PHARM.D • YEAR 3

Pharmaceutical Formulations

CHAPTER 2

Tablets

PPT CHAPTER COVER

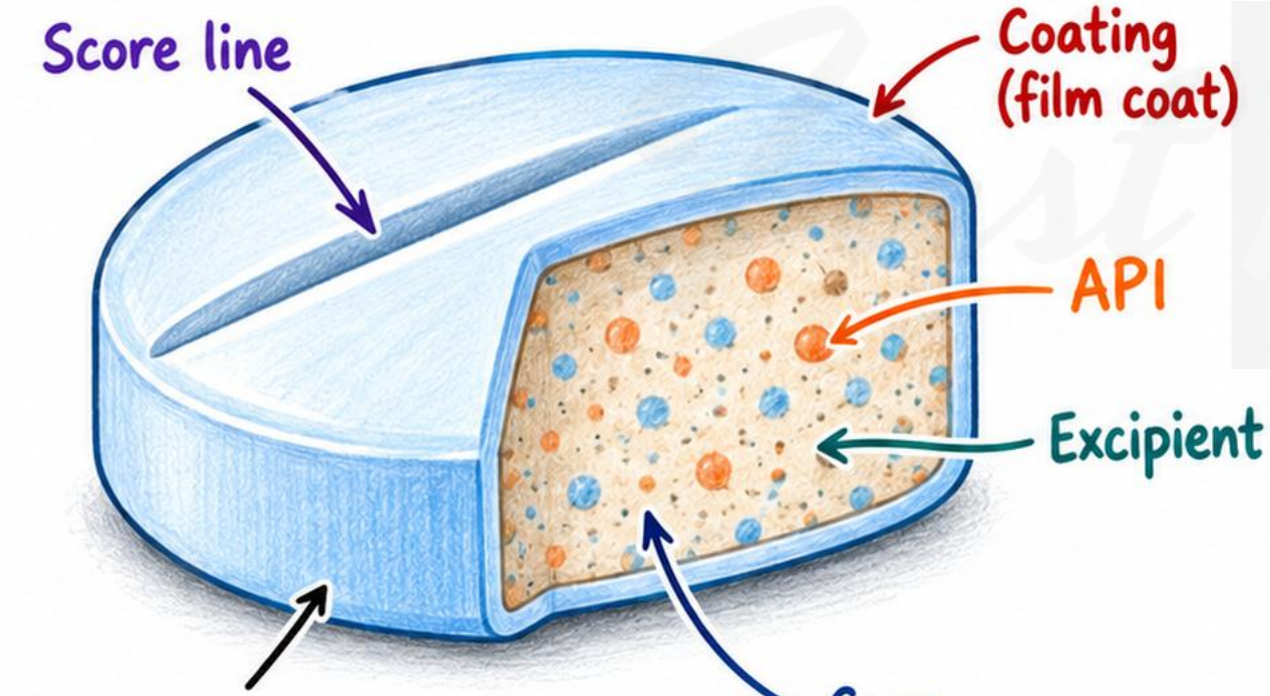


DOCTOR OF PHARMACY

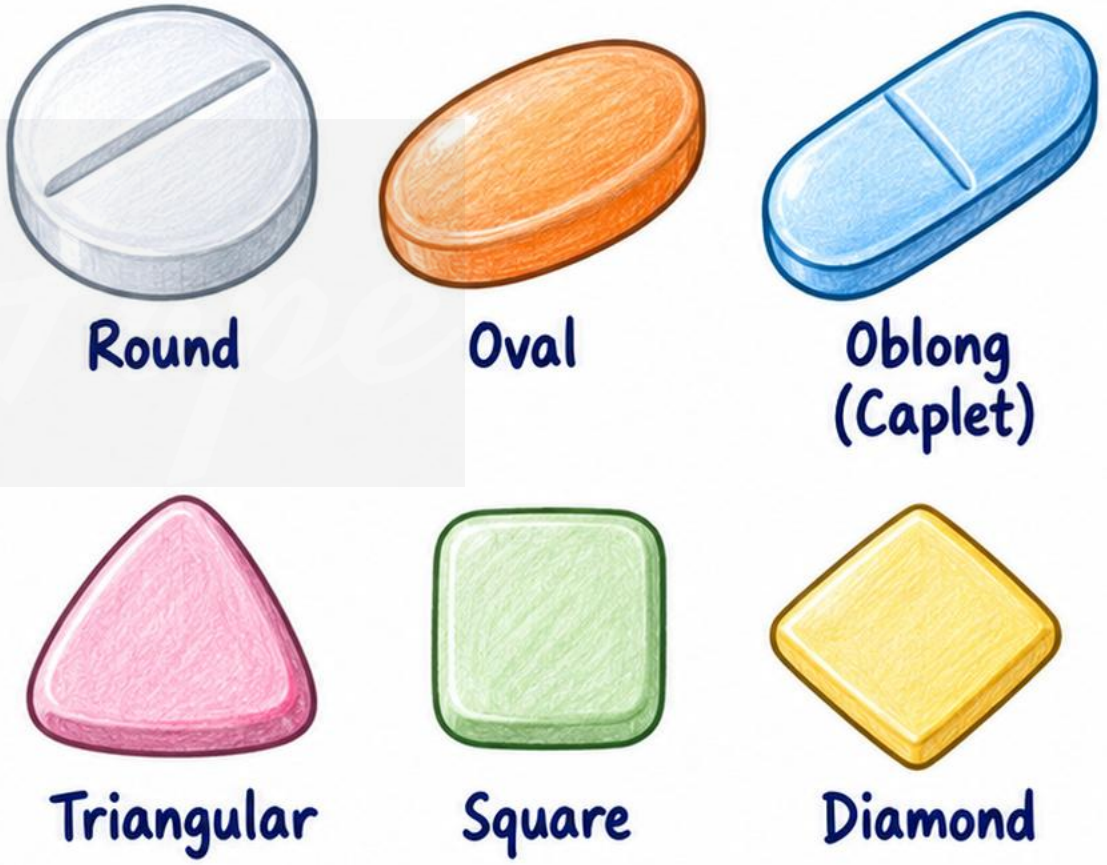
TABLETS – DEFINITION AND STRUCTURE

Definition

A tablet is a compressed solid unit dose of medication containing API and excipients.



Typical Tablet Shapes



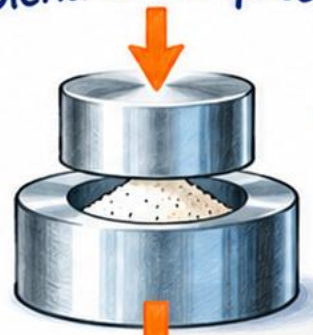
TABLET ADVANTAGES, LIMITS AND IDEAL QUALITY

API



Active pharmaceutical ingredient

Blend & compress



Excipient



Fillers, binders, disintegrants etc.

Advantages

- ✓ Convenient to carry, store and administer
- ✓ Accurate and consistent dosing
- ✓ Good stability and cost-effective



TABLET

Compressed solid dosage form for oral administration

Limitations

- ✗ May be difficult to swallow
- ✗ Slower onset of action (absorption issues)
- ✗ Formulation and manufacturing constraints

