1 female found unconscious at couch, bleeding from vagina: Pelvic examination.
2 16 years old female brought by mother, her mother was concerned about alcohol abuse disorder in her daughter. Mother left the room how physician her ask about alcohol abuse disorder?
A now a days kids attend party and drink alcohol
B when I was 16 I drank alcohol
C you re not sexual active means u haven't drank alcohol. X
3 Female pt when asked about Alcohol usage she said Jesus I m Christian. Physician response?
A we ask these questions from every pt
B I will consider this as No
C ok we coming to this part of history later. 🗶
4 Two questions on positive skew. Other answer was Mean.
5 A scenrio of Retinoblastoma and x ray of Tiblia fracture. RB gene mutation. What is pathogenensis
Cell cycle dysregulation.
6 Stab wound medial to nipple. Muffled heart sounds. Location of blood accumulation?
Pericardial sac

7 Breast feeding mother has breast tenderness without erythema. What is the cause of condition?

A Excessive breast feeding

**B** mastitis

8 A mother develops mastitis and started crying that she thought she would continue breast feeding for 8 months now which she cant. What should be physician response?

A why you wanted to continue breast feeding for 8 months

B Don't get upset there is treatment you can continue breast feeding

9 Female pt came with vaginal bleeding and ecchymosis on face. What should be physician response? (Actually this rape scenrio )

A Tell me what happened

B Is there any family member, I can call

C should I call police

D Do you think u might got pregnancy X

10 A female sexually active pt, doctor asked for vaginal examination and she blushed and said No. physician response?

A should I call female colleague who can conduct examination

B Tell me what concerns you about vaginal examination

11 Botilium toxin MOA = Prevent release of Acetylcholine

12 kaposi sarcoma = HHP 8

13 Intention to treat analysis formula 🗶
14 polyps on vocal cords = HPV
15 child brought by her mother with complain of asthma exercerbation her mother $m{X}$
16 Pt taking NSAID having blood in vomiting and oligouria, reason = Decreased Prostagladin E2
17 male baby bilateral hydronephrosis = Posterior urethral valve.
18 hypercalemia = Ca sensing Receptor
19 anti Tb Drug that decrease mycolic acid synthesis = Isoniazid
20 = Iron absorption = Duodenum
21 Child has bloody diarrhea and schistocytes = E Coli
22 histology of some blood cancer asking translocation I did it wrong X
23 C1 esterase inhibitor
24 fish poisoning epinephrine given which other drug should be given = anti histamine.

25 pt having knee pain histology showing needle shape crystal = Gout 26 Obese pt having systemic HTN suffering from Sleep apnea has loud P2 which role in pathogensis = Endothelin 27 pt of narcolepsy which question to be asked in history = Daytime somnlence 28 Pt brought by her mother jis mapt ko depression ki Hx thi or pt ko logo k sth maza tha per kam logo se milta tha = avoidant, antisocial, schzoid 29 female pt having endometrial cancer risk = Obesity. 30 female pt painful menstration nodule on uteroscleral ligament = Endometriosis. 31 Child with multiple fractures and grey sclera?? X 32 Systemic Amphotericin B given. Adverse effect due to binding to = Cholesterol. 33 Pneumothorax = decease breath sound and decreased vocal fremitus X 34 Bell palsy question X 35 Marking of major arteries (vertebral artries).

36 pt having features of Cushing syndrome and gaining weight ( not lossing) and options were
A adrenal medulla
B Lung cancer
C anterior pituitary
37 Old age patient with UTI (indicating sepsis) having dyspnea = ARDS
38 pt having chronic pain managed by corticosteroid infusion. Pt is having decreased vision = Lens opuaption.
39 pt suspected of poisoning brought by friends decreased vision bilaterally = Methanol
40 Rat busting waro chokro 🗙
40 Rat busting waro chokro <b>X</b> 41 Macardle disease = Glycogen myophosphorylase
41 Macardle disease = Glycogen myophosphorylase
41 Macardle disease = Glycogen myophosphorylase  42 Long and very long chain fatty acid accumulation = Peroxisome.

B Planatar fasciae 

✓

45 Two questions on Heart Sound X

46 HIV virus gene graph was given asking about why immunisation don't occur for it

I did Error in the DNA synthesis X

47 pt hospitalised his interaction was good with staff initially but it got worse, staff complained this to doctor but doctor said it's easy to work with patient. What is the defence of pt

I did splitting.

48 pic of back of baby having black patches condition seemed benign all options were indicating malignant except one

I did number of melanocytes.

49 35 year old female admitted multiple times in the hospital due to recurrent pleural effusion requiring drainage. Now pt is irritated and saying I don't want to keep this (mtlb wanted to die) **X** 

50 Boy admitted in hospital due to chronic illness his behaviour was better initially but one day he got mad at staff when staff told this to doctor he went to his room and he was using mobile. Doctors response?

A something like if you re busy I can come later.

51 pt suddenly fell on floor in the kitchen and died his trachaeal and heart autopsy picture was given. What is the most immediate cause of death in this pt

A Pulmonary bronchospasm 🗶

52 Hypovolemic shock arrow were given

53 RTA pt came in ER with chest crepitus and 80/50 pressures. What has happened

A Splenic rupture

B Rib fracture 

✓

54 Pic of internal haemorrhoids were given and pt was bleeding bright red blood. Which vessel.

A superior rectal artery 

✓

B Super rectal vein

55 Abdominal X ray was showing multiple air fluid levels and pt having abdominal pain. Few years ago he went under Exp laparotomy. What is the risk factor for his condition.

A Laparatomy.

56 Pt has chest pain and later it was found to be MI. After stabilisation of pt he developed murmur on left sternal border.

A Tricuspid regurgitation

57 Histologic picture was given (difficult to identify) but scenario was say female pt with yellow discharge with malodourous smell

# A Trichomonas

58 Young male pt who had sex with his gf without barrier protection and presented with STI. Physician response.

A Tell your gf about STI jaise Hum uss k investigation krwe

B next time use condom so u don't get serious illness

59

This pic came in the exam and pt had features of Huntington, was asking about which part is defective.

I did C

60 Scenario of Schizophrenia where dopaminergic activity is altered?

A Mesolimbic 

✓

B nigrostratial

61 Hepatic vein thrombosis effect on liver only option which made sense was Centrilobar congestion, hemorrhage and necrosis.

62 female pt thi uss ko IDA or iron supplements le rhi thi ab usko kya dege like vitamin neeche options ma vitamin k functions likhe hue the

Hydrolyation of collagen

Synthesis of heme

63 long scenario of Vit B1 def asking which biochemical function will be affected? Conversion of pyruvate to Acetyl CoA.

64 pregnancy or estrogen I don't remember properly but smt like this asked about effect on Thyroid hormones

Increase total T4, Normal free T4, Normal T3, Normal TSH

65 long scenario in which patient was having skin lesion around the nose. Many fungus options were scenario aise tha jis ma lag rha tha leishmaniasis hai

66 female was going under premature Labour at 21 week of gestation. Physician response?

A what do you know about premature Labour

B It's very difficult for premature babies to survive but we will try our best to save the baby

67 DVT case

I did Factor V mutation due to Protein C can't bind.

68 Other DVT cases which was easy.

69 Mother brought her autist child to your clinic she was waiting in the clinic and physician came. What should be his response?

Every option has similar greetings and how may I help you today but difference was

A Mother and child

B To mother

C to patient

# 70 Drug addict boy admitted in Rehab (ethics) X

# 6th August 2024

- -Nnt calculation
- -Pt with cardiac output 23%, multiple admissions, not a candidate of heart transplant, rejected lv assist device how should you respond: plan end of life discussion with family, have you reconsidered lv assist device, do you know how bad your heart failure is
- -Pt with endometrial carcinoma, question stem with long hx and risk factors, what is her most imp risk factor: obesity, smoking, alcohol,
- -Pt trying to conceive, off medroxyprogesterone but unaible to why? -hx of appendiceal surgery/rupture(?), medroxyprogesterone,
- -Pt trying to conceive but cant, has recent hx of dysmenorrhea beginning one week before her cycle and dyspareunia, exam shows thickening and nodularity of uterosacral ligaments, cause? Endometriosis, pelvic congestion,
- -some pregnant woman at 7 or 10 weeks gestatio n, basically asking what developmental stage the lungs would be at... all the option were too advanced so i just chose lung bud development for the given ga imo
- -patient had a laceration and now presents 2 weeks later for follow up and they had a picture, it was a lot of blood vessels and inflammatory cells i think, they were asking what is happening. Options were acute inflammation, chronic inflammation, granulation tissue...
- -patient recently started breastfeeding 2 weeks ago and now presented with painful well demarcated induration medial to the left nipple and pain what is the dx? Nipple sth, dilated milk ducts sth, <- i chose this.
- -question on doxepin sth (tca)
- -one auscultation question on aortic stenosis classic vignette of old man with dyspnea and the description of the murmur, on auscultation could hear it on the carotids as well.asked to diagnose

- one auscultation qs on woman with mitral regurg, holosystolic murmur best heard at mitral area, asked which heart chamber would be dilated.
- wallenberg syndrome, asked which artery affected (pica)
- mother bought child with autism spectrum disorder, nurse tells physician that child did not let her take vitals, only temp and sth else. What should the physician do when he enters the room. 6 options; face mother and ask what bought you in today, face mother and ask can i auscultate heart and lungs, face mother and ask can i take vitals, same 3 face child and ask. I picked one with the mother not the child because he might not answer because of his condition. Dont remember what i picked.
- ^too many questions like this, i cant remember all of them. Literally like 6 of these every block.
- classic case of sarcoidosis asking why pt has elevated calcium on labs with one of the option 1 alpha hydroxylase as the answer
- classic case of HUS with child with bloddy diarrhea dont remember what they asked
- Patient pre-eclampsia and there was a picture of helmet cells, with low haptoglobin and high ldh in labs, dont remember what they asked
- pt with large echymoses and some petechiae on limbs with only low platelets on labs, i picked glycoprotein 2b/3a antibodies because other options werent making sense with the vignette
- pt with sexual contact hx with a picture of lesion right on glans penis, asked which Lymph node will this part drain into; paraortic, internal iliac, external iliac, superficial inguinal, deep inguinal. I chose deep inguinal.
- Question on ATN with granular casts sth
- question on jarisch herxheimer reaction asking what cytokines mediate this reaction; il1, tnfalpha, il6.. or il3,il7.... or tgfbeta, 1l10.. il2,il12... il4 was also mentioned. There were three cytokines to every option and i think they all targeted a subtype of effector cell like cd4 cells, cd8 cells, macrophages. I just picked the first one.

- Question with a young man with a murmur at the left sternal border at 4th intercostal space, looked like hypertrophic cardiomyopathy and asking what was wrong, i dont remember the other options but i picked narrowing of subaortic area
- pt with longstanding hx of type 2 diabetes with kidney issues, dont remember the rest of the vignette but one of the options was nodular glomerulosclerosis. All other options didnt make sense.
- man ate 2 pounds of raw bear meat like a week ago sth and now presents with fatigue, nausea, vomiting, diarrhea. Asking sth about infectious agent
- another question on hemolytic anemia, pt went to sudan and came back, had lots of labs that showed hemolytic and options were a list of organisms i dont remember but the one i picked was babesia
- one question on postive skew asking which measure of central tendency will fit; mean, median, mode, accuracy. Median is the answer
- question on oculocutaneous albinism, picture of child with a massive amount of freckles and vignette saying hx of photosensitivity to sunlight and sth with eyes as well. Asking mode of inheritance; autosonmal recessive, autodominant, x linked, y linked
- pt collapsed/fainted 30 mins ago and revived, now alert what will his acid base status be
- question about guy exercising and then going to chill in the sauna to help with some muscular pain; which of his cardiac parameters will change, increase preload, decreased afterload, increase contractility, decreased contractility
- pt presented with mother, has severe cytic acne and mother asks if theres a drug to be given that can help. Physician knows of this drug that has gone a meta analysis of several trials or maybe it was case controls. There was a graph on the side that showed all the trials listed on y axis and confidence intervals on x axis. On the left of x axis was 0.3 or 0.9, centre of x axis was 1 and right was some value more than 1. To the left of x axis was also labelled in favor of the drug and to the right was labelled in favor of placebo. Was asked to pick which trial that is significant. The only option made sense was A since it was to left and its confidence interval did not cross 1 on the x axis. All other option

- either crossed 1 on the CI scale or were to right of the x axis in favor of placebo.
- -what pathway affected in schizo; mesolimbic, mesocortical, nigrostriatal, tuberoinfundibular, 1 other option
- -labs given like calcium, pth and phosphate too i think and asking which gene responsible for condition; fgf23, foxp3, some other genes that ive never heard of.
- question on pupillary constriction and dilation
- pt with glaucoma which drug not to give; b antagonist, a agonist, muscarinic agonist, muscarinic antagonist
- pt, male, hx of drinking a few drinks per week, with cluster headaches, asking what is predominant risk factor for him; male, alcohol, some other options
- 15 yr old girl with hx of bloody diarrhea with abdominal pain asking what is the dx with 3 pictures; one of colonoscopy, two of intestinal biopsies. Colonoscopy picture showed ulcers spotting the mucosa, biopsies showed inflammation in the mucosa; options were crohns, UC, celiac, giardia.
- pt with migratory polyarthritis and fever; what is the vector for condition; sandfly, mosquito, tick. Seemed like chikungunya or zika
- pt went to either texas or new Mexico and now has fever and cough sth, picture of a cell filled with tiny other cells, classic spherules of coccidioides Asking what this pt has; options were aspergillus, candida, crypto, coccidioides, either mucor/rhizopus.
- pt received a cadeveric renal transplant that had hyperacute rejection, pt had a chronic hx of blood transfusions; what was the mechanism of rejection/ what were the antibodies directed against; mhc of renal endothelium, mhc of renal sth, rh antigen on renal endothelium, rh of renal sth, two other option i dont remember
- pt collapsed was given naloxone by paramedics now brought to hospital and expresses concern hes withdrawing from sth. They were asking withdrawal symptoms with 3 columns; eyes miosis or mydriasis, skin dry or diaphoresis, bowel sounds hypoactive or hyperactive.

- pt with delusional and hallucination symptoms shifted from psych place to hosp to manage symptoms tell doctors that his family had symptoms of intense fever sth when given antipsychotics and to tell that to the doctor whenever you get admitted sth; which channel is affected. Looked like neuroleptic malignant syndrome. Options were Na, K, Ca, Mg. I picked Ca.
- -woman, previously a college professor, admitted to hosp, nurse comes and says she acting kookoo(weird) and when physician goes to her room she screams at him to do 'sth about the bugs, theyre crawling over me' and throughout the interview shes squatting at bugs on her arms and thighs. Question asks what do you want to know about her hx to guide management of pts condition; cognitive baseline, substance abuse, some other options
- physician 1 is giving a cancer diagnosis to physician 2 who works at a diff hospital but got admitted to physician 1s hospital; whats physician 1s most appropriate response; sth about i cant even imagine how you must be feeling, sth about discussing the details of the cancer, sth about does he have an oncologist in mind, 'as doctors you know how it goes' was another option
- polycythemia vera pt itching after hot shower with labs, asking what the mutation. Jak2 was one of the options
- one question on mitochondrial inheritance asking the probability of child inheriting the disease, the chart was given mother was diseased and all 3 children before the child in question were also diseased. Options were 0%, 25%, 50%, 100%, 75%.
- question on median nerve injury, pt had lost innervation on the palmar side(i believe) of the thumb and index finger
- patient with rhabdomyosarcoma on the back of the thigh, which muscle is it most likely affecting; biceps femoris, sartorius, vastus lateralis, some other options
- brain enhancing leasion in a pt with hiv, asking the dx i think; options were primary lymphoma, toxoplasma, abscess and some others.
- pt, a kid, with a type 1 hs lesion like hives or sth, qs asking what is the primary cell responsible for this reaction; mast cell, basophil, neutrophil, eosinophil, lymphocyte.

