

NURSING LAB VALUE CHEAT SHEET

NURSING LAB VALUE CHEAT SHEET SERVES AS AN ESSENTIAL RESOURCE FOR NURSES AND HEALTHCARE PROFESSIONALS TO QUICKLY REFERENCE CRITICAL LABORATORY VALUES. THIS COMPREHENSIVE GUIDE ENHANCES CLINICAL DECISION-MAKING, IMPROVES PATIENT SAFETY, AND SUPPORTS EFFECTIVE COMMUNICATION WITHIN HEALTHCARE TEAMS. UNDERSTANDING NORMAL AND ABNORMAL LAB VALUES IS CRUCIAL FOR ACCURATE ASSESSMENT, DIAGNOSIS, AND TREATMENT PLANNING IN A VARIETY OF MEDICAL SETTINGS. THIS ARTICLE PROVIDES DETAILED INFORMATION ON COMMON LAB VALUES, INCLUDING BLOOD COUNTS, ELECTROLYTES, LIVER AND KIDNEY FUNCTION TESTS, AND COAGULATION PROFILES. ADDITIONALLY, IT OFFERS PRACTICAL TIPS FOR INTERPRETING RESULTS AND RECOGNIZING CRITICAL VALUES THAT REQUIRE IMMEDIATE INTERVENTION. WHETHER IN ACUTE CARE, OUTPATIENT CLINICS, OR LONG-TERM CARE FACILITIES, A NURSING LAB VALUE CHEAT SHEET IS INDISPENSABLE FOR MAINTAINING HIGH-QUALITY PATIENT CARE. THE FOLLOWING SECTIONS WILL COVER THE ESSENTIAL CATEGORIES OF LAB VALUES AND HOW NURSES CAN EFFICIENTLY UTILIZE THIS TOOL IN CLINICAL PRACTICE.

- COMPLETE BLOOD COUNT (CBC) VALUES
- ELECTROLYTE PANEL
- LIVER FUNCTION TESTS (LFTs)
- KIDNEY FUNCTION TESTS
- COAGULATION STUDIES
- ARTERIAL BLOOD GASES (ABGs)
- TIPS FOR USING A NURSING LAB VALUE CHEAT SHEET

COMPLETE BLOOD COUNT (CBC) VALUES

THE COMPLETE BLOOD COUNT (CBC) IS ONE OF THE MOST COMMONLY ORDERED LAB TESTS IN NURSING PRACTICE. IT PROVIDES ESSENTIAL INFORMATION ABOUT THE CELLULAR COMPONENTS OF BLOOD, INCLUDING RED BLOOD CELLS, WHITE BLOOD CELLS, AND PLATELETS. UNDERSTANDING CBC VALUES HELPS NURSES MONITOR FOR ANEMIA, INFECTION, BLEEDING DISORDERS, AND OTHER HEMATOLOGIC CONDITIONS.

RED BLOOD CELL (RBC) COUNT

THE RBC COUNT MEASURES THE NUMBER OF RED BLOOD CELLS IN A GIVEN VOLUME OF BLOOD. NORMAL VALUES VARY SLIGHTLY BY LAB BUT GENERALLY RANGE FROM 4.2 TO 5.9 MILLION CELLS PER MICROLITER IN ADULTS. ABNORMAL RBC COUNTS CAN INDICATE ANEMIA, POLYCYTHEMIA, OR OTHER BLOOD DISORDERS.

HEMOGLOBIN (HGB)

HEMOGLOBIN IS THE OXYGEN-CARRYING PROTEIN IN RED BLOOD CELLS. NORMAL HEMOGLOBIN LEVELS ARE APPROXIMATELY 13.5 TO 17.5 g/dL FOR MEN AND 12.0 TO 15.5 g/dL FOR WOMEN. LOW LEVELS SUGGEST ANEMIA, WHILE ELEVATED LEVELS MAY INDICATE DEHYDRATION OR POLYCYTHEMIA.

HEMATOCRIT (HCT)

HEMATOCRIT REPRESENTS THE PERCENTAGE OF BLOOD VOLUME OCCUPIED BY RED BLOOD CELLS. NORMAL RANGES ARE TYPICALLY

38% to 50% for men and 34% to 44% for women. Changes in hematocrit can reflect fluid balance, blood loss, or red blood cell production issues.

