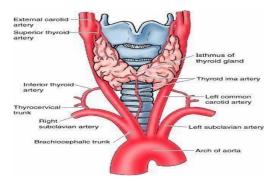
Do as much files as you can.

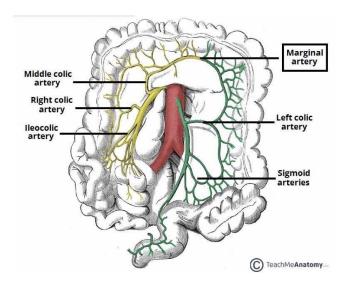
1 An experiment performed on a rat, the leg of it is cut off from the body. New bone formation, skin formation nerve, and arterial formation has occurred but muscle formation has not. Why is this?

Ans: Myotome migration

- 2. Population graph with age groups. Base had a lot of people. Narrow on very top. Question: Ans choice: high fertility, high mortality
- 3. Mean = 130, SD is given, SEM is given. Find the Confidence Interval. Ans: 120-140
- 4. Hardy Weinberg question. 1/10,000 prevalence. What is carrier frequency? (Calculate 2pq) Ans: 1/50
- 5. Pedigree of mitochondrial inheritance
- 6. At least 10 ECG questions but they are easy with vignette. (QT prolongation, hypertrophy question asked the risk factor (ans: HTN)
- 7. Gerstmann. Ans: Dominant parietal cortex 8. Hemineglect. Ans: Nondominant parietal cortex
- 9. 5 incontinence q's (stress, urge)
- 10. Treatment of Urge Incontinence
- 11.2 Cohort (prospective cohort)
- 12. Case control
- 13. Long Behavioral science scenario. She had a good life, but has difficulty sleeping, loss of appetite. She is restless and agitated. No anhedonia. After empathizing with patient, what is next step? Then an answer choice had more empathy lines. Options: How is your self-esteem?
- 14. Lady has a breech presentation, is losing a lot of blood. She's from a small town, wears a burka, is Muslim. On-call doctor is male. Her OB-GYN who is a female is 2 hours away. You've told her about the seriousness of the issue, but she still insists on seeing a female doctor. What do you do?
- 15. A patient came in with a family member who passed away. She begins to talk about her deceased family member. Listening to the patient talk, the medical student gets irritated and angry. Defense mechanism of the medical student?
 - Options: Displacement, transference, countertransference
- 16. Opioid withdrawal. Rx? Ans: Clonidine
- 17. Buprenorphine question. Once you stabilize the patient what is used as long term?
- 18. Pectinate line question in MILLIMETERS not centimeters. Squamous cell carcinoma.
- 19. Subepiglottic lymph node. Where does it drain? Options: Internal carotid, external carotid, deep cervical
- 20. Patient had a thyroidectomy. You accidentally severed his Superior thyroid artery. What is this artery a branch of? **Ans: External carotid** Options: vertebral, internal carotid, subclavian



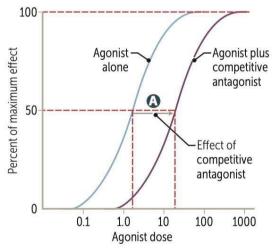
- 21. Posterior displacement of tibia. What artery is severed? Anterior tibial, posterior tibial, common peroneal, femoral, popliteal
- 22. Question: Kidney stones. It is not seen on X-ray. What is it? **Ans: Uric acid.** Other options: cystine
- 23. Stone is stuck at uretovesical junction. Where in the bladder is it affected? Ans: Ureteral orifice. Other option: Trigone bladder
- 24. 21 alpha hydroxylase deficiency question
- 25. Which drug blocks beta receptors and acts on potassium channels? **Ans: Sotalol**
- 26. Side effect of Amiodarone? **Ans: Pulmonary Fibrosis**
- 27. Side effect of Methotrexate? **Ans: Hepatotoxic**
- 28. Isotretinoin. What receptor pathway does it act on? Options: Transcription
- 29. Synaptophysin positive. Cancer/Lesion in brain. Did not stain GFAP. The origin of these cells would resemble which of the following cell types? **Ans: Melanocytes** Other Options: Fibroblasts, epiblasts, endothelial cells, epithelial cells.
- 30. What mediates pain and fever? **Ans: IL-1** Options: TGF-B, PDF (no bradykinin, no PGE₂ there in answer choices)
- 31. Nutcracker syndrome vignette.
- 32. SMA syndrome vignette. What happens if the 3rd segment of duodenum is compressed? What artery is involved? Ans: SMA
- 33. Inferior mesenteric artery embolus. Descending colon has enough blood supply. Where are the collaterals coming from? **Ans: Middle Colic**



- 34. Eye surgery. What organism is involved? **Ans: Bacillus Cereus** 35. Malassezia furfur picture. Just had to diagnose that it's malassezia.
- 36. Anaerobic bacteria of GI. Treatment? Ans: Metronidazole
- 37. Lady is pregnant, on doxycycline. Congenital side effect? **Ans: Teeth discoloration**
- 38. Catalase negative organism, causing pneumonia. Ans: Strep pneumonia.
- 39. After 207 base pairs, there are Huntington's repeats. CAG codes for glutamic acid. This particular one has 274 base pairs. How much glutamic acid do we have? 274-207 = 69. Divide by 3 = 23.

Ans: 23

Lineweaver Burk plot showing competitive antagonist. Three lines like below. With competitive antagonist. What would you expect to increase? **Ans: Km (has lesser affinity)**



- 40. Kid has bilious emesis. You also see generalized abdominal distention. Child is still barely passing meconium. **Ans: Anal atresia** Options: Duodenal atresia, TEF
- 41. Patient after vaginal delivery has a tear posteriorly up to the rectum. Nerve injury? **Ans:**

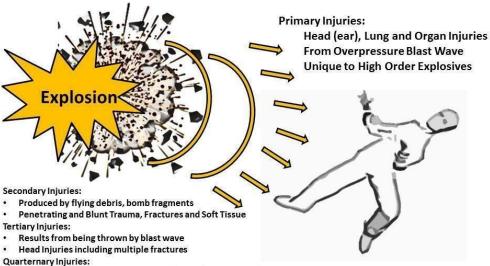
Posterior labial

- 42. Classic alpha-1 antitrypsin deficiency question. Where is the alpha-1 antitrypsin produced? Ans: Liver
- 43. ACE inhibitors and ARB's. Compared to the ARB, what do you see in the ACE inhibitor? **Ans: Increased Angiotensin I**.
- 44. Man is chronic alcoholic, has had several attacks of pancreatitis in past. But he has steatosis and frothy stools. Where is the pathology? Options: Liver, Biliary Atresia/Gallbladder, Adrenals, Cardiac, Renal
- 45. Lady comes in, wants to lose weight. You tell her she looks perfectly fine. She says she is competing for something, wants to get fit. BMI is 24. She wants her BMI to be 20. She is designing a calorie plan. She is exercising, and burning 500 calories. She wants to consume 2000 calories. How much weight will she lose after one week? **Ans: 2 pounds a week.**
- 46. Another athlete who wants to reduce calorie intake. How many grams of fat should he consume to reach this caloric goal. If he is consuming 100 grams of fat, how many calories are there? **Ans:**900 calories of fat 1g of carb/protein = 4 cal
 1g of alcohol = 7 cal

1g of fatty acid = 9 cal

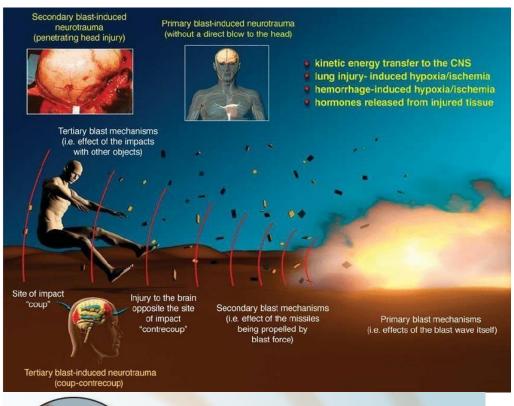
- 47. Lady is in the desert. She has a good supply food and water. Temperature was 107. Humidity is 10%. **Ans: Evaporation** Options: Convection, Force convection, Radiation
- 48. CTLA-4 question mechanism tumor cells
- 49. Man who was in a war who was wearing a helmet. Small parts lacerated all over his body. They missed his head and neck. The bomb created a sound wave blast. What organs of the body would be most affected? Options: Brain and Ear, Heart and Lungs, Kidneys and Liver, Heart and Kidney (gave pairs of organs)

