



BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY

RT 108: PHARMACOLOGY AND VENIPUNCTURE

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".

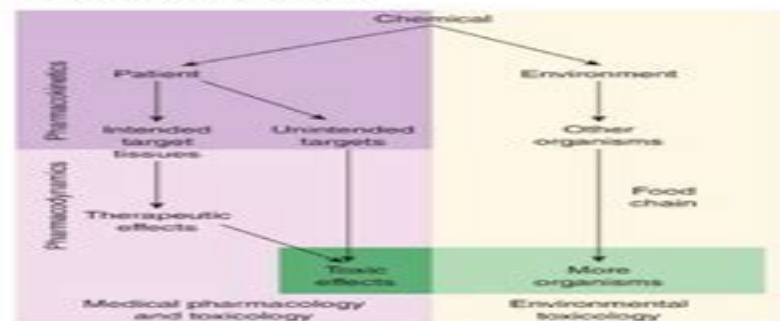
MEDICAL PHARMACOLOGY – the science of substances used to prevent, diagnose, and treat disease.

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 17TH 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 18TH AND EARLY 19TH 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.

18TH 19TH AND EARLY 20TH 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.

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Table of Contents Study Guide For Venipuncture

1. Understanding the eBook Study Guide For Venipuncture
 - The Rise of Digital Reading Study Guide For Venipuncture
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Venipuncture
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide For Venipuncture
 - User-Friendly Interface

4. Exploring eBook Recommendations from Study Guide For Venipuncture
 - Personalized Recommendations
 - Study Guide For Venipuncture User Reviews and Ratings
 - Study Guide For Venipuncture and Bestseller Lists
5. Accessing Study Guide For Venipuncture Free and Paid eBooks
 - Study Guide For Venipuncture Public Domain eBooks
 - Study Guide For Venipuncture eBook Subscription Services
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6. Navigating Study Guide For Venipuncture eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide For Venipuncture Compatibility with Devices
 - Study Guide For Venipuncture Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide For Venipuncture
 - Highlighting and Note-Taking Study Guide For Venipuncture
 - Interactive Elements Study Guide For Venipuncture
8. Staying Engaged with Study Guide For Venipuncture
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide For Venipuncture
9. Balancing eBooks and Physical Books Study Guide For Venipuncture
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide For Venipuncture
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Guide For Venipuncture
 - Setting Reading Goals Study Guide For Venipuncture
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide For Venipuncture
 - Fact-Checking eBook Content of Study Guide For Venipuncture
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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