PHARMACEUTICAL DRUGS

CHEMICALS
THAT ALTER BODY
FUNCTIONS



HOW DO DRUGS WORK?



- ATTACH TO SPECIFIC RECEPTOR SITES
- ◆ SITES ARE SPECIALIZED CELLS THAT MATCH THE DRUG'S SIZE, SHAPE ETC
- ♦ BRAIN IS COMMON RECEPTOR SITE
- ♦ DRUGS RESEMBLE
 CHEMICALS NATURALLY
 PRODUCED BY THE BODY

TYPES OF DRUGS



- PRESCRIPTION DRUGS
 - Rx BY LICENSED PHYSICIAN
- OVER-THE-COUNTER
 - PURCHASED W/O Rx
- RECREATIONAL
- RELAXATION OR SOCIALIZATION
- HERBAL PREPARATIONS
- PRODUCTS OF BOTANICAL ORIGIN
- ILLICIT (ILLEGAL) DRUGS
- COMMERCIAL PREPARATIONS



ROUTES OF ADMINISTRATION

- ◆ ORAL INGESTION (MOST COMMON)
- INJECTION
 - INTRAVENOUS...3 MIN'S BLOODSTREAM (MOST DANGEROUS)
 - INTRAMUSCULAR...ANTIBIOTICS/VACCINATION
 - SUBCUTANEOUS...LOCAL ANESTHETICS
- ♦ INHALATION...IMMEDIATE
- ♦ INUNCTION...ABSORPTION
- SUPPOSITORIES...MELT @ BODY TEMP...



DEFINITIONS



- USE FOR PURPOSE NOT INTENDED

- ◆ ABUSE:
 - EXCESSIVE USE
- ◆ ADDICTION:
 - HABITUAL RELIANCE SUBSTANCE TO PRODUCE A DESIRED MOOD
- + SET:
 - INTERNAL ENVIRONMENT MINDSET
- SETTING:
 - EXTERNAL ENVIRONMENT

DEFINITIONS...



- ◆ SYNERGISM (POTENTIATION)
 - 2 OR MORE DRUGS PRODUCING MORE PROFOUND EFFECTS
- ANTAGONISM
 - 2 OR MORE DRUGS WORK AT SAME RECEPTOR SITE & CANCEL EACH OTHER
- **♦ INHIBITION**
 - EFFECT OF ONE DRUG IS REDUCED OR ELIMINATED
- INTOLERANCE:
 - INTERACTION CAUSES SYMPTOMS

DEFINITIONS...

♦ CROSS-TOLERANCE: TOLERANCE OF ONE DRUG THAT REDUCES EFFECT OF ANOTHER DRUG (SIMILAR DRUG)



- ♦ GRAE...GENERALLY RECOGNIZED AS EFFECTIVE
- ♦ GRAS...GENERALLY RECOGNIZED AS SAFE



TYPES OF DRUGS

- ♦ ANTIBIOTICS: FIGHT BACTERIA ANALGESICS: PAIN RELIEVERS + ASPIRIN, ACETAMINOPHEN, IBUPROFEN
- ♦ SEDATIVES: SLEEP, ANXIETY
- ♦ TRANQUILIZERS: MAJOR OR MINOR • DEPRESSION
- ♦ OTC: COLD, ALLERGY, SLEEP, DIET

KNOW THE FACTS

- 1. CHEMICAL IN THE DRUG?
- 2. RECEPTOR SITES?
- 3. MAIN EFFECTS OF THE DRUG?
- 4. SIDE EFFECTS?

- 5. ADVERSE REACTIONS?
- 6. 85% OF ALL HEALTH PROBLEMS TREATED WITH DRUGS
- 7. PRESCRIPTIONS OFTEN NOT TAKEN OR NOT TAKEN ACCORDING TO DIRECTIONS.