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1. Warfarin blocks which of the following coagulation factors? Select all that apply.
 - A. II
 - B. V
 - C. VII
 - D. IX
 - E. X

2. Which SSRI has the highest incidence of diarrhea?
 - A. Fluoxetine
 - B. Citalopram
 - C. Sertraline
 - D. Paroxetine

3. Which of the following should be monitored in patients treated with hydroxychloroquine?
 - A. SCr
 - B. Potassium
 - C. Skin changes
 - D. Vision changes

4. Which one of the following would most likely be used to reverse anticoagulation effect of Heparin? Select all that apply.
 - A. Vitamin K
 - B. Protamine
 - C. Kcentra
 - D. FFP

5. Which patch is the only one you can cut?
 - A. Fentanyl
 - B. Lidoderm
 - C. Nitroglycerin
 - D. Oxytrol
 - E. Catapres

6. Side effects of opioids include all of the following except:
 - A. Respiratory depression
 - B. Mydriasis
 - C. Constipation
 - D. Sedation

7. What is the treatment of choice for dog/cat bites?
 - A. Penicillin
 - B. Nafcillin/oxacillin
 - C. Amoxicillin-clavulanate
 - D. Vancomycin

8. Which vitamin plays an important role in the chemistry of vision?
 - A. Vitamin A
 - B. Vitamin B
 - C. Vitamin C
 - D. Vitamin D
9. Which benzodiazepine would be the safest choice in someone >65 yo?
 - A. Lorazepam
 - B. chlordiazepoxide
 - C. Clonazepam
 - D. Diazepam
10. Which of the following is not a side effect of Donepezil?
 - A. Nausea
 - B. Weight gain
 - C. Muscle cramps
 - D. Headache
11. Which diabetes drug class is least likely to result in weight gain?
 - A. Insulins
 - B. Sulfonylureas
 - C. Biguanides
 - D. TZDs
12. What is vancomycin's spectrum of coverage?
 - A. MRSA
 - B. Streptococci species
 - C. Clostridium difficile
 - D. All of the above
13. What is an infusion related side effect associated with vancomycin?
 - A. Nausea/vomiting
 - B. "Red man" syndrome
 - C. Respiratory distress
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14. JL is currently taking simvastatin 40mg QHS and Diltiazem 180mg QD. Which is true of the interaction between simvastatin and diltiazem?
 - A. The simvastatin dose should be increased as diltiazem is a CYP3A4 inducer
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 - A. Carbamazepine
 - B. Phenytoin
 - C. Levetiracetam
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16. PJ is a 28yo female who comes to refill her oral contraceptive that contains estrogen and progesterone. At the register, you see she is also purchasing St. John's wart. Which of the following should the pharmacist counsel her on?
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- A. 30 minutes
 - B. 1 hour
 - C. 2 hours
 - D. 4 hours
18. Which of the following medications may elevate blood pressure? Select all that apply.
- A. Pseudoephedrine
 - B. Caffeine
 - C. NSAIDs
 - D. acetaminophen
19. Which of the following is not a loop diuretic? Select all that apply.
- A. Furosemide
 - B. Torsemide
 - C. Bumetanide
 - D. Metolazone
20. Which of the following opioids has the lowest potential for abuse?
- A. Oxycodone
 - B. Fentanyl
 - C. Hydromorphone
 - D. Tramadol
21. What is one adverse effect of opioids that the body does not develop tolerance to?
- A. Constipation
 - B. Sedation
 - C. Nausea
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22. What is the therapeutic plasma range concentration for lithium?
- A. 0.4-1.8mEq/L
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- C. 0.5-1.2mEq/L
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- A. Sirolimus
 - B. Tobramycin
 - C. Clindamycin
 - D. Carbamazepine
24. Aminoglycosides can cause....
- A. Nephrotoxicity
 - B. Ototoxicity
 - C. Neuromuscular toxicity
 - D. All of the above
25. Which of the following medications is a Factor Xa inhibitor?
- A. Warfarin
 - B. Rivaroxaban
 - C. Dabigatran
 - D. Aspirin
26. What is an important counseling point for patients taking warfarin?
- A. Avoid a high fiber diet
 - B. Drink a full glass of water
 - C. Keep vitamin K consumption consistent
 - D. Wear sunscreen
27. Which of the following antidepressants has the least sexual adverse effects?
- A. Venlafaxine
 - B. Paroxetine
 - C. Duloxetine
 - D. Bupropion
28. Which of the following antidepressants is an SNRI?
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 - B. Amitriptyline
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 - D. Citalopram
29. Which one of the following is considered as a "peak-less" basal insulin?
- A. Lispro
 - B. Aspart
 - C. Regular
 - D. Glargine
30. Vitamin B6 can be used for..?
- A. Acne
 - B. Isoniazid- associated neuropathy
 - C. Pregnancy induced N/V
 - D. B&C

