

**GoldStandard FCPS:**

**Medicine & Allied**

**23April 2019 Night** 

**(Errors and omissions excepted)**

**Cram Statements**

 **drug causes increase in heart rate when given in therapeutic dose?-----> Pethidine**

pethidine raises the diastolic pressure by 10 per cent and the heart rate by 15 per cent; with pethidine the increases are not sustained but tend to fluctuate.

* **drug receptor:-----> Protein in nature**

Receptors are proteins located within the cell surface membrane, nucleus membrane or other cellular organelle membrane. They can bind to corresponding ligands to initiate cellular signaling pathways

* **Fast pain is mediated by which fibres?-----> A delta**

the afferent fibers that carry pain impulses are the faster, large myelinated A deltafibers and the slower, small unmyelinated C fibers

* **fibers of adrenal medulla:-----> Post ganglion sympathetic nerve**

The adrenal medulla has a high content of catecholamines Importantly, its chromaffin cells share features with postganglionic sympathetic neurons of the autonomic nervous system

* **fisherman presented with swelling of gums and purpura. Vit deficency----->     Vit C**

Scurvy is a condition characterised by general weakness, anaemia, gingivitis (gumdisease), and skin haemorrhages caused by a prolonged deficiency of vitamin C(ascorbic acid) in the diet. Vitamin C plays a crucial role in the formation of collagen, a major component of connective tissue.

* **hemoptysis and histology shows small cells clusters (morphology of neoplastic cells). Diagnosis?-----> Smoking**

Features of Lung Malignancy

* **Investigation that confirms HIV in adults?
-----> Western blot**

The Western blot test separates the blood proteins and detects the specific proteins (called HIV antibodies) that indicate an HIV infection. The Western blot is used to confirm a positive ELISA, and the combined testsare 99.9% accurate.

* **lesion of the cerebellum?-----> Adiadochokinesia**

The classic cerebellar motor syndrome includes a broad array of signs, with the most commonly noted being dysmetria, asynergia or dyssynergy, a- or dysdiadochokinesia, overshoot/impairment of the check reflex, tremor, oculomotor abnormalities, speech disturbances, abnormalities of posture and gait, and hypotonia

* **lymphadenopathy and Hepato-splenomegaly, anemia and fatigue. On Peripheral blood film unicellular structure can be seen The diagnosis is?-----> Kalazar**

Kala-azar can cause no or few symptoms but typically it is associated with fever, loss of appetite (anorexia), fatigue, enlargement of the liver, spleen and nodes and suppression of the bone marrow. Kala-azar also increases the risk of other secondary infections

* **Middle meningeal artery is a branch of?-----> 94. Middle meningeal artery is a branch of?**

 middle meningeal artery  is typically the thirdbranch of the first portion of the maxillary artery, one of the two terminal branches of the external carotid artery.

* **mother with O-ve blood group:-----> Both anti-A, ar ti-B antibodies in her blood**

A, B, AB and O. Your blood group is determined by the genes and ultimatley by the antigens in your blood. blood group O – has no antigens, but both anti-A and anti-B antibodies in the plasma;

* **Patent lumen of Allantois form?-----> Urachal fistula**

The urachus is a fibrous remnant of the allantois Patent urachus forms a sinus and ultimatley urachal fistula

* **PDA is a persistent part of -----> 6th arch**

The proximal part of the sixth right arch persists as the proximal part of the right pulmonary artery while the distal section degenerates; The sixth left arch gives off the leftpulmonary artery and forms the ductus arteriosus

* **primary peristalsis:-----> Esophageal sphincter relaxes ahead of primary peristalsis**

Primary peristalsis as recorded by an intraluminal manometry catheter. Pharyngeal contraction coincides with relaxation of the upper esophageal sphincter (UES

* **progressive difficulty in accommodating for seeing near. Cause is?-----> Stiffness of lens**

Presbyopia is a normal part of the aging process. It occurs due to hardening of the lens of the eye, causing the eye to focus light behind rather than on the retina whenlooking at close objects

* **pt with 5cm opacity in left lower lung lobe, cause is----->     Asbestosis**

cified diaphragmatic irregular opacities, usually in themidlung and lower lung zone are characteristic of pneumoconiosis (asbestosis)

* **Pt with SOB and pink fluid with no RBC and WBC in alveoli occurs in?-----> CCF**

Pulmonary edema is a condition caused by excess fluid in the lungs. ... Pink, frothy sputum when you cough and breathlessness.