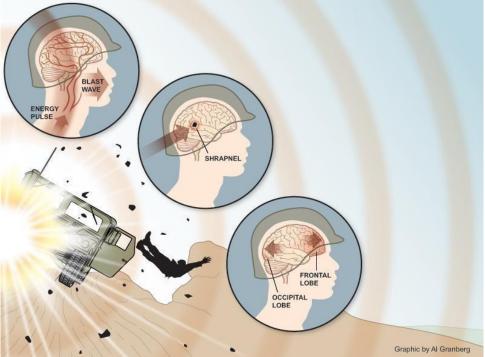
Blast Injury Components



- All injuries not due to Primary, Secondary and Tertiary mechanisms
- Such as burns, head injuries, and exacerbation of pre-existing medical conditions

Adapted from: http://www.bt.cdc.gov/masscasualties/blastinjuryfacts.asp





- 50. AS heart sound
- 51. MR heart sound
- 52. MVP heart sound
- 53. Vignette given. Had to diagnose hereditary spherocytosis
- 54. Vignette given. Had to diagnose Myelodysplastic syndrome
- 55. Schistosomiasis
- 56. Sickle Cell
- 57. HIV transplant case. **Ans: CMV**
- 58. Infectious mononucleosis like syndrome. Heterophile negative. **Ans: CMV**

- 59. Esophagitis linear ulcers CMV. **Ans: Intranuclear inclusions**
- 60. Image of penis is given. Single bleeding ulcer is in the picture. But in vignette they mention multiple ulcers with pustules. The vesicles were not tender. What was the disease? **Ans:**

Lymphogranuloma Venereum

Characteristics of ulcerative sexually transmitted diseases				
Disease	Causative agent	Features of primary lesion	Initial lesion painful?	
Chancroid	Haemophilus ducreyi	Multiple & deep ulcers Base may have gray to yellow exudate Organisms often clump in long parallel strands ("school of fish")	Yes	
Genital herpes	Herpes simplex virus 1 & 2	Multiple, small, grouped ulcers Shallow with erythematous base Multinucleated giant cells & intranuclear inclusions (Cowdry type A)	Yes	
Granuloma inguinale (donovanosis)	Klebsiella granulomatis	Extensive & progressive ulcerative lesions without lymphadenopathy Base may have granulation-like tissue Deeply staining gram-negative intracytoplasmic cysts (Donovan bodies)	No	
Syphilis	Treponema pallidum	Single, indurated, well-circumscribed ulcer Clean base Thin, delicate, corkscrew-shaped organisms on dark-field microscopy	No	
Lymphogranuloma venereum	Chlamydia trachomatis	Small & shallow ulcers Large, painful, coalesced inguinal lymph nodes ("buboes") Intracytoplasmic chlamydial inclusion bodies in epithelial cells & leukocytes	No	

- 61. Child has fever. No kolpik spots, no cough. Options: C diphtheria, H influenza
- 62. What cells kill the tumor cells? Ans: Natural Killer cells

63. Lung tumor (SIADH). What electrolyte abnormality do you see? **Ans: Hyponatremia** 64. Squamous cell carcinoma of lung (PTHrp) with kidney stones. What is seen in serum? **Ans:**

Hypercalcemia

- 65. They want to excise the lymph node. If you push the trachea to the right. What do you risk excising? Options: Phrenic nerve
- 66. Similar question. What lies anterior to the trachea. Options: Phrenic, Vagus nerve
- 67. A catheter is put into the IJV. Catheter goes down into heart. They've injected a dye. Where is the dye? (Picture is given). Ans: Pulmonary Valve Options: Pulmonary valve, Tricuspid
- 68. Patient has wide split S2. Where do you put the stethoscope to hear the split? **Ans: Pulmonic** Options: Aortic, Mitral, Tricuspid
- 69. Cellulitis Staph aureus. Rx? **Ans: Vancomycin** 70.MOA of tetracycline. **Ans: Aminoacyl-tRNA**
- 71. MOA of macrolides. Ans: Inhibits protein synthesis

- 72.In order for B cells to switch to immunoglobulin, what cell surface marker is required. **Ans: CD 22** Options: CD 2, CD 42, CD 80
- 73. Grapefruit inhibits which of the following? **Ans: 3A4**
- 74. Motor vehicle accident. He lost a lot of blood. Low urine specific gravity. What part of the nephron is affected the most? **Ans: Proximal convoluted tubule**
- 75. Man is multiple drugs, as well as on analgesics. He has glucose, bicarb, and amino acids in the urine. What part of the nephron is affected? **Ans: Proximal convoluted tubule**
- 76. Hepatitis. Antibodies against surface and core antigen. **Ans: He had disease in past and is recovering.**

- 1. 40 year old female came to ur ofice for follow up, she recieved treatment for major depression from you as sertraline, she says her symptoms hav subsided sinc 3 months, she says i hve problems with the increased bowel movements due to th drud, i want u to discontinue the drug, wat is the best next step in management?
- a. shift the sertraline to paroxetine,
- b. discontinue sertraline
- c. taper the dose of sertraline call for follow up in future
- 2. You r resident at a tertiary care hospital, on cal resident didnt inform u about the patients due to his fatigue, u came across a 38 year old patient who reguested tubal ligation with c/section at 37th week of gestation due to obstetric indications, but u didnt do the tubal ligation at the time of c/section. how this fault can be avoided in future? a.`on call resident should have detailed conversation at the time of leaving from hospital. b. fatigue of residents should be minimized

c.inform about these kinds of mistakes to hospital admin

d.inform the patients about the resident"s fault.

- 1. Horse rider fell from the horse, physician mobilized the leg and told him no working for 6weeks. The patient very sad and angry and says it's impossible. What should the physician say?
 - a. Let's wait for 2weeks and go from there
 - b. Tell me about your job and let's see if we can compromise

C. Am sorry but 6months is

There is fire in some rural area of ur state, 10 fireworkers suffered burn injuries. ur hospital is the only hospital in the state that have specialized burn unit u have only 6 beds n dont have the extra staff for the other 4 patients, some how u managed to admit the 10 patients in the unit after transfering beds, 5 patients died due to severe sepsis from psuedomonas, how this mortality can be improved in future?

- a. arrange extra staff temporarly in case of any emergency
- b. provide brief orientation to staff at the time of placement in the burn unit
- c. dont transfer the extra beds in burn unit
- d. dont admit extra patients to burn unit.
 - 2. Child gets injections regularly, initially cries, runs away and goes to mom/In later appointments he was okay not crying Sensitization/Habituation? Was looking for desensitization/suppression/sublimat ion -not in options
 - 3. Patient with minor blade wound presented to u in the e.r, wound is not deep,its clean, all imunizations are up to date, u dont give the tetanus toxoid because its not needed. patient requests another tetanum toxoid, u xplain the side effects of tetanus toxoid but patient urges to administer it. wat is the next best step in management?
 - a. refer the patient to other hospital
 - b. give the tetanus toxoid and tell the patients that he will hospital will not be responsible for side effects
 - c. avoid the extra dose of tetanus n toxoid and again explain the risk
 - d. tell the patient to other resident in e.r for administring the tetanus toxoid 4. Thinning of the basement membrane. What is defective Fibrillin. Ans Collagen 5. CRISPR

- 6. baby with micrognathia, twisted last fingers, intellectual disability
 - a. monosomy
 - b. trisomy and others
- Vit A def (2 questions) _ cornea clouding, bitot spots
- 8. Newborn delivered at home with ecchymosis
 - _ Vit k deficiency of carboxylatio n
- 9. Phytanic acid _ V LCF A
- 10. Duchenne MD, Mode of inheritance linked recessive
- 16.

17.



18. NK cell and CD8+T cell functon: granzyme

22. Exact question

55 A lady comes to the clinic to you, with vagin



23. Picture of Terminal spine with history of African Man:

Schistosoma hematobium

female patient with o.c.d, she says i dont wat a drug that causes weight gain. best next0 step?

- a. olanzapine
- b. flouxetine
- c. amitriptyline

x.ray of mass in apex of lung, patient complaining of weakness n atrophy in hand muscles, diagnosis?

- a. bronchogenic carcinoma
- b. t.b
 - 24. Silver methamine stain, CD4 count was 145. Chest Xray also give.

 Pneumocystic Jiroveci
 - 25. Gram stain of a fungus called Penicillium marneffei.
- 19. Patent with fever, neck stfness and similar history in past too, cause: C7 deficiency
- 20. LPS in saline: Release of cytokines 21. Patient had PPD of greater than 15, confirmed mycobacterial tb infection.