31. Which of the following antibiotics should be avoided in moderate to severe kidney disease?
- A. Cipro
 - B. Nitrofurantoin
 - C. Bactrim
 - D. Levaquin
32. Lisinopril is most likely to affect what electrolyte?
- A. Potassium
 - B. Chloride
 - C. Sodium
 - D. Magnesium
33. Which of the following medications is folic acid supplement recommended (for low chronic doses)?
- A. Prednisone
 - B. Metformin
 - C. Insulin glargine
 - D. Methotrexate
34. Which of the following medications should pulse be closely monitored?
- A. Diltiazem
 - B. Amlodipine
 - C. Enalapril
 - D. Omeprazole
35. What medication is most likely to increase bleed risk?
- A. Pantoprazole
 - B. Senna
 - C. Acetaminophen
 - D. Clopidogrel
36. Which of the following medications is most likely to cause edema?
- A. Pregabalin
 - B. Phenytoin
 - C. Paroxetine
 - D. Duloxetine
37. Which of the following medication is likely to cause a GI bleed?
- A. Omeprazole
 - B. Propranolol
 - C. Lubiprostone
 - D. Indomethacin
38. What is the most appropriate treatment for C diff.?
- A. Metronidazole
 - B. Levofloxacin
 - C. Augmentin

- D. None of the above
39. What is the most common cause of diarrhea?
A. Amitriptyline
B. Colchicine
C. Imodium
D. Verapamil
40. What medication is most likely to block the absorption of other medications?
A. Docusate
B. Metoprolol
C. Aspirin
D. Cholestyramine
41. What medication is most likely to be useful to treat neuropathy symptoms?
A. Sertraline
B. Fluvoxamine
C. Duloxetine
D. Ranitidine
42. What medication is an acetylcholinesterase Inhibitor used for dementia?
A. Namenda
B. donepezil
C. Sulcrafate
D. Quetiapine
43. What is the approximate goal range for lithium?
A. 5-10
B. 0.8-1.2
C. 2.5-4.0
D. 10-20
44. Which medication has the potential to cause tardive dyskinesia?
A. Erythromycin
B. Metoclopramide
C. Ropinerol
D. Nitroglycerine
45. Which medication is most likely to exacerbate CHF?
A. Acetaminophen
B. Ibuprofen
C. Tramadol
D. Phenytoin
46. Which medication blocks dopamine receptors?
A. Dobutamine
B. Epinephrine
C. Risperidone
D. Escitalopram

47. Which of the following meds is known to cause life threatening agranulocytosis?
- A. clonazepam
 - B. Clonidine
 - C. Clozapine
 - D. Celecoxib
48. Which of the following is an anticoagulant that needs to be monitored for bleeding?
- A. Apixiban
 - B. Carbamazepine
 - C. Hydralazine
 - D. Hydroxyzine
49. Which of the following has the highest anticholinergic effects?
- A. tolteridine
 - B. oxybutynin
 - C. Myrbetriq
 - D. None have anticholinergic effects
50. Which of the following is most likely to increase osteoporosis risk?
- A. Risendronate
 - B. Acetaminophen
 - C. Ranitidine
 - D. Prednisone
51. Which of the following is primarily cleared by the kidney, ie can accumulate in CKD?
- A. Warfarin
 - B. Ativan
 - C. Digoxin
 - D. Sertraline
52. What is the mechanism of action of terazosin?
- A. Increase nitous oxide
 - B. Blocks alpha receptors
 - C. Blocks beta receptors
 - D. Calcium channel blocker
53. What medication has the potential to block absorption of quinolone antibiotics like Levaquin/Cipro?
- A. Ferrous Sulfate
 - B. B-12 supplement
 - C. Aspirin
 - D. Vitamin D
54. Which of the following would indicate a mildly elevate potassium level (meq/L)?
- A. 3.2
 - B. 4.5
 - C. 5.4