WHITE BLOOD CELL (WBC) COUNT

The WBC count assesses the number of white blood cells, which are vital for immune response. The normal range is about 4,500 to 11,000 cells per microliter. Elevated WBC counts may indicate infection, inflammation, or leukemia, while low counts can reflect bone marrow suppression or immune deficiency.

PLATELET COUNT

Platelets are critical for blood clotting. Normal counts range from 150,000 to 450,000 platelets per microliter. Thrombocytopenia (low platelets) can increase bleeding risk, whereas thrombocytosis (high platelets) may predispose patients to clotting complications.

ELECTROLYTE PANEL

Electrolyte panels measure essential minerals that maintain fluid balance, nerve function, and muscle contraction. Nurses must monitor electrolyte values closely to prevent and manage imbalances that can affect cardiac and neurological status.

SODIUM (Na⁺)

Sodium is the primary extracellular cation responsible for fluid balance and nerve function. Normal serum sodium ranges from 135 to 145 mEq/L. Hyponatremia and hypernatremia both pose serious risks and require prompt management.

POTASSIUM (K⁺)

Potassium, the main intracellular cation, is crucial for cardiac and muscular function. Normal levels are 3.5 to 5.0 mEq/L. Hypokalemia and hyperkalemia can cause life-threatening arrhythmias and muscle weakness.

CHLORIDE (Cl⁻)

Chloride helps maintain acid-base balance and osmotic pressure. Normal values range from 96 to 106 mEq/L. Abnormal chloride levels often accompany sodium imbalances and require evaluation.

CALCIUM (Ca²⁺)

Calcium is important for bone health, muscle contraction, and nerve transmission. Normal serum calcium ranges from 8.5 to 10.5 mg/dL. Hypocalcemia and hypercalcemia can cause neuromuscular and cardiac symptoms.

MAGNESIUM (Mg²⁺)

Magnesium supports enzyme function, muscle relaxation, and nerve conduction. Normal levels are 1.5 to 2.5 mEq/L. Deficiencies or excesses impact cardiovascular and neurological health.

LIVER FUNCTION TESTS (LFTs)

LIVER FUNCTION TESTS ASSESS THE HEALTH AND PERFORMANCE OF THE LIVER BY MEASURING ENZYMES, PROTEINS, AND BILIRUBIN LEVELS. THESE VALUES HELP IDENTIFY LIVER DAMAGE, INFLAMMATION, OR DYSFUNCTION.

ALANINE AMINOTRANSFERASE (ALT)

ALT IS AN ENZYME FOUND MAINLY IN THE LIVER. NORMAL LEVELS RANGE FROM 7 TO 56 UNITS PER LITER. ELEVATED ALT INDICATES LIVER CELL INJURY OR INFLAMMATION.

ASPARTATE AMINOTRANSFERASE (AST)

AST IS PRESENT IN LIVER, HEART, AND MUSCLE TISSUES. NORMAL VALUES ARE 10 TO 40 UNITS PER LITER. INCREASED AST LEVELS SUGGEST LIVER DAMAGE OR MUSCLE INJURY.

ALKALINE PHOSPHATASE (ALP)

ALP IS AN ENZYME RELATED TO BILE DUCTS AND BONE METABOLISM. NORMAL ADULT RANGES ARE 44 TO 147 UNITS PER LITER. ELEVATED ALP CAN INDICATE BILE DUCT OBSTRUCTION OR BONE DISEASE.

TOTAL BILIRUBIN

BILIRUBIN IS A BYPRODUCT OF RED BLOOD CELL BREAKDOWN. NORMAL TOTAL BILIRUBIN IS 0.1 TO 1.2 MG/DL. ELEVATED BILIRUBIN CAUSES JAUNDICE AND MAY INDICATE LIVER OR HEMOLYTIC DISEASES.

