

General Medicine

1) Which of the following class of medicines has been linked to the occurrence of hip fractures in the elderly?

- A) Benzodiazepines
 - B) Opiates
 - C) Angiotensin-converting enzyme inhibitors
 - D) Atypical antipsychotics
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2) Patients taking which of the following drugs should avoid drinking grapefruit juice?

- A) Amoxicillin
 - B) Aspirin
 - C) Atorvastatin
 - D) Sildenafil
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3) Why is it necessary to co administer Vitamin B6 (Pyridoxine) with isoniazid?

- A) Vitamin B6 requirements are higher in tuberculosis.
 - B) Isoniazid causes decarboxylation of gamma-carboxyl groups in Vitamin K – dependent enzymes.
 - C) Isoniazid interacts with pyridoxal phosphate.
 - D) Isoniazid causes conversion of homocysteine to cystathionine.
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4) The triad of portal vein thrombosis, hemolysis and pancytopenia suggests of the following diagnosis?

- A) Acute promyelocytic leukemia
 - B) Hemolytic-uremic syndrome (HUS)
 - C) Thrombotic thrombocytopenic purpura (TTP)
 - D) Paroxysmal nocturnal hemoglobinuria (PNH)
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5) The most common cause of high serum calcium in cancer is

- A) Ectopic production of parathyroid hormone
 - B) Direct destruction of bone by tumor cells
 - C) Local production of tumour necrosis factor and IL-6 by bony metastasis
 - D) Production of parathyroid hormone-like substance
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6) Poncet's disease refers to?

- A) Polyarthritis in disseminated tuberculosis
 - B) Anterior uveitis in AIDS
 - C) Posterior uveitis in disseminated tuberculosis
 - D) Posterior uveitis in AIDS
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7) As compared with deep-vein thrombosis in non-pregnant persons, deep-vein thrombosis in pregnant women occurs most frequently in which leg and with what risk of embolic complications?

- A) Left leg, with a greater risk
 - B) Left leg, without a greater risk
 - C) Right leg, with a greater risk
 - D) Right leg, without a greater risk
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8) Which one of the following consequences has been observed with rapid infusion or administration of large volumes of 0.9% saline?

- A) Frequent urination
- B) Hypokalemia
- C) Metabolic acidosis
- D) Renal Vasodilatation

9) Which of the following substances may interfere with gastrointestinal absorption of thyroxine?

- A) Acidophilus
 - B) Echinacea
 - C) Iron
 - D) Vitamin D
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10) Which one of the following statements is true regarding risk of relapse in minimal-change disease?

- A) Relapses are common and are more likely in patients 40 years of age or older
 - B) Relapses are common and are more likely in patients younger than 40 years of age
 - C) Relapses are uncommon but are more likely in patients 40 years of age or older
 - D) Relapses are uncommon but are more likely in patients younger than 40 years of age
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11) Percussion for splenic dullness is accomplished with following techniques except

- A) Nixon method
 - B) Castell method
 - C) Middleton maneuver
 - D) Barkun method
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12) Aplastic anemia has been associated with all of the following EXCEPT

- A) Carbamazepine
 - B) Methimazole
 - C) Non-steroidal inflammatory drugs
 - D) Parvovirus B19 infection
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13) Hemolytic-Uremic syndrome is characterised by all except-

- A) Acute renal failure
 - B) Microangiopathic hemolytic anemia
 - C) Thrombocytopenia
 - D) Leukocytosis
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14) Clubbing of the digits is NOT a sign of?

- A) Crohn's disease
 - B) Bacterial endocarditis
 - C) COPD
 - D) ILD
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15) Helicobacter pylori colonization is implicated in all of the following conditions EXCEPT

- A) Duodenal ulcer
 - B) Gastric adenocarcinoma
 - C) Gastric mucosa-associated lymphoid tissue (MALT) lymphoma
 - D) Gastro esophageal reflux disease
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16) All of the following are clinical manifestations of Ascaris lumbricoides infection EXCEPT

- A) Asymptomatic carriage
 - B) Fever, headache, photophobia, nuchal rigidity and eosinophilia
 - C) Nonproductive cough and pleurisy with eosinophilia
 - D) Right upper quadrant pain and fever
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17) Which of the following antibiotics has the weakest association with the development of Clostridium difficile-associated disease?