D. 6.8

55. For routine monitoring, how often should an A1C be drawn?
- A. Weekly
 - B. Monthly
 - C. Every 3-6 months
 - D. Annually
56. Which medication is most likely to cause constipation?
- A. Sertraline
 - B. Allopurinol
 - C. Diphenhydramine
 - D. Liraglutide
57. Which of the following is used in chemo-induced nausea and vomiting?
- A. Protonix
 - B. Dexamethasone
 - C. Azathioprine
 - D. Bumex
58. Which medication should be reassessed in thrombocytopenia?
- A. Acetaminophen
 - B. Aspirin
 - C. Prilosec
 - D. Metoprolol
59. Which medication works via blockade of calcium channels?
- A. Diltiazem
 - B. Calcium carbonate
 - C. Digoxin
 - D. Labetolol
60. Which of the following can be problematic with iron supplementation in the elderly?
- A. Absorption
 - B. Elimination
 - C. Distribution
 - D. Metabolism
61. Which disease state is common with kidney disease?
- A. Liver failure
 - B. Anemia
 - C. Chronic Diarrhea
 - D. Gout
62. Which medication is a Xanthine oxidase inhibitor used for gout?
- A. Probenecid
 - B. Prednisone
 - C. Colchicine
 - D. Allopurinol

63. Which of the following does not inhibit Cox-2?
- A. Ibuprofen
 - B. Celecoxib
 - C. Piroxicam
 - D. Methotrexate
64. Which of the following is amiodarone likely to affect?
- A. Anemia
 - B. Thyroid
 - C. Kidney
 - D. Bones
65. Which of the following is Phenytoin likely to affect?
- A. Warfarin
 - B. Docusate
 - a. Birth control (estrogen containing)
 - C. A and C
66. What medication is unique from the others in its classification?
- A. Sertraline
 - B. Fluvoxamine
 - C. Venlafaxine
 - D. Paroxetine
67. Most likely medication to cause nausea?
- A. Canagliflozin
 - B. Liraglutide
 - C. Glipizide
 - D. Pregabalin
68. Initial best choice against strep pyogenes?
- A. Amoxicillin
 - B. Levaquin
 - C. Clindamycin
 - D. Metronidazole
69. Which diabetes med stimulates insulin release as its primary mechanism of action (MOA)?
- A. Glimepiride
 - B. Metformin
 - C. Pioglitazone
 - D. Sitagliptin
70. Oral 20 mg Oxycodone is approximately equivalent to how much oral morphine?
- A. 10mg
 - B. 20mg
 - C. 30mg
 - D. 40mg

71. Approximately how long until a fentanyl patch begins having an effect?
- A. 1 hour
 - B. 6 hours
 - C. 1-3 days
 - D. 7days
72. Senna is what kind of laxative?
- A. Stimulant
 - B. Osmotic
 - C. Bulk
 - D. Stool softener
73. Which medication increases the risk of metabolic syndrome?
- A. Clonidine
 - B. Methylphenidate
 - C. Morphine
 - D. Olanzapine
74. Of the following, most appropriate treatment for pertussis?
- A. Doxycycline
 - B. Vancomycin
 - C. Azithromycin
 - D. Ampicillin
75. Which of the following would be considered a non-selective beta blocker?
- A. Metoprolol
 - B. Atenolol
 - C. Nebivolol
 - D. Propranolol
76. Which medication would likely contribute to hyperkalemia?
- A. Olmesartan
 - B. Hydrochlorothiazide
 - C. Metoprolol
 - D. Chlorthalidone
77. Which medication would be most likely to exacerbate SLE (Lupus)?
- A. Atenolol
 - B. Hydralazine
 - C. Lisinopril
 - D. Prednisone
78. Which medication is most likely to worsen hypertension?
- A. Ibuprofen
 - B. Tylenol
 - C. Ultram