ALBUMIN

ALBUMIN IS A PROTEIN SYNTHESIZED BY THE LIVER, ESSENTIAL FOR MAINTAINING ONCOTIC PRESSURE. NORMAL SERUM ALBUMIN RANGES FROM 3.5 TO 5.0 G/DL. LOW ALBUMIN CAN SIGNAL LIVER DISEASE, MALNUTRITION, OR CHRONIC ILLNESS.

KIDNEY FUNCTION TESTS

KIDNEY FUNCTION TESTS EVALUATE RENAL HEALTH AND ABILITY TO FILTER WASTE PRODUCTS. NURSES MONITOR THESE VALUES TO DETECT ACUTE OR CHRONIC KIDNEY DISEASE AND GUIDE FLUID AND MEDICATION MANAGEMENT.

BLOOD UREA NITROGEN (BUN)

BUN MEASURES THE AMOUNT OF NITROGEN IN THE BLOOD FROM UREA, A WASTE PRODUCT. NORMAL VALUES RANGE FROM 7 TO 20 MG/DL. ELEVATED BUN SUGGESTS IMPAIRED KIDNEY FUNCTION, DEHYDRATION, OR INCREASED PROTEIN CATABOLISM.

CREATININE

CREATININE IS A WASTE PRODUCT FROM MUSCLE METABOLISM, FILTERED BY THE KIDNEYS. NORMAL LEVELS ARE 0.6 TO 1.3 MG/DL. INCREASED CREATININE INDICATES REDUCED KIDNEY FILTRATION AND POSSIBLE RENAL IMPAIRMENT.

GLOMERULAR FILTRATION RATE (GFR)

GFR ESTIMATES KIDNEY FILTRATION EFFICIENCY. NORMAL GFR IS ABOVE 90 mL/MIN/1.73 M². LOWER GFR VALUES SIGNIFY WORSENING KIDNEY FUNCTION AND STAGES OF CHRONIC KIDNEY DISEASE.

COAGULATION STUDIES

COAGULATION STUDIES EVALUATE BLOOD CLOTTING ABILITY, ESSENTIAL FOR MANAGING BLEEDING RISKS AND ANTICOAGULANT THERAPY. NURSES MUST BE FAMILIAR WITH THESE VALUES TO DETECT COAGULATION ABNORMALITIES.

PROTHROMBIN TIME (PT)

PT MEASURES THE TIME IT TAKES BLOOD TO CLOT VIA THE EXTRINSIC PATHWAY. NORMAL PT IS APPROXIMATELY 11 TO 13.5 SECONDS. PROLONGED PT MAY INDICATE LIVER DISEASE OR WARFARIN THERAPY EFFECT.

INTERNATIONAL NORMALIZED RATIO (INR)

INR STANDARDIZES PT RESULTS TO MONITOR WARFARIN EFFECTIVENESS. A NORMAL INR IS ABOUT 1.0; THERAPEUTIC RANGES VARY BY INDICATION, USUALLY BETWEEN 2.0 AND 3.0.

PARTIAL THROMBOPLASTIN TIME (PTT)

PTT ASSESSES THE INTRINSIC CLOTTING PATHWAY. NORMAL RANGES FROM 25 TO 35 SECONDS. PROLONGED PTT MAY RESULT FROM HEPARIN THERAPY OR CLOTTING FACTOR DEFICIENCIES.

D-DIMER

D-DIMER IS A FIBRIN DEGRADATION PRODUCT ELEVATED IN CLOT FORMATION AND BREAKDOWN. NORMAL LEVELS VARY BY ASSAY BUT GENERALLY ARE LESS THAN 500 NG/ML. ELEVATED D-DIMER SUGGESTS ACTIVE THROMBOSIS.

ARTERIAL BLOOD GASES (ABGs)

ABGs PROVIDE CRITICAL INFORMATION ON OXYGENATION, VENTILATION, AND ACID-BASE BALANCE. NURSES USE ABG ANALYSIS TO ASSESS RESPIRATORY AND METABOLIC STATUS IN ACUTELY ILL PATIENTS.

pH

THE BLOOD pH REFLECTS ACIDITY OR ALKALINITY. NORMAL ARTERIAL pH RANGES FROM 7.35 TO 7.45. VALUES OUTSIDE THIS RANGE INDICATE ACIDOSIS OR ALKALOSIS REQUIRING FURTHER EVALUATION.

