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MATRIC Number: 17/MHS06/020

Course: PHA302

1. Chloramphenicol

THE MECHANISM OF ACTION

The mechanism of action is that it binds to the 30S and 50S subunits of bacterial ribosomes and inhibits the activity of the enzyme peptidyl transferase, thereby inhibiting peptide bond formation. It in turn inhibits bacterial protein synthesis. It is a bacteriostatic drug.

INDICATION FOR USE

It is used to treat bacterial infections especially meningitis, typhoid, rickettsia, and mostly systemic bacterial infections.

TOXICITY

Drug toxicity: it interacts with about 47 known drugs.

SIDE EFFECTS

The side effects include:

1. Aplastic anaemia
2. Bone marrow suppression
3. Diarrhea
4. Enterocolitis
5. Headache
6. Nausea
7. Nightmares.