- D. Oxycodone
79. Which of the following increases osteoporosis risk?
A. Naproxen
B. Hyperthyroidism
C. GERD
D. Carafate
80. Which of the following causes anticholinergic effects?
A. Dicyclomine
B. Loperamide
C. Memantine
D. Linezolid
81. Which medication is not used for Rheumatoid Arthritis?
A. Sulfasalazine
B. Hydralazine
C. Methotrexate
D. Plaquinil
82. Of the following, which antidepressant tends to be most sedating?
A. Sertraline
B. Citalopram
C. Bupropion
D. Trazodone
83. Which would cause highest risk for QTc Prolongation?
A. Levofloxacin
B. Penicillin
C. Cephalexin
D. Nitrofurantoin
84. What is not true regarding isoniazid?
A. Used in the treatment of TB
B. Can cause hepatitis
C. Neuropathy is a possible side effect
D. All of the above
85. Which of the following is a DPP4 inhibitor?
A. Pioglitazone
B. Sitagliptin
C. Empagliflozin
D. Glyburide
86. Which of the following is a bisphosphonate for the treatment of osteoporosis?
A. Risedronate
B. Miacalcin
C. Raloxifene
D. Conjugated estrogen

87. Which of the following medications should be limited to 5 days of use?
- A. Diclofenac
 - B. Ketorolac
 - C. Meloxicam
 - D. Nabumetone
88. Which medication would have highest anticholinergic activity?
- A. Claritin
 - B. Cetirizine
 - C. Amitriptyline
 - D. Clonidine
89. Which medication most effective in the acute management of migraines?
- A. Propranolol
 - B. Valproic acid
 - C. Sumatriptan
 - D. Tylenol
90. Which medication is used for both treatment and prophylaxis of gout?
- A. Allopurinol
 - B. Colchicine
 - C. Prednisone
 - D. Indomethacin
91. Which medication should we monitor serum creatinine?
- A. Valsartan
 - B. Amlodipine
 - C. Atenolol
 - D. Clonidine
92. Which antihypertensive could also be beneficial for BPH?
- A. Losartan
 - B. Doxazosin
 - C. Nifedipine
 - D. Labetolol
93. Which of the following is not a sign of digoxin toxicity?
- A. Nausea
 - B. Bradycardia
 - C. Visual Changes
 - D. Edema
94. Which dementia medication is a NMDA receptor antagonist?
- A. Rivastigmine
 - B. Galantamine
 - C. Donepezil
 - D. Memantine

95. Which of the following medications would likely increase glucose readings in a patient with type 2 diabetes?
- A. Metformin
 - B. Naprosyn
 - C. Methylprednisolone
 - D. Lisinopril
96. A patient with type 2 diabetes has a history of hypoglycemia. Which medication is best avoided?
- A. Glimepiride
 - B. Metformin
 - C. Stigalipitin
 - D. Pioglitazone
97. Which inhaler would not be used for symptomatic relief of asthma-associated shortness of breath?
- A. Ventolin HFA
 - B. Proair HFA
 - C. Advair HFA
 - D. Proventil HFA
98. Which medication is a failed hypertension medication that was marketed due to its side effect profile?
- A. Finasteride
 - B. Sildenafil
 - C. Tamsulosin
 - D. Bupropion
99. Which antidepressant medication can also be used for smoking cessation?
- A. Sertraline
 - B. Fluoxetine
 - C. Bupropion
 - D. Doxepin
100. Least likely medication to cause sexual dysfunction?
- A. Paroxetine
 - B. Wellbutrin
 - C. Venlafaxine
 - D. Amitriptyline
101. Primary way lithium is eliminated from the body?
- A. Liver metabolism
 - B. Feces
 - C. Urine
 - D. Evaporation