- kaposi sarcoma qs, but they only described it. Dont remember if they have a hx for hiv positivity but asked what is responsible for it; hhv8, hhv6, other options
- pt with hematemesis with cirrhosis and asked what is the vessel which was responsible; azygous, left gastric, superior mesenteric, hepatic artery, hepatic vein
- 19 yr old with hx of thromboses, it was a long vignette. Asking what the cause was; von willebrand, factor 5 leiden, some other options too
- picture of a child with white reflection in one eye asking what the defective gene is responsible for; i think it was retinoblastoma and one of the options was E2f sth.
- pt with a mass in the left atrium asking the histology of it, one of the option was myxoid stroma sth
- one qs describing an organism that made bubbles when added to h202, did not coagulate blood and i think they mentioned gram postive as well(not sure) but were asking what the exotoxin for this organism was; one option was tsst, dont remember the others
- cholera antigen mechanism, described as a curved flagellated rod and pt with diarrhea; options were overactivates adenylate cyclase, camp, ef2, some other options
- qs with a ct scan of the lungs showing fibrosis, hx describing that too but dont remember the rest of the question
- o2 sat levels of the all the chambers in the heart with increase from right atrium to right ventricle asking what the reason was; vsd was one of the options
- pt with bright red blood on defecation but the qs did not mention any pain. Options were; internal hemorrhoids, fistula, fissure
- child with difficulty exercising but then is okay and can exercise again after a few minutes, mcardles, asking which enzyme deficient; myophosphorylase, other options

- loss of post leg sensation, loss of achilles reflex which dermatome affected; 14, s1, s4, I2
- question on WPW, ecg given, bro i cant believe i caught that lol it was imperceptible but it was there delta waves in V1, asking what the issue was; option were accessory pathway, junctional rhythm, atria sth.
- another ecg with st elevations in v1,2,3 and asking what area of heart affected; anteroseptal, anteroapical, lateral sth
- there was gout qs with a picture of a cell with a needle shaped crystal in it, dont remember what they asked
- baby (dont remember age) presented with vomiting, they didnt describe the vomiting as bilious or anything and asked what the reason was; pyloric stenosis, duodenal atresia both were options
- qs on CREST syndrome, classic description of calcinosis cutis and esophageal symptoms; asking what the reason was for esophageal symptoms; one of the options was fibrosis/ collagen deposition
- qs on Lambert eaton, dont remember details
- qs with a woman who had a mass in the periphery of the lung, no hx of smoking but the options were weird; one was either small cell/squamous, giant cell, adenocarcinoma,
- question on renal stones, mentioned they were envelope shaped, dont remember the rest
- qs on guy with feelings that he isnt the gender he was assigned at birth, always felt better dressing in his sisters clothes and playing with dolls ir sth and now is anxious or in distress about his feeling sth; what is the reason of this. Options were he is attracted to people of his own sex, attracted to people of the opposite sex, attracted to opposite sex clothes sth, 2 other options from which i picked one but dont remember
- narcolepsy qs, described pt who collapsed with laughing
- pt with a crusty looking toe fingernail, like it was barely there, hx of hypothyroidism and he was a painter, asking whats the risk factor for this; hypothyroidism, occupation, some other options

- pt was a kid with a friction rub and sharp chest pain, asking for dx. Options were pericarditis, myocarditis
- consent for minor child 10 or 14 yrs old, qs asking who would you take consent from; consent from child, consent from mother, consent from child and assent from mother, consent from mother and assent from child, consent from both child and mother.
- qs on chronic granulomatous disease listed all catalase postive organisms, asking which enzyme affected; options were nadph oxidase, myeloperoxidase, superoxide dismutase, and a few others
- qs on schistosoma (i think) with pt with fatigue, abdominal pain, and sth else along the lines of either hepatomegaly/fibrosis; listed a bunch of parasites/organisms and schistoma made the most sense to me.
- otitis externa with discharge and crusting in the ear with normal tympanic membrane, asked what was the causative organism; staph aureus, pseudomonas, a bunch of other bacteria but pseudomonas made the most sense to me
- guillain barre with campylbacter jejuni infection, classic case of ascending weakness. Dont remember what the question asked or options
- female in the army, a soldier, was in a tank that went over an explosive, presented to the field hospital with multiple injuries/lacerations on the extremities, awake, what will you do first? Options were maintain airway, auscultate lungs, tend to lacerations, two other options. I picked maintain airway.
- question diabetes insipidus
- question on SIADH
- ^one of these definitely mentioned head trauma
- thumb dermatome
- Adh released from; dont remember if options mentioned hypothalamus/supraoptic nuclei or posterior pituitary together but one of them was definitely there

- arrows qs on either hypo or hyper aldosteronism asking potassium for sure and others
- trigeminal neuralgia
- qs on either PML or creutzfeldt-jacob (prion), male with recent 6 month hx of personality changes, ataxia, myoclonus
- pt, veteran, got into an accident because he was reminded of war times and is anxious, asking what is mechanism of his disorder (psych); operant conditioning, classic conditioning, extinction, negative reinforcement/punishment
- illnes anxiety disorder/hypochondriac, old man presented to the ed multiple times
- stress incontinence, woman with multiple pregnacies leaks urine with cough/laugh, what is the mechanism; cystocele, uretheral hypermobility, other options
- fetal alcohol syndrome
- woman used isotretinoin till 10th week of pregnancy with hx of smoking, fetus on ultrasound with hypoplastic cerebral ventricles or they were enlarged sth also limb defects I think, asking what the reason was?
- picture of nephron labelled different parts, pt with hx of renal stones asking which drug acting on which part to give to help with this? Marked on glomerulus, pct, loop of henle, dct, collecting tubule
- qs with long vignette and labs mentioned lots of protein in urine, asking which part of nephron is the reason why protein is in urine, options were glomerulus, pct, loop of henle, dct ,collecting tubule
- qs on a man with substance abuse hx with skin popping, most of them oozing pus, what is the mechanism of amyloidosis in this pt? Options were al amyloidosis, aa amyloidosis, b2 microglobulin, transthyretin.
- pt with long standing hx of diabetes now presented with tingling and loss of sensation in feet, mechanism
- pt with long standing hx of long standing diabetes presented with nausea and fullness after small meals when they could tolerate large meals before, asking

mechanism? Looked like diabetic gastroparesis, one option was dysautonomia, others dont remember

- pregnant pt with hellp syndrome, dont remember the rest
- qs on kwiashiorkor, i think they mentioned protein loss in urine
- pt with leukemia with t(9:22) translocation, drug to be given in this case targets which part? Tyrosin kinase was one option
- pt with starvation, now admitted in hospital where he ate loads of protein/fat rich food, which part of his pancreatic cells will be increased, options; nucleus, endoplasmic reticulum, lysosomes, golgi, mitochondria
- pt in clinical trial given a set amount of carbohydrates but 300 calories of those carbs replaced by protein/amino acids, what will be increased in this patient by the end of the trial? Options were urea cycle,
- long ass question on kid brought in by her 19 year old babysitter with hx of fall from high chair, apparently kid tried to get out of chair and leg got caught in it. Femoral fracture present, with bruises on abdomen, back and head too I think. Mother gone away on a trip with boyfriend. Ct scan of abdomen showed hematoma in liver, pt admitted in icu for management. Question asked what in hx tell us this is not an accidental injury?

Options were babysitter, truncal echymoses, boyfriend, other options

- -question with one option that was inadequate leptin regulation. Dont remember the vignette clearly
- -question on CMV asking the drug to be given inhibits whar? Options were protease, integrase, dna polymerase, reverse transcriptase.
- blood crossmatch question; weird ass question with list of all antibodies the pt has like  $b\pm$  +, b- +, a+ +, a- -, o+ +, o- sth like that and asking which antibodies pt has
- vlcfa disease, which organelle affected also i think another question same scenario types asking what is given for managment? Medium chain fatty acids was an option
- osteogenesis imperfecta qs asking which collagen affected, options were type 1, 2, 3, 4, 5

- autosomal dominant inheritance pattern dont remember asking what but variable expressivity was an option
- qs describing an study with one group with exposure and one without follwed some time for results, asking what type of study; cohort, case control, rct,
- qs in which a drug was given with a chart given next it that showed increase in heart rate, increase in av node conduction and no change in heart contractility, asking which drug does this; options were a 1 agonist, a2 agonist, b1 agonist, b2 agonist, muscarinic agonist, muscarinic antagonist
- woman with dyspareunia with erythematous and friable vaginal epithelium, asking cause i think, dont remember much about this one
- pt given a medication that interferes with gamma carboxylation of coagulation factors, i think they mentioned vit k, asking which test to be done i think; options were ptt, pt, bt,

# Step 1

- Cell cycle phases of nucleotide and mismatch repair (they gave a scenario I think it was lynch syndrome but idr)
  - Peroxisome defect which organ will be affected (adrenal glands)
- Herpes scenario asked about anterograde microtubule (the ans was Kinesin)
- There was a question on the genetic terms idr the question exactly but do them well
- There was a question on a mode of inheritance also they didn't give a proper scenario just a diagram and you had to assess the mode of inheritance from the pedigree
  - Duchene muscular dystrophy
  - Fragile x inheritance pattern

- Raised afp in one scenario and raised carcioembryo in another and we had to answer which cancer it was
  - Retinoblastoma/osteosarcoma
  - Klinefelter syndrome
  - Trt for CLL
  - Vitamin B deficiencies
- Tb patient w b6 symptoms what is the diagnosis (b6 deficieny was an option but I marked ethambutol adverse effects as the answer bec they specifically mentioned he was on ripe therapy)
  - I think there was a vit c scenario
  - Vit d (do the mehlmann doc for endo whatever is related to vit d)
  - Vit k deficiency
  - McArdle disease
  - I think there was a carnitine cycle question also
  - What will happen if a patient is starving for 8 days
  - One of the dyslipidemias
- Do lymphatic drainage rlly well (there were like 2 questions on this)
- Just do immune well there were a couple of questions on these that weren't hard but just do it well
  - One of them was on c1 esterase
  - Hypersensitivities all of them
  - Serum sickness
  - Cytokines
  - Transplant rejection
  - Immune drugs (I think I got on azathioprine)

- Streptococci and staph
- Meningitis
- Scabies
- Azoles and candida 2 questions moa
- Gave an ebv scenario and asked the class of viruses (it was herpes family)
  - Cell injury question
- Histology picture asked what was the condition (it was amyloidosis)
- Do the oncogenes and tumour suppressor genes well I got 2-3 questions on these
- I got a couple of arrow questions and they were mainly cardio related but prev people got a lot of them so do arrows well
- Lots of random Biostats one of them was a case study the rest were random non numerical questions
  - Lots of ethics similar to free 120
- 2 audio murmurs w a 2 line vignette w barely any info given (it seemed like mvp and as) (the as ans wasn't direct my answer was pulses parvus et tardus)
  - Smth on baroreceptors of the heart as well but idr
  - Tof
  - Arteriosclerosis
  - Atrial flutter
- Torsades (smth about which electrolyte was deficient it was magnesium)
  - Hcm
  - Myxoma location

- lipid agents moa idr which one
- There was a rlly weird question on meds that lowered triglycerides but raised the rest and the only right answer seemed like omega 3 fatty acids but idk
  - Anti arrhythmics
  - Ace and arbs
  - A lot of pharma moas
- Lots of endo just do all of it well lots of adrenal and Cushing questions
  - Siadh
  - Lots of git anatomy and patho
- Lots of msk (musculocutaneous, 2 questions on peroneal nerve, iliohypogastric or inguinal I'm not sure, and reflexes) learn Dermatomes well I got 2-3 questions
  - I think there was a pcl injury as well but I'm not sure
  - Osteoporosis and osteomalacia
  - Paget's disease of bone
  - Gout
  - Sle
- Kawasaki but they gave a picture and asked what other physical findings will be there (ans was strawberry tongue)
  - Churg straus syndrome
  - Myasthenia and lem syndrome both
  - Raynaud phenomena/scleroderma
  - Bullous and pemphigoid vulgaris both
  - Acetaminophen overdose (ans was lowers glutathione)
  - Allopurinol (less 6mp)

# Infliximab

- 2 Questions about Osteogenesis imperfecta study from FA
- Repeated Qs Female Case with BRCA mutation and family history of cancer why doesn't have cancer? Incomplete penetrance
- Case about mitochondrial myopathy cause? Maternal Heteroplasmy
- Typical case of pyloric stenosis asking for diagnosis
- Ulcerative colitis case picture showing crypt abscess
- Mickels diverticulum question forgot the scenario
- An infant that has been fed rice milk for months comes with kwashiorkor symptoms and signs asking about diagnosis which is kwashiorkor
- Many vitamin access and defeciency Qs read first aid
- For example A patient wife died and he only eat something like tea and toast diet develops signs and symptoms of scurvy what is the vit deficiency? Vit C
- Many Questions on type 1 hypersensitivity like what molecules and cells are involved mast cells histamine etc
- Patient with mucocutaneous candidiasis shows Absent cutaneous reaction to Candida antigens while mother has reaction what is the cause: defect in type 4 delayed T cell mediated immunity
- Few questions about gene and mechanism of allergen desensitization therapy I was just guessing random answers as the topic wasn't on first aid so review it
- Case of vibrio cholera what does the toxin activates exactly? Activates GS to increase CAMP,
- Which neurotransmitter release is blocked by c.tetani? GABA and glycine
- Case of otitis externa swimmer child with External ear canal erythema and other symptoms what is the cause? Pseudomonas aeruginosa
- Case of syphilis is treated and presents with herxheimer reaction symptoms and then Asks about the reaction's exact cause in terms of immunology and micro
- Clue cells gardnerella vaginalis
- Coccidioidomycosis Spherules picture
- Repeated Nurse with needle stick injury only Anti-HBs is positive what does it mean? Vaccinated
- Person with removable white patches from tongue basically Oral candidiasis due to Inhaled steroids
- Repeated Question about Bradford hell criteria

- Question about a child 12 years old or around the age with a disease and you want the child to enroll him in the research what you should obtain? Parent consent and child assent
- You admit a female patient forgot why but in history she tells you she was sexually abused by the step father during night time as a child, next day the night shift staff complain of her hostility towards them although you and the morning team find her respectful and cooperative, what is the defense mechanism?
- Classic conditioning scenario about child and vaccine I think
- Murmur in a patient post MI cause? Posteromedial Papillary muscle rupture
- Patient on anti hypertension drug developed edema which med caused it? It was a Dihydropyridine CCB forgot the exact one
- Few Questions about ADH MOA, release from hypothalamus nucleus and receptors check FA
- Repeated question about TBG and thyroid hormone levels
- How do you know if the high insulin is exogenous or not in suspected Munchausen syndrome? C peptide levels
- One question about hexokinize vs glucokinize check FA
- Men 2 syndromes read FA
- Pancreas histology in Type 2 DM will show? Amyloid deposits
- Tracheoesophegeal fistula scenario asking about embryology problem? Problem of septum formation between the structures
- Newborn boy lung hypoplasia and hydronephrosis / posterior urethral valve
- Know the murmurs got some Qs they were vague and audio not very clear
- Know the PH O2 and PCO2 in pulmonary embolism
- Know the physical exam findings in pneumonia dullness etc
- Where do thiazide diuretics work? You will have to point the tubule portion
- Question mentioned granular casts/ ATN
- ... child came cry but after few visits....habitiuation
- 2.. atruism- female with cancer don't won't treatment will help other who has Brest cancer
- ...denial- easy one
- .. MDD with atypical features
- . MVP (audio based diagnosis)
- ...mitral ring dilation ( dilated heart failure diagonsed on basis of audio)

Audio was confusing one was normal

# .giardia berries

- . aids patient cd4 less tha 50... mycobacterium avium.
- ..crohn patient give inflixmab additional drug to prevent infection (tb )....drug given for such prophylaxis asked on basis of MOA ...(mycolic acid inhibition)..
- . infection some drug amoxill...MOA of drug.

# . odds ration solve krna tha

- . confidence interval sample size increase .... width decrease.
- .. case control
- .. genital warts
- .. crohns disese (perianal fissures and long term bleeding given in stem)
- . Beta cystathione deficency
- . pyruvate carboxylase... other carboxylase given.. give biotin
- .. bloody diarrhea child... uncooked beaf
- .. benzocaine applied for ulcer ...heme oxidation.
- .. mentype 1 gene mutation asked
- . ovarian mass left side .... ovarian vessel
- . prolonged QT interval given.. disopyramide
- . horse shoe shaped kidney ascent failure due to... inferior mesenteric artery
- . Klineflter asked in tricky way...

extra X chromosome copy.

- ... lymphatic system develop from which embryologic ..... mesoderm
- ... MSH1 mutation ....
- 27.. endomterial cancer caused by... estrogen
- ... confounding yes... modified effect no
- alcohol and smoking tabe form ma
- .. man go on moon astronaut ...

