Name: Afeno-Eboh Voke

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Dept:Anatomy

System pharmacology

1. Nitrofurantoin is the drug used in the treatment of urinary tractor infection, causes brown coloration of urine
2. Antibacterial activity-: Nitofurantoin interferes with the production of bacterial protein, DNA and cell walls.sensitive bacteria reduce the drug to an active agent that inhibits various enzymes and damages DNA. It is an active against many strains of E coli and enter ococi. However most species of proteins and pseudomonas and many species of enterobacter and klebisella are resistant.
3. Mechanism of action-: The mechanic of action is unique and complex. The drug works by damaging bacterial DNA, since it’s reduced from highly reactive. This is made possible by the rapid reduction of nitrofuration inside the bacterial call by flavo proteins to mutiple reactive intermediates that attack ribosomal proteins , DNA,respiratin pyruvate metabolism and other marcomolecules within the cell
4. Nitrofurantoin is absorbed rapidly and completely from the GIT tractor Antibacterial concentrations are not achieved in plasma following ingestion of recommended doses because the drug is rapidly eliminated nitrofurnatoin is not used for pregnant women, individuals with impaired renal function, children younger than one month of age.
5. Adverse effect-: the most common side effect include nausea,headache and flatulence.less common adverse events included ;

Gastrointestinal :diahrrhea

Neurologic :drowsiness

Allergic: pruitus ,urticaria.