PARTIAL PRESSURE OF OXYGEN (PAO₂)

PAO₂ MEASURES OXYGEN PRESSURE IN ARTERIAL BLOOD. NORMAL LEVELS ARE 80 TO 100 MMHG, INDICATING ADEQUATE OXYGENATION.

PARTIAL PRESSURE OF CARBON DIOXIDE (PaCO₂)

PaCO₂ INDICATES CARBON DIOXIDE LEVELS, REFLECTING RESPIRATORY FUNCTION. NORMAL RANGE IS 35 TO 45 MMHG. ALTERED LEVELS CAN CAUSE RESPIRATORY ACIDOSIS OR ALKALOSIS.

BICARBONATE (HCO₃⁻)

BICARBONATE ACTS AS A BUFFER IN BLOOD TO MAINTAIN ACID-BASE BALANCE. NORMAL LEVELS RANGE FROM 22 TO 26 MEQ/L. CHANGES SUGGEST METABOLIC ACIDOSIS OR ALKALOSIS.

TIPS FOR USING A NURSING LAB VALUE CHEAT SHEET

A WELL-ORGANIZED NURSING LAB VALUE CHEAT SHEET IS INVALUABLE FOR QUICK REFERENCE DURING CLINICAL PRACTICE. EFFICIENT USE INVOLVES UNDERSTANDING NORMAL RANGES, RECOGNIZING CRITICAL VALUES, AND CORRELATING LAB DATA WITH PATIENT SYMPTOMS.

- **KEEP IT ACCESSIBLE:** STORE THE CHEAT SHEET IN A PLACE THAT IS EASY TO REACH DURING PATIENT CARE.
- **FAMILIARIZE WITH COMMON VALUES:** REGULAR REVIEW HELPS REINFORCE KNOWLEDGE AND SPEEDS DECISION-MAKING.
- **USE AS A TEACHING TOOL:** SHARE AND REVIEW LAB VALUES WITH PATIENTS AND FAMILIES WHEN APPROPRIATE.
- **NOTE VARIATIONS:** BE AWARE THAT NORMAL RANGES MAY VARY SLIGHTLY DEPENDING ON THE LABORATORY AND PATIENT FACTORS.
- **PRIORITIZE CRITICAL VALUES:** DEVELOP PROTOCOLS FOR IMMEDIATE ACTION WHEN VALUES FALL OUTSIDE LIFE-THREATENING RANGES.
- **INTEGRATE CLINICAL CONTEXT:** ALWAYS INTERPRET LAB VALUES ALONGSIDE PATIENT HISTORY, PHYSICAL EXAMINATION, AND OTHER DIAGNOSTIC FINDINGS.

FREQUENTLY ASKED QUESTIONS

WHAT IS A NURSING LAB VALUE CHEAT SHEET?

A NURSING LAB VALUE CHEAT SHEET IS A QUICK REFERENCE GUIDE THAT SUMMARIZES COMMON LABORATORY TEST VALUES, INCLUDING NORMAL RANGES AND CRITICAL VALUES, TO HELP NURSES INTERPRET RESULTS EFFICIENTLY AND PROVIDE APPROPRIATE PATIENT CARE.

WHY IS A NURSING LAB VALUE CHEAT SHEET IMPORTANT?

IT HELPS NURSES QUICKLY IDENTIFY ABNORMAL LAB RESULTS, MAKE INFORMED CLINICAL DECISIONS, MONITOR PATIENT STATUS, AND COMMUNICATE EFFECTIVELY WITH THE HEALTHCARE TEAM, ULTIMATELY IMPROVING PATIENT SAFETY AND CARE QUALITY.

WHAT ARE SOME COMMONLY INCLUDED LAB VALUES ON A NURSING LAB VALUE CHEAT SHEET?

COMMON LAB VALUES INCLUDE COMPLETE BLOOD COUNT (CBC) PARAMETERS LIKE HEMOGLOBIN, HEMATOCRIT, WHITE BLOOD CELLS, ELECTROLYTES SUCH AS SODIUM, POTASSIUM, CALCIUM, RENAL FUNCTION TESTS LIKE BUN AND CREATININE, AND COAGULATION VALUES LIKE PT AND INR.

