PHARMACOLOGY FINAL 2024 (fall semester 6)

Nota Bene!

1. All <u>lecture notes</u> &didactic materials You can find on: <u>https://farmacologie.usmf.md/en/node/14228/pharmacology/didactic-materials</u>

2. <u>PHARMACOLOGY BOOK:</u>

https://farmacologie.usmf.md/sites/default/files/inline-files/Pharmacology%20Book_0.pdf DRUGS AFFECTING THE RESPIRATORY SYSTEM, CARDIOVASCULAR SYSTEM, DIGESTIVE SYSTEM

Respiratory

- 1. Determine the thiolic derivative(s) used as expectorant(s):
- 2. Determine the proteolytic enzyme(s) used as expectorant(s):
- 3. Determine the stimulant(s) of surfactant secretion:
- 4. Determine the respiratory analeptic drug(s):
- 5. Determine the indication(s) for the use of analeptic drug(s):
- 6. Determine the indication(s) for secretostimulating expectorant(s):
- 7. Determine the mechanism(s) of action of acetylcysteine:
- 8. Determine the mechanism(s) of action of bromhexine:
- 9. Determine the indication(s) for secretolytic expectorant(s):
- 10. Determine the sympathomimetic(s) used as bronchodilator(s):
- 11. Determine the beta2-adrenomimetic(s) used as bronchodilator(s):
- 12. Determine the beta2-adrenomimetic(s) used in bronchial asthma attack(s):
- 13. Determine the antagonist(s) of leukotriene receptor(s) used in bronchial asthma:
- 14. Determine the M-cholinoblocker(s) used as bronchodilator(s):
- 15. Determine the effect(s) of M-cholinoblocker(s) used as bronchodilator(s):
- 16. Determine the indication(s) of M-cholinoblocker(s) used as bronchodilator(s):
- 17. Determine the adverse effect(s) of M-cholinoblocker(s) used as bronchodilator(s):
- 18. Determine the inhaled glucocorticoid(s) used in bronchial asthma:
- 19. Determine the mechanism(s) of action of methylxanthine(s) as bronchodilator(s):
- 20. Determine the indication(s) for methylxanthine(s) as bronchodilator(s):
- 21. Determine the drug(s) used to reduce alveolar-capillary permeability in pulmonary edema:
- 22. Determine the diuretic(s) used in the management of pulmonary edema:
- 23. Determine the ganglion-blocking drug(s) used to decrease arterial pressure in pulmonary edema:
- 24. Determine the narcotic analgesic(s) used for dyspnea relief in pulmonary edema:
- 25. Determine the drug(s) used for acid-base deregulation in respiratory failure:
- 26. Determine the indication(s) for glucocorticoid(s) in pulmonary edema treatment:
- 27. Determine the contraindication(s) for the use of codeine in children:
- 28. Determine the sympathomimetic drug(s) with both alpha and beta activity used in asthma:
- 29. Determine the effect(s) of M-cholinoblocker(s) in reducing bronchial secretion(s):
- 30. Determine the antagonist(s) of 5-lipoxygenase used in asthma management:

CARDIOVASCULAR

Antiarrhythmics.

- 31. Determine the antiarrhythmic(s) from group 1A:
- 32. Determine the antiarrhythmic(s) from group 1B:
- 33. Determine the indication(s) of antiarrhythmic(s) of group 1B:

- 34. Determine the antiarrhythmic(s) from group 1C:
- 35. Determine the mechanism(s) of action of sodium channel blocker(s) used as antiarrhythmic(s):
- 36. Determine the beta-adrenoblocker(s) used as antiarrhythmic(s):
- 37. Determine the indication(s) of beta-adrenoblocker(s):
- 38. Determine the side effect(s) of beta-adrenoblocker(s):
- 39. Determine the antiarrhythmic(s) that block(s) calcium channels:
- 40. Determine the antiarrhythmic(s) that block(s) potassium channels:
- 41. Determine the mechanism(s) of action of amiodarone:
- 42. Determine the indication(s) of amiodarone:
- 43. Determine the indication(s) of adenosine:
- 44. Determine the side effect(s) of amiodarone:
- 45. Determine the mechanism(s) of action of adenosine:
- 46. Determine the beta-adrenoblocker(s) used as class II antiarrhythmic(s):
- 47. Determine the indication(s) for beta-adrenoblocker(s) in arrhythmia(s):
- 48. Determine the antiarrhythmic drug(s) of choice for ventricular fibrillation:
- 49. Determine the antiarrhythmic drug(s) used for atrial fibrillation:
- 50. Determine the beta1-selective adrenoblocker(s) used in arrhythmia(s):
- 51. Determine the indication(s) for sotalol in arrhythmia(s):
- 52. Determine the potassium channel blocker(s) used for atrial flutter:

Cardiac glycosides and cardiostimulants.