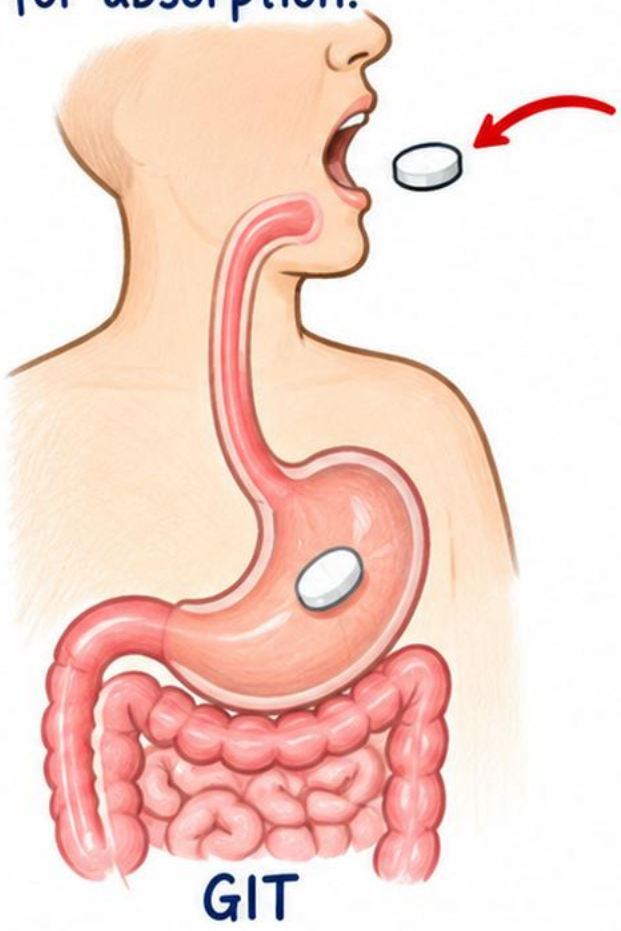
IDEAL QUALITY

Uniform, strong, stable and suitable for intended release.

TABLETS BY ROUTE OF ADMINISTRATION

Swallowed (Conventional)

Swallowed → disintegrate and dissolve in GIT for absorption.



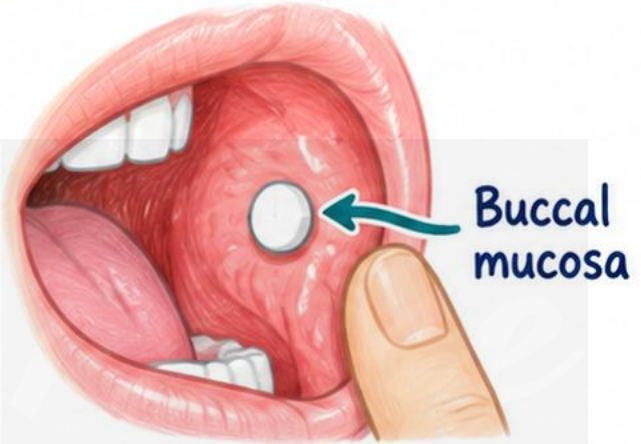
Chewable

Chewed before swallowing.



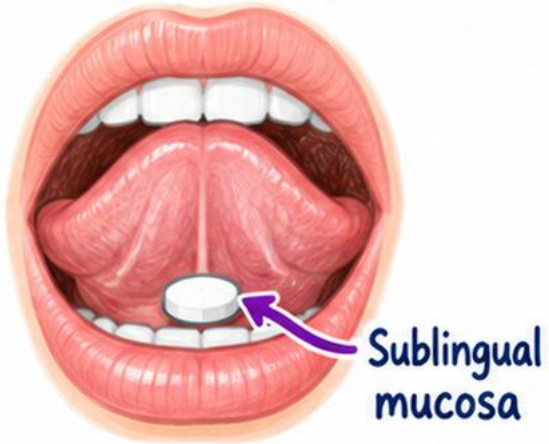
Buccal

Placed in buccal pouch for slow absorption.



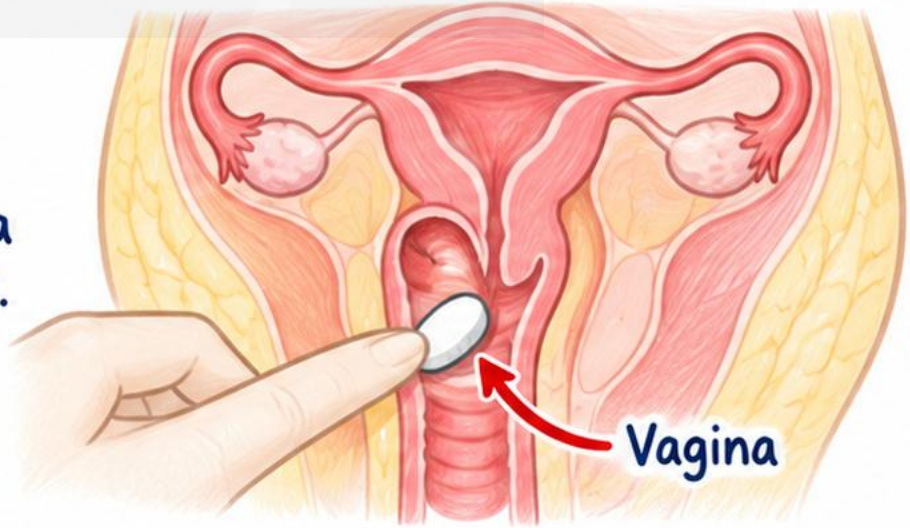
Sublingual

Placed under the tongue for rapid absorption.



