulmonay artery >16mm

9. Ans. C. Diameter of the descending Right pulmonay artery >16mm

10. Necrotizing lymphadenitis is seen in?

A. Kimura disease B. Kikuchi disease C. Hodgkin disease D. Castelman disease

10. Ans. B. Kikuchi disease

11. NARP syndrome is seen in?

A. Mitochondrial function disorder

B. Glycogen storage disorder
 D. Lipid storage disorder

C. Lysosomal storage disorder

11. Ans. A. Mitochondrial function disorder

12. Superior vena cava syndrome is most commonly caused by?

A. Lymphoma B. Small cell lung ca C. Non small cell lung ca D. Secondary tumours

12. Ans. B. Small cell lung ca

13. Which of the following is not included in parenteral nutrition?

A. Fat B. Carbohydrate C. Fibres D. Micronutrients

13. Ans. C. Fibres

14. All are true about pheochromocytoma except?

A. 90% are malignant B. 95% occur in the abdomen

C. They secrete catecholamines D. They arise from sympathetic ganglions

14. Ans. A. 90% are malignant

Intraoperative myocardial infarction is best diagnosed by:

A. ECG B. Invasive arterial pressure

C. Central venous pressure D. Trans Esophageal echocardiography

Ans. D. Trans Esophageal echocardiography

16. ECG is poor at detecting ischaemia in areas supplied by?

A. Left anterior descending B. Left circumflex

C. Left coronary artery D. Right coronary artery

16. Ans. B. Left circumflex

17. A patient with history of discharge from right ear for past 1 year presented with severe ear ache. The discharge was cultured and the organism was found to be gram positive cocci .CT scan shows

ring enhancement The least likely cause is? A. Psuedomonas B. Streptococcus pneumoniae C. Staphylococcus D. Haemophilus influenza 17. Ans. B. Streptococcus pneumoniae A 15 day old baby came with history of seizures. Blood tests revealed Ca 5mg/dl, PO4 9mg/dl, PTH 30pg/ml (n=10-60). What is the most probable diagnosis? A. Pseudohypoparathyroidism B. Vitamin D deficiency C. Hyperparathyroidism 18. Ans. A. Pseudohypoparathyroidism Which among the following not used in diagnosis of insulinoma? A. Fasting glucose test B. Xylulose test C. C peptide levels D. Insulin / glucose ratio 19. Ans.B. Xylulose test All are true about Nesidioblastosis except? A. Hypoglycemic episodes are seen B. Occurs in adults more than children D. Diazoxide is used for treatment C. Histopathology shows hyperplasia of islet cells 20. Ans. B. Occurs in adults more than children Gold standard test for diagnosis of laryngopharyngeal reflux? B. Flexible endoscopy A. 24 hr double probe pH monitoring D. Laryngoscopy C. Barium swallow 21 Ans. A. 24 hr double probe pH monitoring Least common cause of ambiguous genitalia in a female child? A. Placental steroid sulfatase deficiency B. Fetal aromatase deficiency C. WT-4 mutation D. CAH 22. Ans. A. Placental steroid sulfatase deficiency What will you give to treat hypothyroidism in a patient with ischemic heart disease? A. Low dose of levothyroxine B. Normal dose of levothyroxine C. Do not give levothyroxine D. Thyroid extract 23. Ans. A. Low dose of levothyroxine A 35 year old female has proximal weakness of muscles, ptosis and easy fatiguability. The best test to diagnose her condition is: A. Muscle biopsy B. CPK C. Edrophonium test D. EMG 24. Ans. C. Edrophonium test Compliance is decreased in all except A. Pulmonary congestion B. COPD C. Decreased surfactant D. Pulmonary fibrosis 25. Ans. B. COPD A 70yr old presents with intemittent jerks of recent origin, EEG showing bilateral periodic spikes. What is the most probable diagnosis? A. Hepes simplex encephalitis B. Lewy body dementia C. Alzheimer's D. CJD 26, Ans. D. CJD Not a disorder of protein misfolding? A. Alzheimer's disease B. Tuberculosis C. Cystic fibrosis D. CJD 27. Ans. B. Tuberculosis A 12 year old male presents with hemetemesis, melena and splenomegaly. What is the most probable diagnosis? A. NCPF B. Cirrhosis C. Malaria with DIC D. Extra hepatic portal venous obstruction 28. Ans. D. Extra hepatic portal venous obstruction 011-42433051, 011-25853434, 9873314110, 9953550295, 8447461112, 8447461113, 8447461114

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About diabetes insipidus all true except

A.Water deprivation test is diagnostic. B.Before doing test first correct hypoaldosteronism.