- 53. Determine the inotropic-positive drug(s):
- 54. Determine the Na,K-ATPase inhibitor(s):
- 55. Determine the mechanism(s) of action of Na,K-ATPase inhibitor(s):
- 56. Determine the effect(s) of cardiac glycosides on the functions of the heart:
- 57. Determine the hemodynamic effect(s) of cardiac glycosides:
- 58. Determine the indication(s) for the use of Na,K-ATPase inhibitor(s):
- 59. Determine the phosphodiesterase inhibitor(s) with direct positive inotropic effect(s):
- 60. Determine the mechanism(s) of action of amrinone:
- 61. Determine the effect(s) of amrinone:
- 62. Determine the mechanism(s) of action of levosimendan:
- 63. Determine the effect(s) of levosimendan:
- 64. Determine the mechanism(s) of action of positive inotropic drug(s):
- 65. Determine the direct-acting positive inotropic drug(s):
- 66. Determine the indirect-acting positive inotropic drug(s):
- 67. Determine the role of digoxin in atrial fibrillation:
- 68. Determine the mechanism(s) of action of cardiac glycosides on Na,K-ATPase:
- 69. Determine the effect(s) of cardiac glycosides on intracellular calcium levels:
- 70. Determine the indication(s) for digoxin:
- 71. Determine the phosphodiesterase inhibitor(s) with inotropic-positive effect(s):
- 72. Determine the effect(s) of levosimendan:
- 73. Determine the mechanism(s) of action of beta-adrenomimetic(s) in acute heart failure:

Antianginal drugs, cerebral and peripheral vassodilators. Antimigrenous drugs. Venotrops. Vasodilators (Antihypertensives) and vasoconstrictors (Antihipotensive).

- 74. Determine the antianginal drug(s) that decrease(s) myocardial oxygen demand and increase(s) myocardial oxygen delivery:
- 75. Determine the antianginal drug(s) that decrease(s) myocardial oxygen demand:

- 76. Determine the antithrombotic agent(s) used in the treatment of angina pectoris:
- 77. Determine the drug(s) used for cessation of angina pectoris attack(s):
- 78. Determine the effect(s) of organic nitrate(s):
- 79. Determine the indication(s) for organic nitrate(s):
- 80. Determine the mechanism(s) of antianginal action of beta-adrenoblocker(s):
- 81. Determine the antianginal mechanism(s) of action of calcium channel blocker(s):
- 82. Determine the indication(s) of calcium channel blocker(s):
- 83. Determine the side effect(s) of dihydropyridine calcium channel blocker(s):
- 84. Determine the side effect(s) of non-dihydropyridine calcium channel blocker(s):
- 85. Determine the effect(s) of calcium channel blocker(s):
- 86. Determine the effect(s) of ranolazine:
- 87. Determine the antianginal drug(s) that increase(s) myocardial oxygen delivery:
- 88. Determine the effect(s) of beta-blocker(s):
- 89. Determine the indication(s) of beta-blocker(s):
- 90. Determine the myotropic antihypertensive(s):
- 91. Determine the angiotensin-converting enzyme (ACE) inhibitor(s):
- 92. Determine the dihydropyridine calcium channel blocker(s):
- 93. Determine the potassium channel activator(s):
- 94. Determine the arteriodilator(s):
- 95. Determine the arterio-venodilator drug(s):
- 96. Determine the effect(s) of centrally acting antihypertensive(s):
- 97. Determine the mechanism(s) of action of centrally acting antihypertensive preparation(s):
- 98. Determine the mechanism(s) of action and effect(s) of alpha-adrenoblocker(s) used as antihypertensive(s):
- 99. Determine the side effect(s) of alpha-adrenoblocker(s) used as antihypertensive(s):
- 100. Determine the indication(s) of beta-adrenoblocker(s):
- 101. Determine the side effect(s) of beta-adrenoblocker(s):
- 102. Determine the side effect(s) of non-dihydropyridine calcium channel blocker(s):
- 103. Determine the indication(s) of dihydropyridine calcium channel blocker(s):
- 104. Determine the adverse reaction(s) of angiotensin-converting enzyme (ACE) inhibitor(s):
- 105. Determine the indication(s) of angiotensin receptor blocker(s):
- 106. Determine the effect(s) of sodium nitroprusside:
- 107. Determine the effect(s) of potassium channel opener(s):
- 108. Determine the preparation(s) used in hypertensive crisis(es):
- 109. Determine the vasoconstrictor(s) used as antihypotensive(s):
- 110. Determine the antihypotensive(s) that increase(s) cardiac output:
- 111. Determine the indication(s) of antihypotensive(s) from alpha-betaadrenomimetic(s):
- 112. Determine the effect(s) of antihypotensive(s) from alpha-adrenomimetic(s):
- 113. Determine the mechanism(s) of action of isothiourea derivative(s):
- 114. Determine the effect(s) of isothiourea derivative(s):
- 115. Determine the effect(s) of antihypotensive(s) from beta-1-adrenomimetic(s):
- 116. Determine the indication(s) of antihypotensive(s) from beta-1-adrenomimetic(s):
- 117. Determine the indication(s) of ergot alkaloid derivative(s) as cerebral vasodilator(s):
- 118. Determine the preparation(s) used in migraine attack(s):
- 119. Determine the effect(s) of long-acting nitrate(s) in angina treatment:
- 120. Determine the mechanism(s) of action of molsidomine in nitrate intolerance:
- 121. Determine the potassium channel opener(s) used in refractory angina:

- 122. Determine the role of ivabradine in reducing myocardial oxygen demand:
- 123. Determine the indication(s) for trimetazidine in ischemia-reperfusion injury:
- 124. Determine the mechanism(s) of action of ranolazine in angina treatment:
- 125. Determine the calcium channel blocker(s) used in Prinzmetal angina:
- 126. Determine the effect(s) of beta-blocker(s) in silent myocardial ischemia:
- 127. Determine the contraindication(s) for the use of nitrate(s) in myocardial infarction:
- 128. Determine the role of angiotensin-converting enzyme (ACE) inhibitor(s) in heart failure:
- 129. Determine the role of angiotensin receptor blocker(s) (ARBs) in diabetic nephropathy:
- 130. Determine the adverse effect(s) of hydralazine in chronic hypertension:
- 131. Determine the use of nimodipine in preventing cerebral vasospasm:
- 132. Determine the mechanism(s) of action of sodium nitroprusside as a vasodilator:
- 133. Determine the side effect(s) of calcium channel blocker(s) in hypertension management:
- 134. Determine the role of potassium channel opener(s) in refractory hypertension:
- 135. Determine the effect(s) of pentoxifylline in peripheral artery disease:
- 136. Determine the mechanism(s) of action of ergot alkaloid(s) in cerebrovascular disorder(s):
- 137. Determine the indication(s) for centrally acting alpha-2 agonist(s) in hypertension:
- 138. Determine the mechanism(s) of action of clonidine as an antihypertensive agent:
- 139. Determine the side effect(s) of alpha-adrenergic blocker(s) in hypertension therapy:
- 140. Determine the mechanism(s) of action of alpha-1 blocker(s) in hypertension:
- 141. Determine the side effect(s) of beta-adrenergic blocker(s) in ischemic heart disease:
- 142. Determine the contraindication(s) for the use of calcium channel blocker(s):
- 143. Determine the role of nitric oxide donor(s) in vasodilation:
- 144. Determine the mechanism(s) of action of captopril among ACE inhibitor(s):
- 145. Determine the indication(s) for the use of minoxidil as an antihypertensive:
- 146. Determine the mechanism(s) of action of methyldopa in pregnancy-induced hypertension:
- 147. Determine the effect(s) of thiazide-like diuretic(s) in blood pressure control:

Diuretics. Drugs which are used in nephrolytiasis and gout treatment. drugs with influence upon acid-base balance.