ANSWERS

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- A. II
- B. V
- C. VII
- D. IX
- E. X

Answer: A. II, C. VII, D. IX, E. X

2. Which SSRI has the highest incidence of diarrhea?

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Answer: C. Sertraline

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Answer: D. Vision changes

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Answer: B. Protamine

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7. What is the treatment of choice for dog/cat bites?
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 - C. Amoxicillin-clavulanate**
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Answer: C. Amoxicillin-clavulanate

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Answer: A. Vitamin A

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 - B. chlordiazepoxide
 - C. Clonazepam
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11. Which diabetes drug class is least likely to result in weight gain?
- A. Insulins
 - B. Sulfonylureas
 - C. Biguanides**
 - D. TZDs

Answer: C. Biguanides (metformin is only drug in this class)

12. What is vancomycin's spectrum of coverage?
- A. MRSA
 - B. Streptococci species
 - C. Clostridium difficile
 - D. All of the above**

Answer: D. All of the above

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Answer: D. The simvastatin dose should be decreased as diltiazem is a CYP3A4 inhibitor

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Answer: B. St. John's Wart can decrease levels of oral contraceptives, leading to therapy failure and pregnancy, as it is a CYP3A4 inducer

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 - B. 1 hour**
 - C. 2 hours
 - D. 4 hours

Answer: B. 1 hour

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 - B. Caffeine**
 - C. NSAIDs**
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Answer: A. Pseudoephedrine, B. Caffeine, C. NSAIDs

19. Which of the following is not a loop diuretic? Select all that apply.
- A. Furosemide
 - B. Torsemide
 - C. Bumetanide
 - D. Metolazone**

Answer: D. Metolazone

20. Which of the following opioids has the lowest potential for abuse?
- A. Oxycodone
 - B. Fentanyl
 - C. Hydromorphone
 - D. Tramadol**

Answer: D. Tramadol has less addiction potential and is less potent than the others.

21. What is one adverse effect of opioids that the body does not develop tolerance to?
- A. Constipation**
 - B. Sedation
 - C. Nausea
 - D. Vomiting

Answer: A. Constipation

22. What is the therapeutic plasma range concentration for lithium?
- A. 0.4-1.8mEq/L
 - B. 1.2-2.4mEq/L
 - C. 0.5-1.2mEq/L**
 - D. 2.5-5.0mEq/L

Answer: C. 0.5-1.2mEq/L

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 - B. Drink a full glass of water
 - C. Keep vitamin K consumption consistent**
 - D. Wear sunscreen

Answer: C. Keep vitamin K consumption consistent

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- A. Venlafaxine
 - B. Paroxetine
 - C. Duloxetine
 - D. Bupropion**

Answer: D. Bupropion

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Answer: A. Venlafaxine

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 - C. Regular
 - D. Glargine**

Answer: D. Glargine

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- A. Acne
 - B. Isoniazid- associated neuropathy
 - C. Pregnancy induced N/V
 - D. B&C**

Answer: D. B. Isoniazid – associated neuropathy & C. Pregnancy induced N/V

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 - G. Bactrim
 - H. Levaquin

Answer: B. Nitrofurantoin

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 - F. Chloride
 - G. Sodium
 - H. Magnesium

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Answer: D. Indomethacin

38. What is the most appropriate treatment for C diff.?
- E. Metronidazole**
 - F. Levofloxacin
 - G. Augmentin
 - H. None of the above

Answer: A. Metronidazole

39. What is the most common cause of diarrhea?
- E. Amitriptyline
 - F. Colchicine**
 - G. Imodium
 - H. Verapamil

Answer: B. Colchicine

40. What medication is most likely to block the absorption of other medications?
- E. Docusate
 - F. Metoprolol
 - G. Aspirin
 - H. Cholestyramine**

Answer: D. Cholestyramine

41. What medication is most likely to be useful to treat neuropathy symptoms?
- E. Sertraline
 - F. Fluvoxamine
 - G. Duloxetine**
 - H. Ranitidine