* **Pyruvate generated by glycolysis must enter the mitochondria to be oxidized as?
-----> Pyruvate dehydrogenase is
a mitochondrial enzyme**

Pyruvate is produced by glycolysis in the cytoplasm, but pyruvate oxidation takes place in the mitochondrial matrix (in eukaryotes). So, before the chemical reactions can begin, pyruvate must enter the mitochondrion, crossing its inner membrane and arriving at the matrix. It is carried out by pyruvate dehydrogenase (a mitchondrial enzyme)

* **Side effect of histamine H1 antagonists is?----->     Sedation**

the older first generation H1-antihistamines penetrate readily into the brain to causesedation, drowsiness, fatigue and impaired concentration and memory causing detrimentaleffects on learning and examination performance in children and on impairment of the ability of adults to work and drive

* **Structure projecting from
renal cortex in between renal pyramids is-----> Renal column**

 renal column (or Bertin column, or column of Bertin) is a medullary extension of the renal cortex in between the renal pyramids. It allows the cortex to be better anchored

* **sub mandibular salivary gland surgery, nerve injured?-----> Marginal mandibular branch of facial nerve**

When below the angle and body of the mandible, its maximum distance was found to be 1.6 and 1.4 cm, respectively. Therefore, in order to avoid damage to themarginal mandibular branch of the facial nerve, the submandibular incision should be planned 1.6 cm or more below the lower border and angle of the mandib

* **tumor marker for CA colon is?-----> CEA**

Carcinoembryonic antigen (CEA) level is the tumor marker most often used incolorectal cancer.

* **% of water intracellular?-----> 30-40%**

The distribution of this water is 40% in intracellular space (30% in females due to larger amounts of subcutaneous tissue and smaller muscle mass) and 20% in extracellularspace.

* **. Lyme disease is caused by?-----> Spirochete**

Lyme disease is a tick-transmitted infection caused by the spirochete Borrelia spp. Early symptoms include an erythema migrans rash, which may be followed weeks to months later by neurologic, cardiac, or joint abnormalities.

* **. Post-op wound causes-----> Pseudomonas**

causative agent of postoperative infections was P. aeruginosa, followed by E.coli

* **152. A postmenopausal
woman is on HRT complication risk
-----> Thromboembolism**

HRT brings 2–4-fold risk of venous thromboembolism (VTE) which includes deep vein thrombosis, pulmonary embolism, and stroke.

* **3rd heart sound is produced due to?-----> Rapid ventricular filling.**

The third heart sound (S3), also known as the “ventricular gallop,” occurs just after S2 when the mitral valve opens, allowing passive filling of the left ventricle. The S3 sound is actually produced by the large amount of blood striking a very compliant left ventricle.

* **5-HIAA is increased in?-----> Carcinoid syndrome**

HIAA is increased in untreated patients with malabsorption, who have increased urinary tryptophan metabolites. ... Carcinoid tumors may cause increased excretion of tryptophan

* **80% oxygen saturation is in? -----> Umbilical vein**

Blood from the placenta passes back to the fetus through the umbilical vein, which has an oxygen saturation of approximately 80% compared with the 98% saturationin the arterial circulation of the adult.

* **A boy epistaxis with PT 13
ARTT 62 sec and BT 7 min. defect?
-----> Intrinsic pathway**

Defects in the intrinsic pathway coagulation factors (factors VIII, IX, and XI) are associated with a significant bleeding tendency. The X-linked recessive disorders, hemophilia A (factor VIII) and B (factor IX), causing these findings

* **A factor which is precursor to the carrier of 1-carbon fragments at various levels of oxidation
-----> Biotin**
* **A lady came with dysphagia to liquids only. Laryngoscopy done, biopsy revealed normal histology. Diagnosis is?----->     Loss of neuromuscular co­ordination**

Dysphagia to liquids, in particular, is a characteristic of achalasia i.e a failure of smooth muscle fibers to relax

* **abdominal bloating and foul smelling stools. Investigation-----> Stool DR**

Diarrhea, bloating, orflatulence may occur with foul-smelling stools.which can be observed with infection with Giardia lamblia. Stool examination is ecessary to confirm

* **About platelet count 1200?-----> Essential thrombocythemia**
* **abundant mucinous glands with few serous glands and also few ducts were seen.
The gland is -----> Submandibular**

ubmandibular glands have a mixture of mucous and serous acini. Mucous acini stain more weakly than serous acini, because of the techniques used to produce the sections

* **Acute hemorrhage, effect on blood supply of kidney?-----> Decrease blood flow from medulla to cortex per gram size of kidney**

acute hemorrhage, dexmedetomidine determined better renal function, but higher tubular dilation scores.

* **Amenorrhea during lactation. Cause is?
----->**

hyperprolactinemia is often associated with amenorrhea, a condition that resembles the physiological situation during lactation (lactational amenorrhea). Excess PRL may inhibit the menstrual cycle directly, by a suppressive effect on the ovary, or indirectly, by decreasing the release of GnRH

* **Anterior surface of heart formed by?-----> Right ventricle**

Anterior (Sternocostal) surface: It is formed mainly by the right atrium and right ventricle. They are separated from each other by the vertical atrioventricular groove. The right border of the anterior surface is formed by the right atrium while the left border is formed by left atrium and part of left auricle.

* **Antidepressant safe in liver disease is?-----> Fluoxetine chloride**

 For patients with CLD and hepatitis C, selective serotonin reuptake inhibitors (SSRIs) appear to be the safest class of antidepressants

* **Articular cartilage most commonly in?-----> Ends covered synovial joints**

Features of synovial joints include:Articular cartilage on apposing ends of bones.