- 148. Determine the diuretic(s) acting in the proximal convoluted tubule (PCT):
- 149. Determine the diuretic(s) acting in the distal convoluted tubule:
- 150. Determine the diuretic(s) acting in the collecting tubules:
- 151. Determine the osmotic diuretic(s):
- 152. Determine the diuretic agent(s) that act(s) by competing with aldosterone for its cytosolic receptor(s):
- 153. Determine the diuretic(s) that inhibit(s) carbonic anhydrase:
- 154. Determine the diuretic(s) that promote(s) osmotic diuresis:
- 155. Determine the noncompetitive aldosterone antagonist(s):
- 156. Determine the very potent diuretic(s) (10-35% glomerular filtrate in the urine):
- 157. Determine the moderately potent diuretic(s) (5-10% glomerular filtrate in the urine):
- 158. Determine the weak diuretic(s) (low efficacy) (5% of the glomerular filtrate in the urine):
- 159. Determine the fast and short-acting diuretic(s):
- 160. Determine the diuretic(s) of medium duration of action:
- 161. Determine the mechanism(s) of action of osmotic diuretic(s):

- 162. Determine the indication(s) for osmotic diuretic(s):
- 163. Determine the side effect(s) of osmotic diuretic(s):
- 164. Determine the mechanism(s) of action of loop diuretic(s):
- 165. Determine the effect(s) of loop diuretic(s):
- 166. Determine the indication(s) for loop diuretic(s):
- 167. Determine the side effect(s) of loop diuretic(s):
- 168. Determine the mechanism(s) of action of thiazide and thiazide-like diuretic(s):
- 169. Determine the effect(s) of thiazide and thiazide-like diuretic(s):
- 170. Determine the indication(s) for thiazide and thiazide-like diuretic(s):
- 171. Determine the mechanism(s) of action of spironolactone:
- 172. Determine the effect(s) of competitive aldosterone antagonist(s):
- 173. Determine the indication(s) of spironolactone:
- 174. Determine the side effect(s) of spironolactone:
- 175. Determine the antigout drug(s):
- 176. Determine the mechanism(s) of action and effect(s) of colchicine:
- 177. Determine the effect(s) of dextrans:
- 178. Determine the indication(s) of human albumin:
- 179. Determine the side effect(s) of human albumin:
- 180. Determine the indication(s) of sodium bicarbonate:
- 181. Determine the indication(s) of L-arginine hydrochloride:
- 182. Determine the diuretic(s) used in the treatment of glaucoma:
- 183. Determine the paradoxical effect(s) of thiazide diuretic(s) in diabetes insipidus:
- 184. Determine the osmotic diuretic(s) used to reduce intracranial pressure:
- 185. Determine the role of loop diuretic(s) in acute pulmonary edema:
- 186. Determine the diuretic(s) contraindicated in hypercalcemia:
- 187. Determine the side effect(s) of thiazide diuretic(s) in long-term use:
- 188. Determine the mechanism(s) of action of potassium-sparing diuretic(s):
- 189. Determine the role of acetazolamide in altitude sickness:
- 190. Determine the effect(s) of diuretics on electrolyte balance:
- 191. Determine the diuretic(s) of choice for metabolic alkalosis:

Drugs affecting the gastro-intestinal functions

- 192. Determine the preparation(s) of pancreatic enzyme(s):
- 193. Determine the indication(s) for pancreatic enzyme preparation(s):
- 194. Determine the group(s) of drugs used in gastric ulcer disease:
- 195. Determine the H2-histaminoblocker(s):
- 196. Determine the mechanism(s) of action of H2-histaminoblocker(s):
- 197. Determine the indication(s) for H2-histaminoblocker(s):
- 198. Determine the side effect(s) of H2-histaminoblocker(s):
- 199. Determine the proton pump inhibitor(s):
- 200. Determine the mechanism(s) of action of proton pump inhibitor(s):
- 201. Determine the indication(s) for proton pump inhibitor(s):
- 202. Determine the indication(s) for prostaglandin analogue(s):
- 203. Determine the systemic antacid(s):
- 204. Determine the non-systemic antacid(s):
- 205. Determine the side effect(s) of systemic antacid(s):
- 206. Determine the prokinetic(s):
- 207. Determine the indication(s) of prokinetic(s):
- 208. Determine the antiemetic agent(s):
- 209. Determine the mechanism(s) of action of antiemetic drug(s):

