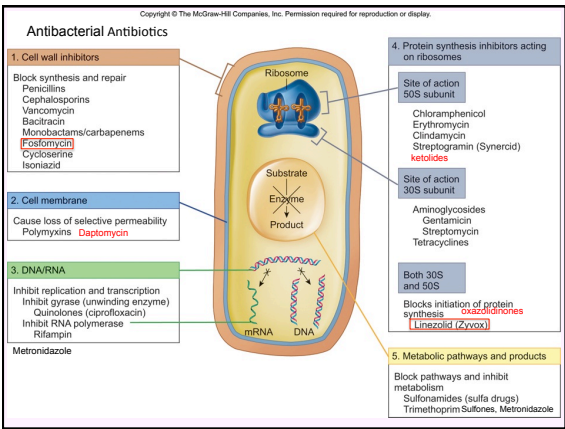


Ch 12 – Chemotherapy (overview)



Mechanisms of drug action on Eukaryotic Pathogens

- A. affect cell wall
antifungal: echinocandins
- B. break down cell membrane or affect function
antifungal: polyenes, azoles
antiparasitic: quinicrine, praziquantel
- C. affect nucleic acid synthesis
antifungal: flucytosine (nucleotide analog)
antiparasitic: metronidazole
- D. inhibit metabolic pathways
antiparasitic: artemisins, metronidazole, quinicrine
- E. others
inhibit microtubules: antifungal griseofulvin,
anthelmintics mebendazole, thiabendazole
bind to heme: antiparasitics quinine, chloroquine & mefloquine
paralyze muscles: anthelmintics pyrantel, piperazine
destroys scolex: niclosamide
affects pathogen nervous system: anthelmintic & antiarthropod ivermectin
