

**“Pharmacist: your partner in health”**



**WORLD**   
**PHARMACISTS**  
**DAY** : 25 September

# Who is Pharmacist?



In general, **Pharmacists**, also known as chemists or druggists, are healthcare professionals who practice in **pharmacy**, the field of health sciences focusing on safe and effective medication use.

Apart from this, Pharmacist is the one who deals with all the fields related to medicine.

From cultivation of medicinal plant, Extraction, Synthesis, Clinical and non clinical experiments, Dispensing, monitoring, Pharmacovigilance.

# Role Of Pharmacist



- ❖ Community Pharmacy
- ❖ Clinical Pharmacy
- ❖ Hospital Pharmacy
- ❖ Industrial pharmacy
- ❖ Academic Pharmacy
- ❖ Regulatory Pharmacy
- ❖ Research and development
- ❖ Herbal Pharmacy
- ❖ And many more

# Community Pharmacy



- Frontline of healthcare; Bridge between General Physician, Nurses, other health professionals and Public
- Work from Pharmacies, With the responsibility of dispensing and distributing medicine in Supermarkets, Pharmacy shops, Health care centers
- checking dosage and ensuring that medicines are correctly and safely supplied and labelled
- counselling and advising the public on the treatment of minor ailments
- Monitoring blood pressure and cholesterol levels;
- Offering a diabetes screening service;
- Family Planning, Alcohol withdrawal, Life style and Nutrition Habits

# Hospital Pharmacy



- Work in larger hospital and institutional pharmacies, frequently Interact with prescribers and Doctors.
- **MAINTAINS** medical records, influence the **SELECTION OF DRUGS** and dosage regimens, **MONITOR** patient compliance and therapeutic response to drugs, and to recognize and report **ADVERSE DRUG REACTIONS**;
- serves as a member of policy-making committees, including those concerned with drug selection, the use of antibiotics, and hospital infections (**DRUG AND THERAPEUTICS COMMITTEE**) and thereby influences the preparation and composition of an essential-drug list or formulary;
- **EDUCATE** other health professionals about the rational use of drugs;
- **PARTICIPATES** in studies to determine the beneficial or adverse effects of drugs, and is involved in the analysis of drugs in body fluids;
- **PROCUREMENT** and **INVENTORY** management of drugs
- Planning and implementation of **CLINICAL TRIALS**.

# Academic Pharmacy



- Research and Academic go hand in hand
- A well skilled Manpower produced from Good institutes and good Researchers.
- Produces the skilled pharmacist to fulfil the future demand of the market
- Academician give proper education and ethical knowledge in pharmaceutical practices

# Herbal Pharmacy



- Current trend is shifting toward herbal medicine(\$6 billion global market)
- Identification of herbal product for the particular disease
- Reference – Ayurveda, Chinese medicinal System, Babylonian medicine, Unani and Siddha medicine
- *Cultivation, harvesting, Extraction and purification of Active ingredients*
- *Formulation in dosage Form*
- *Research in Phytochemistry*

# Medicinal chemistry



- Medicinal chemists are focused on **DRUG DISCOVERY** and development and are concerned with the isolation of medicinal agents found in plants, as well as the creation of new synthetic drug compounds.
- Theoretical chemistry (structure-activity relationships)
- Phytochemistry
- Computer Aided Drug design
- Synthesis
- Purification
- Identification and Analysis



# Research and Development



Research in

- ❖ Chemistry
- ❖ Pharmacology
- ❖ Toxicologist
- ❖ microbiologists, and
- ❖ Biopharmacists
- ❖ Non-Clinical and Clinical Research
- ❖ New drug application, Generic medicine development
- ❖ Patients compliance

# Industrial Pharmacy



- Formulation development
- *Manufacture, Quality control and quality assurance*
- *Drug information*
- *Patent applications and drug registration*
- *Regulatory Affairs*
- *Sales and marketing*
- *Management*

# Regulatory Pharmacy



*Health and drug policy*

*Management*

*Administration*

*Educational policy*

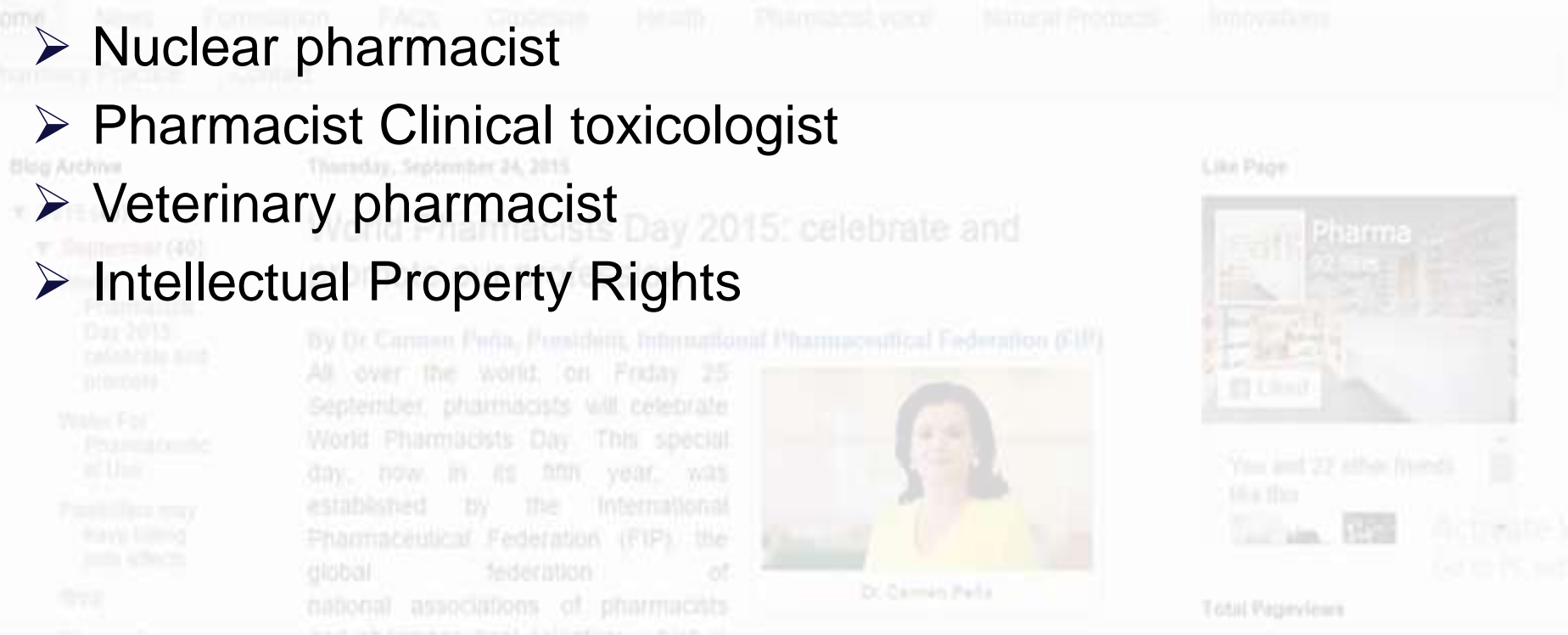
*Regulatory and enforcement agencies*

*Professional registration authorities*

*International agencies and professional bodies*

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