* **Asthma and seasonal rhinitis decrease these symptoms?
-----> Mast cell stabilizer**

Mast cell stabilizers are chromone medications used to prevent or control certain allergic disorders. They block mast cell degranulation, stabilizing the cell and thereby preventing the release of histamine and related mediators.

* **At Mc Burney’s point during appendectomy, the structure damaged is?
-----> Iliohypogastric nerve**

injury to the ilioinguinal and iliohypogastric nerves after a McBurney's incision have been reported to cause paralysis of the conjoint tendon that may lead to the development of an indirect inguinal hernia. It is few mm away from point

* **At sea level, PCO2 21, PO2 89, Bicarb 18.3 and pH 7.32. Diagnosis?
----->     Partially compensated metabolic acidosis**

Metabolic acidosis is due to alterations in bicarbonate, so the pCO2 is less than 40 since it is not the cause of the primary acid-base disturbance. In metabolic acidosis, the distinguishing lab value is a decreased bicarbonate (normal range 21 to 28 mEq/L).

* **ATT for 2 months now presented with moderately elevated ESR. Cause?-----> Superimposed bacterial infection**

 studies have documented ESR values associated with the bacterial infection. Tb is a chronic bacterial infection, in presense of ATT it can show superimposed infection

* **Bernard-Soulier syndrome:
-----> Platelets don’t bind with ristocetin**

Bernard–Soulier syndrome (BSS), is a rare autosomal recessive bleeding disorder that is caused by a deficiency of glycoprotein Ib (GpIb), the receptor for von Willebrand factor.

* **Beta-HCG preserve-----> Corpus luteum**

Human chorionic gonadotropin signals the corpus luteum to continue progesterone secretion, thereby maintaining the thick lining (endometrium) of the uterus and providing an area rich in blood vessels in which the zygote(s) can develop. From this point on, the corpus luteum is called the corpus luteum graviditatis.

* **bile duct obstruction in pregnancy. investigation -----> GGT**

Bile duct obstruction occurs in cholestasis of prenancy women suffering from viral hepatitis in early pregnancy have higher levels of serum GGT . pregnant women with higher serum GGT during early‐middle pregnancy have higher risk of developing GDM.

* **Bitemporal hemianopia. Lesion is at?----->     Optic chiasma**

Bitemporal hemianopsia (or Bitemporal hemianopia) is the medical description of a type of partial blindness where vision is missing in the outer half of both the right and left visual field. ... Bitemporal hemianopsia most commonly occurs as a result of tumors located at the mid-optic chiasm

* **Bony landmark for pudendal nerve block is?-----> Ischial spine**

The anesthesia is produced by blocking the pudendal nerves near the ischial spine of the pelvis.

* **bronchodilation through adenylyl
cyclase?
-----> Salbutamol**

The tertiary butyl group in salbutamol makes it more selective for β2 receptors, which are the predominant receptors on the bronchial smooth muscles. Activation of these receptors causes adenylyl cyclase to convert ATP to cAMP, beginning the signalling cascade

* **bronchopulmonary segment -----> Each segment has its own 1 blood supply**

A bronchopulmonary segment is a portion of lung supplied by a specific segmental bronchus and arteries.

* **case of gastric ulcer. The nerve most likely to be mediating this referred visceral pain is?-----> Greater splanchnic**

The referred visceral pain is supplied by gastric splanchnic nerve fibers innervating the stomach.

* **cause of edema in liver cirrhosis is due to deficiency of?-----> Albumin**

. Ascites is common in people with cirrhosis and it usually develops when the liver is starting to fail synthesis of protiens e.g albumin. In general, the development of ascites indicates advanced liver disease

* **Cerebellum is connected to midbrain by?----->     Superior cerebellar peduncle**

 the superior cerebellar peduncle (brachium conjunctivum) is a paired structure of white matter that connects the cerebellum to the midbrain.

* **child suddenly died while playing. On autopsy, coronary artery aneurysm was seen. Diagnosis is?-----> Kawasaki disease**

Kawasaki disease (KD) is the leading cause of acquired heart disease in children ... The acute phase of the illness is self -limited and the diagnosis may be missed. ... with theaneurysms and are at risk of myocardial infarction, sudden death on exercise

* **Cimetidine-sucralfate interaction?-----> Sucralfate doesn't let cimetidine get absorbed**
* **Clavulinic acid is mixed with ampicillin because-----> Inhibit Beta lactamase**

Combination of a β-lactamase inhibitor (i.e., sulbactam or clavulanic acid) with ampicillinor amoxicillin offers the theoretical advantage of expanding the activity of the aminopenicillin against β-lactamase– producing bacteria, such as methicillin-susceptible S. aureus, coliform bacilli, and some anaerobes.

* **collagen in Periodontal ligament?-----> Type 1**

Periodontal ligament (PDL) is a specialized soft connective tissue that attaches the tooth to the alveolar bone socket. ... The mechanical properties of PDL are, thus, very important for these functions and they are mainly derived from the primary extracellular matrix protein; fibrillar type I collagen

* **Councilman bodies are found. Which is the probable diagnosis?-----> Yellow fever**

the presence of Councilman bodies in a liver biopsy is thought to be sufficient evidence for a diagnosis of yellow fever.