# bone mass. urine camp (recall wala)

- . pseudohypothyrodism arrows for pth and phosphorus arrows
- 31.. paget disease ka asan sa tha like sound nhi sun sqta + skull size increase .. osteroarthritis.. risk factor..age
- 34.. mestastatic lung cancer slide easy ...renal cell cancer
- 35.. dilated pelvis slide pic.... obstructive uropathy
- .. hypertriglyceridemia... pancreatitis.
- .. pain mediator... bradykinin
- .. rampril effect..arrows
- ... hyperreninemia manifestation

```
.. ret mutation men2
.. pancreatectomy.....25 hydroxycalceferol def
...interperator telephone call
.. 11 year child brough by mother doctor asked for hpv vaccine ...
so guide detail expalanation etc wala option
...female came for additional drug to control diabetes...some but easy one ...
...mites....permethrin...drug......dopaminergic actiivty...
stroke pons....contralteral hyperreflexia..
cerebellum related lesion....shown..ipsilaterak side effects given in stem
..cerebral aqueduct diagram given...
so blockage cause dilation of lateral and 3rd ventricle
.. hipppcampus damage so medial temporal chose.
.. pic of cerebellum given... recall mcq( medial geniculate
..vit A toxicity mcq
53... ADHD mcq
...heroin toxicity
..methadone...withdrawl of opiods symptons
... alcohol overuse ... alcohol dependency
.rett syndrome
....penumothorazx .. venous compression
.. cardiogenic shock arrows
...pneumonia ...neutrophilis...increase
...cml ... drug bcr abl wali.
..nesseria meningtidis... C7 def
..jak stat mutation mcq...
...Beta integrin defect....wbc 80k LADdefect
... 100 % oxygen use which enzyme accelerated.. myeloperoxidase .. good mcq
... potency efficay graph
66....zero order drug graph characteristic
Worst ROC for diagnostic related ... ROC curve used.
...phase 1 clincal trial...
...fungi...azoles for infection
..testes pain came to clinic best risk factor in history....female partner having
infection ... (clamadyia was also in option but that was 6 months back)..girlfriend k
sath recent sti tha so i chose this.
.. inalation .. coccidiodes lung infection. plus erythem
.. contraceptive causes... erythema nodosum
...TGFb .... fibrosis
... collage defect
```

- ... hand contracture...dupuyten contracture
- ... C5 root defect.... supraspinatus
- ..pitcher sport .... infraspinatus..
- ...axillary nerve... shoulder abduction
- ... median nerve compressment in hypthyroidism... glycosaminoglycans deposition
- ... psammoma .... papillary cancer
- ...lateral epicondylitis...extensor wrist action
- ....appendix damage ... artery superior mesenteric
- .. mesenteric ischemia.
- . factor V mutation cleavge defext
- ...alpha thalessemia minor
- .. diabetic gastroparesis git
- .. constipation child .. hisrchprug
- ...pyloric stenosis scenario
- ..Alcohol overuse... acute pancreatitis
- ... hepatitis A ....but asked in indirect way
- .. common bile duct blockage..liver enzymes raised etc etc easyone
- ... diaphraghm irritation... shoulder pain C345
- ....iliotibaial band....sports practice..
- ... pelvic ishchemia mcg excercise buttock pain
- ...tibial tuberosity pain
- ... risk factor ask old age female with family history breast cancer sugar control no other problems etc etc very bizzare mcq... what you checl ist.
- ...infective endocarditis.. viridan
- .... joint infection nesisseria
- 101-jaw ear pain.... vagus nerve.

rickets related mcq xray given rotic rosary give ..answer calcification defect 102

72 year old lady with severe headache (sudden was not mention) pain start 1 hour ago with neck pain no fever diagnosis

- subarachnoid hemorraghe

Meningitis bacterial was also option

103

Population pyramid answer was more death rate

104- Ret poisoning ask about blood finding answer will same as warfarin effect on cloting factor

105hirsprung child-failure to migrate

106 horseshoe kidney ask which process failed to occur embryonic stage answer was

failure of metanephric duct to differentiate -failure to ascend kidney Due to artery was also meant

# General principles:

most imp are biochem and immunology:

Do all genetic diseases

There's a page that has examples of autosomal dominant and recessive diseases.

Revise them. (A good way to memorize is that most enzyme deficiencies are

recessive while most structural protein problems are dominant. Also the imp tumor and cancer syndromes are also dominant)

Do inheritance patterns (pedigrees)

Do imp cytokines (IL1 IL2 IL4 IL6 IL10 IL12 TGF-B TNF-a)

Do the 2 pages of inherited immunodeficiencies.

types of transplant rejection

types of hypersensitivity.

functions of histamine, bradykinin, PGE2

TB related (how granuloma forms, how is it maintained, what type of hypersensitivity lead to BCG scar and the swelling of PPd test. patho and pharma v basic stuff. mainly. I didn't revise.

Public health:

Do all formulae of biostat. But remember that a lot of biostat questions are common sense calculations instead of hard formulae. A few of them would be kind of impossible as well so don't get frustrated.

**Ethics obviously** 

Legal stuff (not very detailed)

Pro tip for ethics vs legal questions:

if it's a question of legality, choose the most by the book kind of answer.

if it's a question of ethics/communication, choose the option that seems very patient focused (i.e. focusing on the family members is wrong), focus on patient's mental wellbeing, their motivations, thoughts etc. Don't ask close ended questions. If in the scenario, someone in the hospital has made a mistake, don't try to explain yourself, don't get into blame game etc. Simply apologise. Similarly if the patient has a condition that you are experienced in treating, admit your inexperience while assuring the patient that you'll do your best.

The options of referring the patient to someone else are almost always wrong, and so are the options of consulting the ethics committee.

Finally for the systems. You don't have enough time to revise everything so

- 1. Focus on systems that you're weak in.
- 2. Do heart sounds as I told you before. EVERYONE gets two MCQs from there.
- 3. Do Neuro strokes and hemorrhages. 2-3 MCQs are a must. Plus usually it needs some revision as well. (At least that was my experience)

# High yield topics:

One thing I missed is micro. Micro is very imp. Mostly sketchy. One topic outside of sketchy is v imp....The rickettsial diseases like ehrlicia and anaplasma. Other than that imp stuff from micro is interpretation of HBV serology, differences in the types of malaria (patterns of fever and lab findings). Also babesia lab findings. Also a thing I forgot from Immunology: theres a table near the start of the chapter where lymphatic drainage is given. From that table do drainage of stomach, gonadal, genital and anal regions.

Speaking of these regions also open your Repro chapter. There note that clitoris, head of penis and anal region (superficial part at least) have the same nerve supply (branches of pudnedal)

# From the Endo:

Do psuedohypoparathyroidism presentation (short 3rd 4th digits) and its lab values. Also administration of PTH in such individuals will have no change in the lab values From thyroid: postpartum thyroiditis, subacute one and fibrosing one.

From insulin: remember that c peptide is used to differentiate between endogenous production and exogenous administration. Someone may be malingering. Also a kid with DKA, and autoimmune conditions and family Hx of T2 DM. the more important risk factor for kid's DM is his autoimmunity and not the fma Hx of T2 (since the child has T1)

# From gastro

H. pylori is the most imp risk factor of peptic ulcer whether duodenal or gastric. Presentation. H2 test. Treatment.

Gallstones types. Radiolucent vs opaque also the colour and causes Contents of gastroduodenal ligament and pringle maneuverer From cardio: cardiomyopathies presentation and cause. Drugs causing torsades.

Form hema: ristocetin test.

TTP, ITP, HUS comparison labs etc

From MSK:

Giant cell tumour, osteoid osteoma, osteoblastoma, osteosarcoma, ewing

sarcoma

All tests for knee ligament injuries. Varus force, valgus force etc.

Pemphigus vulgaris vs bullous pemphigoid.

Scc vs bcc appearance.

Melanoma has the most metastatic potential of the three iguess.

Osteoarthritits vs RA.

Osteo has involvement of DIP; RA doesn't

Gout vd pdeudo gout lab i.e negative vs positive birefringence. Psedo is related to hemochromatosis.

From Neuro:

Do headache types.

Do alzheimers, frontotemporal dementia, parkinsons. Do their histopath from nbme pictures pdf.

Psych (already discussed)

Renal:

**RCC** histo

Transitional cell carcinoma and squamous cell carcinoma of bladder risk factors.

Acute tubular necrosis. Brown casts. Causes according to types.

Reproductive:

Ligaments of ovary and uterus esp the one containing vessels.

Seminoma/dysgerminoma, krunkenberg tumour,

# Respiratory:

Emphysema (normal oxygenation) and chronic bronchitis (cyanotic).

Presentations esp how to differentiate between two presentations.

# Review::against odds I got the same questions

- 1. ristocetin negative >> vWB factor deficiency
- 2. A guy went to a high altitude .. after a while what do you expect his acidbase balance to be?

respiratory alkalosis with metabolic acidosis

- 3. Tetanus .. where does it bind? Synaptobrevin
- 4. What is the cause of coma in DKA? Something like the sugar was too high

- 5. A patient taking statins .. where are they metabolized? CYP3A4
- 6. Thalassemia pt .. a lot of transfusions .. a dark pigment in macrophages .. what is it related

to? Hemoglobin

7. Sickle cell pt .. he got sever back pain and warmth .. you give him antibiotics .. what is the

next step? I chose MRI of spine .. there was bone testing and cooling the area

- 8. A picture of Diphillobothrium Latum and they asked about the drug? Praziquantel
- 9. Picture of patient with tinea capitis .. but it was some other name "phyton" .. sorry I forgot

exactly what it was

10. A pt with kidney problems .. how do you know it is in the kidney and not like pre-renal? I

chose NA>40

11. A pt who got in an accident or operation .. after a couple of days he got oligourea .. where is

the damage most likely? PCT

12. If you change the diet from carbs to fat .. what changes in total cholesterol, LDL, HDL? Up,

up"higher", down

13. A pt who starting exercising but eats fast food 6 times a week .. if he doesn't change the diet

what will happen?

Decrease glucose, Increase insulin, Increase LDL, increase cholesterol, increase HDL I chose insulin

14. A pt with pheochromocytoma .. arrows: hematocrit, glucose, insulin

I put up up down "there was no all up btw"

- 15. CML pt taking imatinib .. what drug will decrease its plasma concentration? I chose rifampin
- 16. A patient with hand pain and unable to extend PIP joint in ring finger .. when the doctor

extended it it gave a popping sound ..... I chose stenosing tenosynovitis ... there was also RA

- 17. A microscopic picture of a heart after MI and they wanted to know when it happened..
- 18. 6 year old visited her grandparents, they live in a farm and the water source is intoxicated

...then after 2 days she became cyanotic , Po2 normal , Pco2 normal o2 content low  $\dots$  the

blood was brown even after using filtration paper? There was accumulation of bad

hemoglobin, unbalanced alpha and beta chains, increased activity of HMP shunt, I forgot

the rest

I was thinking hemolysis but later I realized it could have been arsenic poisoning .. sorry I

don't remember if there was an answer for it

19. A new home HIV test .. they want the least amount of false negatives possible .. they gave

values for sensitivity and specificity >>> 99% sensitivity, 70& specificity ... we need the

highest sensitivity.

20. Pt with relapsed Lymphoma with 5% chance of surviving 6 months, doctor offers to join a

new clinical trial, pt refuses, wife begs to enroll him

try and convince him

Tell the wife that pursuing the clinical trial more is not advisable "I chose .. I didn't want to

try to convince him"

(other options were to enroll him, call his kids, put his power of attorney in effect. The

question stem didn't show signs of depression)

21. Experiment on Pts with Down syndrome and Alzheimers. 5 mRNA found on chromosome

21 that inhibit Methyl-CpG-Binding Protein 2 (MeCP2), which has control over other gene

expression that control neuronal maturation. What is expected in Down syndrome pts? I

chose unregulated expression of the neuronal genes .. other options were (overexpression of

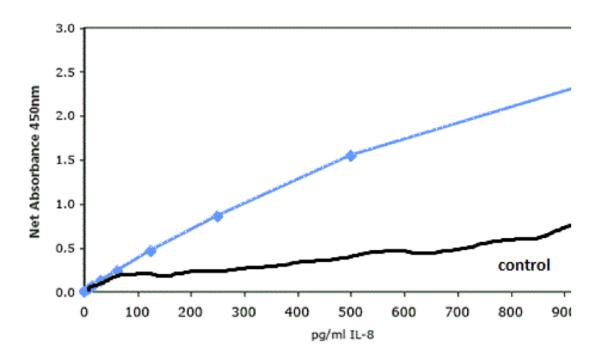
MeCP2, absence of the mRNAs, less neuronal genes .. one other I forgot but it was more in

line with less expression of the genes)

22. An experiment with a lot of useless information about different genes being mutated in a

disease .. then they asked about one of those genes which had mutation in a non-coding

region >>> it was pointing to it having an effect on gene expression



23. Direct ELISA explained, chart with fluorescence readings increasing with concentration of

substrate The answer was concentration-dependent something. .. looks like this .. but a bit

more complex.

- 24. Before starting treatment with Cetuximab, what gene should we assess its function? RAS
- 25. 14 mo is not walking yet, can stand by holding a table -> I chose normal .. other option from

dwrat was Duchenne .. but he is too young for it I think

26. How does B12 def. Cause megaloblastic anemia -> (options included increased

Homocysteine, abnormal DNA synthesis "I chose .. thinking that lack of b12 leads to less

folate therefor lack of nucleotides")

27. Decreased 1,25VitD3 with normal 25VitD3, pt is 70 something, takes a lot of Vit D

supplements, what do you expect -> (options included decreased 24hour urine creatinine,

increased urine phosphorus, and other options with phosphorus and calcuim) I chose creatinine .. thinking of kidney damage

28. Kid with Nieman-Pick type C, accumulation of unestrified cholesterol, where in the cell?

lysosomes

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29. Pt with increased Km of HGPRT compared to PPRT -> there was no decreased purine

salvage .. so I chose increase production

30. Old Pt (60s) with 3-4 episodes of exploding diarrhea everyday for months, normal B12, low

folate and iron -> (Celiac disease, disacchridase def., zollinger Ellison .. dont remember the

other options)

31. Kid had cough and died, they show picture of what they took out of his throat (the

pseudomembrane), organ affected -> Heart

32. Bloody diarrhea, negative stool culture, colonoscopy showed ulcers with inflammation,

treatment -> I picked Metronidazole .. probably amebiasis

- 33. Researcher wants virus that doesn't integrate in genome -> adenovirus
- 34. Old pt with dementia (I think alzheimer) gets scared from the tv, but crosses street without

fear of cars, lesion? I picked amygdala (other options: insula, thalamus, hippocampus)

35. Cardiac cycle chart, decreased ESV and decreased afterload, what drug was administered ->

**CCB** 

- 36. Hydronephrosis d/t ureteral obstruction at pelvic rim -> common/internal iliac aneurysm
- 37. Picture of calcium oxalate stone .. I think urine PH was 7 (there was also struvite, calcium

phosphate, calcium oxalate and phosphate) ...

38. Pregnant with BP 140/90 what test to confirm the diagnosis? There was liver function test,

kidney function, urinalysis .. not sure

39. Skin nodules, hematuria, and other symptoms, multiple aneurysms in the renal artery

polyarteritis Nodosa

- 40. What hormone would be higher in a healthy 75 yo than a 25 yo? FSH
- 41. Pt with AF, Hyperthyroidism, and 180/140 BP, they gave him Propranolol and asked what

would be also given? I picked Radioactive iodine (other options, propylthiouracil, lithium,

amiodarone, and I think methimazole too)

- 42. decreased Gastrin -> decreased histamine from enterochromaffin cells
- 43. RUQ pain from a little time before food till 2-3 hours after, biliary sludge, what

neurotransmitter caused the onset of the pain? I picked Substance P ... there was also Ach

44. 14 yo, he lost all his teeth at age of 4, he doesn't brush or visit dentist, the exam today

showed normal number and distribution for his age, now he has gingivitis and malocclusion,

reason of malocclusion?

45. I chose early start of permanent teeth .. there was also dental caries on permanent teeth

which some of the recall chose before

- 46. Fall on outstretched hand .. xray -> lunate dislocation
- 47. A picture that shows loss of bilateral visual fields .. where is the problem -> optic chiasm
- 48. Lower left quadrantanopia -> right parietal lesion of the optic tract
- 49. Pain elicited when brushing teeth or shaving -> trigeminal neuralgia
- 50. Respiratory distress in neonate -> decrease production of dipalmitoylphosphatidylcholine ..

there was also decrease surfactant protein D .. don't let this one confuse you

51. Nipple hemorrhage, intraductal tumor, keratin positive, it had epithelial and myoepithelial

cells. Not sure .. Options were (Adenocarcinoma, Squamous cell carcinoma, papilloma,

Fibroma (I think) and one more option)

- 52. Rate-limiting step in axonal regeneration. slow anterograde transport
- 54. HIV pt with esophageal lesions, organism? HSV
- 53. 3 mo can lift his head, doesn't smile, and he doesn't coo or make sounds -> motor normal,

social and cognitive delayed

55. 14 yo male, has lesion on his face with picture, they say prednisone but didn't work.

diagnosis? I picked acne "It looked like mild acne to me .. not like FA", eczema was an

option.