C.Hypothyroidism does not affect the diagnostic test. D.Pre test serum osmolarity 288 (should be in normal range)

29. Ans. C. Hypothyroidism does not affect the diagnostic test.

30. Poor prognostic factor for ALL is?

A. Hyperdiploidy B. t(9;22) t(4;11) C. 2-8 yrs of age D. TLC < 50000

30. Ans. B. t(9;22) t(4;11)

31. The acid base status of a patient is as follows: pH - 7.45, pCO2 - 30 mm of Hg, pO2 - 105 mm of Hg. Patient has partially compensated?

A. Metabolic acidosis B. Metabolic alkalosis C. Respiratory acidosis D. Respiratory alkalosis

31. Ans. D. Respiratory alkalosis

32. A man connected to a body plethysmograph exhales against a closed glottis. What will be the finding?

A. The pressure in both the lungs and the box increases

B. The pressure in both the lungs and the box decreases

C. The pressure in the lungs decreases, but that in the box increases

D. The pressure in the lungs increases, but that in the box decreases

Ans. C. The pressure in the lungs decreases, but that in the box increases

Clue Cells are seen in :

A. Bacterial vaginosis B. Vaginal candidiasis

C. Chlamydial vaginosis D. Trichomoniasis

33. Ans. A. Bacterial vaginosis

HbH is seen in?
 Deletion of 3 alpha gene

A. Deletion of 3 alpha gene
B. Deletion of all 4 alpha genes
C. Deletion of 3 beta genes
D. Deletion of all 4 beta genes

34. Ans. A. Deletion of 3 alpha gene

35. A 50 yr lady has history of sprained ankle 2 months back followed by recovery. She now complains of severe pain in that ankle with inability to flex that foot. Physician notes edema and shiny skin in local examination.

What is the probable diagnosis: A. Fibromyalgia

B. Complex regional pain syndrome 1

C. Complex regional pain syndrome 2

D. Peripheral neuropathy

35. Ans. B. Complex regional pain syndrome 1

36. Which among the following is an early sign of magnesium toxicity?

Depression of deep tendon reflexes
 C. Cardiac arrest

B. Respiratory depression D. Decreased urine output

36. Ans. A. Depression of deep tendon reflexes

37. True about gastric carcinoma is?

A. Occult bleeding in stool is not seen B. associated with achlorhydria/hypochlorhydria

C. Always squamous cell carcinoma D. Radiosensition

37. Ans. B. associated with achlorhydria/hypochlorhydria

True in keto acidosis is.

A. Decreased HCO3 B. Increased levels of lactate C. Glucose level <250 mg /dl D. Normal anion gap

38. Ans. A. Decreased HCO3

In 7 yr old following Sx for craniopharyngioma hormone first to be given

A. Growth hormone B. Steroids C. Prolactin D. Thyroxine

39. Ans. B. Steroids

40. A Patient presents with high TSH & low T4, what could be A.Grave's disease B.Hashimoto's disease C.Pitui		
40. Ans:B.Hashimoto's disease		
41. Blood examination of a Patient revealed low serum Ca,el	evated phosphorus	& elevated PTH. Which of the
following investigation is least contributory to diagnosis? A. Urine myoglobin B. CAMP response to PTH	C. Vitamin D leve	s D. S. Creatinine levels
41. Ans. C. Vitamin D levels		
SURGERY		
 A 40yr old patient has a single kidney with an exoph the following is the best course of action? 	ytic mass of 4 cm	size at it's lower pole. Which among
A. Partial nephrectomy		ctomy with dialysis
C. Radical nephrectomy with immediate renal transwerplant	D. Observation	
Ans. A. Partial nephrectomy		
2. In a 5 year old child the burn area corresponding to		
A. 1% B. 5% C. 10% 2. Ans. A. 1%		D.20%
Most common site of obstruction after TURP? A. Navicullar fossa	nbranous urethra	D. Bladder neck
3. Ans. D. Bladder neck		
		Carried Adams of the American Street
 A young male was brought to emergency following s protruding in the umbilical area through wound ,his vitals ar 		
110/80,. The next step in the management of the patient is:	- Value of the Control of the Contro	
A.FAST B.Laparotomy C.Wound exploration & re 4. Ans. C.Wound exploration & repositioning of omentum	positioning of ome	nturn D.CECT Abdomen
Renal calculi associated with proteus infection is: A. Uric acid B. Triple phosphate	C. Calcium oxlalat	te D. Xanthine
5. Ans. B. Triple phosphate	E-100000-000000000000000000000000000000	
6. Which of the following is a contraindication for medi-	cal treatment in ga	Istones?
A. Radio opaque stones B. Radiolucent stones C. Nom 6. Ans. A. Radio opaque stones	nal functioning gall	bladder D. Small stones
6. Ans. A. Radio opaque stones		
 Which organ obtained from a cadaver is not used for A. Blood vessel B. Lung C. Liver 		D. Bladder
7. Ans. D. Bladder		D. Bladder
A young sewage worker was brought to hospital with	h history of feeling	of exhaustion abdominal pain
,vomiting ,fever & shock. His heart rate is 120/min ,respirato	ry rate is 30/min 8	blood pressure is 100/70 per
minute. His clinical features are suggestive of peritonitis. Who A.Immediately take the patient for laparotomy under GA	at is the next step	of management?
B. Take the patient for Diagnostic laparoscopy & then explo		
C. Insert an abdominal drain under LA and then for explorato D. Resuscitate the patientwith I.V. fluid &oxygen, then shift p.		DI.
laprotomy	adent for explorato	' Y
8. Ans. D.Resuscitate the patientwith I.V. fluid &oxygen,then laprotomy	shift patient for ex	ploratory
 A patient with head injury on examination revealed and pain localisation. Calculate GCS? 	eye opening in resp	onse to pain, inappropriate words
A. 10 B. 8 C. 12		D. 14
9. Ans. A. 10		
10. A 5 year old child presented with ballooning of perpo	uce while micturitio	n. Perpuce adhesions were present.
What is the best treatment for him? A. Adhesiolysis and dilatation B. Circumcision	C. Dorsal slit	D. Conservative
011-42433051, 011-25853434, 9873314110, 99535502	95, 8447461112,	8447461113, 8447461114