* **CRF pt with hypocalcemia and hyperphosphatemia. Test?-----> 25 hydroxyl D**

hypocalcemia in chronic renal failure is due to two primary causes - increased serum phosphorus and decreased renal production of 1,25 (OH)2 vitamin D

* **decrease breath sound on left side and normal breath on right side, What is the likely cause?-----> Pleuroperitoneal defect**

congenital diaphragmatic hernia occurs due to defect in diaphrga. gut loops can be seen in chest cavity upon Xray causing difficulty in breathing

* **Definitive test for diagnosis of TB is?-----> AFB**

 diagnostic gold standard for active tuberculosis (TB) is the detection of Mycobacterium tuberculosis (MTB) by culture or molecular methods

* **Diagnosis of typhoid in 1st week is done by?----->     Blood C/S**

 typhi maximally isolated from blood in the first weekof disease; from faeces in the second and subsequent weeks and urine in the third and fourth weeks3.

* **dialysis. Which of following test is required to decide for dialysis or transplant?-----> Creatinine clearance**

Renal function tests monitor need for dialysis

* **Difference b/w Anaphvlactic and hypovolemic shock is?----->     CO**

hypovolemic shock (e.g., following massive blood or fluid loss), and shock due to a disturbance in the fluid distribution in the body (septic, anaphylactic, and neurogenic shock). The common clinical findings arehypotension and tachycardia, accompanied by specific symptoms related to the cause of shock

* **DOC for Taenia Solium pork worm infestation?-----> Praziquantel**

Praziquantel is well tolerated and extensively absorbed. It kills adult intestinalworms in a single dose,

* **Drug contraindicated in hypertrophic cardiomyopathy is?-----> Digoxin**

Agents to reduce pre- or afterload (such as nitrate, ACE inhibitors, nifedipine-type calcium antagonists) are contraindicated with HOCM due to possible aggravation of the outflow tract obstructio

* **Early diastolic murmur, Very wide pulse pressure. Diagnosis?
-----> Aortic regurgitation**

[In acute Aortic regurgitaion, pulmonary edema occurs due to increased flow in left heart side. in chronic AR, LV impairment and heart failure occurs and increased pulse prssure is seen.S3, Absent S1 and Austin flint murmur are common signs](https://www.msdmanuals.com/professional/cardiovascular-disorders/heart-failure/pulmonary-edema)

* **Erythropoietin is increased in?----->     High altitude**

 increase in RBC mass is a natural feature of altitude acclimatization. Hypoxia-inducederythropoietin (EPO) secretion begins hours after ascent and stimulates bone marrow production of red blood cells,

* **feature of hemophilia is?-----> Tissue bleeding**

 Intracranial hemorrhage and hemorrhages into the soft tissue around vital areas due to deficiency of clotting fators

* **Femoral pulse is palpated at?-----> Mid inguinal point**

The site for optimally palpating the femoral pulse is in the inner thigh, at the mid-inguinal point, halfway between the pubic symphysis and anterior superior iliac spine.

* **femur fracture and blood loss. BP 80/60 and low GFR. Cause?-----> Decrease Arterial blood
pressure**

Uncontrolled post-traumatic bleeding is the leading cause of potential hypotension and shock

* **First line of defense against microbial pathogens is?-----> Skin**

The skin, as the primary interface between the body and the environment, provides a first line of defence against microbial pathogens and physical and chemical insults.

* **First pass metabolism can be avoided a-----> Sublingual**

The buccal route of administration is a good alternative for drugs that are unstable in gastric fluids and those that are severely affected by first-pass metabolism

* **Fracture tibia, Later he develops crepitus and and is hypotensive. Cause is?

-----> Toxemia**

 The typical symptoms and signs of Necrotizing fascitis on a sture site are as follows: the wound develops tense edema extending beyond the margin of erythema with a wood-like feel, bullae, discoloration progressing to grey and necrotic skin, crepitus, and a broad erythematous tract in the skin along the route of the infection

* **Functional components of tastes sensation are?-----> Special visceral afferent**

Special visceral afferent fibers (SVA) are the afferent fibers that develop in association with the gastrointestinal tract. They carry the special senses of smell (olfaction) and taste (gustation).

* **Gastroesophageal junction competence is increased by?
-----> Use of Metoclopramide**

metoclopramide augments gastrointestinal motility and enhances gastric emptying, and also increases lower esophageal sphincter (LES) tone.

* **Genetic disease most frequent is?
-----> Multifactorial**

Multifactorial geentic disorser are diseases that are due to a complex interaction of genetic factors, such as copy number variation, epistatic interactions, and modifier effects, as well as various environmental factors.

* **Growth hormone inhibits the action of?-----> Insulin**
* **Insulin inhibits the release of growth hormone**
* **Growth hormone is stimulated mostly by?----->     Strenuous exercise**

 A number of physiological stimuli can initiate hGH secretion, the most powerful, non-pharmacological of which are sleep and exercise.