Vaginal

Inserted into the vagina for localized treatment.



TABLETS BY DRUG-RELEASE PATTERN



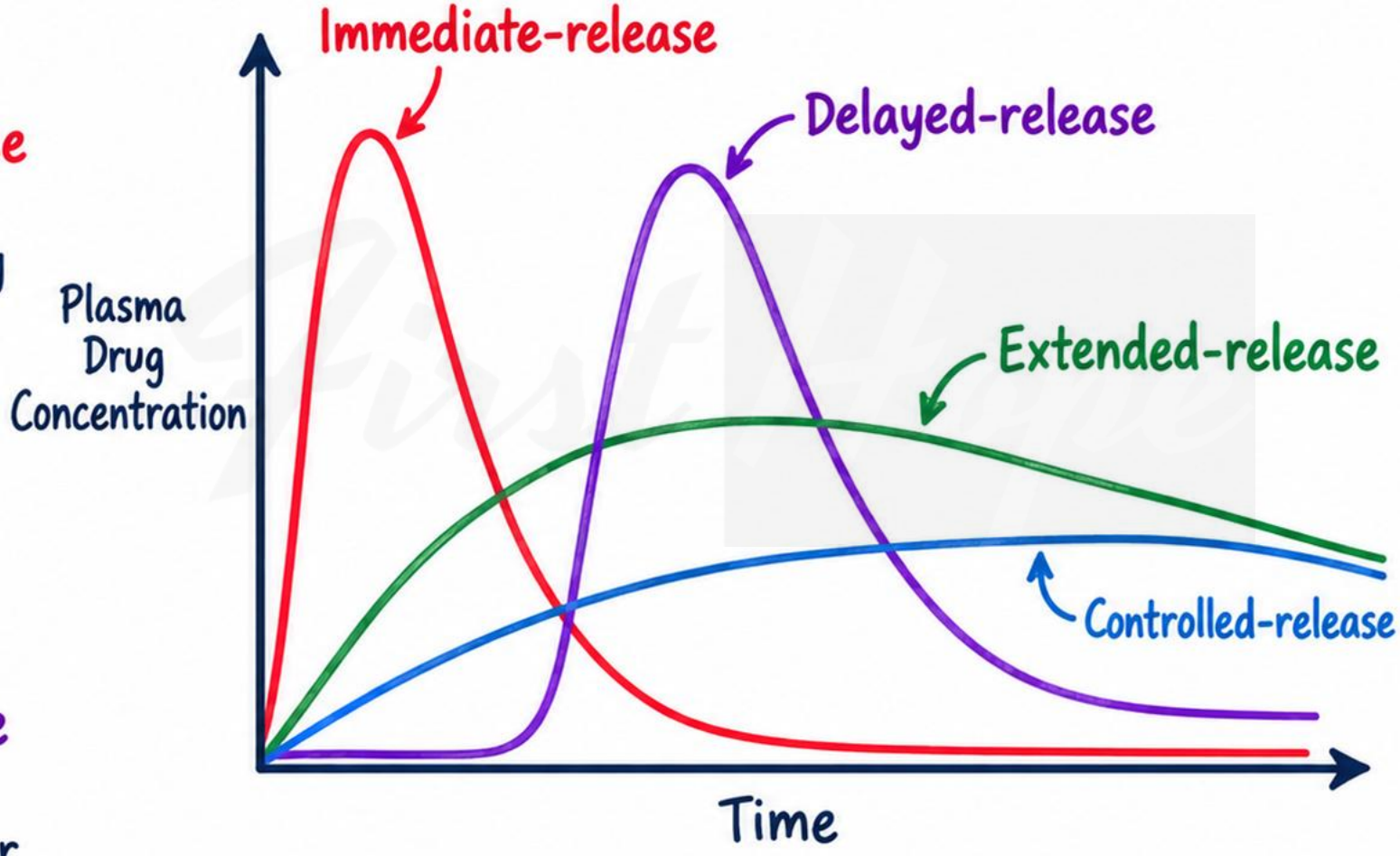
Immediate-release Tablets

Disintegrate quickly and release drug rapidly.



Delayed-release Tablets

Release drug after a time lag.





Extended-release Tablets

Gradual release over an extended period.



Controlled-release Tablets

Release drug at a predetermined rate for a longer duration.

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