		mcision

During TURP, surgeon takes care to dissect above the verumontenum so as to prevent injury to? A. External urethral sphincter B. Urethral crest C. Prostatic utricle D. Trigone of bladder

11. Ans. A. External urethral sphincter

Best treatment option for genuine stress incontinence?

A. Burch colposuspension B. Kelly's procedure answer C. Sling operation D. Tension free vaginal taping

12. Ans. D. Tension free vaginal taping

A patient presents with fever and abdominal pain. Clinical examination reveals hepatomegaly extending 4 finger breadths below the costal margin. USG & CT reveals a 4cm*5cm*4cm hypoechoic & hypodense lesion 1cm deep to liver surface. Tests for hydatid disease were -ve. Best course of action is?

A. Resection of affected lobe B. Multiple percutaneous aspirations and metronidazole injection in right lobe

C .Metronidazole therapy only D.Surgical drainage of abscess & metronidazole therapy

13. Ans. C .Metronidazole therapy only

A lady who presented with hematuria on evaluation was found to have stage 2 transitional cell carcinoma of bladder. Which of the following is true?

A. 70% chance of requiring cystectomy in 5 yrs

B. Cystoscopic fulguration required in c/o recurrence

C. A 10 year history of beedi smoking is not a risk factor D. There is no role of chemotherapy

14. Ans. A. 70% chance of requiring cystectomy in 5 yrs

Medical treatment for variceal bleed is by?

A. Octreotide 15. Ans. A. Octreotide B. Pantaprazole

C. Desmopressin

D. Somatotrophin

A 55 year old man presents with history of 5 episodes of hematuria each lasting for about 4-5 days associated with clots in the past 5 years. What will be the best investigation to arrive at a diagnosis? A. Urine examination and microscopy B. X-ray KUB C. Abdominal USG

16. Ans. A. Urine examination and microscopy

A 50yr old patient presents with 2 yrs h/o recurrent abdominal pain, radiating to back, relived only by parenteral analgesic. This time pain is severe & radiating to back ,appropriate treatment procedure is?

A.vagotomy with Gastroduodenostomy

B.vagotomy with antrectomy

C.whipple procedure D.Longitudinal pancreaticojejunostomy

17. Ans D.Longitudinal pancreaticojejunostomy

Q.18 Multiple sebaceous cysts seen in:

A. Gardner's syndrome C. Muir Torre syndrome B. Turcot syndrome D. Cowden syndrome

18. Ans: A Gardner's syndrome

Q.19.A Patient presents with epigastric pain which radiates to the back and relieved by food, patient have history of such pain in past for which he was taking analgesics and in past 5 years 2 times operated for duodenal ulcer.Pain before & after surgery has been controlled with proton pump inhibitors. What could be probable diagnosis-

A. Gastric ulcer

B. Dudenal ulcer

C. Chronic pancreatitis

D. Atrophic gastritis

19. Ans: Duodenal Ulcer

Q.20. Patient having pain in epigastrium which radiates to back, serum amylase is normal, USG abdomen reveals gall stone and bulky pancreas.CT scan was done, which clinched the diagnosis.The scenario is suggestive of-A.Acute Pancreatitis B.Acute cholecyctitis C.Duodenal ulcer D. Acute Appendicitis

20. Ans: A.Acute Pancreatitis

Earliest symptom of GERD which becomes pathological in an infant is? 1.