* **healthy individual is he who?
-----> Eats, sleeps, and exercises
regularly and lead a
' disciplined life**
* **Heat conservation is by?-----> Cutaneous vasoconstriction**

Shrinking the diameter of blood vessels that supply the skin, a process known as vasoconstriction, reduces blood flow and helps retain heat.

* **Her pap smear shows prominent nuclei and increased nucleus size. Diagnosis?-----> Dysplasia**

an HPV infection, it can causecells inside your cervix to turn into cancer. It can often take between 10 and 30 years until dysplasia occurs

* **hirsutism, hyperglycaemia, obesity, cause of her symptoms is?-----> Primary overproduction of ACTH**

primary overproduction of acth (cushing\ s disease)-this woman has the classicsymptoms of a primary elevation of adrenocorticotropic hormone (acth) [cushings ...hyperglycemia, obesity, muscle wasting, and increased circulating levels ofadrenocorticotropic hormone (ACTH

* **history of stroke. Later develops reduced motivation and depression. He has a lesion in a?-----> Frontal lobe**

The norepinephrinergic and serotoninergic pathways are disrupted in basal ganglia and frontal lobe lesions – sites that are shown to be associated with post stroke depression. Additionally, depletion in dopamine (due to pallidal lesions) can trigger anhedonia and avolition.

* **HLA-B5 is associated with?-----> Behcet’s disease**

HLA-B51(B510101 subtype) is the most strongly associated genetic marker for BD

* **hypotonic urine will be present?-----> DCT**

The nephron is the structural and functional unit of the kidney. Its body is divided into Renal corpuscle, proximal convoluted tubule, Henle's loop and distal convoluted tubule(DCT). The ascending limb of Henle's loop is impermeable to water and permeable to electrolytes. The ascending limb of Henle passes filtrate into DCT. hence urine is hypotonic to DCT.

* **In aranulopoiesis, the first cell that appear having granules is?-----> Promyelocyte**

Early granulocyte precursors (myeloblast and promyelocyte) appear similar between the various granulocytic cell lines until the myelocyte stage

* **in diabetic sensory abnormalities of the left foot and ulcer of big toe.-----> Angiopathy and neuropathy**

Diabetic neuropathy is a common complication of diabetes leading to ulceration amd sensory loss. It can be associated with diminished or absent pulses

* **In severe diarrhea:-----> Dec Na**

All the acute effects of watery diarrhoea result from the loss of water and electrolytes from the body in liquid stool mainly Sodium and potassium

* **in SVT, which should be given?-----> Verapamil (it was best among cpsp options)**

When SVT is not terminated by vagal maneuvers, short-ter mmanagement involves intravenous adenosine or calcium channel blocker

* **increased in aortic regurgitation?
-----> . ESV**

The LV end-systolic volume rises and is a sensitive indicator of aortic insufficiency also known as aortic regurgitation

* **insulin increase the entry of
glucose into?
-----> Skeletal muscle**

**Insulin facilitates entry of glucose into muscle, adipose and several other tissues. The only mechanism by which cells can take up glucose is by facilitated diffusion through a family of hexose transporters. Exercising muscle + brain + few other areas do not need insuline for entry**

* **Internal spermatic fascia is derived from?-----> Fascia Transversalis**

The internal spermatic fascia (infundibuliform fascia) (Le deuxième fascia de Webster) is a thin layer, which loosely invests the spermatic cord; it is a continuation downward of the transverse fascia

* **Itching in scabies is caused by?----->     Hypersensitivity to mite protein**

Mite infestation of the skin causes localised cutaneous inflammation, pruritus, skin ... of both type I (immediate) and type IV (delayed) hypersensitivity reactions

* **joint pain presenting with morning stiffness and pain. The pain lasts for few minutes. diagnosis?-----> Osteoarthritis**

 most common symptom of osteoarthritis is joint pain. it can cause morning stiffness, but it usually lasts for less than 30 minutes, unlike rheumatoidarthritis, which causes stiffness for 45 minutes or more

* **Lab investigation revealed Hb 6%, MCV 107, MCHC increased. Investigation of choice is?
-----> Serum Vit B12 levels**
* **late sequelae of measles?-----> Subacute sclerosing panencephalitis (SSPE)**

Subacute sclerosing panencephalitis (SSPE) is a very rare, but fatal disease of the central nervous system that results from a measles virus infection acquired earlier in life. SSPEgenerally develops 7 to 10 years after a person has measles, even though the person seems to have fully recovered from the illness.

* **Lesion in dorsal column medial leminiscus system causes?-----> Sensory ataxia**

The dorsal column, also known as dorsal column-medial lemniscus pathway, deals with the conscious appreciation of fine touch, 2-point discrimination, conscious proprioception, and vibration sensations from the body; sparing the head

* **Lesion in the pyramidal tract will cause loss of which function?-----> Motor**

The pyramidal tracts are comprised of the corticospinal and corticobulbar tracts. ... They are collections of upper motor neuron fibers which go to the spinal cord (corticospinal) or the brainstem (corticobulbar) and control the motor function of the body.

