

BLOCK2 PHARMACOLOGY EXAMS

1. Cancers is about 5-10% inherited
2. Cancer is a genomic dx that is as a result of gain of function
3. Exapnsile pattern of growth is seen in benign tumor
4. Angiogenesis is requisite not only for tumor growth but also for metastasis
5. Metastasis is the devpt of secondary implants in neighboring tissue
6. Cachexia is caused by the nutritional demands of the tumor
7. Paraneoplastic syndromes are complexes that occur in px with cancer and that can be readily explained by local of distant spread of the tumor
8. Amsacrine acts by inhibiting transcription of DNA, topoisomerase II inhibitor,
9. Plants alkloids that act at G2 M phase...vincas
10. Vincristine is used in MOPP regimen for treatment of NHL
11. Neurotoxic effect of vincristine is manifested by constipation and peripheral neuropathy
12. Cabazitxel is a poor substrate for MDR P glycoprotein eddlux pump
13. Epipodophyllotoxins work by a, binding to tubulin and disrupt microtubular structure, topoisomerase II inhibitor, late S-G2 phase of cell cycle
14. Teniposide is used in TX of refractory ALL in children and is synergistic with cytarabine
15. Camptothecins are M phase specific drugs
16. Irinotecan causes diarrhea which can lead to hypovolemia
17. Etoposide is used in combination with Ifosfamide and cisplatin for sclc
18. Irinotecan was initially used as 2nd line monotherapy in metastatic colorectal CA who have failed 5fu based therapy
19. Bortezomib acts by blocking degrading action of proteasomes
20. Bortezomib blocks proteasomal degradation of ikB thereby preventing the transcriptional activity of Nfkb
21. An mtorc1/mtorc2 dual inhibitor...sapaniaertib
22. Rifampin will decrease the plasma concn of everolimus and and some nibs
23. Ffg bind specifically to the extracellular domain of EGFR to inhibit EGFR dependent signaling except, trastuzumab, cetuximab, panitumumab, gefitinib
24. A monoclonal abs to EGFR effective in head and neck and colon cancer...trastuzumab
25. Imatinib targets Bcr abl tyrosine kinase which underlies CML
26. Imatinib is used for Chronic phase of CML after failure with IF alfa and cytarabine
27. Dasatinib unlike Imatinib binds both open and close configuration of Bcr abl kinase
28. Dasatinib is approved for px with CML resistant to Imatinib in both chronic and advanced ohases
29. Nilotinib bioavailability is affected by food
30. Imatinib causes QT prolongation. F... Nilo
31. Erlotinib is approved for first line TX of px with locally advanced pancreatic cancer in combo with gemcitabine