- 210. Determine the indication(s) of antiemetic drug(s):
- 211. Determine the antiflatulent drug(s):
- 212. Determine the bulk (volume) laxative(s):
- 213. Determine the mechanism(s) of action of bulk (volume) laxative(s):
- 214. Determine the indication(s) for bulk (volume) laxative(s):
- 215. Determine the osmotic purgative(s):
- 216. Determine the indication(s) for osmotic purgative(s):
- 217. Determine the irritating (stimulant) purgative agent(s):
- 218. Determine the mechanism(s) of action of irritating (stimulant) purgative(s):
- 219. Determine the indication(s) for irritating (stimulant) purgative(s):
- 220. Determine the spasmolytic(s):

CHEMOTHERAPEUTIC PREPARATIONS

Antibiotics

- 221. Select the group(s) of antibiotics beta-lactam(s):
- 222. Select the beta-lactamase inhibitor(s):
- 223. Select the mechanism(s) of action of antibiotic(s) beta-lactam(s):
- 224. Select the biosynthetic penicillin(s):
- 225. Select the side effect(s) of penicillin(s):
- 226. Choose the correct association(s) between the cephalosporin(s) and their generation(s):
- 227. Select the carbapenem antibiotic(s):
- 228. Select the spectrum of action of carbapenem(s):
- 229. Select the monobactam antibiotic(s):
- 230. Choose the correct association(s) between aminoglycoside(s) and their generation(s):
- 231. Select the spectrum of action of aminoglycoside(s):
- 232. Select the mechanism(s) of action of aminoglycoside(s):
- 233. Select the side effect(s) of aminoglycoside(s):
- 234. Select the macrolide(s):
- 235. Select the spectrum of action of macrolide(s):
- 236. Select the mechanism(s) of action of the macrolide(s):
- 237. Select the indication(s) of the macrolide(s):
- 238. Select the lincosamide(s):
- 239. Select the mechanism(s) of action of the lincosamide(s):
- 240. Select the tetracycline antibiotic(s):
- 241. Select the spectrum of action of tetracycline(s):
- 242. Select the indication(s) for tetracycline(s):
- 243. Select the side effect(s) of tetracycline(s):
- 244. Select the antibiotic(s) from amphenicol derivative(s) group:
- 245. Select the spectrum of action of the antibiotic(s) from amphenicol derivative(s) group:
- 246. Select the mechanism(s) of action of antibiotic(s) from amphenicol derivative(s) group:
- 247. Select the side effect(s) of antibiotic(s) from amphenicol derivative(s) group:
- 248. Select the glycopeptide antibiotic(s):
- 249. Select the mechanism(s) of action of glycopeptide antibiotic(s):
- 250. Select the indication(s) for glycopeptide antibiotic(s):
- 251. Select the side effect(s) of glycopeptide antibiotic(s):

- 252. Select the mechanism(s) of action of polymyxin(s):
- 253. Select the spectrum of action of polymyxin(s):
- 254. Select the side effect(s) of polymyxin(s):
- 255. Select the ansamycin antibiotic(s):
- 256. Select the mechanism(s) of action of ansamycin(s):
- 257. Select the indication(s) of ansamycin(s):
- 258. Select the spectrum of action of glycopeptide antibiotic(s):

Antibacterial sulfonamides. Antibacterial substances with diverse chemical structures.

- 259. Select the systemic antibacterial sulphonamide(s):
- 260. Select the sulphonamide(s) with intestinal action:
- 261. Select the sulphonamide(s) with local action:
- 262. Determine the side effect(s) of antibacterial sulphonamide(s):
- 263. Determine the combined systemic antibacterial sulphonamide(s):
- 264. Select the nitrofuran derivative(s):
- 265. Determine the mechanism(s) of action of nitrofuran derivative(s):
- 266. Determine the indication(s) of nitrofuran derivative(s):
- 267. Determine the side effect(s) of nitrofuran derivative(s):
- 268. Determine the non-fluorinated quinolone(s):
- 269. Indicate the mechanism(s) of action of non-fluorinated quinolone(s):
- 270. Indicate the spectrum of action of non-fluorinated quinolone(s):
- 271. Choose the indication(s) for non-fluorinated quinolone(s):
- 272. Select the fluoroquinolone(s):
- 273. Select the mechanism(s) of action of fluoroquinolone(s):
- 274. Determine the nitroimidazole derivative(s):
- 275. Determine the spectrum of action of oxazolidinone(s):
- 276. Determine the indication(s) for oxazolidinone(s):
- 277. Choose the 8-oxyquinoline derivative(s):
- 278. Indicate the mechanism(s) of action of 8-oxyquinoline derivative(s) with systemic action:

Antituberculous, antileprosy drugs. Antispirochetosis. Antihemintic agents.

