Mercer County Community College
Division of Health Professions
Nursing Program

Laboratory Reference Ranges and Outside Materials

Purpose: To provide guidance for students on appropriate reference materials

Procedure:

1. Normal ranges of laboratory values can vary between resources, providers, and institutions. The attached appendix is the accepted MCCC reference ranges for laboratory values.

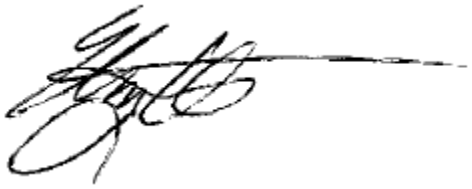
2. The Nursing Education program expect all students to memorize the normal range of laboratory values in the appendix. These values are specifically identified on the NCLEX blueprint as testable items.

3. Laboratory values other than those in the appendix may be tested, as long as a reference range is provided within the question.

4. Students are expected to use the class preparation materials provided by the program and the faculty. Materials not vetted by the nursing education faculty may not contain accurate information and students should use caution in reading outside materials. The nursing faculty critically appraise evidence to determine which materials are most relevant; students may not have the same skill to determine which material is appropriate for use.

Effective Date: July 1, 2019
Reviewed: May 2020

Approved by:



Elizabeth A. Mizerek, MSN, RN, FN-CSA, CNE, CEN, CPEN, FAEN
Director of Nursing Education

Laboratory Reference Ranges Appendix

NCLEX expects that you can identify normal laboratory values and compare to client laboratory values. The following list is outlined in the NCLEX Detailed Test Plan. **Memorize these normal values; you will be tested on them**. The values listed below are normal adult values.

Arterial Blood Gasses (ABGs)	
pH	7.35-7.45
PO2	80-100 mmHg
PaCO2	35-45 mmHg
SaO2	Equal or greater than 95%
HCO3	22-26 mEq/L

Basic Metabolic Panel (BMP)	
Sodium (Na+)	135-145 mEq/L; panic value is less than 115mEq/L
Potassium (K+)	3.5-5.0 mEq/L
Glucose	70-105 mg/dL **(fasting)**
Creatinine (Cr)	0.5-1.5 mg/dL
Blood Urea Nitrogen (BUN)	5-25 mg/dL

Complete Blood Count (CBC)	
Hematocrit (Hct)	Male: 40%-54%, Female 36%-46% (Concern for values less than 15% or more than 60%
Hemoglobin (Hgb)	Male 13.5-18 g/dL, Female 12-15 g/dL
Platelets (Plt)	150,000-400,000 µl
White blood cells (WBC)	4.5-10 µL

Coagulation Studies	
Prothrombin time (PT)	10-15 seconds
Partial Thromboplastin Time (PTT)	60-70 seconds
Activated Partial Thromboplastin Time (aPTT)	20-35 second
INR: With oral anticoagulant therapy	2.0-3.0 INR
INR: No anticoagulant therapy.	0.8-1.2 INR

Other Studies	
Cholesterol (total) Adult desirable levels	Less than 200 mg/dL
Glycosylated hemoglobin (HgbA1C)	Non diabetic: less than 5.7% Prediabetes: 5.7% - 6.4% Diabetic: 6.5% or greater