56. A kid was bitten by a bat and given rabies antitoxin, 12 days later he comes with fever, lack

of appetite, and physical shows coryza. (not sure whether he had cervical adenopathy). there

was serum sickness, rhinovirus, allergies ... probably rhino

57. Ovarian mass, what would be associated with it? ascites "the exact answer was shifting

dullness"

58. Classic history of carpal tunnel syndrome, asks what test would elicit the pain? flexing the

wrist (Phalen's maneuver). There was tapping on the cubital fossa .. don't get it confused

with tinnel's sign "tapping on the wrist"

59. comapring between the knees of patients with septic arthritis and Osteoarthritis? lower

glucose

- 60. There was a question about colchicine >> inhibiting leukocyte migration to the joint
- 61. A person who got his mouth stuck in open position .. you need to relax which muscle ->

lateral pterygoid

62. I had the question "I was told it is from recalls" about problems defecating where the woman

has only one or two bowel movements a week .. she tried more fiber but didn't help,

colonoscopy showed many diverticuli but nothing else, she said she has to push the wall of

the vagina to help the process, what is the cause of low bowel movement? - Problems with rectovaginal wall "recall answer" - Wall inflammation "I chose"

- Loss of gastrocolic reflex Loss of the ganglia in colon Sorry forgot the last one
- 63. white couple brought their African American daughter ( they adopted her from the foster 3

years ago), she is at tanner stage 2 for both breast and pubic hair.....what is your initial

response? -black girls usually go to puberty before whites. "the answer .. also Hispanics" -Assess her pituitary gland function because you suspect a tumor -tell them that is possible since she had been abused when she was in the foster.

64. one of the physicians smells alcohol, he has been going through a stressful situation recently

and he got divorced recently, but otherwise he is a great doctor and they call him for

complicated cases...what should you do? - report him

65. long question ,they give you symptoms of CN7 injury only in upper face, and they

mentioned that there is no hearing loss, tinnitus, but there is a small swelling just anterior to

the mastoid, Where is the lesion?

I chose parotid gland ... there was also stylohyoid foramen - external auditory internal

auditory

66. An experiment of activation CCK-B?

stimulate ECL cells to release more histamine

67. drug abuser after rehabilitation, he is going to see his friends that he used to smoke with

them, but he is afraid if he sees them, he'll crave for Heroin, What happened in his brain? -High dopamine in nucleus Accumbens - Low Dopamine in Nucleus Accumbens -Low GABA in cortex - High GABA in Cortex

forgot the other 2

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68. a study on 5000 pregnant women, 39 of them had HSV during pregnancy, only 7 babies had

congenital HSV, after that they divided the women into 3 groups: ( percent of pregnant

women, percent of babies who had congenital HSV) - active lesions during delivery (58%, 45%) - premature membrane rupture (28%, 25%) - women who didn't take treatment (14%, 84%) - what is the greatest risk factor to develop congenital HSV? treatment

69. nerve responsible for hiccups (Vagus or phrenic).

70. An experiment, we knocked out a gene in mice "homozygous for it", the 1st gen was normal

phenotypically, however 6th gen had problems with spermatogenesis and blood cell

proliferation, when checking the leukocytes we found 37% aneuploidy.. what does the knock

out gene do?

Telomerase "recall"

Kinetochore "I chose because of the aneuploidy"

71. pedigree and southern blot., I will try to describe it as much as I can ......the mother is

healthy and she has the highest piece on the gel .....the father has a lower piece, and the 2

children have even lower pieces .. the disease had something to do with bone marrow I chose

telomerase

72. a woman who had an injury after she while she was serving in a tennis game, then they show

you an MRI at elbow with ligament in the anterior that is ruptured, what is defect(I think it

was the biceps) - supination - elbow flexion -extension

73. patient had Myxoma of left atrium so we want to remove it through the right Atrium "I think

they said through right atriotomoy", when getting to the left atrium, which part, if got

injured, could affect the conduction system? - posteroinferior region of the interatrial septum near the opening of the coronary

sinus

"word for word from moore's anatomy for AV node" - the other choices were around the fossa ovalis and the limbus

74. a patient with CF then they found a hypochlorous acid "hypochlorite" during bronchial

lavage...what is the source of the acid?

I chose Neutrophils .. there was macrophages and bacteria

75. pt with axilary petechia ,chest pain after coronary angiogram?

Atheroscleroma – Thromboembolism ... not sure .. sorry forgot the others

76. pt with asymptomatic hypercalcemia what is the best next step? -order PTH

77. patient with PDA which artery has the lowest Oxygen???? -right pulmonary - Left pulmonary -right subclavian - internal illiac

78. pt has MI in LAD then gives you: Cardiac output= 3.5, systolic blood pressure= 120,

diastolic= 80, left ventricle pressure= 15, then asks you what is the maximal force that

moves the blood from LDA to the endocardium?  $65 \dots$  there were  $80, 120, 95 \dots$  and others

79. 77 year old patient with h/o heart failure just dead due to Pulmonary edema, what are you

gonna see in the autopsy?

I chose increase in both lungs weight ... there was also venous engorgement and dilation

80. young patient with HTN?

fibromuscular hyperplasia - atheroscelrosis in the renal artery .. there was also stenosis of

renal VEIN .. I almost didn't notice

81. patient had radiation when he was younger then he developed lymph node sclerosis then

show you 2 xrays lateral and anterioposterior...locate the lesion?

I saw a shadow in the anterior mediastinum .. there was also right helium -left helium

and others

**IL-12** 

2. Given values (0.8, 0.8, 0.9, 1.0, 1.1, 1.3, 8.0) and said if the first 0.8 was recorded as 8.0 what

effect would happen to mode, median and mean -> all increase

- 3. Study to compare hypertension prevalence between USA and Europe -> Cross-sectional
- 4. Big number of patients divided into two groups one recieving the drug and the other placebo >

Phase 3 clinical trial

- 5. In a community 15% were found to have a disease -> prevalence
- 6. Study of risk with Odds ratio of 2.0 and Confidence Interval 95% of (1.2-3.0) > Exposure

associated with increased risk

7. Bigger sample, table of three column (Chance of type I error, Type II error, Statistical power) >

no change in Type I error, decreased chance of type II and increased statistical power

8. Pt with living will that says don't save her life if she's gonna be dependent (or smthng like that),

doctors estimate she has a reasonable chance of full recovery -> leave her intubated

10.

17 yo tells you she wants contraception when her mom is waiting outside -> I picked to

ask her what she knows about safe sex practices (other option was to educate her about

effectiveness of different contraception methods)

11.

Pt has an autoshop, develops renal failure and tells you he can't pay for it -> Medicare

(there were two options with Medicaid, one had declaring bankruptcy, and the other was also

unreasonlable)

12.

Daughter of old pt says he got lost twice recently, he does his own chores -> interview pt

alone with full cognitive exam.

- 14. Increase of Uric acid -> Purines
- 15. Increased Adenosine in cells (ADA) -> absent B and T cells
- 18. Pedigree with X-linked Dominant inheritance (all daughters of males have it, half the kids of

females)

20. There was another question with PTEN and other proto and oncogenes in the options but can't

remember it, sorry.

21. Kid with mental retardation, very nice behavior, chromosome 15 -> maternal deletion +

paternal methylation (Angelman)

- 22. Hardy-Weinberg. Q2 = 1/2500, what is the incidence of heterozygotes -> 3.9%
- 23. Short limbs, big forehead -> FGFR3
- 24. Heart sounds, Murmur on mitral ascultation, tall and other marfan signs -> MVP
- 25. CT of abdomen, renal mass, polycytemia, Jak-2 negative -> VHL
- 26. Recurrent pulmonary infections, Fatty stool -> defective trans-membrane ion regulator (CF)
- 28. Picture with multiple skin lesions, history of travel to the middle east -> Leishmania major.

30.

Calcium and PTH chart, it was at increased PTH and decreased Calcium -> I picked

Osteomalacia

31.

ADH and serum Osmolality chart in nephrogenic diabetes insipidus from lithium -> I

picked increased ADH and Osmolality

33. Metronidazole + Alcohol, how does Metronidazole cause disulfiram reaction? Inhibiting

aldehyde dehydrogenase (another option was inhibiting CYP 2E1)

34. Lead poisoning, increased zinc protoporphyrin. How long after treatment does zinc

protoporphyrin go back to normal? 120 days

35. Burn of entire upper extremity, what percentage of body? 9% (rule of 9s, head and upper

extremity each 9%, lower extremity 18%) https://en.wikipedia.org/wiki/Total\_body\_surface\_area

36. Female with Menorrhagia, bleeding from gums after dental procedure, decreased ristocetin

agglutination -> vWD def.

- 37. Infant has Von Gierke symptoms -> glucose-6-phosphatase
- 38. Infant with heart enlargment, lethargy -> Pompe -> Acid maltase def.
- 39. Kid with Gaucher, site of accumulations? Lysosomes
- 41. Site of modification of Insulin receptor (I think) -> there was no Golgi, I picked ER
- 43. Uncoupling in mitochondria -> Increased energy consumption at rest (another option was

decreased electron transport)

- 44. Pt has decreased superoxide in his neutrophil -> NAPDH oxidase def.
- 45. Dihydrohodamine test -> NADPH (I don't remember if it was in the same question before or

in a different one)

- 46. pt with DM, toe gangrene caused by -> Mitochondrial superoxide dismutase
- 49. A nevus, origin of cells -> neural crest
- 47. Picture of a blood vessel with neutrophil attached to the wall, history of inflammation ->

Integrin (ICAM)

- 50. Injection of Fatty acids into proximal intestine -> CCK
- 51. Pt on statin and (not sure Niacin or ezetimibe), LDL still high -> cholestyramine
- 52. Pt taking lipid lowering agent has flushing and other symptoms (Niacin) -> give aspirin
- 53. North Carolina, rash on plams and feet -> Rocky mountain spotted fever
- 54. Pt with rusty red sputum, picture of what looked like aspergillus (not sure)
- 55. Kid had recent sore throat developed symptoms of rheumatic fever and died -> carditis
- 56. Yellow urethral discharge, picture of gram stain -> N.gonorrhea
- 58. Influenza binding to cells -> Hemagglutin
- 59. Undercooked meat -> E.coli O157:H7
- 60. Pt after surgery has muscle weaknes, has lung mass, and a table of values (End-Plate potential
- decreased, Minimum End-Plate Potential and ACh binding are Normal) -> LambertEaton
- 62. 93 yo Pt with picture of alveoli with massive inflitration, reason -> Aspiration
- 63. middle aged male pt with symptoms of isolation lack of affect and not speaking, over short

period, brain biopsy looked somehow like this

"http://i2.cdn.turner.com/cnn/dam/assets/130905140549-creutzfeldt-jakob-disease-storytop.gif"-creutzfeldt

jakob-disease-story-top.gif, sorry can't remember the other options but I picked PrP (Creutzfeldt

Jacob) there wasn't any psychiatric options.

64. Central line, infection, S.epidermis wasn't in options, I picked S.aureus

- 65. infant with SCID, we used a virus to add a missing enzyme, pt developed monoclonal T-cell
- Leukemia -> I picked virus integrated next to oncogene
- 66. Kid with axillary lymph node enlargement and papule on his hand, I picked Bartonella
- 67. Facial nerve palsy, hiking -> Borrelia (the asnwer was spirochete infection)
- 68. Pt with Syphillis -> Jarisch-Herxheimer reaction
- 69. Picture of leukocoria, what gene -> responsible about something with E2F (Rb gene)
- 70. History of travel to Africa, Picture with RBC inclusions (very few), question was about drug
- used to prevent recurrence -> Primaquine
- 72. Newborn with chorioretinitis and brain calcification (congenital toxo), route of infection of
- mother -> I picked undercooked meat
- 73. Picture of Diphyllobothrium latum -> Prizaguantel
- 76. Cells infected with EBV -> CD21
- 77. CCR5 -> macrophages
- 78. Tennis injury while serving, saggital MRI at elbow with ligament in the anterior that is
- ruptured, what is defected -> options: pronation, supplination, elbow flextion, extension. The
- picture is just like this one with what I remember as the biceps tendon ruptured
- 79. Jersey finger, Pt grabs another players jersey with his ring finger -> ulnar nerve
- 80. A question about PID and chlamydia, can't remember exactly
- 81. Pt given ribavirin and another drug -> HCV

- 82. female Pt with episodes of blindness that resolved, weakness in lower limb (MS), treatment?
- > Inf-B
- 83. Tenofovir -> availabe orally in active form
- 84. Loss of MHC-II -> loss of positive selection of CD4
- 85. 28 yo Pt with Sickle cell, risk of infection with -> S.pneumo
- 86. Male Pt got marrow transplant from his sister with the same HLA-A,B,C,D... started getting
- GI symptoms and rash -> I picked graft vs host, another option was graft rejection
- 87. We found IL1,2,4,5,10,12 what kind of cells are there? T-cells and macrophages
- 88. Thyroid tumor with amyloid (medullary), monitor with-> calcitionin
- 89. Pt with asthma, which mab? Omalizumab
- 90. Osteosarcoma, what mutation -> I picked p53
- 91. Most mortality tumor in women -> lung
- 92. Ileus after surgery -> M3 agonist
- 93. pt with schizophrenia symptoms, treatment -> D2 antgonist
- 94. Gynecomastia with diuretic -> K-sparing
- 95. Pt with seizures you describe Phenytoin, you have to alert him not to -> I picked drive
- 96. Hypovolemic shock -> decreased CO and increased TPR
- 98. Mitral regurg. -> squatting increases murmur, and hand grip increases murmur
- 99. Hydronephrosis -> atrophy
- 102. Membranous VSD, what is prone to injury during repair? options: AV bundle, tricuspid cusp

- 103. Purulent discharge from umbilicus, infraumbilical fluid filled structure -> Allantois
- 105. DM type II, what is seen in urine indication diabetic nephropathy? Albumin
- 106. Polycythemia Vera, abdominal pain, splenomegaly -> Budd-Chiari
- 108. Picture of hepatic cavernous hemangioma

http://classconnection.s3.amazonaws.com/747/flashcards/1392747/jpg/133a1 336058459838.jpg

109. Adenosine anti-arrythmic MOA -> K channels

Visit medcrucal for more

111. Male infant with penis but no testicles outside, testosterone levels are not detectable, what

cells defective? Leydig

- 113. Congenital diaphragm hernia x-ray
- 115. Epigastric pain and hypermotility, what nerves? I picked Celiac splanchic trunck

(there was superior mesenteric and other similar options)

- 116. Pt with chronic pancreatitis, fatty stool, treatment? Pancreatic enzyme
- 117. female Pt went to Brazil, has T.Cruzi, what organs will get damaged? GI and heart
- 118. Pt with asthma takes Aspirin for joint pain, has asthmatic attack that doesn't respond to B

agonists -> Leukotreins receptor blocker (Montelukast)

- 119. Pt with increased indirect bilirubin -> Decreased UDP-glucoronyl transferase activity
- 122. Chronic blood loss, what is elevated -> transferrin
- 123. Heparin toxicity -> Proteamine sulfate
- 124. Lytic Bone lesions, what cells implicated? Plasma cells

- 127. To get to the brachial plexus -> between scalene anterior and middle scalene
- 129. Prostaglandin causing fever -> PGE2
- 125. What stage in cell cycle does bleomycin (history of pulmonary fibrosis) play his effect? G2
- 130. Meningocele at T12 -> defect in primary neurulation
- 131. Aphasia, intact comprehension and impaired repitition -> Broca
- 132. COPD then JVD and RHF symptoms, reason -> hypoxia induced pulmonary vasoconstriction

135.

Normal pressure hydrocephalus, gave us symptoms of ataxia and cognition, what else

would you expect? Decreased inhibition of detrusor (urinary incontinence)

136.

Bilateral schwannoma, abnormal neurofibromin 2 protein, usually located on membrane.

normal function? contact inhibition of growth

- 138. in surgery on 17 yo, anesthesiologist chose to use rocuronium, why? faster onset of action
- 139. Two questions on MAOs (Phenelzine) and hypertensive crisis.
- 140. Doctor dismisses pts saying he stopped drinking, as the doctor had an irresponsible brother
- > Countertransference
- 141. After telling pt of mass found on x-ray, she goes back to ask you about her cough > denial
- 142. Mother of DM type I kid, she says that the readings she get every morning are

hypoglycemic, when downloaded, the readings are different that what the mom recorded ->

Factitious by proxy

- 143. female Pt cuts wrists after breaking up -> borderline
- 144. Bulimia -> SSRI
- 145. Twin embryos found dead d/t cord enlargement -> Mono/Mono
- 147. Recent sore throat, hematuria -> Immune-complex deposition
- 148. Ischemia leads to oliguria, defect location? PCT
- Graph of 2 drugs ,they have the same Km but different Vmax . partial agonist
- 2- question about a man who wants to change his diet from chicken and meat to fish, what should you tell him, you will see 5 funny answers: -- salmon,

  Tuna and cold water fish have the highest omega 3(I chose) answer about sardine fish is better than chicken, even fried fish still better than boiled chicken.
- 8- diaghram comparing the Kidney and skeletal muscle during exercise( AV gradient) .....you will see that the muscle AV gradient will lower, while kidney is stable ...why?? stable ion movement system( I chose) -blood shifts from cortex to medulla during exercise kidney doesn't porduce LDH
- 20- media question: 66 year old male 2 syncopal episodes and chest pain on exertion .....how to relieve his symptoms? valve replacement
- 21- media: marfan patient .....> MVP
- 24- pt had a gun shot and massive bleeding then asks you about cardiac output and TPR?