- 279. Determine the antituberculous drug(s):
- 280. Select the mechanism(s) of action of antituberculous drug(s):
- 281. Determine the anti-leprosy drug(s):
- 282. Select the mechanism(s) of action of anti-leprosy drug(s):
- 283. Select the drug(s) used in malaria:
- 284. Select the preparation(s) used in trichomoniasis:
- 285. Select the preparation(s) used in lambliosis:
- 286. Select the drug(s) used in toxoplasmosis:
- 287. Determine the preparation(s) used in intestinal nematodosis:
- 288. Determine the preparation(s) used in intestinal cestode(s):
- 289. Determine the mechanism(s) of action of preparation(s) used in the treatment of intestinal cestode(s):
- 290. Determine the preparation(s) used in extraintestinal helminthiasis:
- 291. Determine the mechanism(s) of action of preparation(s) used in the treatment of extraintestinal helminthiasis:
- 292. Select the preparation(s) used in the treatment of infections caused by spirochete(s):

Antiviral. Antifungal.

- 293. Choose the antiviral drug(s) active against influenza viruses:
- 294. Select the indication(s) for anti-influenza drug(s):
- 295. Select the mechanism(s) of action of antiherpetic drug(s):
- 296. Select the antiviral antiherpes drug(s):
- 297. Select the antiviral antiretroviral drug(s):
- 298. Select the mechanism(s) of action of antiretroviral drug(s):
- 299. Select the indication(s) for antiretroviral antiviral(s):
- 300. Select the antiviral drug(s) used in viral hepatitis B:
- 301. Select the antiviral drug(s) used in viral hepatitis C:
- 302. Select the medicine(s) used in COVID-19:
- 303. Determine the spectrum of action of echinocandin(s):
- 304. Determine the mechanism(s) of action of echinocandin(s):
- 305. Select the antifungal(s) used in dermatomycoses:

ANTI-INFLAMMATORY, ANTIALLERGIC

- 306. Determine the non-selective non-steroidal anti-inflammatory drug(s):
- 307. Determine the selective COX-2 inhibitor(s):
- 308. Determine the effect(s) of non-steroidal anti-inflammatory drug(s):
- 309. Determine the mechanism(s) of action of non-steroidal anti-inflammatory drug(s):
- 310. Determine the indication(s) for non-steroidal anti-inflammatory drug(s):
- 311. Determine the side effect(s) of non-steroidal anti-inflammatory drug(s):
- 312. Determine the mechanism(s) of action of steroidal anti-inflammatory drug(s):
- 313. Determine the disease-modifying antirheumatic drug(s) (DMARDs):
- 314. Determine the mechanism(s) of action of disease-modifying antirheumatic drug(s):
- 315. Determine the indication(s) of disease-modifying antirheumatic drug(s):
- 316. Determine the group(s) and antiallergic drug(s) that inhibit the release of mediators:
- 317. Determine the H1-antihistamine(s) from generation I:
- 318. Determine the H1-antihistamine(s) from generation II:
- 319. Determine the H1-antihistamine(s) from generation III:
- 320. Determine the effect(s) of H1-antihistamine(s) from generation I:
- 321. Determine the indication(s) of H1-antihistamine(s):
- 322. Determine the side effect(s) of H1-antihistamine(s) from generation I:
- 323. Determine the side effect(s) of H1-antihistamine(s) from generation II:
- 324. Determine the indication(s) for glucocorticoid(s) as antiallergic(s):
- 325. Determine the antileukotriene agent(s):
- 326. Determine the immunomodulatory drug(s) of bacterial origin:
- 327. Determine the contraindication(s) for non-steroidal anti-inflammatory drug(s):
- 328. Determine the role of selective COX-2 inhibitor(s) in reducing gastrointestinal side effect(s):
- 329. Determine the role of glucocorticoid(s) in autoimmune disease(s):
- 330. Determine the side effect(s) of long-term glucocorticoid therapy:
- 331. Determine the indication(s) for disease-modifying antirheumatic drug(s) (DMARDs):
- 332. Determine the mechanism(s) of action of methotrexate as a disease-modifying antirheumatic drug (DMARD):
- 333. Determine the indication(s) for antileukotriene agent(s):
- 334. Determine the difference(s) between first- and second-generation H1antihistamine(s):