A. Respiratory distress B. Upper GI bleed C. Regurgitation & Vomiting D.Food bolus obstruction

1. Ans. C. Regurgitation & Vomiting

It is common for infants to spit up after a meal, but frequent vomiting among infants may be caused by GERD (gastroesophageal reflux disease), the upward movement of stomach content, including acid, into the esophagus and sometimes into or out of the mouth. Older children also can be affected

In normal reflux infant just spit up after meal doesnot vomit & regurgitate. If vomiting & regurgitation present it is pathological sign.Respiratory distress is late sign.

Most important prognostic factor in congenital diaphragmatic hernia?

A. Pulmonary hypertension

B. Timing of surgery

C. Size of defect

D. Gestational age at which child was born

2. Ans. Pulmonary hypertension

A child presented with fever, mild breathlessness & non-productive cough. She was treated with course of antibiotics and she improved over 4 days and later deteriorated again with fever and more breathlessness. Chest x ray showed hyperlucency. Pulmonary function test was suggestive of obstructive airway disease. The probable diagnosis would be-

A.Bronchiolitis obliterans

B.Alveolar proteinosis

C.Post viral syndrome

D. Asthma

3. Ans. A. Bronchiolitis obliterans

Which among the following is the most common tumour associated with neurofibromatosis in a child?

A. Juvenile myelomonocytic leukemia

B.Acute lymphoblastic leukemia

C. Acute monocytic leukemia

D. Acute myeloid leukemia

4. Ans. A. Juvenile myelomonocytic leukemia

About 80% of JMML patients have some sort of genetic abnormality in their leukemia cells that can be identified with laboratory testing. This includes:

- 15-20% of patients with neurofibromatosis 1 (NF1)
- 25% of patients with mutations in one of the RAS family of oncogenes (only in their leukemia cells)
- Another 35% of patients with a mutation in a gene called PTPN11 (again, only in their leukemia cells).
- A 3.8 kg baby of a diabetic mother developed seizures 16 hours after birth. Most probable cause is? C. Birth asphyxia A. Hypoglycemia B. Hypocalcemia D. Intra ventricular hemorrhage

5. Ans. A. Hypoglycemia Hypocalcemia after 72 hours

Most common cause of meningoencephalitis in children?

A. HSV B. Enterovirus

C. Mumps

D. Listeria

6. Ans. Enterovirus

Baby born at 33 weeks with body weight1.5 kg should be started on?

A. oral and IV fluids

B. Oral nasogastric tube / alternate oral route

C. IV fluids and assessment.

D. TPN

7. Ans. B. Oral nasogastric tube / alternate oral route

A 6 year old child presents with pain in hip in femoral triangle region & limitation of movments. X-ray does

not reveal any abnormality. What is the next step? A. USG

B. MRI

C. Aspiration

D. Traction

8. Ans.MRI

Diagnosis is -Perthe's disease

Ideal age for surgery in unilateral undescended testis is?

A. 6 months

B. 12 month

C. 24 months

D. 36 months

9. Ans. A. 6 months

Pentalogy of fallot has which one of following entities:

A. ASD B. Coarctation of aorta

C. LVH

D. PDA

10.			

 A child presents with abdominal pain only during passage of stools. No other symptoms like vomiting or blood in stools. There are no signs of intestinal obstruction. Most probable diagnosis is?

A. Rectal polyp

B. Intussusception C. Meckels diverticulum

D. Necrotising enterocolitis

11. Ans. A. Rectal polyp

coarctation of aorta most commonly associated with

A.Bicuspid aortic valve

B.PDA

D.ASD

12. Ans. A.Bicuspid aortic valve

A 8 days old male infant was brought in a state of dehydration and shock. Examination revealed hyper pigmentation over the body with normal external genitalia. Blood tests revealed hypoglycemia, Na - 124 mEg/L and K - 7 mEq/L. What is the probable diagnosis?

A. Congenital adrenal hyperplasia

B. Adrenal haemorrhage and shock

C. Acute gastroenteritis with dehydration

D. Hyper aldosteronism

13. Ans. A. Congenital adrenal hyperplasia

14. A neonate delivered at 38 weeks of gestation, birth weight of 2.2kg develops intolerance to feeds on 2nd day. Physical examination reveals no abnormalities. Sepsis screen in negative. And PCV is 70%. What is the next step in management?