- A) Ceftriaxone
- B) Ciprofloxacin
- C) Clindamycin
- D) Piperacillin-tazobactam

18) Which one of the following choices is one of the major risk factors for invasive candidiasis?

- A) Acute necrotizing pancreatitis
 - B) Central venous catheters
 - C) Hematologic malignant disease
 - D) Hemodialysis
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19) Which one of the following drug classes is the mainstay of pharmacologic treatment of eosinophilic esophagitis?

- A) Antihistamines
 - B) Leukotriene modifiers
 - C) Mast-cell stabilizers
 - D) Topical glucocorticoids
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20) Which of the following statements is TRUE regarding the clinical manifestations of IgG4-related disease?

- A) Constitutional symptoms are present in most cases.
 - B) Mass lesions are uncommon.
 - C) Muscle involvement has generally not been reported.
 - D) Retroperitoneal involvement occurs in 40% of affected patients.
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21) For diagnosis of coronary microvascular dysfunction, coronary flow reserve should be:

- A) >5
 - B) >3.5
 - C) <2.5
 - D) <1.2
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22) Beta blockers do not:

- A) Decrease adrenergic drive
 - B) Decrease QTc
 - C) Increase QT dispersion
 - D) Improve LV filling dynamics
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23) Classification criteria for metabolic syndrome includes all EXCEPT

- A) Dysglycemia (Fasting Blood Glucose >200mg/dL)
 - B) High cholesterol (serum total cholesterol >200mg/dL)
 - C) High Triglycerides (serum TG>150)
 - D) Low HDL (<40 in males and <50 in females)
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24) On MRI "Pituitary Bright Spot" is due to-

- A) Pituitary stalk
 - B) Posterior pituitary
 - C) Anterior pituitary
 - D) None of the above
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25) Which of the following congenital heart defects causes fixed splitting of the second heart sound?

- A) Atrial septal defect
 - B) Epstein's anomaly
 - C) Patent foramen ovale
 - D) All above
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26) All the following drugs can cause eosinophilic pneumonia EXCEPT

- A) Nitrofurantoin
- B) Sulfonamides
- C) Nonsteroidal anti-inflammatory drugs (NSAIDs)
- D) Amiodarone

27) Which one of the following choices is a new prokinetic agent for functional dyspepsia being evaluated in phase 3 trials in western countries?

- A) Acotiamide
 - B) Cisapride
 - C) Itopride
 - D) Zelopride
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28) Which drug acts on late sodium current?

- A) Ranolazine
 - B) Ivabradin
 - C) Doxazosin
 - D) Mebifradil
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29) Lorcaseerin is a:

- A) Serotonin/noradrenalin reuptake inhibitor
 - B) Serotonin 2C receptor agonist
 - C) CB1 receptor antagonist
 - D) Gastric and pancreatic lipase inhibitor
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30) Hyperuricemia is an independent risk factor for:

- A) Systemic hypertension
 - B) Diabetes mellitus
 - C) Dyslipidemia
 - D) Atherosclerosis
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31) Nephrogenic Diabetes insipidus is treated by?

- A) Amiloride
 - B) Thiazide diuretic
 - C) Indomethacin
 - D) All of the above
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32) All the following are pulmonary manifestations of systemic lupus erythematosus (SLE) EXCEPT:

- A) Pleuritis
 - B) Progressive pulmonary fibrosis
 - C) Pulmonary haemorrhage
 - D) Diaphragmatic dysfunction with loss of lung volumes
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33) From which stage of sleep are the parasomnias somnambulism and night terrors most likely to occur?

- A) Stage 1
 - B) Stage 2
 - C) Stage 3 / 4 (slow-wave sleep)
 - D) Rapid-eye-movement (REM) sleep
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34) Which of the following interstitial lung disease is not associated with smoking?