What IL is responsible

- a. IL4
- b. 1L5
- c. IL 10

d. 1L 15

Baby with 26. hearing problem, on examination, looks alert but does not responds to sound cause:

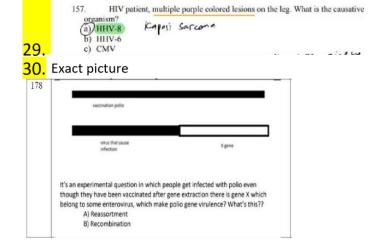
27. How does polio survives in the environment: lack of envelope

FOR MORE RECENT AND SOLVED FILES VISIT

US28. RROMAX COMComycin oral use less 39. Leriche syndrome: pelvic ischemia side effects, choices like first

intestine

- a. Low bioavailability. due to extensive first pass metabolism
- b. And some other options



- 31. Contaminated saline fever cytokines release
- 32. Diphtheria CV virulence factor _ exotox in
- 33. Hiking trip, drank lake water, now diarrhea _ Giardia.
- 34. Case of cirrhosis patient, undergoing TIPS, which vein should be diverted to?

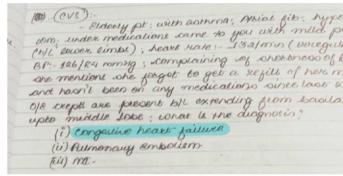
 IVC, azygous, gastric vein.
- 35. EHEC patient, MOA of toxin? Inhibit protein synthesis
- 36. Woman with UTE, Gram stain of Staph Saprophyticus
- 37. Heart sounds. Normal findings
- 38. Heart sou nd _ aortic stenosis. Patient was
 pass......it 42. Picture of extremely red tongue: si polar and cant be absorbed from mucocutaneous
 43. identify Paraumbilical vein in CT

scan

44.



45. Old man after MI can't hold



erection, (very long vignette)

- a. Depression
- b. Erectile dysfunction
- c. Hates his wife

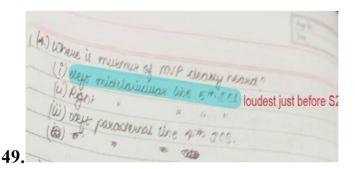
46. Hypovolemic shock - CVP ↓, CO ↓, SVR↑

41)	Heart Gound, 9 think it was go	A
1	What will be soon in Awaita	to
333	9) Biffed Carend puber	11000
	b) Delayed Carehol pube	

with SOB: degenerative

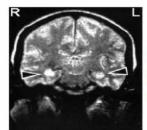
changes in aortc valve

- **48.** balanced but when eyes are closed, she falls to one side while walking. What part of the structure is damaged?
 - a. Lateral
 - b. vermis



- **50.** Patient with weightloss, tumor markers revealed HMB _ 45 and \$100 is positive and spindle cells positive, what tumor?
 - a. Renal cell carcinoma
 - b. Metastatic melanoma
 - c. Spindle cell metastasis
 - d. Squamous carcinoma
- 51. What drug for Pain does? Reduces
 PGE2
- 52.60 year old woman was brought into the ED confused stating that she was a prostitute and that she was trying to go home. 10minutes later she denied saying so and requested they call her next kin. When the daughter came in, her daughter reported that she re cently has been losing memory.
 - a. Dementia
 - b. Alcohol intoxication
 - c. Delirium
- 53. Mechanism of Dantrolene asked inhibiton of ryanodine receptor
- 54.13 years with nystagmus, gait abnormalities, when eyes are opened she is

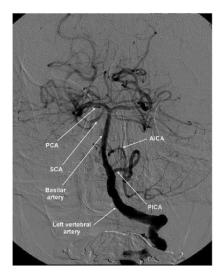
59.



70-year-old woman brought to ER 30 minut after being found unresponsive at home. Arrowheads indicate abnormalities. Q: Which of the following would be present

A: Inability to learn and recall new facts. (arrowheads pointing at hippocampal corte which is vulnerable to ischemic damage in anoxic brain injury)

- 60. what is still developing 6 year: alveolar
- 61. Patient with homonymous hemianopsia, gave an arteriogram of the circle of willis, had to identify the PCA
- **62.**Radial migration Double cortex 63.



64.

113 A 3 month/year old boy brought for normal follow up. What is the neural A process that is still happening at this age?

B. Neural tube formation

65. Patient who had surgery, foramen magnum affected, what structure will be affected?

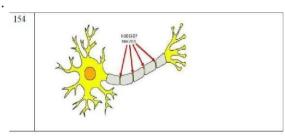
a. A.b. B.

a. Tongue deviation

c. c.

- b. Cant elevate shoulder
- C. Cant swallow

66.



Arrow was given on the node of Ranvier, and asked what channels are present maximum here?

A. Voltage gated sodium channel

B. Voltage gated calcium channel

C. Voltage gated potassium channel

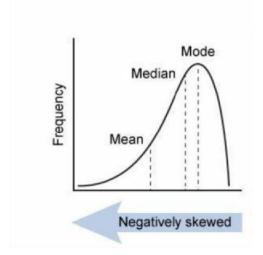
67.

- **68.** Population pyramid of 2 different years, five years apart. Only difference is the population of children under 5 years is increased after a duration of 5 years.
 - a. Immigration of middle class
 - b. More under 5years vaccine provided
- **69.** Receiving operative curve d iagram labeled A , B, C, D, E. what area will you pick if you were to flip a coin?
 - d. Down and out eyes
 - a. Stratification
 - b. Random selection

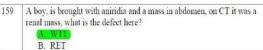
d. D.

e.

- 73. Kaplan curve with three different graph about Nicotine use (please learn Kaplan meier curve)
- 74. Gave this picture but there were like bar charts and asked which one of this is true
 - a. Left skewed
 - b. Total mean is equal to mode



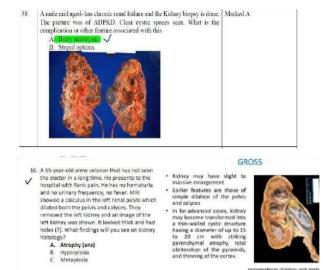
75.



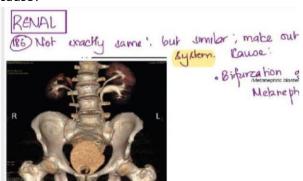
- **70.** Strategies to reduce confounding.
- **71.**Case-control study
- **72.**Cohort study

76. mode of inheritance of PCKD

- 77. Volume of distribution calculation (pls learn the unit conversion.. screwed it up my brain froze) 78.
 - **79.** Alport hx & bx / what is the defect/ collagen.



80.Exact Picture.. they asked what was the cause?

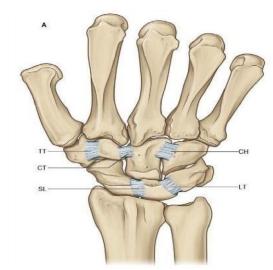


- **81.** Patent with pain after eating, more during the night, similar history in the family too:
 - a. H. pylori

25. Alcoholic homeless man with hx of liver failure which veins tend to have high pressure/ sup rectal

- 84.2 years old child with blood in diaper M eck el
- **85.**Painless hemorhoids _ vein responsible?
- 86.It was an image of the left hand , and had an arrow at SL. Asked to identify name of the ligament

- b. Autoimmune
- c. spicy food
- **82.** Ascending colon blood supply 83.
- **87.** Erlenmeyer flask
- 88. Paint spilt stratum corneum
- 89. Patent comes with her girlfriend, when asked about injury looks at GF and looks down: Look for ecchymose s
- 90.CI -channel defect resorption/osteoclast
- 91. A picture of brachial plexus with lesion shown in the ulnar nerve. They asked which o f the following will b e affected?
 - a. Abduction of the index finger at MCP (ans)
 - b. Flexion of index finger at **MCP**
 - c. Extension of index finger at **MCP**
 - d. Opposition of thumb
 - e. Flexion of thumb



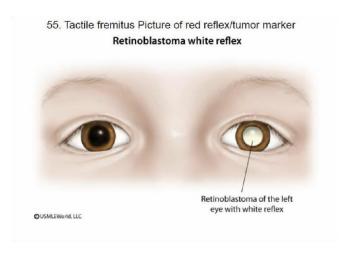
92. Lights criteria: exudatve and blood tnged: m<mark>alignan</mark> cy

- 17. Old lady dies of some disease on autopsy heart image shown similar to
- this.