A. IV fluid

B. Presumptive trearment of sepsis C. Exchange transfusion D. Repeat sepsis screen

14. Ans:C Exchange transfusion

15. 1yr old child present with growth failure, dry skin and palpable thyroid, with low thyroid harmones and a high

TSH, what is cause?

A.Thyroid Dyshormonogenesis C. Central Hypothyroidism

B.Thyroid Dysgenesis

Ans. A. Thyroid Dyshormonogenesis

D. TSH Receptor blocking antinody

Obstt& Gyne

In expectant management of placenta praevia, all are done except? ical encirclade B. Anti D administration

A. Cervical encirclage

C. Corticosteroids administration

D. Blood transfusion

1. Ans. A. Cervical encirclage

Best test/Gold standard test for assesing HCG function

A. Radioimmunoassay

B. ELISA

C. Latex test

D. Bioassay

2. Ans. A. Radioimmunoassay

Causes of primary amenorrhoea are all except?

A. Rokintasky syndrome B. Kallaman syndrome

C. Sheehan syndrome D.Turner syndrome

3. Ans. C. Sheehan syndrome

Which of the following is not a contraindication for pregnancy?

A. WPW syndrome

B. Pulmonary hypertension

C. Eisenmenger syndrome

D. Marfan syndrome with aortic root dilatation

4. Ans. A. WPW syndrome

Weight gain in pregnancy is related to all except?

A. Ethnicity

B. Smoking C. Socioeconomic status

D. Pre conceptional weight

5. Ans. B. Smoking

Regarding PCOD, all are true except?

A. High LH/F5H B. High DHEAS C.Markedly high prolactin

D. Raised LH

6. Ans. C.Markedly high prolactin

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Best marker for intrahepatic cholestasis of pregnancy is? A. Bile acids B. Liver enzymes(AST & ALT) C. Bilirubin D. Alkaline phosphatase 7. Ans. A. Bile acids Feature of obstructive azoospermia is? A. High FSH, high testosterone B. Low FSH, high testosterone C. High FSH, low testosterone D. Normal FSH, normal testosterone 8. Ans. D. Normal FSH, normal testosterone Which of the following contraception method is contraindicated in women with epilepsy? B. IUCD C. Condom A. Oral Contraceptive pill D. Mifepristone 9. Ans. A. Oral Contraceptive pill Low dose oral contraceptive pill contains? D. Norethihisterone A. Levonorgestrel B. Norgestrel C. Desogestrel 10. Ans. C. Desogestrel Mother to baby transwermission of HIV can be minimised by all except? 11. B. HAART C. Vaginal delivery D. Avoidance of breast feeding A. Zidovudine 11. Ans. C. Vaginal delivery A primigravida at 37 weeks of gestation presents with 1 cm dialated cervix which is uneffaced, uterine contractions & pain suggestive of labour since 10 hrs., What is management? A. Sedate the patient and wait B. LSCS C. Amniotomy D. Induction with membrane rupture 12. Ans. A. Sedate the patient and wait A primigravida in 1st trimester had sputum positive for acid fast bacillus. What is the preferred A. Treatment deferred till 2nd trimester B. Category 1 DOTS C. Category 2 DOTS D. Category 3 DOTS 13. Ans. B. Category 1 DOTS A 45 year old lady presented with DUB & USG finding of 8mm thick endometrium. What is the next step? B. Hysterectomy C. OCP A. Endometrial histopathology D. Follow up 14. Ans. A. Endometrial histopathology Fallopian tube dysmotility is seen in? A. Churg strauss syndrome B. Kartagener's syndrome C. Noonan syndrome D. Turner syndrome 15. Ans. B. Kartagener's syndrome Best marker for open nural tube defect. B.Pseudocholinesterase C.AFP A.Acetylcholinesterase D.HCG 16. Ans. A.Acetylcholinesterase All of the following are done in management of shoulder dystocia except? A. Maurieauceli veit maneuver B. Suprapubic pressure C. McRoberts maneuver D. Woods maneuver 17. Ans. A. A. Maurieauceli veit maneuver Which of the following are not associated with menstrual cycle? B. Vaginal cytology changes C. Estrus profile D. Endometrial changes A. Hormonal changes 18. Ans. C. Estrus profile Confined Blood Chimerism is associated with? A. Dichorionic diamniotic twins