- A) Desquamative interstitial pneumonitis
- B) Respiratory bronchiolitis-interstitial disease
- C) Pulmonary Langerhans cell histiocytosis
- D) Bronchiolitis obliterans organizing pneumonia

- 35) Which one of the following choices represents one of the cancers that have most commonly been associated with membranous nephropathy?
- A) Liver cancer
 - B) Pancreatic cancer
 - C) Prostate cancer
 - D) Thyroid cancer
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- 36) Carbapenam group of antibiotics are ineffective in -
- A) Extended spectrum beta lactamase (ESBL)
 - B) NDM1 producing bacteria
 - C) Klebsiella pneumonia
 - D) Acinetobacter
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- 37) Which one of the following statements about the treatment of tuberculosis is true?
- A) In addition to drug-resistance mutations, multiple Mycobacterium tuberculosis genetic factors appear to influence treatment outcomes.
 - B) Studies have shown limited penetration by rifampin into caseous foci.
 - C) The 6-month standard course of therapy for drug-susceptible disease is longer than necessary for some patients.
 - D) At least three M. tuberculosis subpopulations with different intrinsic drug susceptibilities are thought to exist.
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- 38) Which one of the following agents is generally recommended for the treatment of venous thromboembolism during pregnancy?
- A) Dabigatran
 - B) Low-molecular-weight heparin
 - C) Unfractionated heparin
 - D) Warfarin
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- 39) Which of the following is not true regarding parathyroid hormone (PTH) and Vitamin D?
- A) Vitamin D deficiency causes hyperparathyroidism
 - B) PTH is needed for 1-hydroxylation in the liver
 - C) Magnesium is needed for PTH secretion
 - D) PTH is needed for 1-hydroxylation in the kidneys
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- 40) All of the following are examples of advanced glycation end products EXCEPT:
- A) HbA1c
 - B) Glycated albumin
 - C) Fructosamine
 - D) Salivary glycosylation
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- 41) Which of the following is considered as fourth component of glycemic control?
- A) Glycemic variability
 - B) HbA1c
 - C) Glycated albumin
 - D) Post-prandial plasma glucose
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- 42) Which drug should be avoided in heart failure?
- A) Saxagliptin
 - B) Pioglitazone
 - C) Metformin
 - D) All of the above

43) Significant allergic reactions like angioedema, anaphylaxis and Stevens-Johnson syndrome are seen with:

- A) Sitagliptin
 - B) Vildagliptin
 - C) Saxagliptin
 - D) Linagliptin
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44) Subclinical hypothyroidism is defined as elevated TSH with:

- A) Normal T4
 - B) Low T4
 - C) Low FT4
 - D) Normal FT4
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45) Which of the following statements about alcoholic liver disease is not true?

- A) Alcoholic cirrhosis is often characterized by diffuse fine scarring with small regenerative nodules
 - B) Ratio of AST to ALT is often higher than 2
 - C) Serum aspartate aminotransferase levels are often greater than 1000U/L
 - D) Concomitant hepatitis C accelerates the development of alcoholic cirrhosis
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46) All the following are potential side effects of Infliximab except:

- A) Demyelinating disorders
 - B) Exacerbation of heart failure
 - C) Pancytopenia
 - D) Pulmonary fibrosis
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47) What is the most common extra-articular manifestation of ankylosing spondylitis?

- A) Anterior uveitis
 - B) Cataracts
 - C) Inflammatory bowel disease
 - D) Third-degree heart block
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48) All the following organisms have been implicated in reactive arthritis except

- A) Chlamydia trachomatis
 - B) Neisseria gonorrhoeae
 - C) Salmonella enteritidis
 - D) Shigella dysenteriae
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49) Which one of the following clinical findings suggests an increased risk that a thyroid nodule is malignant?

- A) Family history of auto-immune thyroiditis
 - B) Family history of multiple endocrine neoplasia type 1.
 - C) Female sex
 - D) Focal uptake of ¹⁸F- fluorodeoxyglucose by the thyroid
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50) Which one of the following statements accurately describes ibrutinib?