32. Lapatinib is FDA approved for her2 amplified trastuzumab breast cancer in combo with capecitabine
33. A humanized monoclonal abs that binds to the external domain of her2neu...trastuzumab
34. A chimeric igGabd that binds to the extracellular domain of EGFR....cetuximab
35. Panitumumab unlike cetuximab does not mediate ADCC
36. Many anticancer drugs are mutagens and can cause rise of neoplasm ten or more years after the original cancer was cured
37. Production of enzymes needed for DNA synthesis occurs in G1 phase
38. Hormone therapy usually involves taking medication that prevent cancer cells from getting the hormones they need to grow
39. Glucocorticoids and GnRH analogues are hormones used in cancer chemo
40. Leuprorelin and goserelin are GnRH analogues used primarily for the TX of hormone responsive prostate ca
41. Tamoxifen selectively inhibits the effect of estrogen on breast tissue while mimicking the effect of estrogen on bone
42. Px with Er+ tumors are candidates for hormonal therapy
43. The serms lack the steroid structure of estrogen but possess a tertiary structure that allows them to bind to the er
44. Tamoxifen blocks the cell cycle in G1 cycle
45. Ancillary benefits of tamoxifen
46. Fulvestrant is a steroidal antiestrogen with considerably higher affinity for er than tamoxifen
47. LHRH analogues activate GnRH receptor resulting in increased secretion of LH
48. Hormonal therapy depends on the px menopausal state
49. Five years of adjuvant tamoxifen reduced the risk of BRCA recurrence and death at 15 yrs. Not 10
50. ADT is considered palliative and not curative for prostate ca
51. Tumor associated antigens act on tumor cells and also on some normal cells
52. Complement cytotoxicity is the most important method of tumor lysis by AbD F
53. T cells are induced by high levels of IL2 used to generate tumor specific T cells
54. Platinum complexes are stage specific F
55. PCC act mainly by inhibiting DNA synthesis F
56. Liposome with cisplatin have synergistic effect F
57. Which is not a ppt of cisplatin...doesn't cross the BBB
58. Not an adverse effect of cisplatin...edema
59. Used to TX colorectal ca in combo with 5FU
60. Aromatase inhibitor target post menopausal women
61. 75% of all BRCA are receptor positive
62. Which is used to treat prostate cancer of the AIs...exemestane
63. Anastrozole is a steroidal inhibitor of estrogen synthesis
64. Aminoglutethimide is a non selective AI that binds irreversibly
65. Adverse effects common to the AI...osteoporosis
66. Anthracycline abx include doxorubicin, daunorubicin, idarubicin, and mitoxantrone F
67. Bleomycin is used in TX of metastatic germ cell tumor and NHL

68. Delayed myelosuppression is associated with mitomycin while it's rare with bleomycin
69. Daunorubicin acts by inhibiting topoisomerase II which relaxes DNA for transcription
70. The ffg are common side effects of cytotoxic abx...hairloss, vomiting, BMsuppression, mouth inflammation
71. Which of the ffg is an enzyme used as cytotoxic agent...l-asparaginase
72. Methotrexate is associated with thymineless death
73. Toxicity with Mtx can be ameliorate using leucovorin
74. L asparaginase can be given thru the oral route. F l'm iv
75. Cisplatin functions primarily as a bifunctional alkylator
76. Cisplatin is CCNS
77. Hydroxyurea inhibits RNDR and blocks DNA synthesis
78. Concerning Hydroxyurea, cells are arrested at the g1-s phase
79. Epipodophyllotoxins cause the disruption of microtubular after binding to tubulin. F
80. Which of the ffg is used in the TX of testicular cancer...etoposide
81. Retinoids are a group of medications related to vitamin A and they cause increase blood flow and formation of new blood vessels
82. A potential side effect of using topical Retinoids is skin irritation
83. Differentiating syndrome is a possible side effect of arsenic trioxide
84. Differentiation syndrome is treated with high doses of steroids and diuretics
85. Nausea and vomiting caused by the use of cytotoxic drugs can be treated using atropine
86. Histone Deacetylase inhibitor exert their anti tumor effects via induction of expression changed of oncogenes or tumor suppressor gene
87. hDAC inhibitor work by modulating the acetylation and deactylation of hisyones and non histones proteins such as transcription factir
88. Protooncogenes are autosomal recessive type of gene... F.
89. The Bcr abl gene found on Philadelphia chromosome is associated with translocation of xsome 8-22 F
90. Ras mutation can be found in breast cancer F
91. Herceptin is beneficial in women with over expression of erbB2
92. Vsis oncogene is originally isolated from transforming retrovirus known to cause sarcoma
93. Cmyc oncogenes has been found to be amplified in cell lines obtained from SCLC
94. Bcl2 gene is over expressed in certain high grade lymphoma F
95. P53 controls and halts the proliferation of abnormal cell growth
96. P53 tsg is mutated in greater than 50% of all human cancers
97. About 5-10% of breast cancers are familial, and mutations in brca1 or 2 can account for 80% of such cases
98. Mtx act competitively to inhibit the action of DHFR
99. Which of the ffg has same structure as folatr....mtx
100. High dose Mtx requires leucovorin resxue
101. Mtx is used in TX of head and neck cancer
102. Mtx doesn't cross the BBB
103. Which of the ffg targets glycinamide ribonucleotide formyl transferase...pemetrexed

