Overview of Solid dosage forms: powders, granules, tablets, capsules



Pharmaceutical Propaedeutics Institute of Pharmaceutical Technology and Biopharmacy

The most important elements of physicianpatient's cooperation:

The patient should take

- the intended medication
- at the proper time
- in its sufficient amount.

Medication = *API(s)* and excipients in the properly wrapped dosage form + information

The ready-to-use form of the medication is called dosage form (this is the physical appearance of the medication), what the patient can use safly. 2

The disperse medium can be



cream paste

suppository alobolus

dosage form vs. intermediate product



Categories of powders

Tools of powders:

Mortars

Pestles

- Cards









Sieves









Categories of powders



Categories of powders



Talc powders

Pulveres ad usum dermicum

intended for the treatment of skin

- one dose or multidose preparations
- huge surface
- don't contain rough particles
- wound preparations have to be sterile
- expediated in spreader



Categories of powders



Division of powders









Granules



Small particles that can be formed by disintegration or by integration routes through which the powder forms aggregates.



Granulation is the process of collecting particles together by creating bonds between them.

Granulation



Granulation



OSCILLATING GRANULATOR

Capsules

Hard gelatin capsule shells can be used at a pharmacy too.

They have to be transparant.

Hard gelatin capsule



Soft gelatin capsule



Tablets are manufactured by compression. They have different shape and color.



Direct compression



Wet or dry granulation tabletting

tablet



Hand tabletting machines- pharmacy



2083

Hand tabletting machine





Tablet press machine(s)

- eccentric ~
- rotary ~





Categories of tablets:

- Uncoated tablets
- Coated tablets
- Effervescent tablets
- Soluble tablets
- Dispesible tablets
- Orodispesible tablets
- Gastro-resistant tablets
- Modified-release tablets







Packing of medications

Blister

Braille



Thank you for your attention