- A) It is an inhibitor of Bruton's tyrosine kinase
 - B) It is an interleukin-2 receptor agonist
 - C) It is a monoclonal antibody directed against CD20
 - D) It is a phosphoinositide3-kinase inhibitor
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51) Which one of the following statements best describes Selexipag?

- A) It is a guanylate cyclase stimulator
- B) It is a phosphodiesterase type 5 inhibitor
- C) It is an IP prostacyclin-receptor agonist
- D) It is an endothelin-receptor antagonist

52) Indications for treating subclinical hyperthyroidism are all except

- A) Age > 65 years
 - B) Presence of heart disease
 - C) Post menopausal women
 - D) Symptomatic patient
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53) SIADH is diagnosed by:

- A) Schwartz criteria
 - B) Serum vasopressin levels
 - C) Water loading tests
 - D) All of the above
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54) Distinct complication of hepatic hydrothorax is

- A) Hepatic encephalopathy
 - B) ARDS
 - C) Hydro-pneumothorax
 - D) Spontaneous bacterial empyema
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55) What total kidney volume is a risk factor for rapid deterioration of GFR in ADPKD?

- A) 750 ml
 - B) 2000 ml
 - C) 1500 ml
 - D) 500 ml
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56) A patient with Systemic Lupus Erythematosus (SLE) has impaired kidney function. Which class is unlikely in renal histology?

- A) Class IV
 - B) Class III
 - C) Class II
 - D) Class V
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57) All the following drugs are associated with an increased risk of osteoporosis in adults except

- A) Cyclosporine
 - B) Dilantin
 - C) Heparin
 - D) Ranitidine
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58) All the following are effects of hypercalcemia except

- A) Diarrhea
 - B) Confusion
 - C) Polyuria
 - D) Short QT interval
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59) All of the following would be expected to increase serum prolactin levels except

- A) Chest wall trauma
 - B) Hyperthyroidism
 - C) Renal failure
 - D) Sexual orgasm
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60) Which one of the following statements about the clinical manifestations of narcolepsy is true?

- A) Affected patient tend to have low body-mass index (BMI)
- B) Complex auditory hallucinations are common
- C) Rapid-eye-movement (REM) sleep can occur at any time of day
- D) Symptoms usually begin in midlife

61) In IgA nephropathy, deposition of IgA occurs in –

- A) Glomerular capillaries
 - B) Glomerular mesangium
 - C) Glomerular basement membrane
 - D) All of these
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62) Which one of the following statements describes the ability of rifampin and levofloxacin to cross the blood-brain barrier?

- A) CSF concentrations of both drugs are < 30% of the plasma concentrations.
 - B) CSF concentrations of both drugs reach 70% of the plasma concentrations.
 - C) CSF concentration of Levofloxacin reach 70% of the plasma concentration; those of rifampin reach < 30% of plasma concentration.
 - D) CSF concentration of rifampin reach 70% of the plasma concentration; those of Levofloxacin reach < 30% of plasma concentration.
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63) Which one of the following statements about pharmacologic therapies for postmenopausal osteoporosis is true?

- A) Denosumab cannot be used in compromised renal function.
 - B) Teriparatide works primarily by decreasing bone resorption.
 - C) Use of bisphosphonates should be limited to those who have normal serum Vitamin D levels.
 - D) Zoledronic acid causes flulike symptoms for up to 3 days after the first infusion in up to two thirds of patients.
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64) High dietary intake of sodium leads to

- A) Increased risk of calcium stone formation
 - B) Decreased risk of calcium stone formation
 - C) Has no effect on stone formation
 - D) None of the above
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65) According to the current recommendations. metformin can be used in type 2 DM with CKD till e-GFR of:

- A) 30 ml/min
 - B) 40 ml/min
 - C) 50 ml/min
 - D) 60 ml/min
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66) Which is the safest sulfonylurea in chronic kidney disease?

- A) Glibenclimide
 - B) Gliclazide
 - C) Glimepride
 - D) Glipizide
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67) Which of the following therapies have been shown to retard deterioration of lung functions in COPD?