Answer: C. Duloxetine

42. What medication is an acetylcholinesterase Inhibitor used for dementia?
- E. Namenda
 - F. donepezil**
 - G. Sulcrafate
 - H. Quetiapine

Answer: B. donepezil

43. What is the approximate goal range for lithium?
- E. 5-10
 - F. 0.8-1.2**
 - G. 2.5-4.0
 - H. 10-20

Answer: B. 0.8-1.2

44. Which medication has the potential to cause tardive dyskinesia?
- E. Erythromycin
 - F. Metoclopramide**
 - G. Ropinerol
 - H. Nitroglycerine

Answer: B. Metoclopramide

45. Which medication is most likely to exacerbate CHF?
- E. Acetaminophen
 - F. Ibuprofen**
 - G. Tramadol
 - H. Phenytoin

Answer: B. Ibuprofen

46. Which medication blocks dopamine receptors?
- E. Dobutamine
 - F. Epinephrine
 - G. Risperidone**
 - H. Escitalopram

Answer: C. Risperidone

47. Which of the following meds is known to cause life threatening aggranulocytosis?
- E. clonazepam
 - F. Clonidine
 - G. Clozapine**
 - H. Celecoxib

Answer: C. Clozapine

48. Which of the following is an anticoagulant that needs to be monitored for bleeding?
- E. Apixiban**
 - F. Carbamazepine
 - G. Hydralazine
 - H. Hydroxyzine

Answer: A. Apixiban

49. Which of the following has the highest anticholinergic effects?
- E. tolteridine
 - F. oxybutynin**
 - G. Myrbetriq
 - H. None have anticholinergic effects

Answer: B. oxybutynin

50. Which of the following is most likely to increase osteoporosis risk?
- E. Risendronate
 - F. Acetaminophen
 - G. Ranitidine
 - H. Prednisone**

Answer: D. Prednisone

51. Which of the following is primarily cleared by the kidney, ie can accumulate in CKD?
- E. Warfarin
 - F. Ativan
 - G. Digoxin**
 - H. Sertraline

Answer: C. Digoxin

52. What is the mechanism of action of terazosin?
- E. Increase nitous oxide
 - F. Blocks alpha receptors**
 - G. Blocks beta receptors
 - H. Calcium channel blocker

