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First Year of Pharmacy
Human Sciences History of pharmacy



HISTORY OF HOSPITAL PHARMACY

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LEARNING OBJECTIVES

- **Define hospital pharmacy and distinguish it from other modes of pharmaceutical practice (community pharmacy, industry, biology).**
- **Describe the main historical stages that led to the birth and evolution of hospital pharmacy**

OUTLINE

Introduction

- 1. Distant Origins — Antiquity & Arab-Islamic Civilization**
- 2. Middle Ages and Modern Era**
- 3. 19th – 20th Centuries: Birth of Modern Hospital Pharmacy**
- 4. Hospital Pharmacy Today**

Conclusion

Introduction

-Hospital pharmacy is the specialized branch of pharmacy practiced within healthcare institutions (hospitals, clinics).

- The history of hospital pharmacy is closely linked to the history of medicine, chemistry, botany, natural sciences, and hygiene.

Modes of pharmaceutical practice



Community

Dispensing to
the general
public



Hospital

Integrated
hospital
service



Industrial

Large-scale
manufacturing



Biology

Diagnostic
analyses


1. Distant Origins — Antiquity & Arab-Islamic Civilization

- ~8500 av. J.-C. ■ Art of healing — first medicinal plants (poppy, valerian, chamomile)
- ~1550 av. J.-C. ■ Ebers Papyrus (Egypt) — first documented medical treatise
- 460 av. J.-C. ■ Hippocrates — father of Western medicine
- ~40 apr. J.-C. ■ Dioscorides — De Materia Medica (600+ medicinal plants)
- 129 apr. J.-C. ■ Galen — Galenicals, pharmaceutical forms still studied today

The Arab-Islamic Civilization (7th – 12th centuries)

- 754 apr. J.-C.** ■ Caliph Al-Mansour opens the first pharmacy (sayadila) in Baghdad
- IXe siècle** ■ Al-Razi (Rhazes) — Kitab al-Hawi, comprehensive medical encyclopedia
- ~980–1037** ■ Avicenna (Ibn Sina) — Canon of Medicine, reference for centuries
- IXe–XIIe s.** ■ Bimaristans (Arab hospitals) with dedicated pharmacy spaces
- IXe–XIIe s.** ■ Distillation and plant extraction — foundations of modern pharmacy

2. Middle Ages & Modern Era (12th – 18th centuries)

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- VIIe siècle** ■ Hôtel-Dieu Paris — one of the oldest Western hospitals
 - 1240** ■ Edict of Frederick II — official separation of medicine & pharmacy in Europe
 - 1544** ■ 1st integrated apothecary room at Sainte-Marthe Hospital (Carpentras)
 - 1777** ■ Royal Declaration of Louis XVI — apothecaries officially become 'pharmacists'
 - 1803** ■ Germinal Law (Year XI) — creation of modern pharmacy schools

3. 19th – 20th CENTURIES : Birth of Modern Hospital Pharmacy

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- 19th century** ■ Development of large hospitals
 - Late 19th** ■ Industrialization of medicines
 - 1921** ■ Insulin (Banting & McLeod) — revolutionary treatment for diabetes
 - 1928** ■ Penicillin (Fleming) — beginning of the antibiotic era
 - 1935** ■ Antibacterial sulfonamides (Fourneau/Bayer) — infectious disease therapy
 - 1960–70** ■ Emergence of clinical pharmacy — pharmacist as a clinical actor

4. Hospital pharmacy today

Mission	Description
Procurement	Selection, purchasing, and stock management of medicines and medical devices
Preparation	Manufacture of magistral, hospital, and anticancer chemotherapy preparations
Quality Control	Control of raw materials, finished products, and water for hemodialysis
Dispensing	Nominative delivery of medicines to care units or directly to patients
Clinical Pharmacy	Prescription analysis, pharmaceutical interventions, medication reconciliation
Information	Advice to healthcare staff, patients, and their families
Teaching	Training of students and interns; participation in clinical research

The 5 'Rights' of Medication Safety



**Right
medicine**



**Right
patient**



**Right
dose**



**Right
route**



**Right
time**

Conclusion

- ✓ The evolution of the history of hospital pharmacy → the growing role of the pharmacist in the healthcare system.
- ✓ The hospital pharmacist is today an essential link in the therapeutic chain.
- ✓ Exciting horizons are opened for future hospital pharmacists.

**Thank you for
your attention**