- A) Salmeterol
 - B) Tiotropium
 - C) Inhaled steroids
 - D) None of the above
-

68) The indication of starting inhaled corticosteroids in COPD is:

- A) FEV1 < 30%
- B) FEV1 < 60%
- C) More than 2 exacerbations per year
- D) More than 4 exacerbations per year

69) What is true about angiotensin converting enzyme (ACE) levels in sarcoidosis:

- A) Elevated ACE levels predict worse outcomes
 - B) ACE is a sensitive biomarker for diagnosis of sarcoidosis
 - C) ACE is a specific biomarker for diagnosis of sarcoidosis
 - D) ACE activity may predict disease activity in selected cases
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70) The earliest site to be involved in Alzheimer's disease is:

- A) Perihippocampal region
 - B) Frontal lobe
 - C) Temporo-parietal region
 - D) Anterior thalamic nucleus
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71) Which of the following statements about Syringomyelia is true?

- A) > 50% cases associated with Chiari malformations
 - B) Symptoms typically begin in middle life
 - C) Syrinx cavities are always congenital
 - D) Vibration & position sense are usually diminished
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72) Which drug can be used safely during pregnancy for treatment of chronic hepatitis-B infection -

- A) Telbivudine
 - B) Tenofovir
 - C) Entecavir
 - D) Both A & B
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73) Which one of the following statements about the management of functional dyspepsia is true?

- A) Antacids are modestly effective in reducing symptoms
 - B) Psychological therapies have an established role in treatment.
 - C) The benefit of helicobacter pylori eradication therapy may be greatest for patients with postprandial fullness.
 - D) Tricyclic antidepressants such as amitriptyline are preferred over selective serotonin-reuptake inhibitors for treatment.
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74) Which one of the following statements is true about the treatment of drug-resistant tuberculosis?

- A) Regimens for MDR disease are substantially more toxic than standard regimens
 - B) Rifampin resistance in the absence of isoniazid resistance is not uncommon
 - C) Appropriate duration of treatment for MDR tuberculosis is 20 months
 - D) WHO recommends an induction phase lasting 4 months for MDR disease
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75) Which one of the following statements is true regarding Vasculitis?

- A) Associated cardiac disease is typically limited to disorders that affect the small vessels.
 - B) Cutaneous involvement is generally seen with disorders that affect the large vessels.
 - C) Skin findings include palpable purpura that may ulcerate.
 - D) Tests for ANA & ANCA are rarely positive.
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76) Primary antiepileptic drug which should be avoided in patients with pre-existing cardiac disease is:

- A) Phenytoin sodium
 - B) Sodium valproate
 - C) Carbamazepine
 - D) Phenobarbitone
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77) Drug of choice to treat early alcohol-related seizure in ICU is:

- A) Midazolam
- B) Diazepam
- C) Phenytoin sodium
- D) Lorazepam

78) All of the following are CNS manifestations of SLE except:

- A) Myasthenis gravis
 - B) Demyelinating syndrome
 - C) Aseptic meningitis
 - D) Myelopathy syndrome
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79) Which of the following are the dermatological manifestations of primary Sjogren's syndrome?

- A) Dryness of skin
 - B) Alopecia
 - C) Annular erythema
 - D) All the above
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80) Which is the most common invasive fungal disease in lung transplant recipient?

- A) Aspergillosis
 - B) Candidiasis
 - C) Pneumocystis jiroveci
 - D) Mucormycosis
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81) Which of the following neurologic phenomena is classically associated with herniation of the brain through the foramen magnum?

- A) Third nerve compression and ipsilateral papillary dilatation
 - B) Catatonia
 - C) "Locked in" state
 - D) Respiratory arrest
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82) All of the following are side effects of phenytoin except

- A) Leucopenia
 - B) Ataxia
 - C) Osteomalacia
 - D) Facial coarsening
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83) Which of the following medicines has been most commonly implicated in development of noninfectious chronic meningitis?