B. Monochorionic diamniotic twins

C. Signilaton pregnancy

D. Monochorionic Monoampiotic twins D. Monochorionic Monoamniotic twins C. Singleton pregnancy

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19. Ans. B. Monochorion	ic diamniotic twins		
20. Which of the fol A. Ethamsylate	lowing is not an evidence B.OCP	based treatment for menorrhi C.Tranexamic acid	agia? D. Progesterone
20. Ans. A. Ethamsylate			
21. True regarding of A. Culture of endocervice B. Patient using OCP's ar	chlamydia is? al discharge can be used e at higher risk for Chlan ydia infections are asymp		
21. Ans. B. Patient using	OCP's are at higher risk	for Chlamydia infection	
	with XO genotype and Pri B. Androgen insensitivi	mary amenorrhoea.What is m ity syndrome. C. MRKH	
22. Ans:A Gonadal dysge	enesis		
DERMATOLOGY Q.1 Pseudoisomorphic pl A. Psoriasis	nenomenon is seen in - B. Lichen planus	C. Vitiligo	D. Plane warts
L. Ans: D Plane warts			
Q. 2.Cicatrising alopecia A. Nail dystrophy C. Arthritis	B. W	ay pathches is most commonl hitish lesion in the buccal muci scoid Plaques in the face	
2. Ans: B. Whitish lesion	in the buccal mucosa		
Q.3 Erythema nodosum i A. Pregnancy 3. Ans: D Chronic pancre	B. Tuberculosis	C. SLE	D. Chronic pancreatitis
Q.4 . A young male pres	ented with history of feve eutrophillic infiltrate in the B. Ro	er and a nodule in the leg. Hist e dermis. Most probable diagno osai Dorfman disease rthema nodosum	opathology of the nodule revealed sis is?
I. Ans: D.erythema nodo	osum		
Q.5. A man presents wit the condition is:	th maculopapular rash 2v	veeks after having a painless	genital ulcer.Causative organism o
A.Treponema pallidum	B.Chlamydia	C.C.granulomatis	D.H.ducreyi
5. Ans:A Treponema pall	idum		
ANESTHESIA			
L. Spinal anaesthe A. L1-2	sia is given at which leve B. L3-4		D. Midline thoracic segments
I. Ans. B. L3-4			
2. Epileptic potenti A. Desflurane	al is present in B. Halothane	C. Sevoflurane	D. Ether
2. Ans C. Sevoflurane			
posted for cholecystector	my?	Contractor American Contractor Contractor	with hypertension who is being
A. Ketamine	B. Propofol	C. Etomidate	D. Midazolam

3. Ans. A. Ketamine						
True about spinal opioids are all except? A. Acts on dorsal horn substantia gelatinosa C. Intestinal motility is decreased		B. Can cause Itching D. Can cause respiratory depression				
4. Ans. C. Intestinal moti	lity is decreased					
to be done in manageme A. Pouring sterile water in		B. Removin	under general g endotracheal nt with steroid	tube		
5. Ans. C. 100% oxygen	after discontinuing anesthe	etic gases				
	c modality is to be avoided					
A. General anesthesia	B. Brachial plexus block	C. IV regional anest	hesia	D. Spinal		
6. Ans C. IV regional ane	sthesia					
	male underwent surgery. Prery discomfortable feeling					
A. Pulse oximetry		C. Bispectral index	D. End ti	dal CO2		
7. Ans. C. Bispectral inde	x /0					
sudden rise in end tidal A. Anaphylaxis C. Thyroid storm 8. Ans. A. Anaphylaxis	ack	cept: B. Malignant hyperti D. Neuroleptic malig	nermia inant syndrome e patient had su	2 111		
A. Nasotracheal tube 10. Ans. C. LMA		C. LMA D.	Cricothyroidoto	omy		
	nt with vasoconstrictor pro B. Spinal block C. Epid			thesia for bronchoscopy		
11. Ans. A. Finger block						
RADIOLOGY						
	astasis of bone can be best B. Bone scan		Intravenous ve	enogram		
1. Ans. B. Bone scan						
Dose of radiation A. 2 to 5 Gy	n required for development B. 10 Gy	c of haematological sys C. 100 Gy D.				
3. Ans. A. 2 to 5 Gy						
	e following is preferred in	a patient with decreas	ed renal functio	n to avoid contrast		
nephropathy? A. N acetylcysteine B. Fenoldopam		C. Low osmolar contrast media D. Mannitol				