Answer: B. Blocks alpha receptors

53. What medication has the potential to block absorption of quinolone antibiotics like Levaquin/Cipro?

- E. **Ferrous Sulfate**
- F. B-12 supplement
- G. Aspirin
- H. Vitamin D

Answer: A. Ferrous Sulfate

54. Which of the following would indicate a mildly elevated potassium level (meq/L)?

- E. 3.2
- F. 4.5
- G. **5.4**
- H. 6.8

Answer: C. 5.4

55. For routine monitoring, how often should an A1C be drawn?

- E. Weekly
- F. Monthly
- G. **Every 3-6 months**
- H. Annually

Answer: C. Every 3-6 months

56. Which medication is most likely to cause constipation?

- E. Sertraline
- F. Allopurinol
- G. **Diphenhydramine**
- H. Liraglutide

Answer: C. Diphenhydramine

57. Which of the following is used in chemo-induced nausea and vomiting?

- E. Protonix
- F. **Dexamethasone**
- G. Azathioprine
- H. Bumex

Answer: B. Dexamethasone

58. Which medication should be reassessed in thrombocytopenia?

- E. Acetaminophen
- F. **Aspirin**
- G. Prilosec
- H. Metoprolol

Answer: B. Aspirin

59. Which medication works via blockade of calcium channels?

- E. Diltiazem**
- F. Calcium carbonate
- G. Digoxin
- H. Labetolol

Answer: A. Diltiazem

60. Which of the following can be problematic with iron supplementation in the elderly?

- E. Absorption**
- F. Elimination
- G. Distribution
- H. Metabolism

Answer: A. Absorption

61. Which disease state is common with kidney disease?

- E. Liver failure
- F. Anemia**
- G. Chronic Diarrhea
- H. Gout

Answer: B. Anemia, may require treatment with erythropoietin

62. Which medication is a Xanthine oxidase inhibitor used for gout?

- E. Probenecid
- F. Prednisone
- G. Colchicine
- H. Allopurinol**

Answer: D. Allopurinol

63. Which of the following does not inhibit Cox-2?

- E. Ibuprofen
- F. Celecoxib
- G. Piroxicam
- H. Methotrexate**

Answer: D. Methotrexate

64. Which of the following is amiodarone likely to affect?

- E. Anemia
- F. Thyroid**
- G. Kidney
- H. Bones

Answer: B. Thyroid

65. Which of the following is Phenytoin likely to affect?
- D. Warfarin
 - E. Docusate
 - a. Birth control (estrogen containing)
 - F. A and C**

Answer: D. A. Warfarin & C. Birth Control

66. What medication is unique from the others in its classification?
- E. Sertraline
 - F. Fluvoxamine
 - G. Venlafaxine**
 - H. Paroxetine

Answer: C. Venlafaxine – SNRI vs SSRI

67. Most likely medication to cause nausea?
- E. Canagliflozin
 - F. Liraglutide**
 - G. Glipizide
 - H. Pregabalin

Answer: B. Liraglutide

68. Initial best choice against strep pyogenes?
- E. Amoxicillin**
 - F. Levaquin
 - G. Clindamycin
 - H. Metronidazole

Answer: A. Amoxicillin

69. Which diabetes med stimulates insulin release as its primary mechanism of action (MOA)?
- E. Glimepiride**
 - F. Metformin
 - G. Pioglitazone
 - H. Sitagliptin

Answer: A. Glimepiride

70. Oral 20 mg Oxycodone is approximately equivalent to how much oral morphine?
- E. 10mg
 - F. 20mg
 - G. 30mg**
 - H. 40mg

Answer: C. 30 mg

71. Approximately how long until a fentanyl patch begins having an effect?
- E. 1 hour
 - F. 6 hours**
 - G. 1-3 days
 - H. 7days

Answer: B. 6 hours – Initial onset is 6 hours...max effect is usually longer

72. Senna is what kind of laxative?
- E. Stimulant**
 - F. Osmotic
 - G. Bulk
 - H. Stool softener

Answer: A. Stimulant

73. Which medication increases the risk of metabolic syndrome?
- E. Clonidine
 - F. Methylphenidate
 - G. Morphine
 - H. Olanzapine**

Answer: D. Olanzapine

74. Of the following, most appropriate treatment for pertussis?
- E. Doxycycline
 - F. Vancomycin
 - G. Azithromycin**
 - H. Ampicillin

Answer: C. Azithromycin

75. Which of the following would be considered a non-selective beta blocker?
- E. Metoprolol
 - F. Atenolol
 - G. Nebivolol
 - H. Propranolol**

Answer: D. Propranolol

76. Which medication would likely contribute to hyperkalemia?
- E. Olmesartan**
 - F. Hydrochlorothiazide
 - G. Metoprolol
 - H. Chlorthalidone

Answer: A. Olmesartan

77. Which medication would be most likely to exacerbate SLE (Lupus)?
- E. Atenolol
 - F. Hydralazine**
 - G. Lisinopril
 - H. Prednisone

Answer: B. Hydralazine

78. Which medication is most likely to worsen hypertension?
- E. Ibuprofen**
 - F. Tylenol
 - G. Ultram
 - H. Oxycodone

Answer: A. Ibuprofen

79. Which of the following increases osteoporosis risk?
- E. Naproxen
 - F. Hyperthyroidism**
 - G. GERD
 - H. Carafate

Answer: B. Hyperthyroidism

80. Which of the following causes anticholinergic effects?
- E. Dicyclomine**
 - F. Loperamide
 - G. Memantine
 - H. Linezolid

Answer: A. Dicyclomine

81. Which medication is not used for Rheumatoid Arthritis?
- E. Sulfasalazine
 - F. Hydralazine**
 - G. Methotrexate
 - H. Plaquinil