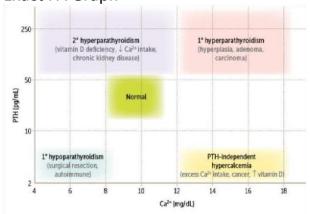
 Which of the following is the reason for this given finding.
- A. Aging
 B. Hemochromatosis
 C. Asbestosis

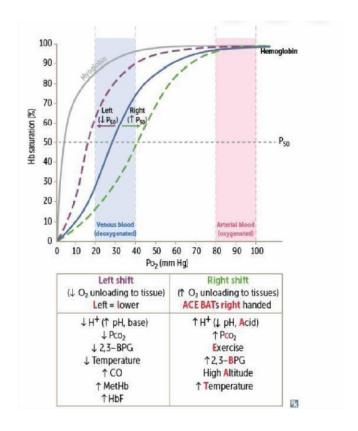


93. What area of cell cycle is affected?

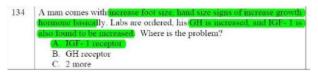


94. Secondary hyperparathyroidism Exact FA Graph





100. Question was asking about high co2.. pls learn diagram well. They tried to make it confusing.



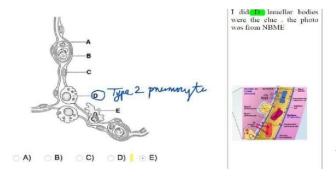
96. pneumothorax

97.

- 98. 102. Man with Ihalitosis and all the
- $symptoms\ of\ zenkers\ diverticulum.$

99. Exact picture (yang file)

Where is it located?



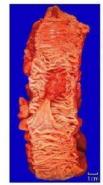
- a. Upper esphagus
- **b.** Mid esophagus
- Distal esophagus
- d. Lower esophagus
- Esophageal sphinter or something like that

the skin manifestation of celiac and part of the GI where celiac disease commonly occurs. 103. Three questions was on celiacCeliac hypovitaminosis -

Fat soluble,

- a. Villous Adenoma
- b. FAP
- c. Tubular adenoma
- d. adenocarcinoma

104. Hyperammon emia treatment acidification of colonic contents



Repeat from older NBME. Q mentions that patient had been undergoing eval for occult blood in the stool. What is the most likely diagnosis? A: Tubular adenoma

disease

105. Exact image and question.

Asked for diagnosis

106. Ascending colon blood supply

- Right colic artery
- 107. A patient had crohns disease and

had a history of fatty stools. The abortion...mifepristone 112.

patient had to get an ileal

resection. Which enzyme action

Female patient is using tampons

- a. HMG coA reductase (ans)
- b. Ketoacid enzymes
- c. LCAT
- 108. Picture of a woman with this.

 Asked what else will she present with. I chose anovulation



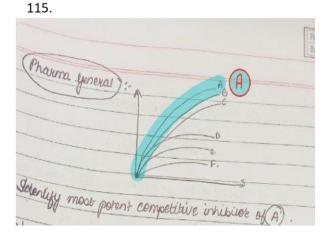
- 109. Phase of uterine stromal edema glycogen rich with graph of hormones, pick prog surge
- 110. Testis firm mass bx with clear cyto prom Nuclei/ choices yolk sac/seminoma.....
- is affected in compartment syndrome of lateral compartement ...if they have mentioned lateral compartment thn it is superficial perioneal nerve. otherwise compartment syndrome id more common in ant compartment of leg

that is by deep perioneal nerve

117. Dimpled skin in breast cancer patient will be increased in this patient?

111. Antiprogestin for

- 113. Shock patient give like epinephrine HR & BP graphs in pharma chapter
- 114. They were testing maximum tolerated dose of a new hypertension drug on a 60 healthy subjects _ what phase of clinical trials



but she is still bleeding. Why? A:

Uterine didelpA.pectoralis

- 118. Question on Medial Collateral Ligament causes
 - a. Genu valgum
 - b. Genu varum
 - 119. 2 question on scabies: Excoriations between the fingers, whats the diagnosis and second question:

 Drugs for treating scabies
 - 120. Anti Kell -woman with AB or something (its in pqs) 121. DIC (Arrow question)
 - 122.

male pt; cadaveric tenal transplant done gyrs ba.
with a solivary mass at junction of grey-write.
diagnosis?
(i) Hodgris Lymphoma.

123.

(103)A patient with depression and smoking addidopamine

Immune:

hyper acute-within minutes-kidney disease-pre existing antibodies of recipient

Eczema-WATER CGD anti venom-

type 3 hypersensitivity good

pasture- type 2

Rheumatoid arthritis pharma -tnf alpha

PNH-eculizimab- moa

BASIC PATHO:

Cerebellum- ataxia- purkinjee

Amyloidosis

Aging compare to 20 yr old

adrenal gland--- pheocromocytoma

BRAF----melenoma---mechanism

Basic Pharma:

BPH---Alpha 1 anatagonist sidenifil---PDE5

and PDE6 inhibitor in retina biostats 10

bias important ethics 4 to 5 each block 21

alpha hydroxylase high bmi ----- high leptin

central diabeties+accident+thirsty+nucleus damage?---- supraoptic

nucleus primary parahyperthyroidism diabetes type 2+aged

pt+mechanism **GIT**:

parietal cell pic nbme (histo) accident+pain on throat while swallowing---laryngeopapillo barret esophagus----metaplasia celiac disease+iron deficiency----anti transluminate Crhons disease+creeping fat pic-----appendicitis-- lynch syndrome-----mlh1 msh2 jaundice+total bilirubin increase+conjunctiva pain pancreatic insufficiency--- acinar cells ka masla calcium carbonate pills----milk alkali masla

BLOOD:

ORS

Anti kell---hemolytic disease(transfusion reaction)
herediatry spherocytosis---ankyrin
Anemia of chronic disease-- pt with RA anemia cause asked
polycythemia ----itching after bath jak 2----erythrocytosis
high amyloidosis+kidney-----multiple myeloma
Non-hodgkin lyphoma

MSK:

infantile hemangioma thumb index and middle finger compression--medial nerve ankle reflex decrease L5-S1 developmental
displacement clunk sound---one limb long other short dignosis of
developmental displacement clunk sound+one limb short other
long---- hip displasia osteopetrosis----increase bone density osteoid
osteoma---nsaid say improve

20yr old female rash on cheeks and chin what more history to ask Psoriasis pic what to take more in history peripheral artery disease+ulcer in foot+low pulse----ejaculation problem/erectile dysfunction before infusion of Inflaximab---tb test reactive glyosis--astrocytes neural crest cell---schwann cells sleep walking patient--- stages of non rem parkinson---- tremors----alpha sucylein 14-3-3---sponigyform vaculoation mulitiple sclerosis presentation-----oligodentrocytes weber and rinne test short acting benzo inhaled mechanism of anesthetic

PSYCH:

11 month child+19yr sister babysit+fractured hand and feet+mother

Manic episode---pressured speech

Anxiety disorder+ssri given what other drug given buspiron mechanism

Factitious with ready to have lots of lab work

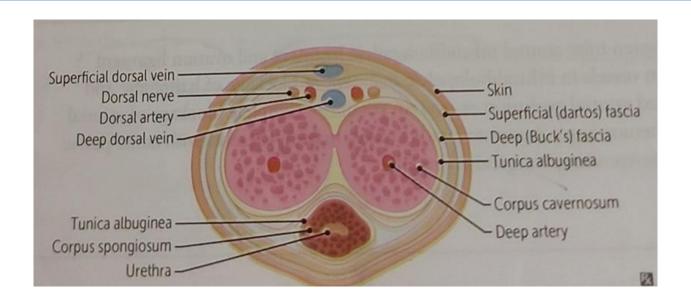
somatic with body complain

Patient presented with loss of vision after stressfull event. No other symptoms no other compains --CONVERSION Disorder. PCP--nystagmus opiod withdrawal---pupillary dilation

RENAL:

acute intestitial nephritis---rash + sulfa drug berry aneurysm---subarachnoid hem. what to ask on history--renal issue

2-3 questions fetal alcohol syndrome----smooth philtirum
baby with ielium and umblicus patency--vitilline duct



Kallmaan--diencephelon---thalamus pt
hemmaroid+bleeding----thrombosis of vessels

RESPIRATORY:

A-a gradient aspirin use---metabolic acidosis--how to treat COPD+smoker---hyperplasia of
mucous gland PO295%---cynaide poisoing or
methmaglobin asbestosis--lower lobe
clubbing fa pic---ausculate the chest
BIOCHEM:
vitamin c----echomyosis vitamin b12----numbness+pancreatic insufficiency

MICRO:

diptheria--- exotoxin chlamydia---aerosol clue cells bacterial vaginosis---metronidazol isonizaid ast alt injection user tb+--- drug effect as no peridoxone hhv8-kaposi sarcoma dengue---

retro-orbital pain platelet count low PJP drug used----folate inhibitor tmp used black ascar--mucor---amphoterin b---cell memberane ergosterol **CVS:**pt with mvp----standing per increase squatting pr decrease auscultation--

2 murmurs

ECG---a fib + a flutter

Aflutter--- Right atrium

T wave inversion---mitral regurgitation

Dilated cardiacmyopathy+s3+s4 sound---dilated ventriclesor lv hypertrophy

HMG CO reductas

- Maccardle lactate level same after exercise, enzyme was ask phosphyralyz
- Pts has unilateral pain and tendor breast during breastfeeding and breastfeeding stop;
 pharmacotherapy cell wall inhibitor
- Same scenario like above Dx bacterimia
- Ethic,Pregnant women come for antenatal visit and you find the fetus is die, how to deliver the news

Say... I have bad news, there is demise of fetus. Give time to process the news and then discussthe delivery options etc koch ta

Same other option but missing the time for processing the news.