335. Determine the side effect(s) of selective COX-2 inhibitor(s):.

HORMONAL PREPARATIONS

- 336. Determine the hormonal preparation(s) of the hypothalamus:
- 337. Determine the mechanism(s) of action of hormonal preparation(s) of the thyroid gland:
- 338. Determine the effect(s) of hormonal preparation(s) of the thyroid gland:
- 339. Determine the indication(s) for hormonal preparation(s) of the thyroid gland:
- 340. Determine the side effect(s) of hormonal preparation(s) of the thyroid gland:
- 341. Determine the antithyroid preparation(s):
- 342. Determine the mechanism(s) of action of antithyroid drug(s):
- 343. Determine the indication(s) for thioamide antithyroid drug(s):
- 344. Determine the indication(s) for iodide preparation(s) as antithyroid drug(s):
- 345. Determine the sulfonylurea oral antidiabetic(s):
- 346. Determine the DPP-IV inhibitor(s) oral antidiabetic(s):
- 347. Determine the meglitinide antidiabetic agent(s):
- 348. Determine the GLP-1 agonist oral antidiabetic(s):
- 349. Determine the tetrasaccharide (α -glucosidase inhibitor) oral antidiabetic(s):
- 350. Determine the oral antidiabetic(s) that inhibit carbohydrate absorption:
- 351. Determine the oral antidiabetic(s) that promote glucose utilization:
- 352. Determine the effect(s) of insulin preparation(s) on carbohydrate metabolism:
- 353. Determine the biphasic human insulin preparation(s):
- 354. Determine the ultra-rapid and ultra-short insulin preparation(s):
- 355. Determine the basal human insulin preparation(s):
- 356. Determine the mechanism(s) of action of insulin preparation(s):
- 357. Determine the side effect(s) of insulin preparation(s):
- 358. Determine the absolute and relative indication(s) of insulin preparation(s):
- 359. Determine the mechanism(s) of action of sulfonylurea(s):
- 360. Determine the mechanism(s) of action of meglitinide(s):
- 361. Determine the mechanism(s) of action of thiazolidinedione(s):
- 362. Determine the mechanism(s) of action of aldoreductase inhibitor(s):
- 363. Determine the glucocorticoid(s) for intravenous administration:
- 364. Determine the glucocorticoid(s) for inhalation:
- 365. Determine the glucocorticoid(s) according to their potency:
- 366. Determine the effect(s) of glucocorticoid(s):
- 367. Determine the effect(s) of mineralocorticoid(s):
- 368. Determine the estrogen preparation(s):
- 369. Determine the indication(s) for estrogen preparation(s):
- 370. Determine the preparation(s) of semisynthetic progestin(s):
- 371. Determine the effect(s) of progesterone preparation(s):
- 372. Determine the preparation(s) of semisynthetic androgen(s):
- 373. Determine the vaginal contraceptive(s):
- 374. Determine the contraceptive preparation(s) subcutaneous implant(s):
- 375. Determine the role of hypothalamic hormone(s) in pituitary regulation:
- 376. Determine the mechanism(s) of action of levothyroxine in hypothyroidism:
- 377. Determine the indication(s) for radioactive iodine therapy:
- 378. Determine the adverse effect(s) of methimazole:
- 379. Determine the contraindication(s) for sulfonylurea use in diabetes:
- 380. Determine the role of GLP-1 receptor agonist(s) in weight loss management:
- 381. Determine the side effect(s) of α -glucosidase inhibitor(s) in diabetic treatment:

- 382. Determine the mechanism(s) of action of SGLT-2 inhibitor(s):
- 383. Determine the role of basal insulin:
- 384. Determine the effect(s) of mineralocorticoid receptor antagonist(s) in hypertension:
- 385. Determine the role of progesterone in endometrial protection:
- 386. Determine the mechanism(s) of action of combined oral contraceptive(s):
- 387. Determine the adverse effect(s) of estrogen-based contraceptive(s):
- 388. Determine the indication(s) for subdermal contraceptive(s): implants.