Answer: B. Hydralazine

82. Of the following, which antidepressant tends to be most sedating?
- E. Sertraline
 - F. Citalopram
 - G. Bupropion
 - H. Trazodone**

Answer: D. Trazodone

83. Which would cause highest risk for QTc Prolongation?
- E. Levofloxacin**
 - F. Penicillin
 - G. Cephalexin
 - H. Nitrofurantoin

Answer: A. Levofloxacin

84. What is not true regarding isoniazid?
- E. Used in the treatment of TB
 - F. Can cause hepatitis
 - G. Neuropathy is a possible side effect
 - H. All of the above**

Answer: D. All of the above

85. Which of the following is a DPP4 inhibitor?
- E. Pioglitazone
 - F. Sitagliptin**
 - G. Empagliflozin
 - H. Glyburide

Answer: B. Sitagliptin

86. Which of the following is a bisphosphonate for the treatment of osteoporosis?
- E. Risedronate**
 - F. Miacalcin
 - G. Raloxifene
 - H. Conjugated estrogen

Answer: A. Risedronate

87. Which of the following medications should be limited to 5 days of use?
- E. Diclofenac
 - F. Ketorolac**
 - G. Meloxicam
 - H. Nabumetone

Answer: B. Ketorolac

88. Which medication would have highest anticholinergic activity?
- E. Claritin
 - F. Cetirizine
 - G. Amitriptyline**
 - H. Clonidine

Answer: C. Amitriptyline

89. Which medication most effective in the acute management of migraines?
- E. Propranolol
 - F. Valproic acid
 - G. Sumatriptan**
 - H. Tylenol

Answer: C. Sumatriptan

90. Which medication is used for both treatment and prophylaxis of gout?
- E. Allopurinol
 - F. Colchicine**
 - G. Prednisone
 - H. Indomethacin

Answer: B. Colchicine

91. Which medication should we monitor serum creatinine?
- E. Valsartan**
 - F. Amlodipine
 - G. Atenolol
 - H. Clonidine

Answer: A. Valsartan

92. Which antihypertensive could also be beneficial for BPH?
- E. Losartan
 - F. Doxazosin**
 - G. Nifedipine
 - H. Labetolol

Answer: B. Doxazosin

93. Which of the following is not a sign of digoxin toxicity?
- E. Nausea
 - F. Bradycardia
 - G. Visual Changes
 - H. Edema**

Answer: D. Edema

94. Which dementia medication is a NMDA receptor antagonist?
- E. Rivastigmine
 - F. Galantamine
 - G. Donepezil
 - H. Memantine**

Answer: D. Memantine is an NMDA receptor antagonist.

95. Which of the following medications would likely increase glucose readings in a patient with type 2 diabetes?
- E. Metformin
 - F. Naprosyn
 - G. Methylprednisolone**
 - H. Lisinopril

Answer: C. Methylprednisolone

96. A patient with type 2 diabetes has a history of hypoglycemia. Which medication is best avoided?
- A. Glimepiride**
 - B. Metformin
 - C. Stigalipitin
 - D. Pioglitazone

Answer: A. Glimepiride

97. Which inhaler would not be used for symptomatic relief of asthma-associated shortness of breath?
- E. Ventolin HFA
 - F. Proair HFA
 - G. Advair HFA**
 - H. Proventil HFA

Answer: C. Advair HFA

98. Which medication is a failed hypertension medication that was marketed due to its side effect profile?
- E. Finasteride
 - F. Sildenafil**
 - G. Tamsulosin
 - H. Bupropion

Answer: B. Slidenafil

99. Which antidepressant medication can also be used for smoking cessation?
- E. Sertraline
 - F. Fluoxetine
 - G. Bupropion**
 - H. Doxepin

Answer: C. Bupropion

100. Least likely medication to cause sexual dysfunction?
- E. Paroxetine
 - F. Wellbutrin**
 - G. Venlafaxine
 - H. Amitriptyline

Answer: B. Wellbutrin

101. Primary way lithium is eliminated from the body?
- E. Liver metabolism
 - F. Feces
 - G. Urine**
 - H. Evaporation

Answer: C. Urine