104. Mtx is used with cisplatin in TX of mesothelioma... f
105. Pralatrexate is used for TX of refractory peripheral T cell lymphoma
106. 5fu is associated with thymineless death
107. Which if the ffg causes hand and foot syndrome...5fu
108. Capcitabine is converted to 5fu in the tumor site
109. Cytarabine is acted upon by deoxycytidine kinase
110. arACMP is the most active metabolite F
111. arACTP competitively inhibits DNA polymerase alpha and beta
112. BCL2 polymorphism was not found to be associated with adverse outcome in prostate carcinoma patients. F
113. Steroid 5-alpha reductases 1 & 2 (SRD5A1 and SRD5A2) variations are independent predictors of biochemical recurrence after radical prostatectomy in prostate cancer patients.
114. Thalidomide ameliorates cancer-associated cachexia (extreme severe weight loss due to cancer).
115. Palifermin is a keratinocyte growth factor which is helpful in treating mucositis complicating cancer chemotherapy.
116. The development of secondary malignancies is a late complication of the alkylating agents and epipodophyllotoxin etoposide.
117. Anakinra is an antagonist of both Interferons and Interleukins.
118. Aprepitant is a neurokinin receptor antagonist which is helpful in preventing acute and delayed nausea and vomiting.
119. Bladder cancer is a secondary malignancy typically associated with Cyclophosphamide therapy.
120. Tumor associated antigen can be found on tumor cells and on some normal cells.
121. Methotrexate is combined with cisplatin for the treatment of mesothelioma
122. Cytarabine is used in head and neck tumors
123. Bcl2 polymorphisms is not associated with prostate cancer
124. Tumour debulking decreases the effectiveness of cancer chemotherapy.
125. In causal tamoxifen is an excellent drug used in breast cancer because it selectively inhibits estrogen on breast tissue and selectively mimicks the estrogen on bone tissue
126. A neurokinin receptor antagonist that is used to treat nausea and vomiting.(matching)
127. Drug that causes rhabdomyolysis
128. Class of drug used in tamoxifen failed therapy in post menopausal women
129. Asparaginase is give orally ONLY.
130. The SERMs lack the steroid structure of estrogens but possess a tertiary structure
131. that allows them to bind to the estrogen receptor
132. Pry indication of Dacarbazine
133. Anticancer drug with dusulfiram effect
134. This drug is used with 5FU and leucovorin to treat metastatic colorectal ca - Irinotecan
135. Pulmonary fibrosis and renal failure occur due to prolonged use of this class of drug :
Nitrosoureas
136. LHRH agonist inhibit pituitary LH production T/F

- 137. Inhibitor of mtorc1/ mtorc2
- 138. Sunitinib inhibits the ATP domain of tyrosine kinase of VEGF-R2
- 139. Antibiotics used as cancer chemotherapy (1 in 5)...doxorubicin
- 140. Some natural antibiotics also have potent anticancer property
- 141. pan-HER inhibitor..... Lapatinib
- 142. IL has direct cytotoxic activity on tumour cells..... F
- 143. Irreversible aromatase inhibitor
- 144. Diabetogenic drug, use for pancreatic carcinoma and carcinoid tumour.....