* **Lesion of Lateral Hypothalamus results in?-----> Inhibition of feeding**

The lateral hypothalamus is known for regulating metabolism and food intake. This was discovered by studies involving the effect of lesions in the lateral hypothalamus, whichleads to reduced food intake and maintenance of the newly achieved reduced weight in obese rats.

* **ligament is intrapelvic and extra pelvic?
-----> Round ligament**

he round ligament of the uterus is fibro-muscular connective tissue. It appears like a round band of rope. One side of the round ligament is attached to the superior and lateral aspect of the uterus. This attachment with the uterus is at the cornu of the uterus.

* **low dose heparin acts by?-----> Inhibits activated factor 10**

Antithrombin III binds to and inhibits factor Xa. Heparin works similarly, by binding antithrombin III and activating it

* **lumber sympathectomy which ganglion is saved?-----> L1**

care should be provided to preserve L1 L2 and ureter during lumber sympathectomy

* **Lung compliance increases with?-----> Old age**

With increasing age, the airway wall becomes more flaccid, and as a result,lung elastic recoil is diminished

* **male taking betel nuts and pan is most likely to develop?-----> Submucosal fibrosis**

Oral submucous fibrosis (OSF) is a premalignant condition caused by betel chewing.OSF can lead to squamous cell carcinoma, a risk that is further increased by concomitant tobacco consumption

* **manages the levels of phosphate and calcium?-----> PTH**

Parathyroid hormone serves to increase blood concentrations of calcium. ... Facilitates mobilization ofcalcium and phosphate from bone. To prevent detrimental increases in phosphate, parathyroid hormonealso has a potent effect on the kidney to eliminate phosphate (phosphaturic effect).

* **manifestation of penicillin hypersensitivity is?----->     Bronchospasm**

The acute allergic reaction arises immediately or rapidly within minutes to an hour or two and includes sudden anaphylaxis with hypotension, bronchospasm, angioedema and urticaria

* **Marker for MI-----> CK-MB**

[the CK-MB isoform of creatine kinase is expressed in heart muscle. It resides in the cytosol and facilitates movement of high energy phosphates into and out of mitochondria. Since it has a short duration, it cannot be used for late diagnosis of acute MI but can be used to suggest infarct extension if levels rise again](https://en.wikipedia.org/wiki/Creatine_kinase)

* **Microscopic feature of malignant tumor is?----->     Invasion of adjacent tissue**

characteristics of malignant neoplasms include: More rapid increase in size. Less differentiation (or lack of differentiation, called anaplasia) Tendency to invade surrounding tissues.

* **mid-diastolic murmur, increased PCWP, pulmonary HTN and left atrium hypertrophy. Possiblity of -----> Right ventricular hypertrophy**

The patient has left heart failure features and pulmonary hypertension can lead to right ventricular hypertrophy

* **MOA of benzodiazepine is?-----> Potentiate GABA receptor**

Agonists at the BDZ binding sitepotentiate submaximal GABA responses by increasing the apparent affinity ofGABAARs for GABA

* **most appropriate about liver in late fetus?
-----> 5% of total body weight**

liver weight is 37.78 g in fetuses aged 41-42 weeks whihc increases with time

* **Most common hepatitis transmitted through sexual contact is?
-----> Hep B**

hepatitis B is most commonly transmitted through: Sexual contact with an infected partner

* **muscle take origin only from femur and when damaged cause loss of instability of the knee?----->**
* **necrosis occurrs in the brain?-----> Liquefactive necrosis**

hypoxic death of cells within the central nervous system can result in liquefactive necrosis. ... Microscopically, the cystic space contains necrotic cell debris and macrophages filled with phagocytosed material.

* **Nuclear membrane is continued-----> endoplasmic reticulum**

The outer nuclear membrane is continuous with the endoplasmic reticulum

* **On side neck discharging sinus and cervical lymphadenopathy. No growth on blood culture confirmatory test should be done?
-----> Biopsy**
* **Organ whose blood flow is controlled by sympathetic rather than local metabolites is?-----> Skin**

ympathetic neural control of skin blood flow includes the noradrenergic vasoconstrictor system and a sympathetic active vasodilator system, the latter of which is responsible for 80% to 90% of the substantial cutaneous vasodilation

* **Patient with DKA treated with insulin, increase in?----->     pH**

If the patient is already being treated with insulin, there may be aN increase in pH shifts

* **Peripheral smear shows hematocrit 30% with low MCV. This occurs in?----->     Sickle cell anemia**

Common conditions resulting in a hypochromic microcytic anemia (low MCV and MCH) include thalassemia and iron deficiency; and, less commonly, anemias associated with chronic inflammatory conditions, genetic determinants for Hb S and C, congenital defects in copper metabolism, some forms of sideroblastic anemia

* **Person awake with eyes closed, EEG will show which waves?-----> Alpha waves**

Alpha waves (low apmplitude, 8-13 waves, regular synchronized) are shown when a person is awake and relaxed with close eyes.