- Shistasoma mansoni how to eratidicate, local program koch ta but main thing was to eradicate the water snails...
- Giardia simple dx simple ta

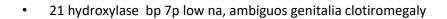
- Patient with CF foul diarrhoea etc long scenario was simple I direct come to question and ask about the defect koch ta Lipas enzyme was answer
- Waskot Aldrich and CGD k simple dx
- Hemangioma pic nbme and ask origin cell Endothial cell
- Kaposi sarcoma pic ask about herpes virus, type 8 or type VIII, koch estara dye hoty don't confuse type 1 type 2 etc
- Cyclin D 1 phosphyrate etc pora pathway dya ta FA Biochem sy answer RB

BARCAmutation graph ie breast etc cancer koch dya ta ask about mechanism, homologous analogous koch han FA Biochem me han

- Medial nerve dx simple scenario mention thumb and index me numbness koch ta which nerve compressed
- Thoracentis location asked
- A stroke Given --- alot of risk factor but main atrial fibrillation (atrial fibrillation > HTN> smoke this is for stroke)
- Movements related Koch disorders dya ty cerebellar was involved which cell of cerebellum defect? I choose purkinje
- Moderate long scenario lab me MCV 105 ty clear pata chalta vit b 12 which defect etc pocha
 Ans DNAsynthesis
- Info given about Meckel diverticul indirectly which cell present there now ☐ Gastric not given directly ,but parietal cell are there so I choose that
- Shoulder and different bone me defect ta legnthy scenario I was confused but end mention about Congo birfringence in kidney became very clear, Ans multiple Myloma
- Blood on brochoscopy and renal defect etc what will find in renal or kidney related thing asked Antibody against membrane ta or type II sensitivity ie antibody against basement membrane
- Hodgkin lymphoma was there CD 15 and 30 mentioned but I forgot what was asked
- CML treatment I think was asked like anti tyrosinase activity type something don't confuse with AML of retinoic acid
- Polycythimia 2 mcqs no need to read scenario direct check Hb and HCT,, in one Hb 19 and in second 22,
- In one asked about memutationpocha JAK2 and 2nd question me simple dx
- Inflixamab or IF alpha trt started, which prior test I choose for TB test

- Rheumatoid Arthritis scenario trt will be targeted against TNF (TNF inhibitor was there)
- Osteosarcoma triangle of bone mention long scenario risk factor ask not sure but I chosechemotherapy as pts was treated for ALL.
- Histology and also gross pathology of HPV describes in scenario in URT Ans papillomatasis of respiratory koch ta
- HIV patients CD4 koch 105 given a single ring in brain picture, CNS primary lymphoma
- Acyclovar ka resistance, Thymadin kinase
- Influenze vaccine last year effective but not now long scenario
 - Irrelevant option given main answer was alteration (A word) in neuroaminadiz (genetic) don't know the exact word but very easy
- In portal hypertension treatment option of shunt to which vein I chose Superior vena cava (inferior vena cava not in option)
- Copper build up scenario confuse between decrease synthesis of cerluplasmin or defective incorporation in cerluplasmin
- Defect in medial and 3rd part of renal artery
 - Ans fibroplasia koch word ta (1st part me atherosclerosis in free 120)
- I was not sure but scenario like burket lymphoma was given and ask where you have to look for or examine I chose abdominal mass
- Telephone interpreter I think 2 or 3 mcqs ans contact hospital professional interpreter through smart phone
- Ethics where doable not was like ppl create hype about it or may be I practice more on it but was moderate.
- Pts Hx of molar pregnancy or abortion she underwent hysterectomy koch but not come forfollow up and now blood etc or mass presentation in lung hcg very raise ans
 - Choriocarcinoma
- Holosystolic murmur increase in child I guess VSD from vignettes reason why increase koch
- aysa I chose right ventrical outflow obstruction

•	86 year old man hand pic petechia shown reason of presentation
	Prolin hydroxylation (Vit C)
•	Other same scenario koch ta in old age female Senile purpura
•	Baby came due to leg fracture by baby-sitter lady call baby's calls mom to take hers consent lya she was with boy friend in other place or country stuff like this is given main thing is examinationper multiple injuries which thing should be concerned
	Ans multiple injuries or fracture ta (child abuse i guess)
•	Patient with pneumonia, gram positive cocci: cell wayy inhibitor. Machine worker,
	cutaneous lesion: vibrio vulnifus
•	Hypercholesterlomia 700mg, corneal clouding, taking Atrovastatin plus ezetimibe, activatiom of 7 alpha dehydrozylase, deaction of ppar ?
•	Biopsy gastric parietal cell?
•	Git milk alkali
•	Sle picture plus multiple rashes plus water, ANA negative : risk factor: alcoholo? Rosacea
•	Melanoma vemurifenab MOA
•	Schistosoma mansoni: snail
•	Chagas: insomnia?



• Schizophrenoform presentatkon 3 weeks, patient hiding knife under pillow

Prostaglanding eye lashes iris
Glaucoma: beta blocker
Sildinafil : blue eyes PDE6
DM : erectilfe dysfunction
Diarhea ABGs
Iplimumab : side effect?
Benzo short life : ATOM
Romberg sign : pyramidal cells of cerebellum
Temporal lobe/ tonic clonic seizure effect on hippocampus
Decrease in brachioradialis reflex and dorsum of thumb sensation what nerve : radial

Rheaumatoid: tnf inhibitor

AIN dx

	ATN: contrast dye admitted to hospital dx
•	SLE DPGN
•	GOOD PASTURE dx on histo antibody told
•	Hyperacuye transplant preformed antibodies
•	Bordetella pertusis virulence factor
•	Rinne test vs weber arrows question
•	2 questions on EBV one was primary CNS lymphoma main CT scan
•	Sleep walking in which stage of sleep
•	Glaucoma drug
•	Beta errors sample size increases nu beta error Decrease
•	Confidence intervals for biostats like in first aid there was written if odd ratio or relative risk includies 1 nu this is not significant they give random values and a long stemthese are trhe main things values I recommend randy neil must
•	Ethics dirty medicine a bit hard khu u will get something

- And one was rectal prolapse bcz of constipation bleeding waghera scenioro
- Hodgkin's lymphoma they mentioned CD15 and CD30
 One was wiskot aldreich eczema etc in stem

Eczema

- Risk factors 6 to 8 questions very long stem for it use mehlamn pdf
- Growth graph don't remember what was that khu complicated graph wo stem na kedo
- Strep pyogens cellulitis
- HIV NRTIs lactic acidosis side effects but they asked why is it acidosis so maybe because of mitochondriaal DNA inhibition I put that don't know the answer
- Thyroid ups and downs questions T3 T4 TSH
- McArdle disease long stem bs muscle cramps in exercise glycogen phosphorylase
- Biochemistry was a bit easy
- Aw bal acute transplant rejection
- Immunology questions were most are like which cells play major role macrophages eosinophils etc
- Candida albicans scenario
- Trichomonas treatment
- Protozoas larvas and pictures in first aid
- Schistosoma mansoni pic snail in water wala answer wo wrki
- Immunology MHC 2 presentation (endosomes) was the answer
- Granulomatous disease
- Bal neisseria meningitis scenioro but they asked about risk factor and I was bs between cirrhosis and splene removal
- Resistant due to HSV thymidine kinase

- Scenario of a fungus azole was used and they asked about mechanism of action and the options were cellwall cell membrane etc and it's cell membrane
- · Age related aortic stenosis long stem but main clue was age and murmur
- And one was aortic regurgitation but they asked about where will you hear it the best and the diagram was given
 - One was angiography of pulmonary and aorta long stem but the main thing was pulmonary artery runs behind so a bit difficult
- Aortic regurgitation heart sound
- Histology of pulmonary edema blood in os and the answer was due to severe MI
- Post MI complications 2 questions
- NRDS related one scenioro
- Pneumonia related 3 to 4 questions
- Chest X rays +++
- Entamoeba histolytica 2 questions one was flask shape ulcer
- N. Mening... risk factor
- Telephone interpreter 4mcq
- Foot drop
- · g6pd def
- Malaria smear mcq
- Acute rejection
- Blood transfusion reaction
- Thymidine kinase resistance
- Lactic acid was normal... glycogen stroge disease
- Starry sky appearance histology
- Rinne test vs weber

- PPV
- Relative risk
- Absolute risk reduction
- NNT
- Many mcqs were on antibiotics moa Starving mcq after 2 weeks

HPV scc

- Complicated mcs on germ cell tumor
- Brca mutation
- Sarcapto scabie mcq
- Biochemistry total 9 mcq but was easy
- Every blovk compromised of 5 to 7 mcqs
- Can't say what was tested but I can tell you what I would do if I could
- Biostats was straightforward!! Make sure you can interpret confidence intervals and p values not a lot of math more interpreting!! Learn your odds ratio and relative risk (definitions and
 how to interpret the values)!! Otherwise not bad save time w these questions by going
 straight to the questions. Something you don't need to read the entire thing bc the table is easy
 to read.
- Do some ethics practice
- Try to do a few timed uw sets!! Glance over the biochem especially the ones that have pathology associated w them.

