NO Date 12 lec: Drug Prescribing + Drug Compliance

Drug Related Problems:

1. Untreated indication
2. Improper drug selection
3. Sub therapeutic dosage
4. Over dosage / toxicity
5. Failure to receive the right drug
6. Adverse drug reactions
7. Interactions
8. drug use without indication

← Types of prescribition →

Hospital	Office
generic name	Trade / Proprietary

Identification of Doctor
of Patient

Rx (Receive Thou) "Superscription"

drug, dose, ... "Inscription"

Dispense; ... "Subscription"

Re_fill

~~Legal~~ "signature"

NO Date

abbreviation	Meaning
ac	ante cibum (betor meals)
pc	post cibum (atter meals)
bid	twice daily
tid / tds	three times daily
qid	four times daily
prn	when needed
qd	every day
qh	every hour
qhs	every night at bedtime
ss	one half
stat	at once
OD	right eye
OL	left eye
OU	both eyes
one tea spoonfull	5 ml
one table =	15 ml
one ounce (oz)	30 ml
one quart	1000 ml
one drop	0.05 ml = 50 ul
one ml	20 drops

14 lec New drugs : their development + Evaluation

_ the process of drug development may be abandoned at any stage.

Origin of Drugs

- **Natural**
  - **Plant**
    - .Morphine
    - .Digoxin
    - .Atropine
  - **Animal**
    - .Insuline
    - .Heparin
  - **Mineral**
    - .Iorn
    - .Calcium
  - **Micro organism**
    - .antibiotic
- **Synthetic**
  - .Aspirin
  - .Paracetamol
  - .Propranolol

Medicines

- active drug
- EXCIPIENTS
  - Shape, stability, size
  - e.g: starch + Arabic gum

Conditions that do not require to use placebo :-

1. Therapeutic Studies
2. The active compound can be identified. (Vasodilator + nitisinone)
3. Dose finding studies
4. Pharmacokinetic Studies

NO Date

_Phases of Drug Development :=

① Pre_clinical studies in animals

A) General pharmacology studies

B) Toxicology Studies

② Clinical studies in Human

Include 4 phases

name :	phase 1 Human pharmacology	phase 2 Therapeutic exploration	phase 3 Therapeutic Confirmation	phase 4 Therapeutic use
carried out on :	20-50 healthy	50_300 pt (limited)	250_1K pt (large)	2K_10K pt
Notes :	study of general pharmacology of drug	study of general pharmacology of drug in pt. comparision with placebo	comparsion with exist drug. short term efficacy +safety	post_market /authorization surveillance long term efficacy +safety

NO Date

- Patient excluded from clinical trials :-

① Children

② Pregnant women

③ Mentally ill patients

- Criteria of Clinical trials (CCT)

① Objective

② Careful design

③ → Crossover design – Pt acts as his own control
→ non Crossover design – different subjects as control group

④ Technique → double blind
→ Single blind

⑤ Statistical analysis