WHERE CAN NURSES FIND RELIABLE NURSING LAB VALUE CHEAT SHEETS?

RELIABLE CHEAT SHEETS CAN BE FOUND IN NURSING TEXTBOOKS, OFFICIAL NURSING WEBSITES, HOSPITAL INTRANET RESOURCES, NURSING APPS, AND EDUCATIONAL PLATFORMS LIKE MEDSCAPE OR LAB TESTS ONLINE.

HOW OFTEN SHOULD NURSING LAB VALUE CHEAT SHEETS BE UPDATED?

THEY SHOULD BE REVIEWED AND UPDATED REGULARLY, AT LEAST ANNUALLY OR WHENEVER NEW CLINICAL GUIDELINES OR REFERENCE RANGES ARE ESTABLISHED, TO ENSURE ACCURACY AND RELEVANCE IN PATIENT CARE.

CAN NURSING LAB VALUE CHEAT SHEETS BE CUSTOMIZED?

YES, NURSES CAN CUSTOMIZE CHEAT SHEETS TO FOCUS ON LAB VALUES MOST RELEVANT TO THEIR CLINICAL SPECIALTY OR PATIENT POPULATION, INCLUDING ADDING NOTES ABOUT CRITICAL VALUES AND NURSING INTERVENTIONS.

HOW CAN NURSING STUDENTS BEST UTILIZE A LAB VALUE CHEAT SHEET?

NURSING STUDENTS CAN USE CHEAT SHEETS AS STUDY AIDS TO MEMORIZE NORMAL RANGES, UNDERSTAND THE SIGNIFICANCE OF ABNORMAL RESULTS, AND PRACTICE CLINICAL REASONING, BUT THEY SHOULD ALSO LEARN TO INTERPRET LAB VALUES IN THE CONTEXT OF THE PATIENT'S OVERALL CONDITION.

ADDITIONAL RESOURCES

1. *LAB VALUES AND NURSING CARE: A COMPREHENSIVE GUIDE*

THIS BOOK OFFERS AN IN-DEPTH OVERVIEW OF ESSENTIAL LAB VALUES FREQUENTLY ENCOUNTERED IN NURSING PRACTICE. IT INCLUDES NORMAL RANGES, CRITICAL VALUES, AND NURSING INTERVENTIONS RELATED TO EACH TEST. DESIGNED FOR BOTH STUDENTS AND PRACTICING NURSES, IT SERVES AS AN ACCESSIBLE REFERENCE TO IMPROVE PATIENT CARE AND CLINICAL DECISION-MAKING.

2. *NURSING LAB VALUES MADE EASY*

"NURSING LAB VALUES MADE EASY" SIMPLIFIES COMPLEX LABORATORY DATA TO HELP NURSES QUICKLY UNDERSTAND AND INTERPRET TEST RESULTS. THE BOOK PROVIDES CLEAR EXPLANATIONS, CHARTS, AND QUICK-REFERENCE TABLES, MAKING IT IDEAL FOR BUSY CLINICAL SETTINGS. IT ALSO EMPHASIZES THE CLINICAL SIGNIFICANCE OF ABNORMAL VALUES AND NURSING ACTIONS.

3. *THE NURSE'S GUIDE TO LABORATORY AND DIAGNOSTIC TESTS*

THIS GUIDE COVERS A BROAD RANGE OF LABORATORY AND DIAGNOSTIC TESTS, HIGHLIGHTING THE PURPOSE, PROCEDURE, NORMAL VALUES, AND IMPLICATIONS OF ABNORMAL RESULTS. IT IS TAILORED TO NURSING PROFESSIONALS WHO NEED A RELIABLE CHEAT SHEET FOR LAB VALUES AND ASSOCIATED PATIENT CARE CONSIDERATIONS. THE BOOK ALSO INCLUDES CASE STUDIES TO ENHANCE PRACTICAL UNDERSTANDING.