- PLEASE! Learn your vitamins b12 (goes without saying) and vitamin d, folate and iron. I mean learn everything ab them
- Calcium homeostasis know everything ab it this includes vitamin d. And all the granulomatous diseases that have hypercalcemia and why and cancers that cause it. Everything ab pth!!!
- Learn your circle of Willis gross and otherwise. Do the mehlman neuroanat doc if you get a chance.

Murmurs [2]! If you can't hear them to save your life learn the symptomology of each and the pt profile maybe you can get away with it. Different things that decrease or increase the murmur sometimes that'll be all they give to know the diagnosis.

- That's all I can come up with rn!! Will add more as I think of it
- Gardnella veginosi tx

BIOCHEMISTRY

- 1. Patient with fragile X syndrome clinical presentation i.e macrorchidism, long stature; effect? A)Demethylation B)acetylation C)Deacetylation D)
 Hypermethylation
- 2. Retrograde movement through which protein? Dynein
- 3. Anterograde movement through which protein? Kinesin
- 4. Mitochondrial myopathy pedigree
- 5. Another pedigree...? Autosomal dominant
- 6. Mitochondrial myopathy question
- 7. Why doctors precribe essential fatty acids? (a) bcz they are not synthesized (b) bcz not absorbed (c) bcz not saturated
- 8. Vit B1 question
- 9. What type of nutrient will you recommend to Pyruvate carboxylase deficiency patient? Decreased carbs, normal/inc fats & proteins??????
- 10. Question on glucagon & insulin mechanism
- 11. A person is starving for 3 days, what biochemical process would have been stopped? Glycogenolysis
- 12. Patient with muscle cramps during exercise, when he runs again the lactate levels are normal, which organelle pathology? Glycogen (dx mccardle disease)
- 13. Similar presentation, which enzyme deficiency? Muscle Glycogen 6 phosphatase

14.patient with very long chain fatty acids (VLCFA) elevated, pathology where? Peroxisome

15. Patient LDL elevated only, cause? LDL receptor dysfunction

IMMUNOLOGY

- 16. Neutrophil mechanism of destruction other than respiratory burst (2) (3) ???
- 17. Candida & S aureus chronic granulomatosis disease; what process defective? Inability to produce O2-superoxide
- 19. After 3 years of kidney transplant it is hyperechogenic; cause? Chronic transplant rejection
- 20. Patient on HIV therapy; which cells will inc? a) CD4 b) CD3 C) both

 ✓
- 21. TB case, mechanism? I chose inability to kill by phagolysosome in macrophage?????



22. Pt with pneumocystits jirovecco, cd 37 gene defect; which cells affected? A) B lymphocytes b) T lymphocytes????

MICROBIOLOGY

- 23. How influenza infection facilitates S aureus? Damaging epithelium
- 24. Neonate with inc inspiratory stridor, no edudate, (no wheeze was mentioned as per my memory); cause? A)epiglottitis B) asthma C) pulmonary infection(I thought RSV infection) \checkmark confirm again..
- 25. Hepatomegaly, jaundice; causative pathogen? Leptospirosis
- 26. Common bile duct infection by a pathogen, which other pathogen can also cause? Enterococcus fecalis
- 27. Giardia case & pic, how will it cause disease? A)attach epithelium ✓ B) invade epithelium
- 28. Patient with hx of injury has crepitus, caused by ? Gram +ve anaerobic bacilli(clostridium perfringens)
- 29. S aureus question
- 30. Patient with thrombocytopeni, kidney injury, hemolytic anemia; causative organism? E coli
- 31. Pathogen causes diarrhea, it has lipid bilayer, dna, rna; what is it (*) (=)? a) protozia
- b) virus c)bacteria √ d) fungi
- 32. Schistosoma picture with lateral spine; what is its reservoir? Snail

(~)

33. Infectious mononucleosis with heterophile antibodies +ve, virus belongs

to? Harnasvirus 🚗 (FRV)

54. Someone's daughter went to party last night & found unconscious, glucose levels greater than 500 mg/dl, her parents suspect of substance abuse; what will you say to her parents. Further reports are waiting; what will you say to parents? A) It is one of the possibilities that she is intoxicated B) your daughter has DKA

55. Another easier question on interpretor

CARDIOLOGY

56. Injury on chest near sternum; which structure damaged? Right ventricle 57. S2 wide fixed splitting; dx? A)ASD

- ▼B)VSD C) PDA 58. Murmur increases with squatting and
- decreases upon standing????, = (9)
- 59. Mitral stenosis murmur auscultation
- 60. Patient with high arched palate, auscultation given? I chose Mitral valve prolapse. (High arched palate =marfan syndrome= MVP
- 61. Pale heart on autopsy; histopathology will show? Macrophages
- 62. Vignette, diastolic snap after S2; location of mas? Left atrium
- 63. ECG strip showing bradycardia i.e slow RR waves; which structure pathology? SA node
- 64. Torsades de pointes ECG strip; which channelopathy? Potassium
- 65.HOCM autopsy picture, which protein mutation? Beta myosin heavy chain 66. Infective endocarditis causative







33. Infectious mononucleosis with heterophile antibodies +ve, virus belongs to? Herpesvirus (EBV)

PATHOLOGY.

- 34. Malignancy spread to multiple lymph nodes; which protein dysfunction? E-cadherin
- 35. Wound healing after 3 weeks? Granulation
- 36.colorectal cancer marker? CEA

PHARMACOLOGY

- 37. Drug given 50 mg, plasma conc 10 micro g; calculate Vd?
- 38. Inverse agonist graph question
- 39. Non comp inhibitor graph question
- 40. Patient with urge incontince; tx MOA? Antimuscarinic
- 41. ADHD drug MOA? Utilize vesicular monoamine transporter (VMAT) (memorize 238 pg synapse pic =
- 42. Drug X first dec HR inc PVR; after drug Y HR same PVR inc; what are drugs X & Y?



43. Sweating which neurotransmitter? Acetylcholine

PUBLIC HEALTH SCIENCES

Biostats

- 44. Vague Question on type of study
- 45. NNT calculation
- 46. True negative calculation



- 78. Patient with lots of adhesions in intestine; cause? a) multiple surgeries (I think correct but confirm it. b) diverticulosis
- 79. Familial adenonatous polyposis dx 80. Lynch syndrome case; which gene mutation? MLH1
- 81. Patient with hepatic encephalopathy, lactulose is given; it's MOA? a) dec pH
- b) kill bacteria c) dec absorption bla bla
- 82. Something wrong with Cornea & patient has tremors; pathology of which mineral? Copper
- 83. Hemochromatosis classical presentstuon i.e hepatits, bronze diabletes bla bla; which gene mutation? HFE 84. LFTs elevated with histology of testis;
- what will be seen in testis histologically?
 Testicular atrophy (liver damage+testicular atrophy =hemochromatosis
- 85. Cholelithiasis case; cause? Dec chenodeoxycholic acid production (confirm it)
- 86. Acute pancreatitis risk factor? Alcoholism
- 87. RUQ pain radiating to back(pancreatitis); cause of malabsorption? Don't remember options properly...
- 88. Patient on cisplatin chemotherapy; another drug administered, MOA?