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3.	Ans. C. Low osmolar c	ontrast media						
4.	Earliest to be did	agnosed by USG is	37					
	Anencephaly	B. Prosencephal	Y	C. Meningocele		D. Spina bifida		
4.	Ans. A. Anencephaly							
5	Aortic knob shil	louette on chest X	ray PA	iew is obliterated by	v consol	idation of which portion of lung?		
	Apicoposterior segmen			B. Superior lingual				
	Apical segment of left					nt of left upper lobe		
_	represe segment or rere	TOTAL TODA		D. america migutas	Jeginei	to the appearance		
5.	Ans. A. Apicoposterior	segment of left up	pper lobe					
6.	CT scan is least	accurate for diagn	nosis of:					
A.	1 cm size aneurysm in 1 cm size mass in tail	hepatic artery		B. 1 cm size lymph node in para aortic region				
				D. 1 cm size gall stone				
6.	Ans. D. 1 cm size gail	stone						
7	Differentiation	feature of ASD fro	m VSD in	Chest X-ray?				
Differentiating feature of ASD from VSD in Chest X-ray? A. Pulmonary hypertension B. Absence of left atrium enlargment					enlargment			
			D. Aortic shadow					
9								
7.	Ans. B. Absence of lef	t atrium enlargme	ent					
8.	Which of the foll	lowing is true abou	ut contras	t.radiography				
A.					ule to so	plute particle ratio is 3:2.		
В.	Injection into artery is	associated with 3	times mo	ore complication that	n injecti	on into a vein		
	Test dose should be pe			on is suspected				
D.	Gadolinium DTPA cross	ses blood brain bar	rrier					
8.	Ans. A. In conventiona	I monomeric iodin	ated cont	rast media the iodin	ne molec	cule to solute particle ratio is 3:2		
D	SYCHIATRY		, III					
_	SICHIAIRI		` III -					
1.	Antidepressant (drug that can be u	sed in no	cturnal eneursis, AD	HD & ch	pronic pain		
	Imipramine			C.Bupropion		D.Fluvoxamine		
	5000 5 000 500 500 50			The second secon				
1.	Ans. A. Imipramine							
2.	A female patient	presented with d	epressed	mood, loss of appet	ite and	no interest in surroundings. There		
is	associated insomnia. T	he onset of depres	ssion was	preceeded by a hist	tory of b	usiness loss and immediately soon		
	ter it she developed the				ch of the	following is true-		
	No treatment is neces							
	SSRI is the most effica-							
	Start antidepressant d			de effect profile				
D.	Combination therapy	of 2 anti depressar	nt drugs					
2.	Ans. C. Start antidepre	essant drug treatm	ment base	ed on side effect pro	file			
3.	Regarding an im	becile, all are true	except?					
	10 is 50-60	manufacture or or or or			ivalent t	o a child of 3-4 years of age		
C.	Not able to take care	of themselves	D. Cond	ition is congenital or	r acquir	ed at an early age		
3.	Ans. A. IQ is 50-60							
2.3								
						opioid dependence?		
Α.	Naloxone	B. Methadone		C. LAAM		D. Pethidine		
4.	Ans. B. Methadone							
_	Most common C	auso of promotive	dooth in	schizonheonia?				
	Most common C Homicide				drug	D. Hospital acquired infections		
19.	Homicide	D. SUICIUE	C. TUXIC	ity or anupsychotic	urug	D. Hospital acquired injections		
5.	Ans. B. Suicide							
6.	Which among the	e following is not	used to tr	eat alcohol depende	ence?			
A		B. Acamprosate				D. Disulfiram		

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- 6. Ans. A. Flumazenil
- All are true about delirium tremens except?

A. Visual hallucinations B. Coarse tremors C. Third Nerve palsy D. Confusion

- 7. Ans. C. Third Nerve palsy
- 8. Mr X is a chronic smoker. His family insists on quitting smoking. He is thinking about quitting, but is reluctant to do so because he is worried that on quitting he will become irritable. According to health belief model state of patient is?

A. Precontemplation and preparation

B. Contemplation and extent of sickness susceptability

C. Contemplation and cost

D. Precontemplation and cost

8. Ans. C. Contemplation and cost

Ortho

 A 65 yrs old lady presented with a swollen and painful knee. On examination, she was found to have grade III osteoarthritic changes. What is the best treatment option?

A. Conservative management

B. Arthroscopic washing

C. Partial knee replacement

D. Total knee replacement

Ans D. Total knee replacement

Grade III always do total knee replacement.