4. *ESSENTIAL LAB VALUES FOR NURSES: QUICK REFERENCE*

FOCUSED ON QUICK ACCESSIBILITY, THIS POCKET-SIZED BOOK PROVIDES A CONCISE SUMMARY OF THE MOST COMMONLY ORDERED LAB TESTS AND THEIR NORMAL RANGES. IT INCLUDES TIPS ON INTERPRETING RESULTS AND CORRELATING THEM WITH CLINICAL SYMPTOMS. THE BOOK IS A HANDY TOOL FOR NURSES WORKING IN FAST-PACED ENVIRONMENTS.

5. *CLINICAL LAB VALUES AND NURSING INTERVENTIONS*

THIS TEXT BRIDGES THE GAP BETWEEN LABORATORY SCIENCE AND NURSING PRACTICE BY EXPLAINING LAB VALUES ALONGSIDE APPROPRIATE NURSING INTERVENTIONS. IT COVERS HEMATOLOGY, CHEMISTRY, MICROBIOLOGY, AND MORE, WITH AN EMPHASIS ON PATIENT SAFETY AND ACCURATE ASSESSMENT. NURSES WILL FIND DETAILED, PRACTICAL INFORMATION TO SUPPORT CLINICAL DECISIONS.

6. *LAB VALUES FOR NURSES: A PRACTICAL CHEAT SHEET*

DESIGNED AS A QUICK-REFERENCE CHEAT SHEET, THIS BOOK LISTS KEY LAB VALUES WITH CORRESPONDING NORMAL RANGES AND NURSING CONSIDERATIONS. IT IS ORGANIZED BY BODY SYSTEM AND INCLUDES COMMON TESTS RELATED TO CARDIOVASCULAR, RENAL, HEPATIC, AND ENDOCRINE FUNCTIONS. THE STRAIGHTFORWARD LAYOUT HELPS NURSES RECALL IMPORTANT DATA RAPIDLY DURING CLINICAL WORK.

7. *UNDERSTANDING LABORATORY TESTS: A NURSING PERSPECTIVE*

THIS BOOK PROVIDES A CLEAR EXPLANATION OF LABORATORY TESTS FROM A NURSING VIEWPOINT, FOCUSING ON INTERPRETATION AND PATIENT IMPLICATIONS. IT DISCUSSES COMMON TESTS, THEIR INDICATIONS, AND HOW ABNORMAL RESULTS AFFECT NURSING CARE PLANS. THE CONTENT IS SUPPLEMENTED WITH CHARTS AND MNEMONICS TO AID MEMORY RETENTION.

8. *NURSING LAB VALUE ESSENTIALS: INTERPRETATION AND APPLICATION*

“NURSING LAB VALUE ESSENTIALS” COMBINES FOUNDATIONAL KNOWLEDGE WITH PRACTICAL GUIDANCE FOR APPLYING LAB RESULTS IN CLINICAL PRACTICE. IT HIGHLIGHTS CRITICAL LAB VALUES THAT REQUIRE IMMEDIATE ATTENTION AND OUTLINES STEPS FOR NURSING INTERVENTIONS. THE BOOK IS SUITED FOR NURSING STUDENTS AND PROFESSIONALS SEEKING TO ENHANCE THEIR LAB VALUE LITERACY.

9. *THE QUICK GUIDE TO LAB VALUES FOR NURSES*

THIS QUICK GUIDE DISTILLS VITAL LAB VALUE INFORMATION INTO AN EASY-TO-USE FORMAT FOR NURSES AT ALL LEVELS. IT EMPHASIZES COMMON TESTS AND THEIR SIGNIFICANCE, HELPING NURSES QUICKLY IDENTIFY ABNORMALITIES AND RESPOND APPROPRIATELY. THE BOOK ALSO INCLUDES SUMMARY TABLES AND FLOWCHARTS TO SUPPORT RAPID DECISION-MAKING.

Nursing Lab Value Cheat Sheet

Nursing Lab Value Cheat Sheet

Related Articles

- [number 4 worksheets for preschool](#)
- [numerical analysis mathematics of scientific computing third edition](#)
- [nursery rhymes the wheels on the bus](#)

[Back to Home](#)