



MLS 121 – PRINCIPLES OF MEDICAL LABORATORY SCIENCE 2 CLINICAL LABORATORY ASSISTANCE & PHLEBOTOMY

PRELIMS REVIEWER

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I. UNDERSTANDING PHLEBOTOMY

Phlebotomy - process of collecting blood

Greek word: **phlebos** -vein; **temnein** - cut (venesection)

A. EVOLUTION OF PHLEBOTOMY

- Ancient Egyptians** - form of "bloodletting" as early as 1400 BC
 - Hippocrates** - (460-377 BC) - believed on **four humors**
 - Earth** - Blood and Brain
 - Air** - Phlegm and Lungs
 - Fire** - Black Bile and Spleen
 - Water** - Yellow bile and gall bladder.

Excess humor through bloodletting to keep balance.
 - Middle Ages** - Barber-Surgeons - Bloodletting as part of treatment of some illness.
 - 17th and 18th centuries** - treated as major therapy
 - Cupping** - alternative medicine that help ease pain, inflammation or other health concerns.
 - Leeching (hirudotherapy)**
 - uses leeches for bloodletting and microsurgical replantation.
 - Hirudo medicinal (medicinal leech)** - Leeches inject local vasodilator, anesthetic and hirudin (anticoagulant).

B. MAIN GOALS AND MAIN METHODS OF PHLEBOTOMY

- For diagnosis and treatment using blood samples.
- For transfusion, to remove blood from donor.
- Removal of blood for polycythemia or therapeutic purposes.

Venipuncture - blood collection using a needle instead in a vein.

Capillary Puncture - puncturing the skin.

C. ROLES, TRAITS, CREDENTIALS OF A PHLEBOTOMIST

ROLES

- Collect Blood Samples for laboratory testing or for transfusion
- Delivering and transporting collected samples within appropriate prescribed time limits.
- Process collected blood such as centrifuging, aliquoting samples ready for lab testing.
- Assisting in collection of urine and non-blood sample for patients.
- Blood Letting - drawing blood units from donors for transfusion

TRAITS

- Skills and Knowledge
- Good Manual Dexterity - not too stiff
- Special Communication Skills
- Good Organizational Skills

- Thorough knowledge of laboratory specimen requirements
- Training in phlebotomy skills coupled with standard practice

CREDENTIALS

- Certification or License and continuing education
- Accredited, Recognize and Certified
- Pass the Licensure Exam

D. PATIENT-CLIENT INTERACTION AND QUALITIES OF PROFESSIONALISM

PATIENT-CLIENT INTERACTION

- Reassuring and Pleasant when dealing with patients.
- Able to communicate well despite of cultural and social difference.
- Maintain positive customer relations
- Understand the diversity of the patients and be able to adjust accordingly.

NOTE: Patients come from various backgrounds and have different customs and traditions, beliefs and values, attitudes and needs based on their environment and culture.

QUALITIES OF PROFESSIONALISM

- Be Professional (conservative clothing, proper personal hygiene).
- Self Confidence
- Integrity (honesty and consistency in action, values and beliefs)
- Compassionate - sensitivity to needs, ability to stay calm and helpful demeanor
- Self-motivated, positive attitude and initiative to follow through task and continuously look for areas of improvement.
- Dependable, observe proper work ethic, take responsibility for their actions.
- Good ethical behavior, conforming to standards to avoid exposing patients to harm.

E. LEVELS AND BASIC CONCEPTS OF COMMUNICATION IN HEALTHCARE SETTING

- Verbal Communication** - effective communication. Sender (speaker) and Receiver (listener) are able to accurately exchange ideas by using feedback, clarify and confirm ideas. Use words that can be easily understood by patient.
- Non-Verbal Communication** - facial expressions and non-verbal cues, Kinetics (body motion, language), Proxemics (space), appearance (attire), touch (thoughtful expressions).
- Active Listening** - major part of communication



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Careers in Focus Facts on File,2009 Explores twenty one technician and technologist jobs in the field of medicine including the nature of the work education or training getting started advancement salary employment outlook and more

Procedures in Phlebotomy - E-Book John C. Flynn,2023-08-12 Featuring concise easy to read coverage Procedures in Phlebotomy 5th Edition provides clear guidelines for performing both basic and special phlebotomy techniques It describes proper procedures for venipuncture special collection procedures and pediatric and geriatric considerations and addresses essential topics such as infection control OSHA guidelines and anatomy and physiology It also discusses professional issues such as interpersonal communication department management total quality and medical legal topics This edition includes enhanced infection control and prevention protocols updated healthcare law coverage expanded review questions and an updated practice test to prepare you for classroom and certification success Step by step illustrated procedures clearly outline essential phlebotomy competencies and techniques Essentials approach focuses on the need to know basics required to practice phlebotomy Case scenarios woven throughout the chapters help you continually apply content to practice Review questions in each chapter test your ability to recall information and apply critical thinking skills answers and rationales are included in the appendices Mock certification exam with 150 multiple choice questions and answers provides valuable practice for the credentialing test Safety Summary focuses on key points to ensure safe practice Competency checklists facilitate peer instructor and self evaluation on clinical procedures progress Key terms are listed at the beginning of each chapter highlighted in the text and defined in a back of book glossary NEW Protocols for enhanced infection control and prevention address COVID 19 and other emerging pathogens UPDATED Healthcare law coverage includes up to date content on the latest clinical guidelines EXPANDED and REVISED Review questions and a practice test help prepare you for classroom and certification success NEW COVID 19 content included throughout where relevant *Today's Health Professions* Patricia Lockamy Royal,2016-01-08 From athletic trainer to speech pathologist and every major healthcare profession in between you ll explore their histories employment opportunities licensure requirements earnings potential and career paths Professional healthcare providers share their personal stories introduce you to their work and describe what a typical day is like Their insights help you to see which career might be the right one for you **Digest of Education Statistics** ,2009 Contains information on a variety of subjects within the field of education statistics including the number of schools and colleges enrollments teachers graduates educational attainment finances Federal funds for education libraries international education and research and development *Health Careers Today E-Book* Judith Gerdin,2021-10-20 Find the healthcare career that s right for you Health Careers Today 7th Edition provides a complete overview of the most popular careers in health care helping you make an informed decision in choosing a profession Not only does this book discuss the roles and responsibilities of different occupations it provides a solid foundation in the skills and competencies that each

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