- 25- another female pt has a hemorrhage ...then she had orthostatic hypotension
- ... why she has tachycardi?
- .- decreased preload increased PVR -decreased PVR
- 26-female had breast cancer , osteosarcoma and Leukemia ? p53 -BRCA-1 BRCA-2
- 27- pt after a car accident with multiple rib fractures and hypotension then show
- you CT, What is the source of bleeding? spleen pancreas stomach duedunum liver
- 28, 29-guys please review the locations of the valves on (Xray and CT) I got two
- questions about the aortic valve.
- 30-pt with history of resected lymphoma and Epilepsy, she takes seizure medication she came today with some lymph nodes that are swollen, the doctor
- suspect that her lymphoma didn't recur ....what should he stop? valproic acid phenytoin
- 32-a young woman with MS, tx? interferon beta
- 36- patient can't lift thumb from the table ... extensor pollis longus
- 38-60 year old female with history of Osteoarthritis, what do you see
- arthroscopically? -synovial cartilage destruction increase synovial fluid
- 39-68 female pt has urgency she has to go to the rest room 7-8 times during the
- day, 3 times during the night, no history of infections ..tx? -anti M3
- 46-A nurse inserted the needle more than usual in the cubital fossa during a
- transfusion session, so the patient had pulsatile bleeding, Which artery? brachial

artery

52- African American pt with DM and HTN you prescribed him Insulin and HCTZ,

he came back after 6 weeks with HBA1c 5.5% and elevated blood pressure ,when

you asked him if he is taking his blood pressure medication ...he avoid to answer...what is your initial response?. - please take your medications and comeback after 6 weeks.

- do you know that blood pressure would kill you also as DM would do. - what do you know about HTN . - why it is too hard to take your medications.

55- a picture of both feet then asks you what does the patient do? - lifeguard in a pool - gas refinery

58- pt with story of acute appendicitis and gives you elevated WBC then asks you

what do u find else? - CRP elevated

59-long history you can solve the question only when you look to the labs:

LDH

elevated and anion gap metabolic acidosis  $\dots >>$ small inetstine infarction

62-pt takes simvastatin then had hematurea and rhabdomyelesis, so You stopped

the Simvastatin, what test you should order also?.....order TSH

63-3 months old child with cough , 50 times/day, he is not Immunized

....>>>Bordetella

64-bloody diarrhea, in a family they like to eat hamburger?

enterohemmorahgic

E.coli

66- Hiv patients with neurological symptoms and a lesion in the white matter?

.....Hiv encephilitis

67-( NBME 15 question) Pt after surgery has muscle weakness, he has small lung

cell carcinoma, and a table of values (End-Plate

potential decreased, Minimum End-Plate Potential and ACh binding are Normal) -- -Lambert-Eaton Myastheni( the choice was like this ) - Myasthenia gravis

69-subclavian line, infection and erythema in the site of injection.? Staph.A

73- young female with PID then ask you about treatment....ceftriaxone

77- anorexia nervosa best initial treatment : - SSRI - atypical antipsychotics

82 - pt with palpitation weight loss, tremor ..... Hyperthyroidism

83- Gastric Ulcer and patient taking Aspirin what is the best treatment? - PPI

84- pt with ZE and ulcers on the first portion of the duodenum....best

Treatment? -PPI

89- a women comes to you due to failure to concieve, assume her ovoulation happens only at day 14 of her period ....then asks you about the hormone levels in

day 13? (FSH, LH, Estrogen)

92-long question then they meintion Dihydrodamine test....>>>CGD

97- ISoretenoinn mechanism......stimulate differintiation of epithelial cell

98-patient with restrictive lung disease pattern, then then found birefrengent lesion? sillicosis

99-pain increase with respiration and PR prolongation? pericarditis

100-Duchenne, what is the normal function of the missing protein ?. - connection to extracellular matrix

101-patient with lymphoma you decided to start him on steroid....what is the mechanism of action ?? - binds to intranuclear receptors

102-low WBC after chemo......tx: filgrastim 104-pateint with HTN and low K what else are you are gonna see? - low renin level. 105-pharmaceutal company invented new drug, and one physician who is affiliated with some hospital would like to use the new drug, he has to have permission from????? I chose National institution of health...... there was also -committe ethics 107-a diver and his assistant provided him mistakenly with another gas ....so he had some confusion and seizure when he came up back to the surface ...which gas is responsible???? o2 - Helium -co2 -nitrogen 108-gross picture of skul, then gave you symptoms of CNv1, CN 4, CN6) you should locate the superior orbital foramen. 109-a Vegetarian from 5 years and macrocytic anemia ....b12 111- young female had a radiation therapy then she didn't have any periods for 8 months, hormone levels.....(FSH, LH, estrogen) 112- patient had Ecoli infection then developed septic shock ......which virulence factor is responsible? -Lipid A 113- rash after delivery which drug is used in anesthesia......morphine 114- abscence seizure and taking valproate, where does it work? t- tubule thalamus 115- young female she had episiotomy on the medline then she developed bowel

incontinence .....branches of pudendal

116- African American male who developed HTN recently, but he otherwise healthy, what is the best initial treatment...>>>> HCTZ

- >aeroplan travel presented with leg swelling?--> DVT
- >categorical data comparision in cycling with helmet and without helmate cases-chi square to choose
- >phase II of clinical trial
- >case series
- >ibutilide MOA
- >hyper TG what to give fibrates
- >radiolabelled hormone acting on cell surfacea prolactine/growth factor/steroid
- >abd aortic aneurysma risk d/t atherosclerosis
- >BPH- which pathway increases atestosterone to dihydotestosterone
- >graph of pantoprazole and cemetidine
- >AML treatment-ATRA MOAa maturation
- >staghom pie-risk factor for thisa infection
- >patient on acetazolamidea blood !HC03, !PH, !CO2
- >question on infertility due to PID
- >prick on buttock developing lesion that has crepitus on palpationa necrotizing fasciitis
- >jarish hex haimer reaction- syphilis pt given penicillin develops fever chills rash
- >fungal lesion on perineal area of a baby in pie-caused by trichophyton
- >tetanus C/V- how toxin reach CNS-a dynein
- >CT image of subdural hemorrhage-bleeding from which veina bridging vein
- >CT showing infraction-Postrior cerebral artery area invoved >NADPH deficiency
- >one question on margination
- >MI patient- elevated enzymea is due to plasma membrane lysis/mitochondrial/nuclear
- >CCF- pleural fluid----causea increased hydrostatic

# pressure

>neural tube defect-what might also present-

excessive daytime sleep, looks fresha restless leg symdrome not in option, no any other feature suggestive of narcolepsy described-choose hypersomnolance disorder >C/V staring f/b jerky movement of a limba complex partial seizure to choose

- >MOA of methimazole- inhibits peroxidase enzyme
- >HIV with cortical atrophya hydrocephalus ex-vacuo
- >patient telling doc you are too nicea idealization
- >alzhemier due to which neurotransmittera Ach
- >C/V of delirium
- >anorexia nervosa, risk for whata hypokalemia in option
- >increased homocystine, decreased methioninea def of what? Vit bl2 in option
- >increased homocystine, increased methioninea what to give? Vit b6 in option
- >loss of husband, low mood most of the time,crying, plays with pet sometimes but the duration was 2 yearsadx depression
- >c/v of panic disorder
- >2 Q of brain pie to identify the area of involvement for the neurological feature described in vinnete
- >RTA- excessive blood loss, appropriately manageda on 2<sup>nd</sup> day oliguria-what u expect in urinalysisa granular tubular cast
- >graph of pressure recorded over time in GITaearliest wave seen in small intestine and then stomach-Q was where does that wave started no superior mesenteric plexus in option, ticked celiac plexus
- >conservation of volume develops in what age?--> 11 years >ossification center in elbow, not in kneea whats this? Normal/achondroplasia

- >C/v of osteoporosisa what to give-bisphosphonate
- > CN of fibromuscular dysplasia
- >c/v of factor V leiden

- >persistent sweating on hand--- what to resect-upper thoracic sympathetic ganglia in option
- >pansystolic murmur of MR
- >pressure volume loop, where does mitral valve closea >macardles diseasea what increase in muscle-glycogen in option
- >e. coli sepsis in infant-which enzyme defecta uridyltransferase >strep pneumonia infection then sepsisa what is responsiblealipotichoeic
- >DM woman- whitish vaginal discharge and itching-what to give-fluconazole
- >precocious puberty in male- what to seea 17-progesterone/karyotyping
- >husband asking her wifes information on phone-best response---cannot share her information without her perm1ss10n
- >antidote of 5-flurouracil
- >CD25+, FOXP3 + flowcytometry pica.regulatory T cell
- >MELASa heteroplasmy (variable expression)
- >c/v of a condition described-to choose incomplete penetrance >left shift ofHb02 curve with hyperbolic curve-so increased affinity and decreased (loss of) co-operativity, as curve is no more sigmoid shaped. >mucicarmine stain-Cryptococcus infection >chloroquine sensitive also treated with primaquinewhya to prevent relapse
- >double ring in a RBC shown, in which plasmodium it occursa p. falciparum
- >tumor necrosis factor alfa (TNF- alfa)

- >transforming growth factor beta (TGF beta)
- >RCC grossa what to suspecta VHL
- >for bone marrow activationa salgramostrim
- >sleep disordera repeated disturbed sleep in night,

- >S/E of tacrolimusa nephrotoxicity
- >18 year old, h/o fever and flu in school frens, no h/o of such in family-having arthritis-whats the dx?--> parvovirus in option
- >throat infection, given antibiotic but not relievedheterophil negativea.CMV in option
- >right sided heart failure with tricuspid regurgitation, wheez in chest-what to seea 5-HIAA in option >CKD patient, when to do immediate dialysisapericarditis in option
- >fluid retention, edema is s/e of which antidiabetic drugapioglitazone in option
- >hypoaesthetic macule with nerve involvement-what you see?-->thl response/ th2 response
- >Mgso4/also4/calcium carbonate, what causes diarrhea? >Inheritance of beta thellasemia to offspring- when female is affected and male is normal from population with incidence of 1/1600-option 1/1600; 1/800; 1/4 >MI 12<sup>th</sup> daywhat changes will you see... collagen with fibroblast and new vessels/fibroblast and new vessels >Thymus immunoglobulin injected and bla bla >Rash, after a gap of time seizure(months or year do not exactly remember)-options measles/lyme disease >Incidence rate per annum to calculate from data of 5 years >zenker diverticulum pie with barium swallow-what to resect-thyropharyngeus in option >non alcoholic cirrhosis, what is seena bridging fibrosis
- >ewings sarcoma-EWS:FIL1
- >SBLA- in pedigree whats the defecta p53
- >in large pedigree only one affected- c/v describing muscular dystrophy-whats this? spontaneous mutation in option
- >rett syndrome c/va skiewed X inactivation in option >uworld graph of drug dose response curvea only option

# telling the most potent was correct

inside in captivation so that his popularity wont decrease as they look alike... she says she hears instructions about what to do and says has no time for interview as she is in hurry.. Dx? Bipolar I mania with psychotic features/schizophrenia >Antibiotic (with and without fatty diet) has higher weight gain as indicated from graph on comparion to controls that are given placebo (with and without fatty diet)-this change is due to action of antibiotic that cause? Long options describing the metabolic conversions, could not recall them >Old blind DM woman brought by her husband, she had amputed right leg, presents with fever, increased HR and decreased BP... on saying drugs has to be given by the physician... the patient says she does not want any active actions now... they both agree to go to hospice as they think it becomes easy for them to handle the situation there... you know that hospice takes care of those who have terminal illness and live for<6mnths... what will u do? Seek advice from her elder child/wait until surgeon confirms no more intervention is required/send to hospice when few days remains for her life as hospice do not allow people living >6mnth/make arrangement for her and send her to hospice >Aminoglycoside affects-hair cells/tympanic membrane/ ossicle

- >c/v of osteogenesis imperfect-what you do in this casehearing test in option
- >recurrent vesicular lesion on arm and groin, is due to- celiac disease in option
- >cannot abduct fingers of hand and cannot plantarflex foot -defect? Ulnar and tibial nerve
- >b/1parotid swelling pie- what might happen?- orchitis in option
- >20¹¹ week gestation- erythropoesis is from a liver/spleen/bone marrow/ yolk sac

stained and pie was shown-seems like budding- treatment asked? Caspofungin in option/ vancomycin >Fat patient-wants to lose weight, so bypass of jejunum to stomach done-dumping syndrome seen-what change will occur in blood-hypocalcemia etc in option >CT of diverticular abscess after diverticulitits in the left lower abdomen-pain occurs on? Adduction of hip/external rotation of hip/ flexon of hip >Pie of central swelling in mid neck, moves with protusion of tongue, this swelling is due to-failure of apoptosis of thyroglosal duct

- >Patient of hyper parathyroidism undergone surgery, only 3 parathyroid gland removed, develops the same initial features again.. where might be the cause-mediastinum in the option >Young patient with recurrent apthous ulcer, what to suspect-
- inflammatory bowel disease

  >Infant has a swellin in ingunal region that bulges on
- coughing-the lesion lies on? Medial to inferior epigastric vessel/lateral to inferior epigastric vessel
- >No testes in one side of scrotum----defect is due to... gebarnaculum in option
- >Asthma patient taking albuterol is under very poor control, add drug that -decrease IL-1, block muscarinic receptor, increase cAMP
- >ECG with increased PR interval, HR 40.. where is the lesion-superior right atrium/interatrial septum
- >Drug X given contraction of GI muscle seen, X+cholinesterase- level of contraction didn't change.. X+atropine- decreased contraction, whats drug Xa neostigmine in option
- >White reflex of eye pie, defect in which gene? Rb gene in option

>Woman brought by police as she was found spying white house recurrently for 2 months, she says president twin brother is her husband and the president has kept him

- >Calf muscle teara repair is from--- satellite cell, extrafusal muscle, intrafusal muscle
- >HIV patient, pie of vertebral facture--- cause? Mycobacterium etc in option
- >Patient died- on biopy all four chambers increased in size with fibrosis, normal valve -whats this-dilated cardiomyopathy/ amyloidosis
- >Patient taken food, after 1 hr what happens-- j JcAMP, i *l* protein kinase A
- >CN with heart problem, high arched foot, propioception impaired, this disease is due to-trirepeat mutation >Granuloma is due to-dandritic cell/ epithelial cell/ macrophase
- >Child born with chorioretinitis-this is due to-mother eating meat at the time of pregnancy
- >NNT
- >Specificity calculation
- >Clavicle fracture pie-what muscle attaches to the fractured piecedeltoid, sternohyoid, pectoralis minor >Thumb pointing down and placing arm in flexed position, pain elicited on shoulder on asking patient to resist the downward force, this is due to injury of which muscle
- -supraspinatus
- >Old age, significant Smoking history, complain of difficulty combing hair and raising up from chair, increased creatine kinase-treatment? Corticosteroid/methotrexate >Nose bleed and atrophy, blood in sputum, hematuria- what you see to confirm diagnosis-antineutrophil cytoplasmic antibody
- >AAAATTTT mutated to AAAAGTTT-defect on whatsplice site acceptor/ spice site donor
- >Old patient- GI perforated-on piperacilline tazobactum,
- 2<sup>nd</sup> day of admission blood cultuted and the growth is

"Just took my Step 1 exam! Here's my review:

- Many questions were repeats from past exams around 10 per block, but they have tweaked few answers
- Biochemistry was heavily tested, especially storage diseases
- Important tip: even if you know the answer, take 40-50 seconds to double-check the question to avoid raising red flags at the test center
- 1. Child born with all features of potter sequence and picture of polycystic kidney was given, it was actually case of ARPKD. Now asked what will be the probability that next child born to these parents with same disease? A. 0% B. 25% C. 50%
- 2. Question asked about calculation of case fatality ratio, In data incidence of different disease along with the no. of cases per disease was given, in my question case fatality ratio of breast cancer was asked?
- 3. Patient presented with abdominal pain, amylase level was 1100 and asked at which location gallstone causes obstruction? A. Duodenum B. Hepatopancreatic ampulla
- 4. Case of Polycythemia Vera and asked lab changes in this patient are due to erythropoietin causing increased action on which of following? A. Basophilic erythroblast B. Metamyelocytes C. Reticulocytes D. Thrombocytes
- Patient presented with enlarged lymph nodes since 3 months, on biopsy we found different population of small cells with scant cytoplasm and large cells with vesicular cytoplasm.
   (Don't remember other details) asked for diagnosis? A. DLBCL B. Follicular Lymphoma
- 6. Patient was taking aspirin and 7 days before clopidogrel was added, now patient presented with bruises, now asked for the cause of bruises in this patient? A. Additive antiplatelet effect due to addition of clopidigrel with aspirin B. Clopidogrel decreased metabolism of aspirin C. Clopidogrel decreases protein binding of aspirin
- 7. Scenario of undescendent testis, asked this condition is due to failure of which of the following? A. Gubernaculum
- 8. Case of CO poisoning, patient developed pulmonary edema and asked which of the following factor is decreased in this patient? A. Pulmonary capillary hydrostatic pressure B. Interstitial oncotic pressure C. Permeability constant D. Arterial PO2 E. Pulmonary lymph flow

- **9**. Patient took Ecstasy and started feeling unwell shortly after that he was also taking SSRI for some psychiatric problem and now presented with agitation, hyperclonus. Asked for reason of these findings? A. Serotonin Syndrome
- 10. Patient presented with painful menstruation history, well circumscribed mass is present in uterus and CT scan was given showing mass in uterus asked fort the origin of this growth in uterus? (No idea about it, do check for radiology of Adenomycosis and uterine fibroid) A. Endometrium B. Myometrium
- 17 year old male comes in for routine physical examination, everything is ok. He is recently assigned as the captain of his school soccer team. He says he smokes cigarettes and drink beer occasionally on weekends when he is out with his friends. What is the best initial step by the physician? A. Ask the patient about the source of his cigarettes B. Ask the patient how many beers he drinks and if he ever drives when he is drunk C. Ask the patient if his parents know about his drinking since he is a minor D. Tell the patient he must stop smoking and drinking right away E. Tell the patient that smoking will cause him premature death F. Tell the patient that smoking will cause him yellow discoloration of teeth and bad breath
- 12. 30 yr. old male patient came with painful scrotal ulcer. Physician started acyclovir with no benefit. Now he then started doxycycline, few days after that he developed groin lymphadenopathy, after 5 weeks course of doxycycline the lesions are healed and everything is ok. Asked for diagnosis? A. Neisseria gonorrhoea B. Staphylococcal lymphangitis C. Lymphogranuloma venereum
- 13. New born baby presents with congenital heart disease and was diagnosed as VSD, on follow up after 2 weeks murmur is increased as compare to last visit now asked for reason of this increase in murmur. A. Decrease pulmonary vascular resistance B. Increase in pulmonary vascular resistance C. Increase in size of VSD D. Decrease in size of VSD E. Patent ductus arteriosus
- 14. Female patient can't talk in front of people after she got promotion in her job, now has to give speech but she can't give for which she feel embarrassed, she has this problem since childhood. What should be physician's response? A. Evaluate patient about her childhood experience B. Ask her about maladaptive thoughts that she face at time of public speaking
- 15. A patient had an infarction at the territory of the LAD which of the following will return theblood from the affected area :A. Great cardiac vein B. Middle cardiac vein C. Anterior cardiac vein
- 16. we were doing a study to assess the association between non Hodgkin lymphoma and herbicides after selecting patients with and without lymphoma you assessed the exposure by asking the patients about their exposure in the past which of the following will affect the validity of the test: A. Variability of exposure measurement B. Variability of outcome measurement

- 17. an old patient came to you with long history of COPD, he has difficulty breathing, cyanosis, respiration is 12 BPM, you give him supplemental oxygen, then respiration decreases what's the most likely cause: A- Decrease hypoxic stimulation of peripheral arterial chemoreceptors
- 18. 21-year-old male with multiple cutaneous lesion on left arm, numbness of finger. What other finding you will see? A- Hypopigmented macules 2-chery red macules 3-twisting groth erosion on fingertips.
- 19. Patient shows typical systemic senile amyloidosis in terms of cardiac dysfunction, what is fibril protein buildup? a. Normal transthyretin
- **20.** Patient with family history of sudden cardiac death is experiencing cardiac issues, what is most likely to be seen on echocardiogram? a. Thickening of IV septum (genetic hypertrophic cardiomyopathy)
- 21. Mechanism of Abciximab
- 22. Mechanism of Adenosine increases K conductance
- 23. Female Patient 35 years of age with severe right adnexal/right quadrant pain that started after she was exercising in the gym. Presented to ER, her pregnancy test is negative, rating pain on 10/10 scale, if we do the Doppler ultrasound in which we will find the less signal in which vein/artery? Ovarian vein
- **24.** What substrate is increased in 88 years compared to 50 yer old(insulin/Insulin like GF / GH, dont remember other)
- 25. Weird Q about experiment, they say about fibroblast with virus infection and that T cell dont response, but then they add some 10 aa peptide and T lymphocytes kill this fibroblast .The options were like Defect in MHC II, Falure to glycosylate MHSI, failure to synthesise MHCI, Failure of TAP synthesis
- **26.** Patient return from travel and had smth like ulcer in the nose, ask what we will see in microscopy-amastigotes in tissue. This is cutaneous leishmaniasis
- 27. Patient taking morphine for a long time and start to take buprenorphine and present with withdrawal symptomps, They ask what is the mechanism of these symptomps, there were no partial agonist option, so I picked competetive antagonist option

- 28. Patient needs some inhaler for asthma but she will receive her salary only the next week .

  What to do? I picked like use some reserve, thought I dont know what they mean by this.

  Other were like ask her to leave and go in one week, borrow her money, say there is nothing we can do
- 29. Behavioral Q about 14y old with Type 1 diabetes who recently moved to USA to other endocrinologist from MEXICO and had recently several episodes of diabetic ketoacidosis, what to do: ask why she didnt take her pills, refer to another endocrinologist, ask about parents religious beliefs about chronic ilnss etc
- **30**. Brachial plexus picture, CV about musculocutaneus nerve damage, need to pick this nerve in the picture.
- 31. CV about nurse, very long like 15 lines, she is hospitalized with some infection, then after treatment two days after developed another infection with some hospital bugs, I assume this can be factitious disorder which is often in health care workers
- **32.** Hiccups resistance to treatment-what nerve to resect-phrenic
- **33.** Q describing epistaxis, it lasts for one hour already but blood goes slowly, asked what artery is involved
- 34. Happy child, seizures. What is the defect? A. Paternal deletion, maternal allele hypomethylation B. Paternal deletion, maternal allele hypomethylation C. Maternal deletion, paternal allele hypomethylation D. Maternal deletion, paternal allele hypomethylation
- 35. Lady is going abroad. Is worried about getting traveller's diarrhea, wants you to prescribe a drug 'to use in case she gets traveller's diarrhea'. Which drug will you prescribe?A. Amoxicillin B. Floroquinolone C. Doxycycline
- 36. Two population pyramids of the same state was given 5 years apart. The 5-yr-later pyramid hadhigher populations in 0-4, 20-24, 25-29 and 30-34 age groups. Which of the following best explainsthis change? A. Removal of contraceptive services from free health coverage (something to this effect) B. Improvement in immunization for 0-4 age groups C. Improvement in immunization for 20-35 age groupD. Immigration of people 20-35 yrs into the state E. Emmigration of people 35-50 yrs out of the state
- 37. Following an accident, patient lost B/L sensations below umbilicus, B/L lower limb paralysis. Options had different cross-sections of spinal cords with defects. A. Spinal cord with whole spinal cord shaded (thoracic level) B. Spinal cord with

whole spinal cord shaded (cervical level) C. Spinal cord with dorsal columns shaded D. Spinal cord with one left half shaded

- 38. Patient had amputation of left arm. Feels pain in left limb. Stimulation of which part is likely to cause sensation to the amputated left arm? A. Left leg B. Left face C. Right leg D. Right face E. Right arm
- **39.** Digoxin mechanism and what it does to the heart....like a physiology question...does it increase ejection fraction or HR?
- 40. Woman has enlarged breast and breast mass that is not fixed. Gross pic is very fleshy/tan looking. Micro shows leaf like picture. It is cystosarcoma phyllodes.
- 41. 1000 patients taken. Procedure A and B done. Events in A is 18 out of 1000 & in B its 13 out of 1000. Calculate ARR when we compare A to B?
- 42. Mentally incompetent & dependent patient gets some disease. Physician starting a new trial for that disease. What is require to include him? Her legal representative to proxy consent after reading about treatment, Can do it if it has beneficience & non-maleficience element.
- 43. what happens when ouabain is given increased cell volume
- 44. features of diabetes, hashimoto, etc. were given. patient is frustrated with multiple diagnosis from different doctors, says no one has treated him properly, he is tired and fatigued, diagnosis? a. Autoimmune Polyendocrine Syndrome Type II b. chronic fatigue syndrome
- 45. a patient complains of pain in the neck . the pain began when she was in a car and suddenly moved her head backward while trying to look to the back seat. the pain and tenderness is in the base of the skull and radiates to the upper border of scapula. which muscle is injured? a. trapezius b. SCM c. levator scapulae
- **46.** patient with abdominal pain nausea and all the features of DKA, his lab panel was given in which his glucose was 388 something and +ve urinary ketones. now what parameter will you find in this patient? A) Liver Glycolysis: ↓, muscle glycolysis: ↓, Lipolysis: ↑
- 47. One of the parents bring his/her child to the physician, child is having a lesion on her skin with a central ulceration and induration surrounding it, on serum analysis 2 to 3 um organisms are found in macrophages, what is the vector for this disease? a) Sand fly b) Reduviid bug

- 48. Patient had an acute pulmonary embolism; we started the treatment for this condition now her labs are as follow Day 1 hospitalization platelet count = 3 lacs Day 3 hospitalization platelet count = 1 lac something Day 6 hospitalization platelet count = in thousands It is due to treatment of which of the following? a) Dabigatran b) Heparin c) Rivaroxaban d) warfarin
- 49. Patient had pelvic surgery and also had external beam radiation therapy of her pelvis area due to cancer, now present with polyuria, on ultrasound there is bilateral distal ureter blockage causing bilateral hydronephrosis and hydroureters, which of the following mechanism explain this patients polyuria? A) increase pressure in bowman's capsule B) inability to concentrate urine in her kidneys
- **50.** questions about GI regulatory substances please memorize the table in FA
- **51**. Meckel diverticulum... what will you see? I chose gastric mucosa there was also pancreatic mucosa
- **52.** Chemotherapy for a child and comes in vomiting and you gave him everything including Ondansetron what do you give? Dronabinol
- 53. A man who every now and then has an episode of jaundice but everything else is normal I decided it was Gilbert and the question was what the problem and I went with decreased UDP Glucoryl transferase.
- 54. A woman gives birth to a baby who is rh positive and she is negative and he dies and in her history she was pregnant but she had an abortion before this child. What is the thing that if she did she would have prevented the death of this second baby? Taking Rhogam in the first pregnancy or taking it in the 2nd trimester of this one or giving Rhogam to the bab
- **55**. Spherocytosis.. splenectomy
- **56**. Q about factor 5 Leiden
- 57. Image about INO. Many eyes ... and the diagnosis MS
- **58.** Trendlenburg image and the affected muscle... Gluteus maximum

- **59.** Image: the lunate is far from the scaphoid because of injury. What is the defect... Many tendons in the choices
- **60**. Image about osteosarcoma and what is the predisposing condition? I chose Paget
- **61.** Irineotecan mechanism of action
- **62.** A patient with urticaria. What do you give him? Many H1 and H2 drugs. I could not choose . All of them were antihistamine
- **63**. Lambert eaton pathophysiology
- **64.** Diabetic ulcer pathophysiology
- **65.** Patients on Aspirin for many years and he stops it 5 days before a surgery but he bleeds.. I chose it is irreversible
- **66.** Why the velocity of signal transport is increased in Ranvier? Because it has lots of sodium channels
- 45 year old woman can't get to sleep and she has irritability and everything else is normal... this is insomnia or this is normal for premenopause or she has generalized anxiety disorder
- **68.** PICA syndrome in a clinical vignette
- 69. They gave me an image of real dura and told me it included the falx and they asked me what happened I chose subdural hematoma from the story because he was an old man who did an accident a few days ago and he was not sure if he passed out and the image was not full of blood and they asked about the mechanism I chose bridging vein rupture but not sure
- **70.** Tumor in the auditory meatus and what is a complication of the surgery? I went with injuring the facial nerve.
- 71. Clinical story that describes nerve 3 palsy and you choose it
- 72. Easy story about Tourette what do you give? I went with Haloperidol

73. African American female and immunologic asthma and pets in the house and a smoking mother and asks what is the most important risk factor for the asthma ... 74. Please memorize the pharyngeal arches derivatives.. 3 Qs **75**. The man whose wife dies and I decided to test him for depression. 76. I got the Q about the RA with minimal ulnar deviation and flexion of all the MCP. I went with superficial flexor but I think the students decided on flexor carpi ulnaris. 77. Place of prostate cancer.. Peripheral zone 78. Infertility in a man who has an autoimmunity against the sperm where is the problem? I chose Sertoli 79. Immuno-histo-chemical stains. (2 questions please memorize the table in FA) 80. Clinical Vignette about Ehlers danlos >>> pathophysiology? Collagen type 3 81. A man who had a son from his first dead wife and the son had an autosomal recessive disease (prevalence = 1/10,000). What is the chance that his second wife is a carrier of the disease? 82. What is the genetic defect in fragile X syndrome? 83. Vitamin B7 deficiency what is affected? Acetyl Co A carboxylase 84. Contraindicated in pregnancy Isotretinoin 85. Q about Galactosemia 86. A new test for diagnosing a disease and the gold standard, and he gives you the table about how many are positive for both tests and how many are normal but he asks about the

prevalence of the disease.... In fact I ignored the new test and took the positives in gold

standard divided by the whole population...

- 87. CV about cysteine stones in child and he tells you about the COLA amio acid what is the defect? Amino acid transporter 88. What is the accumulated substance in Gaucher? 89. An old man with problems in the valves related to rheumatic fever in childhood, what is the initiative microbe that he got when he was a child? GAS 90. Q about RRR (calculate) 91. A doctor dealt with autopsy and did not put the instrument in the autoclave what remains alive? MRSA, C difficle... and other choices 92. Endophthalmitis after surgery causative agent: Bacillus 93. 2 year old boy with SX of typhoid fever and N/V and , what is in the story that helps the diagnosis: living in shelter, turtle 94. Mechanism of Metronidazole 95. Severe acne treatment >>>> Clindamycin 96. CV about HUS what else damages the kidney besides the thrombi (this was a tough question) 97. Picture of urethritis in a man and what is the treatment.... I chose ceftriaxone and chlamydia but not sure if this is only for women or for both 98. A CV related to bats... I decided it was histoplasmosis and the q was were is the agent? In the macrophage
- 100. Two Qs about schistosomiasis ... one person from Japan and the other went to a trip to a 3rd world place full of lakes ... They were typical stories

not the AIDS patient with neurological SX. I knew it from the picture

Q about Cryptococcus neoformans it was in mucicarmine red color. It was an unusual story

99.