 Decreased 5-HT3



- 67. Rheumatic fever case given; cause? A) autoimmune B) postinfectious \checkmark
- 68. Apgar score 9, what will happen to Left atrial pressure & pulmonary vascular resistance? LA pressure inc pulmonary resistance dec

GASTROENTEROLOGY

- 69. Duodenal ulcer; bleeding from which artery? Ceiac
- 70. Portal HTN case; bleeding from? Left gastric artery
- 71. Patient on acetaminophen; hepatotoxicity mechanism? Decreased glutathione available
- 72.mass in inguinal area that is reducible lateral to inferior epigastric artery; most common content? A)Small intestine (right) B) vas deferens
- 73. Diaphragmatic hernia case; what defective? Pleuroperitoneal membrane
- 74. Beak shaped pic on barium swallow; which neurotransmitter defective a)ach b)NO ✓
- 75. Patient not able to swallow; (something wrong with upper 2/3 of esophagus; histologically what? A) squamous metaplasia b) adenocarcinoma
- 76. Patient with Celiac disease features; which primary cell is involved in pathogenesis? a) T lymphocytes √b) B lymphocytes □

 (\vee)

ENDOCRINE

- 90. Glucagon, insulin (maybe glucose) production inc at night by which hormone? Growth hormone
- 91. Cortisol increases glucose production by? Inc glycogenolysis
- 92 Nephrogenic DI
- 93. Pregnant female with symptoms of hyperthyroidism, low TSH, dec thyroid iodine uptake, exophthalmus absent; cause? Release of preformed hormones (dx hashimoto)
- 94. Hyperparathyroidism case
- 95. Patient in 30s with elevated glucose levels; cause? a) insulin resistance ✓ b) loss of Beta pancreatic cells
- 96. Patiet cortisol production dec on low dexamethasone suppression test; pathology location? Adrenal gland
- 97. Patient cortisol production dec on high dexamethasone suppression test; pathology location? Pituitary gland
- 98. Pheochromocytoma features i.e episodic headache, HTN location? Adrenal gland
- 99. MEN 2B presentation; which gene mutation? RET

HEMATOLOGY & ONCOLOGY

100. Why do we give anti RhD IgG? A) to prevent antibodies formation in fetus in 1st pregnancy B) to prevent antibodies production in fetus in 2nd pregnancy c) t prevent antibodies formation in mother in 1st pregnancy d) to prevent antibody

HEMATOLOGY & ONCOLOGY

100. Why do we give anti RhD IgG? A) to prevent antibodies formation in fetus in 1st pregnancy B) to prevent antibodies production in fetus in 2nd pregnancy c) to prevent antibodies formation in mother in 1st pregnancy d) to prevent antibody formation in 2nd pregnancy 101. Hereditary spherocytosis case 102. Lab findings of iron deficiency anemia i.e MCV dec TIBC inc & some other. Big stem & then asked what indicates iron deficiency? Options were related to patient's behavior; ? I chose eating behavior (bcz it reminded me of pica) 103. Von willbrand disease case 104. Purpura pic on leg, question? Maybe idiopathic thrombocytopenia pupura???? 😑 105. Waxing & waning lymphadenopathy, BCR-ABL 14;18 fusion; what will be affected? Inhibits apoptosis 106. Single ring enhancing lesion on MRI; causative organism? a)toxoplasma b)EBV (EBV bcz primary CNS lymphoma = single ring enhaning) (toxoplasma gonadi=many 107. CML case presentation (not told that pt has CML) & asked tx MOA? A) vitamin A causing differentiation B) tyrosine kinase inhibitors 108. Polycythemia vera case; what mutation? JAK STAT 109. Another question on polycythemia v (something like patient has itching while

showering rbcs elevated, why? Quite similar

to previous) I think it was like

122. Same description, loss of red reflex, (cause of this eye pathology aisa hee kuch)? Loss of heterozygosity (thought osteosarcoma associated with retinoblastoma).

1 ya 2 aur qs thay tumors mein sey.

123..Osteoarthritis risk factor?

124.X ray of elbow joint & foot, edema etc... at distal medial part of foot and elbow, what will be seen on aspiration analysis?
a)Monosodium urate crystals b)calcium pyrophasohate.

125.Leukocytes elevated in synovial fluid analysis no organism seen. Also something wrong at other place. What is the mechanism/pathway for problem in joint? Hematogenous seeding.

126.Inflammation of tendons, what else will be found or you will ask for (sausage fingers were also given but not confirm about this? A)dryness of eyes B) hx of rheumatoid arthritis

127.Female, Pain while walking upstairs or standing from chair, multiple points muscle soreness? A) polymyalgia rheumatics B) fibromyalgia c) polymyositis d) dermatomyositis?

128.Renal+msk mix q;Cryoglobulins+renal pathology, cause? Hep C

129.Patient eye gets fatigued after staring a while? (Myasthenia gravis tha answer ya shayad antibodies developed agaisnt nictonic receptors)

130.Patient eyes not relax, oral dryness,

115.Patient has current like sensation thoroughout the leg & (maybe they also mentioned disc herniation bla bla bla but nahi parha usko ache sey) loss of dorsiflexion & sensation between toes, which nerve root? L3-L4, L4-L5, L5-S1. 116.Patient on sevofluran develops fever & muscle rigidity, what is defective? Ryanodine receptors(dx malignant hyperthermia).

117.Patient had something wrong with lateral epicondyle, what will you see on examination? (a) loss of sensation of dorsum of hand b) pain while extending wrist. B right hai most probably 99%.

118.Patient had young age, multiple difficulties with lower limb movements i.e adduction medial rotation lateral rotation wagera & something like pt felt crack while fixing the femur(exact aysa nahi tha but aysa kuch) what is dx slipped capital femoral epiphysis. (Iska risk factor bhi yad karlen BMI).

119.Patient has point tenderness at knee & vertebrae, what will be mechanism of tx? Cutaneous vit D metabolism(exact word yeh nahi tha but matlab yahee tha). (Point tenderness=osteoporosis)

120.Patient has large head size, hearing loss, alkaline phosphatase elevated, erythema surrounding joint/bone, dx?
Osteitis deformans/paget disease.
121.Periosteal reaction triangle elevation, risk factor for developing this condition?



130.Patient eyes not relax, oral dryness, hilar mass? A)myasthenia gravis B) Lambert eaton syndrome

131.Melanoma pic was given? Dx melanoma 132.Kalosi sarcoma pic was given, caused by which virus? HHV 6, HHV 8 etc.. 133.Capillary hemangioma pic, what is the origin of this hemangioma? Mesoderm Maybe varicella zoster virus question. 134.Ring type lesion was given? Which organism? a) tinea ka specie b) mallasezia.... 135..Cold & pale skin, hair loss, dec pulses, cause? Atherosclerosis

136.1st & 2nd degree burn, what caused it? A)NH3 ingestion/inhalation, b) phenyephrine subcutaneous rest options don't remember. 137.Patient on aspirin, asthma exacerbated, cause, inhibition of COX1 causing pathway to get more leukotrienes.

138.Patient room had acetaminophen bottle empty, cause of hepatic failure? Decreased glutathione.

139. Patient has heen given azathioprine & then allupurinol develops more myelosuppression? Accumulation of 6-MP metabolites.

NEUROLOGY:

140.Hippocampus excitation injury due to which neurotransmitter: NMDA
141.After months of injury glial reaction, which cell: astrocytes
142.ADH synthesized in which nucleus: c of option was from supraotic or paraventricular

154.Patient with intellectual disability, angiomyolipoma, rhabdomyoma; what else will be seen? subependymal nodules.
155.MRI showing mass in cerebellum with description of ataxia..... what will be seen on histology? Rosenthal fibers.

156. Subacute combined degeneration case but mixed with hx of alcohol use & ataxia bla bla bla: a) Subacute combined degeneration b) mamillary body

157.Patient with localization to side in weber test & rinne test shows Air conduction greater than bone conduction: a) cochlear nerve b) medial geniculate nucleus other options were related to anatomical defects (but air conduction greater=sensorineural) 158.AV nicking patient has lost eye vision: a) HTN b)angle closure glaucoma c) open angle glaucoma

159.Abducens nerve palsy: a)esotropia of ipsilateral b) exotropia of ipsilateral c) eso of contra d) exotropia of contralateral 160.Patient when looks left, there is abduction of left eye but can't adduct rt eye, when he looks right, can abduct rt eye & adduct left eye, (some other description): a) abducens nerve b) left medial longitudinal fasciculus c) rt medial longitudinal fasciculus.

161.Patient on sevolfurane develops fever, muscle rigidity, dx: Malignant hyperthermia 162.Patient with muscle rigidity, drug MC GABA B agonist.

163.Tramadol adverse effect:

164. Alcohol affects which drug metabolism:

143.Patient has fear, something feeling, & then loss of awareness, this seizure arises from which lobe: temporal lobe 144.Loss of contralateral sensation: thalamus

145.MCA case...