* **petechiae on normal bumping, platelets were 10lac+. Cause?-----> Myeloproliferative disorder**

Myeloproliferative diseases are a heterogeneous group of disorders characterized by cellular proliferation of one or more hematologic cell lines in the peripheral blood, distinct from acute leukemia. The peripheral smear below shows leukoerythroblastosis and giant platelets in a patient with myelofibrosis

* **Physiological shunt will be present when V/Q is?-----> Zero**

A pulmonary shunt is a pathological condition which results when the alveoli of the lungs are perfused with blood as normal, but ventilation (the supply of air) fails to supply the perfused region, there is o ismatch in V/Q

* **Pillars of Medical Ethics?-----> Autonomy,
Beneficence, non-
maleficence and justice**

the four pillars of medical ethics. In no particular order, they are Autonomy, Beneficence, Non-maleficence and Justice

* **portion of interventricular septum is supplied by?-----> Anterior interventricular**

The posterior interventricular artery, a branch of right coronary artery, supplies the posterior 1/3 of the interventricular septum. The remaining anterior 2/3 is supplied by the anterior interventricular artery which is a septal branch of the left anterior descending artery, which is a branch of left coronary artery.

* **postsynaptic Ach receptors problem occurs in ?
-----> Myasthenia Gravis**

Myasthenia gravis (MG) is a relatively rare autoimmune disorder in which antibodies form against nicotinic acetylcholine (ACh) postsynaptic receptors at the neuromuscular junction (NMJ) of the skeletal muscles

* **Premature baby of 25-week gestation with ARDS-----> Increase surface tension**

RDS occurs when there is not enough surfactant in the lungs. Surfactant is a liquid made by the lungs that keeps the airways (alveoli) open

* **Primary dehydration change in ECF is?----->     Hypertonic**

Hypertonicity is the primary pathophysiologic feature of water deficiency

* **primary oocytes complete their first meiotic division?
-----> Before ovulation**

Oogonia originating from primordial germ cells proliferate by mitosis and form primary oocytes that arrest at the prophase of the first meiotic division. Meiosis resumes only in a fully grown meiotically competent oocyte before ovulation and completes upon fertilization.

* **Principal body defense cells against tumor?-----> NK cells**

Natural killer (NK) cells are effector lymphocytes of the innate immune system that control several types of tumors and microbial infections by limiting their spread and subsequent tissue damage.

* **pt developed lung abscess due to?-----> Staphylococcus Aureus**

abscesses are a frequent manifestation of S. aureus. Pneumatic abscesses are found in S.aureus related pneumonia

* **pt with multiple violaceous nodules on shins and lacy buccal lesions in mouth. condition is -----> HCV**

Chronic hepatitis C may be associated with pruritus to the extent with oral lichen planus ..

* **recently diagnosed with DM. It’s his 1st visit to a doc, what drug should I he be started -----> Biguanides**

Metformin (biguanide) should be the first-line drug for managing type 2 diabetes

* **Resting membrane potential is maintained by?----->     Na/K ATPs pump**

These gradients aremaintained by the sodium potassium pumps (2 K+ in, 3 Na+ out).

* **resting tremors have loss of neurons in which area of the brain?
-----> Substantia nigra**

Substantia nigra plays an important role in the regulation of movements. The brain lesions that affect substantia nigra can cause a number of movement disorders including Parkinson’s disease and other dyskinesias

* **right hemiplegia and deviation of mouth to left and drooling of water on swallowing. Lesion is at?-----> Left internal capsule**

Lesions of the genu of the internal capsule affect fibers of the corticobulbar tract. The primary motor cortex sends its axons through the posterior limb of the internal capsule. Lesions, therefore, result in a contralateral hemiparesis or hemiplegia

* **Right weakness of the body and double vision on seeing left. The lesion is in?-----> Mid brain**

Partial progressive Third nerve palsy with contralateral hemiplegia is suggestive of a midbrain lesion.

* **S2 (heart sounds) as compared to S1 has
-----> high frequency**

 frequency of S1 is 30-50Hz and S2 40-70 Hz with wide interpersonal variability and shifts secondary to technical equipment

* **SA node acts as a pacemaker of heart because?-----> Generates impulses at the faster rate**

The main function of the SA node is to act as the normal pacemaker of the heart. It initiates an action potential that results in an electrical impulse traveling through the heart’s electrical conduction system to cause myocardial contraction

* **Secretory hormones from neurohypophysis are stored in?
-----> . Pituicytes**

Pituicytes are glial cells of the posterior pituitary. Their main role is to assist in the storage and release of neurohypophysial hormones.

* **seen in Diabetes Insipidus?-----> Reduced urine osmolality**

Normally, an increase in water intake sequentially lowers the plasma osmolality, decreases ADH secretion, and reduces collecting tubule permeability to water; as a result, the excess water is rapidly excreted in a dilute urine

* **segment visible first on bronchoscopy?-----> Right inferior bronchus**

bronchoscope shows right inferior brochoscope. turning the tip towards the right side will bring the RUL orifice into view. ... The medial basal segment will branch off first along the medial side

* **sinking down. On ECG, there is decreased amplitude of T waves. Cause is?----->     Hypokalemia and hypocalcemia**

The earliest electrocardiogram (ECG) change associated with hypokalemia is a decrease in the T-wave amplitude.