- 101. A Q that described a histology that I decided it was cirrhosis ... what is the most common cause? Alcohol or viral hepatitis and other choices
- 102. HIV and Sx of dementia... what is the reason? Direct effect of the virus\
- 103. Most common cause of pneumonia in 15 year old? RSV
- 104. 3 Qs about transplanted kidneys and infections>>> I always went with CMV... please study this very well
- 105. A baby who was given VZV and MMR and 3 weeks later comes with irritability and rash and seems fussy.. the rash was 3 vesicles in the area of the injection.. what do you do? I chose no thing right now but please check it out..
- 106. A person from China with nasopharyngeal carcinoma.. the agent is EBV
- 107. Grape fruit juice ... which cytochrome? I chose 3A4
- 108. Prevent AIDS transmission in pregnancy ZDV
- 109. Cells that were presensitized to help defend against tumor .. I went with CD8
- 110. The q about a child exposed to a bat in the garage ? I went with giving both the vaccine and Igs
- 111. 11- b hydroxylase deficiency and arrows (table in FA)
- 112. Q about water house fredrieckson... causative agent? N. meningiditis
- 113. Man with seizure problems for which he takes anticonvulsants comes with back pain that needs analgesic what to avoid? Tramadol
- 114. Patient who has to stop smoking tells the doctor smoking helps him relax so he will live longer what is the defence mechanism? Rationalization, Intellectualization
- 115. CV about opioid withdrawal.. asks what to give him? Clonidine

- 116. CV about opioid intoxication what to give? Methadone
- 117. 2 patients with hypoglycemia the first have gained weight the other have not. The main idea I though was to differentiate between endogenous and exogenous insulin.. Arrows about protein C and glucose in the blood.
- 118. Contraindicated: Sildenafil and nitrate (A man comes in with problem with erection and wants Viagra while he is taking many medications for HTN.... One of them is nitrate)
- 119. An old woman with a broken bone because of osteoporosis and she lives alone and her diet contains only 2-3 portions of fruit and vegetables in the week what will be decreased? PTH, CA, VITAMIN D OR ASCORPIC ACID ( I WENT WITH THIS)
- 120. Choose a meal that stays longer in the stomach: I chose bacon and egg since the other 4 choices included carbohydrates
- 121. A man with SLE Sx and medications.... Hydralazine
- 122. A woman with story of sharp pain near the lips (I decided it was trigeminal neuralgia) and an image of the pons and medulla containing 5 nerves I chose the 5th... Study the image
- 123. A graph of a heart and the probe was in the right ventricle (as I thought)
- 124. An images with spots on the mouth and I decided it was peutz jegers and what else... There were many kinds of tumors and I went with the hamartoma choice
- 125. Sth on the lip with histology I could not differentiate if it was an SCC or Melanoma...
- 126. The man who goes on the bike and needs a sunscreen
- 127. A man with psoriasis on his legs in a photo and they ask you to describe the histology
- 128. Psychiatric patient and he really needs to stay in the hospital and the insurance company will stop paying for him tomorrow what do you do? Talk with his relatives to ask if someone can come to his house and assist him to take the treatment at home, or you continue to have

him in the hospital, or you ask him to pay out of his pocket or you talk to his primary physician to make him deal with the situation.

GHAZALI_	Bio chem		Date / / MTWTFSS
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3) pavient dvinkin eye symptom	e alcohol, pr	B, (thâmine	deficincy)
9) Bleeding	etc in scene	n'o -> Vit C	defrancy.
3 patient is	Hypoglycemic	& Hypoketoku _	> fairy acid ouidal
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Previously it u	after runin		nae athon it
a) Hydrau'on	b) Steward i	ue a) energy	duntes d) ate Something like
3 Myophosphay	phan typica	I sceneuro.	phonylation
	GHAZAI	_I Publication	

Date / Biochem -> A patient taking more protein
MTWTFSS a) Used Jammonid cycle GI-IAZALI
- Done defect + some eye problem -> collegen I deficing
a A mother is concessed for her feties, what if
fetur la have applie fabrois direal. She &
Hee Husband I don't have diseau, Mother's
ajstic fibrosis in population is
what's the chance of having 2500
fetus applic fibrossis
a) =
b) 23
(12 A kid is Smilling & Friendines with
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a) deletion of chromosome / William's Syndrom
- Symptoms of having Link deficence - which
Immuno V I mulheut u
(13) Alsthma > The
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A SCID -s andibacterials are given
(DI) Chronic granulomatous dis- Anti-phapocytic
acaten postellen
- Breast cancer in mother but not in daughter -
GI-IAZALI Publication
Incomplete penetrance

GI-IAZALI Miao	Date / / MTWTFSS
6) Vibrio choleud -> Adenylair cyclar 17) Strep preumoniea cau s diplococ 18) Staph epidermida scenierio-s bio	17 m + 1
ghap	V (Gustel Shape
entremity, on aim, spre	hick V
20) Coccidiodomycosis -> pic (different nome)	
20) pavient taking strewids for ( having non scrapable as  paiches on tongue -	white
21) pavient whose disabeter is no	
22) fever + Hb decreared	
a) Baberso b) Richatterd.	Hal Billisubin
GI-IAZALI Publication	

Miaw.
MTWTFSS GI-IAZAL
23) Something about Shistosom & (early to pick)
24) Parient Group of people got gripuenta vacci
last year now got new Javants / again
influenta, Twheet's cause
a) antigelie vaciation
25) mentioned spindle cells in stem-
so selected HHV8
26) Amonicellin -> Mechanism of Resistance?  Plotue of Europe on nail - Risk Pactor 2 occupations
- Picture of fungus on nail - Risk Gallor 2 occupations
26) 35 years old male + nephrotic disear symptom
Amydedosi's?
a) AA ( b) AL c) transtuprition
28 Redneus sceneur
a) Mislamm
b) Cytokines  fumor somead in peritoneal fluid ?
Coultmer from where it did
- rectastasized
a) cewix b) ovary c) live d) lung.
2)
GI-IAZALI Publication

Ethres.	Date / /
GHAZALI	MTWTFSS
for next 8 monto.	can't feed
35) Have w do any procedure on 13 kid.	year old
a) Consent from parents assent from b) Assent from kid consent from	m parent
A 21 year old acustic child e  for medication compliance, would y  a) mother  b) pairent  c) Bott	
37) A chi'ld don't let nussus to inje Nussus said opherwise cu'ld is soci	ial & V view the o e good other de
GI-IAZALI Publication	

Date 1 1  Date 1 1  MITIWITESSS  Per block.  Ethica.
MTWTFSS  Ethica.  GI-IAZALI
38) A kid é mojher, playing on mobile accompante Dr mom sesponer
a) 9 also Plays games on mobile b) Dr question to mother c) Dr question to child.
c) Dr question to child.
35) Aortic Stenosis pedeu
scenerio of Aortic negrofitación (on ausculiai on 9
Hypertrophy of a) let wentrice
b) eint atrium. etc.
41) FCG of wolf Parking a accessory parriage (42) Patient ko Chronic Hypertension that
mene artenosclerosis Iga dija  43) atherosclerosis -> monogra
(44) Care of Rheunatic fever & having perioadical forction (kch and that)
a) myocarditil
GI-IAZALI Publication

CUS

GI-IAZALI	Date / / M T W T F S S
45) Male patient, having Renal symptom Lot of Symptom, something fibrinois was mentioned i ques  9 marked medium nevel varialis 45) Myxomo Story—s gelatinous	m 2 a Id word
Endo. 46) Pregnany avous? TBG, Total T3/Ty, T3, TSL	1
(13) Accident now having symptoms of Problem in?	evern Central Di
9 Diabetic Parient - Inculai relistance 50) Diabeticoberration taking a loi of d metformin, now satisfy feeling which duy cause it	rugs include
GHAZALIS	

GIT.

GI-IAZALI  Date  MTWTFSS
51 pavient/kid is having iteal acresso, what his mother
a) Cocaine b) alcoubl c) opoid.
Pavieni presented é blood la vornitus, vans all
blood shunted that caused between
blood in vomities, to?
a) lest gastric auteur b) lest gastric vein
Mbme plane of Ulcerative colitis & Histo pic of Ulcerative colitis, stating parent has bloody stool involving rectum
a) Ulcevature colitis b) Crohn's disean
154 x-ray picture of Megacolon  Mave to diagnose ; Think, i don't remember  55 Ms H2 - ML (H1)
56 One more about lyncu Syndrome  J-lemaio logy
57 Some concept about mother is Rhere & kid is RH-ue
GI-IAZALI Publication

Hematdofy.
Date / / MTWTFSS GI-IAZALI
58 jady after untreated Celiac diseau now
Stady after untreated Celiac diseas, now having Iron defruncy anemia.  59 Scenesio of Polygyphenia Verd.  JAK
unable To wark, (Sceneio of DVT) what med 's given
a) Xa inhibitor. (only this was from Hepauni)
MSK
6! Unable to comb Hair, which muscle affected 6! Unable to comb Hair, which muscle affected 6! Unable to comb Hair, which muscle affected demage  demage
63 problem in addition muscler  obtination neure demage.
4- 1055 of make meller VSI
65 unable to dorsifien & loss of sensaiion
a) Common peroneal (fibular) neu
b) Tibio neme 16. One about anous asking for nickets.
all symptoms of vit D depicency
GI-IXZALI Publication

MSK Date **GI-INZALI** c) Putamou

Date 1 1 Neuco
MTWTFSS GI-IAZALI
12/05 of propioception in blower leg.
a) left Fasiculai gracilis
b) Right fasiculus gracilir
c) left Faliculus Cumeanu
d) Rogert Fasciculu Cuneatur
73 CI scan of Oligo colon I bands (persion tricular plague) +
pacient has Into symptoms, invai other finding,
would be present ()
74 Nhone Pictur of Angio Pihrom à
74 Mbone Picher of Angio Dissom d. Tuberous Scherosis
75 Tumor ai Cempello pontine angre, which cells
In they are decired from the In addution
they gave picuu of fibers someting, but
9 guess they werd spindler.
a) Schwann cells b) fibroblasts c) GFAT
Hollsed the word AV & nickup.
Hypertengine Retinopating
IT A pairent is given dung when underjourg
misces acc.
a) Sevo Jurane b) Eas Cista curium
GI-IAZALI Publication

Newo. Date / /
GI-IAZALI MTWTFSS
18 paiient is having glaycome which duy is contraindicated that caused my traces
il contraindicated I that caused my dributes
a) B- blocker b) or-agonists c) Museume antagon
Wegeliatey a
79 An notined Jumy man came w Hospire
après distening to Ambubance voice, l'us ko
poid nui kyà no Jaia Md, reason askes
a) Classical constitioning
b) Keinforcment
e) Punitument
doctors are bad. Spiriting, nurses are good,
doctors are pad.
81 Doscription of Tourers Separations, treatment
a) alpho alphot
82 Megazine Symptoms of Schizophrenia, involved paul
A Mesocortical b) Mesolimbia
13 Some scenerio of Major Deppresive disordes
GI-IAZALI Publication

Date 1 1
Date / / MTWTFSS GI-IAZALI
aug I admittal to Harrital
\$42 year baby admitted to Hospital & typogycemic features white admited to
nospital, body is doing well, no any
Symptom, was Molher is stationg baby
is very mappy every time he visit To
Mospiial. Before discharge a nusse notices
mother injectife insuling to baby con
a) Factitions dirord b) illness anxient c) Conversion diror.
dison.
Ethius Cons more Qs 9 remembe
&5 pavient is being treated by dietician, Allendi
Physican & cardrologist etr. While discussing what would be response of cardiologist to
what would be despone of cardiologist to
patient?
a) 9 have explained everything to you, Do you he
any gruestion for me.
b) Your attending would also explain au
this to you, you can ask him!
U U
GI-IAZALI Publication

Psychiatry.	Date / /
GHAZALI '	[M]T[W]T]F[S]S
86. Case of anoveri's pain'ent present on hands & is painful She wave	ed é somen , what does
Body image distortion 87 - Card of opioid will drawl, w locrimation.	
88. 9 think something about Pc Renal.	
89. Bilaieral Hydronephrosis  Posterior urathral value  90. gain of Junction, act	to when (was aski
aboli liddle Vsyndrom.  V Cortical collecting tubuler  9! Something vival infection  - FSGS	A nephrotic Syndron
92. Un concrolled Diabeles	
nodular glomerelosteross 93. And after some meds pais rach, costoner lebral angle Ten Acute intertitial mephnih;	Tent presented à
GI・IAZALI <sub>Publicat</sub>	

Reproducióne
Date / GI-IAZALI
14- A new born baby having Holoproscephaly, the prew born's mother is took was alcoholding
a) impaired migrad on of neuron & glial Ceur. b) alconol passer in so fetus through placent d
5- Some lesion on penis; it would metastarize
A) Pour sortie  b) Superficial inquiral c) deep inquiral
76 Abnormal alevature of fewis Tunica albugina can
97 Something about kline p'esser. 78. An aduet girl not manstruating, waving
Hairs on Jace Jodepens voice.  Sectoli legarg tumor.  Rospiratory
99_ COPD care FEVI, FVC & their rais with prescentages & assows.
sounds > jerniter?
<b>UGI-IAZALI</b> Publication

101. Some cancer too soo sceneuro and is
been spread to an lung on perpheries
9 maires. Adeno Caecinomo.
102. Pseudo enhidrine
- Causes vasoconstricion & Hypersension
Abme 39 picture of granulation. Hessue
-This is all that 9 can Kemember.
- Ethics was Huge portion, at least 8,9 as per block. 9
- Ethirs was Huge portion, at least 8,9 as per black. I Just got one as of Interpreter.
- Biostai was tested like 9'm Biostatisian.
- CIB & pulmo was tested together. 9 mean in same as they would add 3 systems to
in same as they would add 3 systems to
wrong in them, was Just questing.
wrong in them, was Just questing.
9 misé d'one from Biostai- Calculate PR
While Samathing &
spraying = 0.95
PKM JERRIDUC M
9 DID performance CI-IAZALI Publication

Q1). Person presents with ascites. What would his levels of the following things be (increased or decreased)? Catecholamines, ADH, renin Q2). Man at a party was angry but not violent. He was being delusional, kept accusing his gf of cheating on him and his someone trying to kill him. He has used some substance, what is the mode of action of that substance? (cant recall all the options) A) inhibits the reuptake of dopamine B) increases the reuptake of dopamine C) increased the reuptake of serotonin Q3). woman has 2 cervix but one vagina? What embryological problem led to this? A)fusion of the mullerian ducts (im not sure if this was their wording) B) division of genital tubercle Q4). person has Alzheimer's like symptoms. Couldn't recall 2 out of 3 things he was told to remember. What other problem would he develop first? A) Visuospatial dysfunction B) long term memory loss Q5). pedigree of a lady's father having some red green color blindness. What is the probability her unborn son 46 XY will have the disease? Pedigree showed that the lady's father had the disease. Father had 4 kids none of whom had the disease. Lady had three girls, none of whom had the disease and this is her 4th pregnancy. A) 1 of 2 B) 2 of 3 Q6). 6 weeks old baby is lethargic and developed fever. Mother thought she has some viral infection. Showed up to the hospital and this is what the labs show. Low glucose, high lactate, high Uric acid( I'm not sure) Kid also has hepatomegaly

The substance that will accumulate in her body is formed from the following?