146.Patient walks without clothes & some other features, what will be further finding? A)cognition B)visuospatial disorientation 147.Midbrain infaction picture was given, contralateral hemiparesis & some other description, what will you see further? Loss of accomodation

148.Larnynx pic given & pt in pain, which nerves transmit this? A) IX & V B) X & XI 149.Patient has Unilateral loss of vision & then gets normal again: a) amarurosis fugax b) atrial fibrillation

150.Cluster headache classical presentation: patient has unilateral autonomic symptoms with pain surrounding eye

151. Azheimer demetia case

152.Gait ataxia+congnitive decline + urinary incontinence, cause: nomral pressure hydrocephalus(not remember if this question was asked or not)
153.Patient with multiple sclerosis can

maintain balance with open eyes but can't with closed eyes: a)Multiple nerve roots b)cerebellar vermis c) dorsal column medial leminiscus

154.Patient with intellectual disability, angiomyolipoma, rhabdomyoma; what elewill be seen? subependymal nodules.

155.MRI showing mass in cerebellum with

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164.Alcohol affects which drug metabolism: 2 nsaids in option : midazolam.

PSYCHIATRY

165.Patient admitted to hospital says other nurses & doctors should not treat her, only 1 resident treat her, which ego defense?

Splitting

166. 3 month old infant some features were given, what will be other finding? I chose pincer grasp

167. Child abuse case, what is the most accurate finding to show it as child abuse? I chose Brusies & injuries at multiple stages 168. Auditory hallucinations & some other features (seemed schizophrenia spectrum) for 1 day: dx a) brief psychotic disorder b) schizophrenia

169. 80 years old patient feels I don't want to live & has cerebrovascular accident, risk factor for suicide: a) anhedonia b) cerebroscular event

170.Nystagmus+violation, which substance abuse? Phencyclidine

171. Patient on olanzapine, (stem was given with some other factors) got weight gain: cause? Medication

172. Patiet with normal BMI had bulimia nervosa features & she had a amenorrhea. question asked cause of amenorrhea? Hupogonadotropic hypogonadism.



172. Patiet with normal BMI had bulimia nervosa features & she had a amenorrhea. question asked cause of amenorrhea? Hupogonadotropic hypogonadism. 173. Anorexia nervosa features & asked what other physical exam findings..

174. Patient had empty bottle of tablet in room, dec glucose concentration, condition improved after orange juice, C peptides were low. What is dx? A. Factitious disorder B. Insulinoma C. Diabetes related option. 175. Chronic fatigue syndrome case

RENAL

176. NBME hydronephrosis picture. What is the cause? Posterior urethral wall sphincters 177. GFR is decreased by a drug, what is the MOA of that drug? A. Afferent dilation b. Efferent constriction c. Afferent constriction d. Efferent dilation.

178. Long stem with lots of labs.(after calculating electrolytes it was non anion gap)Cl elevated pH dec HCO3 dec Cause: renal tubular acidosis b. DKA c. Lactic acidosis bla bla bla.

179. IgA nephropathy like presentation, which type of hypersensitivity? Type 3
180. Patiet with malar rash, anti dsdna +ve, wire loop capillaries; which type of hypersensitivity? Type 3
181. Renal pathology (maybe glomerulonephritis) & cryoglobulenemia;

182. Long stem question with lots of labs &

what is the cause? Hepatitis C.

182. Long stem question with lots of labs & one of labs revealed hexagonal crystals; Type of stone? Cysteine

183. Patient unable to do urination & then it flows its own? Cause? Pelvic splanchnic nerve damage.

184. Patient with cystitis findings i.e urinary urgency, suprapubic pain bla bla bla. What is the mechanism of drug of choice? A. DNA gyrase inhibition B. Protein synthesis inhibition C. Dihydrofolate to tetrahydrofate inhibition (correct)

185. Fever, pain in flanks, no rebound tenderness, WBC & RBC casts; dx? Acute pyelonephritis

186. Question showing before desmopressin & after desmopressin test labs (like they tried to confuse with polydipsia, nephrogeni DI & central DI. Maine dil mein kaha Aise hum bhi confuse hone wale nai (4). Patiet also had hx of DI; labs seemed to be prerenal azotemia; cause of patient's renal pathology? Loss of fluid in GI.

187. Long stem showingPatient on vancomycin & another drug was given then developed some renal related pathology; eosinophils were elevated in labs; dx? Interstitial nephritis

188.Renal pathology; physical exam shows abdominal bruit; what is mechanism of renal injury? Ischemic bcz I thought abdominal bruit=renal artery stenosis

189. ACE inhibitor arrow question. Patient is on a drug & also has dry cough. Physical

189. ACE inhibitor arrow question. Patient is on a drug & also has dry cough. Physical exam reveals lungs clear no wheezes bla bla. What are the lab findings in relation to renin, AG 1, AG 2, Aldosterone?

190. Patient developed pre renal azotemia; also has hx of cocaine intake, cause? I chose cocaine toxicity?????

191.Patient with edema. Na & CI levels dec. rest were normal. I chose fluid in other compartment. Other choice was dec ADH sec but urine osmolality was normal

REPRODUCTIVE

192. Vitelline duct question: (i think answer was ectopic parietal cell)

193. Ectopic palatine tonsil origin: 2nd pharyngeal pouch

194. Y shaped uterus with 2024 FA pg 640 pic B; cause? Incomplete fusion of paramesonephric duct

195. Glans penis nerve supply: genitofemoral nerve L1-L2

196. Blood accumulate in lower abdomen & some other description; (options were related to genitourinary trauma) location: Bladder neck

197. Turner syndrome question

198. Turner syndrome question

199. Androgen insensitivity syndrome question

200.loss of smell & amenorrhea; dx? Kallman syndrome

201. Pregnant female+low platelet count+ liver enzymes elevated; what will you see on



phosphatidylcholine

210. Patient aspirated peanut (no other clue), it go to which lobe? (I chose right lower lobe but not confirm)

211. Pt with pH elevated, pCO2 dec, spO2 dec; cause? A)Rt to left shunt b) ventilation perfusion mismatch I chose.

212. Pulmonary embolism & dvt 2-3 questions. One was like S1Q3T3 with hx of flight, cause? Factor V leiden deficiency b. Factor VIII prothrombin deficiency bla bla



213. Patient working in shipbuilding with subpleural thickening; which lobe will be affected? Lower lobe

214. Patient with nodular calcifications in lung; cause? Silicosis

215.Patient with hx of RTA to abdomen develops hypotension & hyperresonance, CXR showed tracheal deviation; cause? Splenic rupture or fractured ribs??

216. Patient with hx of pulmonary htn receives Beta agonists for bronchodilation. He doesn't respond well to it, a drug which acts upon G protein coupled receptor for bronchodilation, what is that drug?

A)theophylline B) tiptropium (4)

217.hamartoma in lung biopsy picture? a) hamartoma V b) adenocarcinoma 10:30 PM 0

Parathyroidectomy patient. Artery to superior part ligated; collaterals from which artery supply then? External carotid artery



10:35 PM @

201. Pregnant female+low platelet count+ liver enzymes elevated; what will you see on blood smear? Schistocytes(bcz I thought HELLP syndrome)

202. Picture showing Lesion on vagina with erythrmatous base & was painful; causative organism? I chose haemophilus ducrei (others were treponema hsv bla bla bla. 203. E7 on which type of epithelium (almost similar statement): columnar epithelium 204. Fibrocystic changes question... 205. Mother breasfeeding baby & then stops breastfeeding due to pain in medial to nipple, cause? A)Bacteremia B) nipple injury



206. Patient with mobile mass (some other description)in breast; dx? Fibroadenoma 207. Testicular cancer major risk factor: klinfelter syndrome

208. Peeling of some mass+ does not transillumiante ? A) epididymitis B)varicoceleC) hydrocele

RESPIRATORY SYSTEM

lower lobe but not confirm)

209. Question on surfactant, (don't remember properly but it was like which substance is most important?) phosphatidylcholine 210. Patient aspirated peanut (no other clue), it go to which lobe? (I chose right

211. Pt with pH elevated, pCO2 dec, spO dec; cause? A)Rt to left shunt b) ventilation perfusion mismatch I chose.



ADHD (Alternsion defect hyperactivity disorder)
O→ Membarnopaoliferative glomonulonephaits.
O - Common brain lesions (Impostoril)
D→ Mysthenia graws-
Inclusions Ru:
O - chronic gramulomatis disease.
O -> hypersentivity.
Q -> kaposi sarcoma.
O+ Bacterial vaginal Intection.
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Arite Domoreatists.) mecosis-
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