* **Skin rash on both shine and hilar LN and eye involvement. Diagnosis is?-----> Lofgren syndrome**

Lofgren's syndrome is an acute form of sarcoidosis characterized by erythema nodosum, bilateral hilar lymphadenopathy (BHL), and polyarthralgia or polyarthritis.

* **suffering from primary syphilis. sample is taken from?-----> Genital sores**

The test can be done on a sample of blood or spinal fluid.

* **Superficial fascia of the scalp is mixture of?----->     Loose areolar and adipose tissue**

The superficial fascia is a fibrofatty layer that connects skin to the underlying aponeurosis of the occipitofrontalis muscle and provides a passageway for nerves and blood vessels. Blood vessels are attached to this fibrous connective tissue.

* **Supply to adrenal medulla is from?-----> Greater thoracic splanchnic**

Greater thoracic splanchnic nerve also provide the sympathetic innervation to the adrenal medulla, stimulating catecholamine release

* **Sympathetic regulation occurs instead of local metabolites?
-----> Skin**

the sympathetic skin response (SSR) is the potential generated by sweat inresponse to different stimuli. ... It has been used to study the peripheralsympathetic system in peripheral nerve diseases

* **TB antibody?-----> Cell bound**

 antibody principally of the IgG1 and IgG3 subtype and is expressed mainly in macrophages and dendritic cells and remaines cell bound

* **Tears composition differ from plasma in?
-----> Tears have more
aminoacids**

Tears are less complex than plasma. they contain more amount of proteins witha 100 types of aminoacids

* **The roof of the anterior horn of the lateral ventricle is formed by?-----> Body of corpus callosum**
* **tongue gets deviated to one side. Lesion is at the level of?
-----> Hypoglossal nucleus**

the tongue will curve toward the damaged side, owing to weakness of the genioglossus muscle of affected side which action is to deviate the tongue in the contralateral side . ... This is because of the weaker genioglossal musclesupplied by hypoglossal nerve

* **tumor marker of ovarian cancer
-----> CA125**

a cancer antigen (CA) 125 test can detect a protein that's often found on the surface of ovarian cancer cells

* **unable to open her mouth or jaw because of tetanus, muscle involve?-----> Lateral pterygoid muscle**

Unlike the other three muscles of mastication, the lateral pterygoid is the only muscle of mastication that assists in depressing the mandible (opening the jaw).

* **unable toextend his metacarpophalangeal joint, abduct and extend his thumb, sensation is intact, which nerve is damaged-----> Radial nerve**

adial nerve gives out muscular branches to supply the long head, medial head, and lateral head of triceps brachii muscles before and during its course in the radial sulcus. After it emerges out from the radial sulcus, itsupplies the brachialis, brachioradialis and extensor carpi radialis longus.

* **universe means?-----> Population**

A universe, in statistics, refers to a population that comprises the units or the informants of the data whether animate or inanimate, relating to a problem under study.

* **Unmyelinated nociceptor afferent fibers relay in spinal cord ----->     Ventral Spinocerebellar**

unmyelinted nociceptors specifically associated with C fibers. Group C fibers include postganglionic fibers in the autonomic nervous system (ANS), and nerve fibers at the dorsal roots (IV fiber)

* **Urine culture shows lactose fermenting and indole positive organism. Organism?-----> E coli**

 Escherichia coli is the organism that causes UTIs in most patients Gram-negative bacilli that will ferment lactose to produce hydrogen sulfide.

* **veins acts as reservoirs?
-----> High capacitance**

Veins are considered as reservoirs for Their ability to hold this much blood is due to their high capacitance, that is, their capacity to distend (expand) readily to store a high volume of blood, even at a low pressure.

* **virology shows Anti-HCV +. Next investigation-----> PCR RNA**

 HCV RNA PCR test is a blood test used to diagnose hepatitis C and ... for the genetic material of the HCV virus, or its ribonucleic acid (RNA). ... recommended for confirmation of HCV.

* **wasting of other small muscles of the hand suggest a lesion of?-----> Ulnar nerve**

The ulnar nerve innervates the flexor muscles of the forearm including the flexor carpi ulnaris and flexor digitorum profundus. It also innervates the intrinsicmuscles of the hand including the palmaris brevis, lumbricals, hypothenar and interossei muscles

* **will increase heart rate?
-----> Bainbridge reflex**

The Bainbridge reflex, also called the atrial reflex, is an increase in heart rate due to an increase in central venous pressure

* **X linked recessive disease?-----> Duchene muscular dystrophy**

Duchenne muscular dystrophy is inherited in an X-linked recessive pattern

* **Zona giomerulosa of adrenal gland controls secretion of -----> Aldosterone**

cells of the zona glomerulosa produce and secrete the mineralocorticoid aldosterone into the blood as part of the renin–angiotensin system.

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