- A) Acetaminophen
 - B) Ibuprofen
 - C) Beta-lactam antibiotics
 - D) Phenobarbitone
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84) All of the following match the anticoagulant with its correct mechanism of action except

- A) Abciximab - GpIIb/IIIa receptor inhibition
 - B) Clopidogrel - inhibition of thromboxane A2 release
 - C) Fondaparinux - inhibition of factor Xa
 - D) Argatroban - thrombin inhibition
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85) All the following types of cancer commonly metastasize to the central nervous system except

- A) Ovarian
- B) Breast
- C) Melanoma
- D) Hypernephroma

86) The cushing response is?

- A) Slowing of respiration
 - B) Decrease of pulse rate
 - C) Increase in arterial blood pressure
 - D) Decrease of blood pressure
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87) A 36 year old man with HIV (Cd4+ count 112) develops a scaly, waxy, yellowish, patchy, crusty, pruritic rash on and around his nose. Rest of his skin examination is normal. What is the likely diagnosis?

- A) Molluscum contagiosum
 - B) Psoriasis
 - C) Reactivation herpes zoster
 - D) Seborrheic dermatitis
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88) Which one of the following podocyte receptors is targeted by an autoantibody associated with primary membranous nephropathy?

- A) DDR 1
 - B) IGF 1R
 - C) PLA 2R
 - D) PDGFR
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89) A 40 year patient presented with ABG values – Na⁺ 140, K⁺ 4.0, Cl⁻ 106, HCO₃⁻ 14, AG 20, PaCO₂ 24, pH 7.39, the diagnosis is –

- A) Metabolic acidosis, respiratory acidosis
 - B) Metabolic acidosis, respiratory alkalosis
 - C) Metabolic alkalosis, respiratory alkalosis
 - D) Metabolic alkalosis, respiratory acidosis
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90) All of the following factors increase the risk for Clostridium difficile-associated disease except

- A) Antacids
 - B) C. difficile colonization
 - C) Enteral tube feeds
 - D) Older age
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91) All of the following clinical findings are consistent with severe mitral stenosis except

- A) Atrial fibrillation
 - B) Opening snap late after S2
 - C) Pulsatile liver
 - D) Right ventricular heave
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92) Acute hyperkalemia is associated with which of the following ECG changes?

- A) QRS widening
 - B) Prolongation of ST segment
 - C) Decrease in PR interval
 - D) T wave flattening
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93) Which of the following organisms is unlikely to be found in the sputum of a patient with cystic fibrosis?

- A) Haemophilus influenzae
- B) Aspergillus fumigates
- C) Staphylococcus aureus
- D) Acinetobacter baumannii

94) A 20 year-old normal non-smoking female has pulmonary embolism while on oral contraceptive pills. Which of the following is the most likely predisposing factor?

- A) Abnormal factor V
 - B) Abnormal protein C
 - C) Reduced protein C level
 - D) Reduced protein S level
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95) Which of the following is the most potent stimulus for hypothalamic production of arginine vasopressin?

- A) Hypertonicity
 - B) Hyperkalemia
 - C) Hypotonicity
 - D) Intravascular volume depletion
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96) In patients with chronic renal failure, which of the following is the most important contributor to renal osteodystrophy?

- A) Impaired renal production of 1,25-dihydroxy Vitamin D3
 - B) Hypocalcaemia
 - C) Hypophosphatemia
 - D) Loss of Vitamin D and calcium via dialysis
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97) True about intra-hepatic cholestasis of pregnancy:

- A) Presents with jaundice in first trimester of pregnancy
 - B) Treatment of choice is delivery of fetus
 - C) Associated with maternal mortality rate of upto 20%
 - D) Bile acid levels are elevated upto 10-25 fold
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98) Febrile neutropenia is defined as

- A) Fever > 100 F, ANC < 500
 - B) Fever > 100 F, ANC > 500
 - C) Fever > 101 F, ANC < 500
 - D) Fever >101 F, ANC > 500
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99) Most common type of HIV-1 clade in India is:

- A) Clade A
 - B) Clade B
 - C) Clade C
 - D) Clade D
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100) Consensus expert opinion supports the use of which one of the following agents for pharmacologic treatment of anxiety at end of life?

- A) Atypical antipsychotics
- B) Benzodiazepines
- C) Selective serotonin-reuptake inhibitors
- D) Tricyclic antidepressants