Streptozocin

- 145. Anti cancer that produces pulmonary fibrosis which is fatal
- 146. Only indicated for hematological cancer.... Cytarabin
- 147. Drug for relapse or refractory peripheral lymphoma.... Pralatrexate
- 148. The use of BENMUDASTINE-CLL
- 149. Clinical indication of teniposide
- 150. First generation therapy for non Hodgkin's lymphoma
- 151. Teniposide and etoposide are used in brain tumor bcos they cross the BBB
- 152. Ifosfamide, cisplatin and etoposide is used for Small cell lung ca
- 153. Which anti cancer drug is given intraperitoneally
- 154. Liposomes+cisplatin togeda av synergistic action
- 155. Oxaliplatin +5FU is used in d treatment of colorectal ca
- 156. Arsenic trioxide kills via apoptosis
- 157. Myelosuppression is delayed in mitomycin, 'rear' in bleomycin
- 158. Inhibitor of glycinamide DFT- pemetrexate
- 159. AIS is Only useful in postmenopausal women Because Production of estrogen in premenopausal women overrides aromatase inhibitors #causal
- 160. ADT is considered palliative, not curative, treatment in prostate Ca
- 161. Alopecia is always reversible.
- 162. Arsenic trioxide causes differentiation syndrome, fever, fatigue.
- 163. Oxaliplatin is used in treating carboplatin resistance ovarian cancer.

matching

- 164. An anticancer agent that is a dual mTORC1 and mTORC2 inhibitors.....
- 165. A transcription factor which enters the nucleus and activate genes involved in proliferation, cell survival and.....
- 166. An anticancer agent that bind reversibly 26S proteasome.....
- 167. An anticancer agent that bind at major and minor extracellular loops CD20 which is used particularly in Chronic myelogenous leukemia.
- 168. An anticancer drug of IgG2 isotype that bind EGFR and used in treatment of metastatic colon and rectal cancers
- 169. Loss of imprinting of IGF2 is implicated in
- 170. A non steroidal reversible aromatase inhibitor.....
- 171. An oncogen in which amplification results in lung carcinoma...
- 172. A tumour with expansile growth pattern...

173. An HIV associated cancer caused by Humanpapilloma virus.....
174. A derivatives of acridine which inhibit Topoisomase 2.....
175. A congener of Thalidomide which is not teratogenic.....
176. An antimetabolite that causes cerebellar dysfunction and
177. A metabolite of cytarabine that inhibit DNA a and DNA b resulting in blockade of DNA synthesis.....
178. Similar in structure to folic acid.....
179. A arabinoside metabolite inhibitor of ribonucleotide reductase.....
180. A growth factor that is rate limiting factor in angiogenesis.....
181. Anticancer drug that has wound healing, thromboembolic events as its adverse effect.
182. Antiemetic drug used to treat nausea and the in cancer chemotherapy.....
183. Neurokinin antagonist used as antiemetic function in cancer chemotherapy.
184. Which of the following is not affected by CYP450?.....
- Cetuximab
 - Imatinib
 - Dasatinib
 - Temsirolimus
 - Gefitinib
185. -Irinotecan associated diarrhea and cholinergism can be treated with.....
186. -Which drug is used in combination with 5-Fu and Leucovorin to treat metastatic colon cancer
187. -Which of these drugs is myelotoxic but not neurotoxic -Vinblastine
188. -HPV causing brain tumor
189. -Most active form of cytarabine
- 190.
191. -Differentiating syndrome in arsenic trioxide can be treated with diuretic and dexamethasone
192. -Bleomycin and Neomycin and usually in ratio 10:10 i.e 1:1
193. -One of the adverse effects of retinoid is skin irritation
194. -Amisacrine is contraindicated in pregnant and lactating mothers
195. -Trabectedin is isolated from *Candidatus Endoecteinascidia*, a microbial symbiont of the tunicate
196. -BCL2 polymorphism is not associated with adverse effect in patient with prostate cancer
- *1-in-5***
197. -Which of the following drug combinations is used in the treatment of Non-hodgkin lymphoma - CHOP
198. -Which of the following are epigenetic causes of cancer
- A)
 - B) Transcription signaling factors
 - C)
 - D) All of the above

E) Non of the above

Causal

199. -Thalidomide is an anti-angiogenesis agent

Because

It is tetratogenic.