

### Importance of PHARMACOLOGY and VENIPUNCTURE for Radiologic Technologists

As we all know, the jobs of a Radtech is to obtain diagnostic image of the patient. When we think of pharmacology and venipuncture, we tend to just leave it to the doctors, medtechs or nurses to do their work.

However, in the hospital setting, we have a bigger role than radiographers. RadTechs, when under the supervision of a physician, can draw blood from patients and even inject drugs. We are also tasked for the preparation of different chemicals needed for the procedure.

### BASIC AND CLINICAL PHARMACOLOGY

#### PHARMACOLOGY

- the study of that interact with living systems through chemical processes.
- the study of drug actions and its interactions with living organisms.
- came from the Greek word *pharmakon* "drug" and *logos* "study".

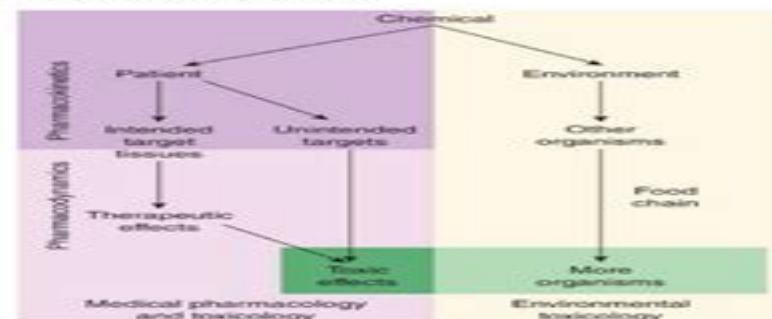
**MEDICAL PHARMACOLOGY** – the science of substances used to prevent, diagnose, and treat disease.

**TOXICOLOGY** – branch of pharmacology that deals with the undesirable effects of chemicals on living systems, from individual cells to humans to complex ecosystems.

#### CHEMICAL ACTIONS

**MEDICAL PHARMACOLOGY AND TOXICOLOGY** understanding the actions of drugs as chemicals on individual organisms, especially humans and domestic animals.

**ENVIRONMENTAL TOXICOLOGY** is concerned with the effects of chemicals on all organisms and their survival in groups and as species.



### MEDICAL PHARMACOLOGY AND TOXICOLOGY

**PHARMACOKINETICS** deals with the absorption, distribution, and elimination of drugs.

**PHARMACODYNAMICS** concerns the actions of the chemical on the body or organism.

### THE HISTORY OF PHARMACOLOGY

**PREHISTORIC PEOPLE** undoubtedly recognized the beneficial or toxic effects of many plant and animal materials. Early written records list remedies of many types, including few that are still recognized as useful drugs today. Most, however, were worthless or harmful.

### IN THE LAST 1500 YEARS

sporadic attempts were made to introduce rational methods into medicine, but none was successful owing to the dominance of systems of thought ("schools") that purported to explain all of biology and disease without the need for experimentation and observation.

### END OF 17<sup>th</sup> CENTURY

Based on observation and experimentation began to replace theorizing in physiology and clinical medicine. As the value of these methods in the study of disease became clear, physicians in Great Britain and on the Continent began to apply them systematically to the effects of traditional drugs used in their own practices.

### MATERIA MEDICA

the science of drug preparation and the medical uses of drugs—began to develop as the precursor to pharmacology.

### LATE 18<sup>th</sup> AND EARLY 19<sup>th</sup> CENTURIES

**François Magendie** and his student **Claude Bernard** began to develop the methods of **experimental physiology and pharmacology**.

**François Magendie (1783-1855)** was a French physiologist and pioneer in the fields of pharmacology, experimental physiology, and pathology. His work introduced several drugs into medical practice and helped establish the foundations of neuroscience and neurosurgery.

### CONTRIBUTIONS TO PHARMACOLOGY

#### INDUCED DRUGS INTO MEDICAL PRACTICE

Magendie's work led to the introduction of morphine, strychnine, quinine, brucine, codeine, and veratrine into medical practice.

#### FORMULATED THE PRINCIPLE OF LOCAL ACTION

Magendie's principle states that a substance's effect is based on its direct contact with an organ.

#### TESTED SUBSTANCES ON HIMSELF

Magendie tested substances on himself that he found safe in his animal experiments.

### 18<sup>th</sup> 19<sup>th</sup> AND EARLY 20<sup>th</sup> CENTURIES

Advances in chemistry and the further development of physiology laid the foundation needed for understanding how drugs work at the organ and cellular levels. Paradoxically, real advances in basic pharmacology during this time were accompanied by an outburst of unscientific claims by manufacturers and marketers of worthless "patent medicines."

### AROUND 1940s AND 1950s

A major expansion of research efforts in all areas of biology began as new concepts and new techniques were introduced.

# Study Guide For Venipuncture

**Barbara Aehlert**

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