A) glucose

B) cholesterol
Q7). when Ach is administered in normal smooth muscle cells it causes vasodilation, when given with smooth muscle cells that have endothelial cells removed causes vasoconstriction. Which drug can u give now (that is without the endothelial cells) that would still cause vasodilation?
A) atropine
B) bathenecol
C) nicotine
Q8). Similar question as the one above, where they had mentioned when Ach is administered to smooth muscles with the endothelial cells present, it results in vasodilation, but when given without endothelial cells, causes vasoconstriction. Ach causes this vasodilation via which mediator? A)Nitric Oxide
Q9). person has anterior spinal artery level damaged. Looks like thoracic level? What will she present with?
A)motor weakness in the lower limb
B)loss of temperature sensation in her hand
Q10). picture looked like a ring in a blood cell. There was also a hypersegmented cell. But they also mentioned the patient had just travelled to rural China. What other clinical feature would be seen? A) hemolysis?
Q11). case of lepromatous leprosy. Asked what is defective? Know how to differentiate between the two forms of leprosy since only symptoms were mentioned.
two forms of leprosy since only symptoms were mentioned.
two forms of leprosy since only symptoms were mentioned.  A) Th2 response
two forms of leprosy since only symptoms were mentioned.  A) Th2 response
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Q13). colonic polyp. What gene mutation?
A) APC
B) KIT
C) MLH1
Q14). person has medullary carcinoma of the thyroid and marfanoid habitus. What other finding does he have?
A) mucosal neuromas
Q15). psamomma bodies shown. Spinal cord pain. What tumor is it?
A) meningioma
B) schwanomma
Q16). Psammoma bodies are seen in which thyroid cancer?
A)papillary
Q17). 6 transmembrane protein receptor. What is it's mode of action?
A) allows ion flow
B) transcription of gene receptor
Q18). ROC curve. Asked for the most accurate one
Q19). Drug that is not bound to proteins but its structure includes amino acids. Which of the following is its most likely property?
A)Crosses the plasma membrane easily
B)Acts on nuclear receptor
C)Decreased volume of distribution
Q20). patient with steatorrhea has ataxic symptoms. What do they
have? A) vitamin E deficiency

Q21). Weird picture of a ventricle cross section. Arrow pointing at something and asked which ventricle is dilated. Looked like lateral ventricle to me and the arrow was pointing towards foramen of Munro
Q22) kaplan meiyer curve. Watch randy neils video
Q23) patient with low TSH and low T4. What do they have?
A) tumor of the thyroid gland
B) tumor of the pituitary gland with compresive symptoms
Q24). 11 year old kid with precocious puberty. Tanner stage 4 and v tall for his age. What would u give to the patient ?
A) somatostatin analog
B) GnRH agonist
Q25). ultrasound of poly cystic kidney disease. What is the most significant risk factor in this patient of 25 years?
) family history
Q26). patient with hypopigmentation on hands and presented with orthostatic hypotension I think. Had low sodium levels and high potassium levels. What is defective? A) reduced cortisol production?
B) reduced aldosterone production?
Q27). Flowchart given and asked which pathway does Ipratropium bromide inhibit?
A)Ach receptor antagonist
Q28). Nurse who has completed 3 doses of Hepatitis B vaccine, accidently pricks needle of hep B patient, what will you find in nurse blood?
A)Antibody to HbsAg

Q29). baby born with right scrotal swelling. On the ultrasound which was performed during pregnancy, anechoic crescent shaped swelling seen? What does he have? A) failure of obliteration of processes vaginalis B) hernia Q30). qs on ARDS patho physio. I.e alverolar capillary membrane damage Q) too many qs on breast Q31). Phyllodes tumor histology was given. Info mentioned was breast retraction and calcification I think. Had to recognize what it was? A) Phyllodes Tumor Q32). lady involved in a traumatic car injury involving thorax. Few weeks later presented with a mass with irregular borders on top outer quadrant. Was calcified and fatty macrophages found. What is it? A) fat necrosis B) fibroadenoma Q33), patient presented with the following lesion on the face. Skin colored but a central ulcerated portion. Dude worked as a land something. What's the most common cause of this? A) occupation history (considering it was cutaneous leishmaniasis) Q34). Achilles' tendon fat deposits. Which Apolipoprotein is defective? A) ApoB100 B) ApoB48 C)ApoC 2 Q35), patient has recurrent vesicles on penis. Where is the pathogen involved latent? A) peripheral nerves B) CNS Q36), patient went hiking. Came back and now has fever and a weird rash that started from arm and

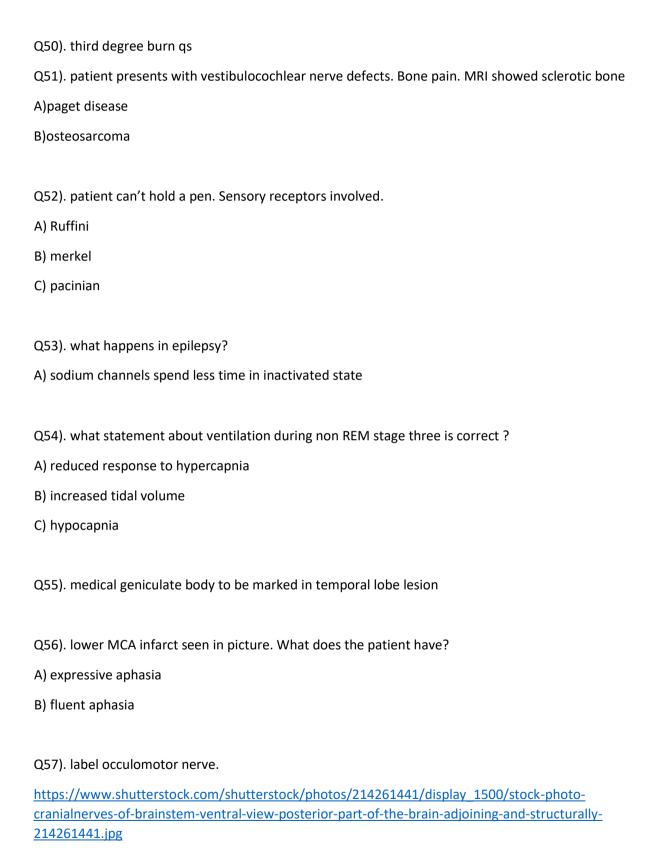
then to trunk and then face. Cause? (The picture showed a red papular rash on the wrist and the

inner side of the arm)

A) Rocky mountain spotted fever
Q37). person presented with shortness of breath and slightly blood tinged sputum. X ray showed mediastinal dilation. Mediastinal lymph nodes also looked enlarged. The patient recalls receiving an envelope few days back which contained some white powder. The responsible agent involved what? A) adenylate Cyclase
B)nuclease
C)ribosylation
Q38). nodular opacities were seen on a patients chest x ray but they were not seen when bronchoscopy was done. Lateral chest x ray given which also showed nodular opacities,
What is the cause?
Q39). baby bleeding from stump of the cord. No purulent discharge. PT and PTT were normal. What is most likely defective in the kid ?
A) Factor 8
B) factor 9
C) VwF
D) protein C
E) protein S
Q40). chediak higashi baby described. Where is the defect?
A) defective phagosome receptor
B) increased lysosome activation
Q41). S1 nerve root damaged. Patient can't stand on toes. What other thing does he have?
A) atrophy of tibialis anterior
B) loss of patellar reflex
C) rectal muscle atrophy
D) something that I can't remember, might've been the answer

Q42). lady had some ovarian mass ruptured. She's also complaining of shoulder pain. What nerve roots are responsible for the shoulder pain?
Q43). pharyngitis caused by a strep group . Which streptococcus is it?
A) alpha hemolytic
B) beta hemolytic
C) gamma hemolytic
Q44). nitrite negative infection. Picture shows gram stain of staph clusters. Which
pathogen? A) staph saprophyticus
Q45). baby in picture has cleft palate. Defect in which embryological
defect? A) failure of the lateral palatine processes to fuse
Q46). Baby lost his third and fourth finger when born. Cause?
A) amniotic band syndrome
Q47). patient had a kidney transplant 2 months back. Now taking cyclosporine. Presented to the clinic. Kidney biopsy shows mononuclear infiltration. Cause?
A) acute rejection of transplant
B) direct result of cyclosporine on the kidney
Q48). patient presents with abdominal pain. Vessel shows fibrinoid necrosis and microaneurysms. What is it?
A) polyarteritis nodosa
B) microscopic polynagiitis
C) henovh schonlein purpura
D) Kawasaki disease
Q49). patient has conjunctivitis and arthritis like symptoms. Also has genital lesions. The diagnosis is associated with.

A) HLA B27

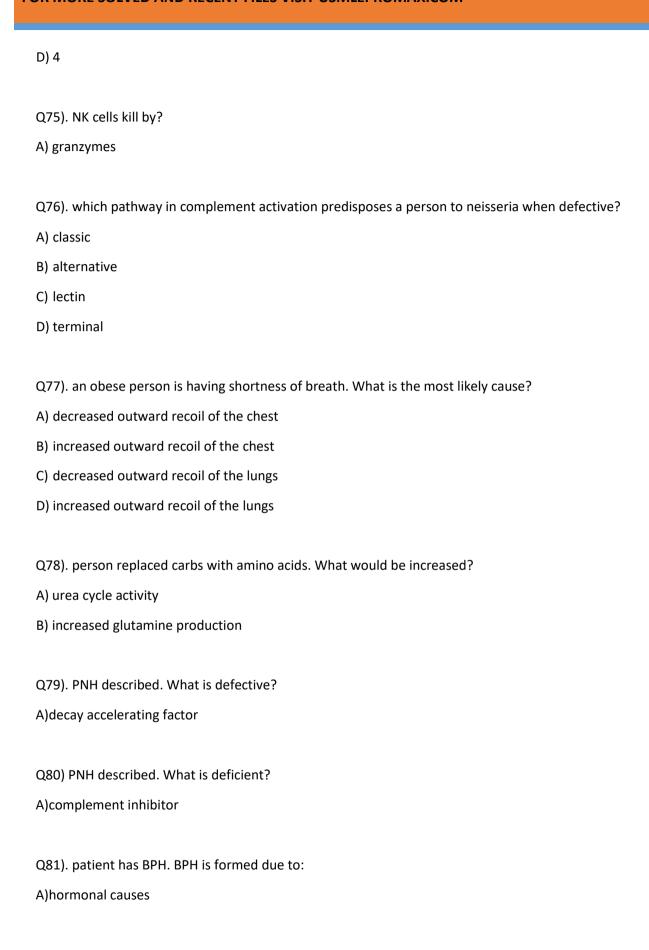


Q58). patient has sense of smell before seizures. Where do her seizures originate
from? A) temporal lobe
Q59). subdural hematoma shown in picture. Which veins affected?
A) bridging veins
B) circle of Willis
Q60). what if inhibited in a granuloma would result in dissemination of the
infection? A) TNF-a
Q61). blurry vision developed in a patient that started from the superior quadrant. Initially patient also had a complaint of floaters and flashes for days. What is the cause?
A) vitreous hemorrhage
B) foreign body
Q62). bitempiral hemianopsia
A) craniopharyngeoma
Q63). rinne and Weber qs on conductive hearing loss
Q64). baby has retinoblastoma. The gene involves which phase of the cell cycle?
A)G1-S
Q64). patient with malignant hyperthermia. Given dantrolene. Mode of
action? A) inhibits the release of calcium from sarcoplasmic reticulum
Q65). paclitaxel inhibits what?
Tubulin
Q66). qs on denial
Q67). qs on altruism

Q68) patient was brought to the ER in an unconscious state. Was administered naloxone. His condition improved. Now few days later patient says he's experiencing withdrawal. What would most likely be seen in the patient? A)increased bowel movement, diaphoresis, dilated pupils Q69). A patient with hypersomnia. Both at night and in the day. Which hormone is deficient? A) orexin Q70). patient has envelope like crystals in urine. What will you treat him with? A) Thiazide diuretics Q71) staghorn stone picture given and asked what it is? https://www.webpathology.com/slides-13/slides/Kidney StaghornCalculus Gross.jpg A) stag horn calculus Q72). patient has club foot. What error? A)deformation B)malformation Q73). which of the following can be used as the hall mark for innate immune response? A) IL12 levels B) PAMPs C) the rest of the answers were adaptive Q74). 10 days after administration of rituximab patient develops urticaria and some other allergic symptoms. His previous rituximab administeration was normal. What hypersensitivity? A) 1

B) 2

C) 3

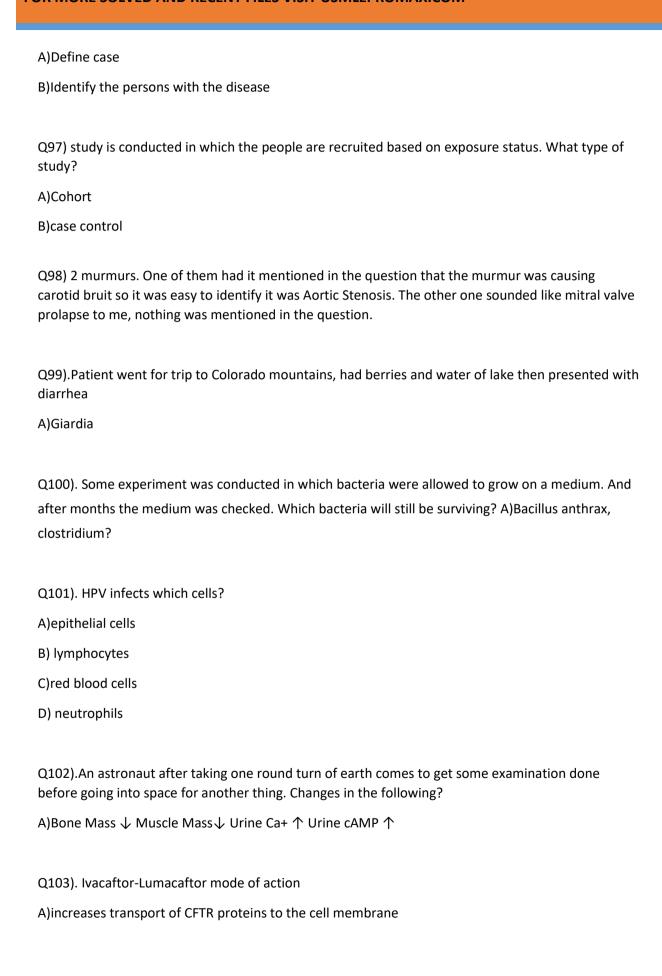


Q82). osteogenesis imperfecta child described. Asked the type of collagen defective:
A) I
B) II
C) III
D) IV
Q83). frank starling qs. Why does the cardiac output increase when the preload
increases? A) increases the stretch on the myocardial cells?
Q84). an experiment was conducted in which increasing the dose increased the adverse effect. Previous data was picked up from previous similar researches which showed that an increased dose actually increased the chance of developing the adverse effect. Biochemical processing showed so and so properties of the drug contributed to the adverse effect. However the same adverse effect can also be caused by multiple other drugs. What does this research cover?
A) dose-dependent response, strength of association, biological plausibility
B) dose-dependent response, biological plausibility, specificity
Q85). several qs with OR given and confidence intervals given for different studies and we had to compare which one was statistically significant and which one wasn't
Q86). folate deficiency. What is this vitamin used up for?
A) nucleotide synthesis
Q87). Patient has tingling sensation and slightly ataxic. Which vitamin
deficiency? A) pyridoxal phosphate
Q88). pain when patient opens his jaw. Which nerve is involved?
A) trigeminal nerve
Q89). patient has fungal nail infection. What is the MoA of the drug used in this
patient? A) squalene epoxidase inhibitor

Q90). old male patient. Morning stiffness in his knees lasts for 15-20 minutes then gets better. Pain gets worse at the end of the day. Synovial fluid analysis of his knee was done. Didn't have any leukocytes. What is the most likely diagnosis in this patient? (Didn't mention the pathologies directly but a v generic point related to each) A) osteoarthritis
B) rheumatoid arthritis
C) paget disease
Q91). drug results in same Km, changed Vmax. What type of drug is it?
A) non competitive inhibitor
B) competitive inhibitor
Q92). lights criteria. Pleural fluid protein/serum protein was 0.6. What must be the most likely cause here?
A) malignancy
B) mycobacterium tuberculosis infection
Q93). 20 year old woman with hypertension. Renal bruits are heard. What is the most likely cause of this?
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this?
this?  A) fibromuscular dysplasia
this?  A) fibromuscular dysplasia
this?  A) fibromuscular dysplasia  B) atherosclerosis
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Q96). Person wants to design a case control study. What should be the first most step he needs to

take?



Q104). A 3 month old baby asked which neurological process will still be
occurring A) Myelination
Q105). We are giving O group which is RH -ve, to a patient with AB group with RH +ve, now there is reaction which of the thing reacted against the patient blood?
A) Anti A
B) Anti B
C) Anti Kell
D) Anti O
E) Anti RH
Q106). Identify the partial agonist curve
Q107). The following histology picture was shown. What is the person deficient in?
https://www.google.com/url?sa=i&url=https%3A%2F%2Fneuropathology-web.org%2Fchapter10%2Fchapter10cPeroxisomes.html&psig=AOvVaw0QcO1cCjZfo4gmqaErl7LW&ust=
1692550985834000&source=images&cd=vfe&opi=89978449&ved=0CBAQjRxqFwoTCMiA4PeZ6YADF QA AAAAdAAAABAE
A)peroxisomes
B)endoplasmic reticulum
C)nucleus
D)golgi
Q108). Uworld question where a man presented with unstable angina. Underwent coronary angiography via femoral approach. Stent is placed and the patient is discharged. Presents few days later with livedo reticularis and cyanotic toe I think. What is the diagnosis?
A)Atheroembolic disease
Q109). NSAID exacerbated respiratory disease described in a patient. Patient had chronic sinusitis, and asthma like symptoms. What else would the patient have?
A)nasal polyps

present at the meatus. Asked which part had been injured?
A)urethra
B)prostate
C)bladder
D)kidney
Q111). 19 year old girl started college. It has been 6 weeks and the girl doesn't go out to any events or talks to anyone in college. When asked why is that so, she says I want to make friends and go out but I am just scared I will do something embarrassing and then everyone will judge me. What is the most likely diagnosis?
A)Avoidant personality
B)generalized anxiety disorder
C)panic disorder
D)phobia
Q112). Unilateral LMN lesion of the facial nerve. Asked whether the patient has lost both upper face and lower face facial nerve functions or just one part?
A)both lost
Q113). Painless white plaque on the lateral tongue that cannot be scraped off. What is the causative organism? A)EBV
B)candida
Q114). Hemolytic disease will most likely occur in which combinations?
A)Rh- mother, Rh+ father, Type O mother, Type AB father
Q115). Enterochromaffin like cells were labelled in a gastric pit and asked what the following cells secrete?

Q116). There was some athlete who was participating in a race. Halfway into the race the athlete becomes dizzy and fell. I don't recall any labs or his BP being mentioned. The question asked what did the athlete drink before starting the race?

A)carbonated sodas

B)sports drink

C)water