

The Four Cornerstones of Pharmacokinetics

- Absorption
- Distribution
- Metabolism
- Elimination

Absorption and distribution are influenced by the **formulation**:

Medicinal Agent --> **Formulation** --> **Medication**

Galenic = Science of pharmaceutical formulation

(Galenos of Pergamon, 129-199 AD)

Drug Administration and Absorption

Routes of Drug Administration:

- Oral
- Topical (Percutaneous)
- Rectal or Vaginal
- Pulmonal
- Parenteral

Oral Drug Administration

- **Pills**

- Antiquated single-dose unit; round, produced by mixing drug powder with syrup and rolling into shape

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

- **Tablets**

- Oblong or disk-like shape, produced through mechanical pressure; filler material provides mass; starch or carbonates facilitate disintegration

