

# Introduction to Pharmaceutics

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# Pharmacy



- The word pharmacy is derived from the Greek word “Pharmakon”, meaning medicine or drug.
- It includes Collection, Identification, Synthesis, Purification, Isolation, Quality control of medical substance.



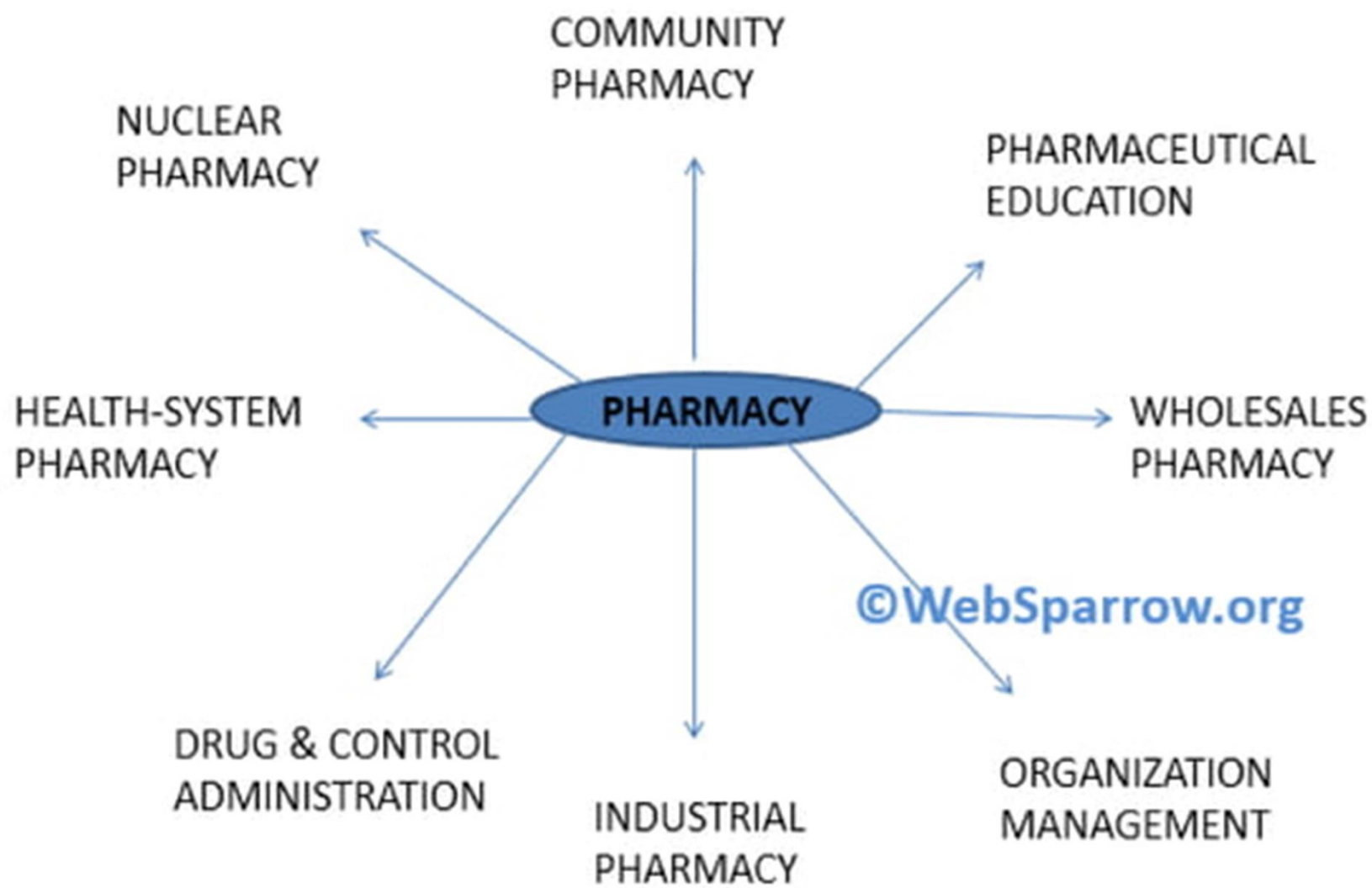
- “The art and science of preparing and dispensing drug”



# Departments of Pharmacy



- Pharmacognosy
- Pharmaceutical chemistry
- Pharmaceutical Analysis
- Pharmacology
- Pharmaceutics
- Pharmacy Practice & Pharm D





# Scope of Pharmacy



# Pharmaceutics



- Pharmaceutics is the discipline of pharmacy that deals with the process of turning a new chemical entity (NCE) or old drugs into a medication to be used safely and effectively by patients.
- It is also called the science of dosage form design.



- There are many chemicals with pharmacological properties, but need special measures to help them achieve therapeutically relevant amounts at their sites of action.
- Pharmaceutics helps relate the formulation of drugs to their delivery and disposition in the body.
- Pharmaceutics deals with the formulation of a pure drug substance into a dosage form.





- Pharmaceutics is the branch of pharmacy which deals with the formulation, manufacturing, evaluation, packaging of pharmaceutical dosage forms.

## Branches of Pharmaceutics



- Pharmaceutical formulation
- Pharmaceutical manufacturing
- Dispensing pharmacy
- Pharmaceutical technology
- Physical pharmacy
- Pharmaceutical jurisprudence

# Formulation



Active Pharmaceutical Ingredient

+

Excipients/ Additives/ Non drug components



Pharmaceutical Dosage forms



# Manufacturing



- Manufacturing of Pharmaceutical dosage forms involves a series of steps that can convert the raw materials into finished goods.





# Evaluation



- Any process by which the properties and specifications of the prepared pharmaceutical dosage forms are checked.
- The main aim of evaluation is to confirm the quality.



# Packaging



- Pharmaceutical packaging is defined as the economical means of providing presentation, protection, identification, information, convenience and stability of the product.



# Scope of Pharmaceutics



- **Formulations of drugs**
- **Research in formulations and excipients**
- **Manufacturing**
- **Drug regulatory affairs.**





THANK YOU

