Pharmacology day 2 By prachi awasthi

Route of drug administration

- What is rout of administration -the way or path by which drug moves and gives its p"cological action.
- Selection of route depends on -
- Physical /chemical properties of drug -ex solid, liquid ,gas solubility ,Ph
- Site of desired action -localized or generalized.
- Route & extent of absorption of drug -bioavilability
- Metabolism of drug -first pass metabolism , by pass
- Rapidity of respose
- Condition of patient -vomiting unconscious

PHARMACODYNAMICES

PHARMACOLOGY- PHARMACOLOGY MEANS ALL ABOUT STUDY OF DRUG DRUG EFFECT ON A BODY AND BODY RESPONSE FOR DRUG PHARMACOLOGY - PHARMACON +LOGOS = TO STUDY ABOUT THE DRUG (DRUG) + (TO STUDY) PHARMACODYNAMICS - WHAT DOES DRUG DO TO THE BODY ASK YOURSELF - WHY YOU AR TAKING MEDICINES ? WHAT HAPPENED WHEN YOU TAKE MEDICINES **EX - ANTIBIOTICS** DESIRABLE EFFECT - DIAGNOSIS, PREVENTION, TREATMENT UNDESIRABLE EFFECT- SIDE EFFECT (VOMITING), ADVERSE EFFECT (RASHES)TOXIC EFFECTS(CANCER)

PHARMACOKINETICS

- ► WHAT DOES BODY DO THE DRUGS ?
- ► ASK YOURSSELF WHAT IF DRUG REMAIN AS SUCH IN BODY ?
- DRUG WILL DO- A ,D,M,E
- A ABSORB, D DISTIBUTION ,M METABOLISM (BIOTRANSFORMATION),E ELEMINATION (URINE ,GAS,STOOL)
- This particular science determines what happens toa drug from the time it is administered throught its circulation within the body and to the moment when it is ultimately eliminated from the body

Drug half life

A drug half life is an important factor when its time to stop talking it . Both the strength and duration of medication will be considered, as well its half life.



DIFFERENT SOURCES OF DRUG

- ▶ SOURCE FROM WHERE WE GET DRUG (MEDICINES) -DIOGNOSIS, PREVENTION, TREATMENT.
- SOURCE OF DRUG ;- ALL OF THOSE AGENT WHICH GIVES MEDICINAL VALUES CAN BE TREATED AS SOURCES OF DRUG .
- PLANT- FLOWER (VINCA), FRUITS +SEEDS (NEEM), LEAF (EUCALYPTUS). STEM (CINCHONA BARK), ROOT (SATAWALI),
- ANIMAL-PANCREAS (INSULIN), SHEEP (THYROID), CODLIVER OIL, BLOOD (VACCINE), STOMACH TISSUES (PEPSIN), URINE (HCG HORMONE) BONE (CALCIUM).
- MINERAL IRON (ANEMIA), ZN (WOUND) ,IODINE(ANTISEPTIC),GOLD (ARTHRITIS) ,SILVER (IMMUNITY) ,BOREX (ANTISEPTIC) ,SELENIUM (DANDRUFF) ,FLURINE (ANTICEPTIC) ,CHLORINE (DISINFACTANT)
- MICROBIAL PENICILLINE, LACTOBASILUS, STREPTOMYCIN
- ▶ SYNTHETIC EMETIN , BISMUTH IODIDE
- BIOTECH RECOMBINENT DNA TECHNOLOGY