Most common nerve injured in supracondylar fracture humerus?

a. Median

b. Radial

Ulnar

d. Anterior interosseus nerve

2. Ans. d. Anterior interosseus nerve

References:

The elbow and its disorders By Bernard F. Morrey, Joaquin Sanchez-Sotelo, Page 226 Skeletal trauma in children, Volume 3 By Neil E. Green, Marc F. Swiontkowski, Page 212

The order is Anterior Interosseus Nerve> Median > Radial > Ulnar

- Nerve injuries occur in about 40% of type III (Gartland's classification) supracondylar fractures
- Earlier literature stated that radial nerve was the most commonly injured nerve in supracondylar fractures
- But recent studies indicate that the anterior interosseous branch of median nerve is mostly affected

Nerve involvement differ with the type of fracture

Anterior interosseous nerve is mostly affected during posterolateral displacement of the distal fragment Radial nerve is mostly affected with posteromedial displacement Ulnar nerve is involved in flexion type of supracondylar fracture

Blount's disease is:

A. Genu valgum B. Genu varum C. Genu recurvatum D. Menisceal injury

3. Ans. B. Genu varum

Blount's disease

Tibia vara

Blount's disease is a growth disorder of the shin bone (tibia) in which the lower leg turns inward, resembling a bow leg.

Causes, incidence, and risk factors

Blount's disease occurs in young children and adolescents. The cause is unknown but is thought to be due to the effects of weight on the growth plate. The inner part of the shin bone, just below the knee, fails to develop normally.

Unlike <u>bowlegs</u>, which tend to straighten as the child develops, Blount's disease slowly gets worse. It can cause severe bowing of one or both legs.

This condition is more common among African-American children. It is also associated with obesity and early walking.

Genu recurvatum is a deformity in the knee joint, so that the knee bends backwards. In this deformity, excessive extension occurs in the tibiofemoral joint. Genu recurvatum is also called knee

hyperextension and back knee. This deformity is more common in women and people with familial ligamentous laxity

A Teenaged girl complains of pain in knee on climbing stairs and on getting up after sitting for a long time. What is the probable diagnosis?

A. Chondromalacia patellae

C. Bipartite patella

B. Plica syndrome

D. Patello-femoral osteoarthritis

4. Ans. A. Chondromalacia patellae

Chondromalacia patella

Patellofemoral syndrome; Knee pain - chondromalacia

Chondromalacia patella is the softening and breakdown of the tissue (cartilage) that lines the underside of the kneecap (patella).

It is a common cause of anterior knee pain.

Chondromalacia of the patella occurs in adolescents and young adults.

The condition is more common in females. It can be related to the abnormal position of the knee. Symptoms

- A grating or grinding sensation when the knee is flexed (moved so that the ankle is brought closer to the back of the thigh)
- Knee pain in the front of the knee that occurs when you get up after sitting for a long period of time
- Knee pain that worsens when you use stairs or get out of a chair

Plica syndrome of the knee is a constellation of signs and symptoms that occur secondary to injury or overuse. An otherwise normal structure, a plica can be a significant source of anterior knee pain.

Bipartite patella-

A bipartite patella occurs when the patella, or kneecap, occurs as two separate bones. Instead of fusing together in early childhood, the patella remains separated. A bipartite patella is usually not a problem; it occurs in at least 1 percent of the population, and perhaps more.

- First structure to be fixed after amputation is?
- A. Bone fixing
- B. Arterial repair
- C. Venous repair
- D. Nerve repair.

5. Ans. A. Bone fixing

Replantation

The goal of replantation (commonly known as re-implantation or re-attachment surgery) after traumatic amputation is successful restoration of function. Simply returning circulation to an amputated part does not in itself define success. The aim of the both the patient and the surgeon is useful function - replantation of a part that will not perform useful activity should be avoided.

Bone Fixation (Osteosynthesis)

If the part is deemed to be replantable, bone fixation is performed first. Most commonly, fixation with kwires is performed.

Tendon Repair

After bone fixation is performed, the dorsal extensor tendon (above) and flexor tendon (below) are repaired. With all the "macro" structures repaired - bone, extensor and flexor tendon - attention is then turned to the microsurgical portion of the procedure.

Microsurgical Artery and Nerve Repair

The microsurgical repair of an artery can now be performed with the operating microscope. A digital vessel, which is approximately 1 millimeter in size, can be repaired with 6 to 8 sutures of nylon. Removal of the vascular clamps reveals whether circulation can be re-established to the finger.

Microsurgical Vein Repair

Attention is then usually turned to the dorsal aspect of the finger where the venous system is present that drains blood from the finger. Usually one or occasionally two veins are repaired with the operating microscope. The veins are often much smaller and more fragile than the arteries and hence more prone to clotting post-operatively.

Skin Closure and Splinting

The skin is then closed, often with a skin graft, depending on the swelling and the nature of the injury. The hand is usually placed in a splint and the patient is monitored closely for circulatory changes in the finger during the post-operative period.