Laboratory Values

ECPI University, College of Nursing - Orlando

|  |  |  |  |
| --- | --- | --- | --- |
| Lab Test | **Normal Value** | **Pregnancy Value** | **Newborn Value** |
| **Albumin (blood)**  **Pre-albumin** | **3.5-5 g/dl**  **15-36 mg/dl** |  |  |
| **ALT (SGPT)** | **4-36 units/L** |  |  |
| **Ammonia** | **15-60 mcg/dl** |  |  |
| **ABG pH** | **7.35-7.45** |  |  |
| **ABG pO2** | **80-100mmHg** |  |  |
| **ABG pCO2** | **35-45 mmHg** |  |  |
| **ABG HCO3** | **22-26 mEq/L** |  |  |
| **ABG SaO2** | **95-100 %** |  |  |
| **ABG Base excess** | **-2 to +2 mEq/L** |  |  |
| **AST (SGOT)** | **10-40 units/L** |  |  |
| **Bilirubin (total)** | **0.3-1.0 mg/dl** | **No change** | **<24 hours: <6.0**  **1-2 days: <10**  **3-5 days: <12** |
| **Bleeding time** | **3-5 minutes** |  |  |
| **BNP** | **<100 pg/ml** |  |  |
| **BUN** | **10-20 mg/dl** |  |  |
| **Calcium (total serum)** | **9.0 – 10.5 mg/dl** |  |  |
| **Cholesterol (total)** | **<200 mg/dl** | **< 350** | **Rises rapidly after birth, reaching adult levels by day 1** |
| **Cholesterol HDL** | **> 45 mg/dl (males)**  **> 55 mg/dl (females)** |  |  |
| **Cholesterol LDL** | **<130 mg/dl** |  |  |
| **CPK-MB (heart muscle)** | **0%** |  |  |
| **Creatinine (serum)** | **0.6-1.2 mg/dl** |  |  |
| **Digoxin** | **0.8-2.0 ng/ml** |  |  |
| **Dilantin** | **10-20 mcg/ml** |  |  |
| **ESR (or sed rate)** | **Up to 15mm/hr (males)**  **Up to 20 mm/hr (females)** |  |  |
| **Glucose/Fasting (FBS)**  **2 hr post prandial** | **70-110 mg/dl**  **<120 mg/dl** | **< 95**  **< 120** | **> 40** |
| **Hematocrit** | **male 42-52%**  **female 37-47%** | **33-39%** | **46-68%** |
| **Hemoglobin** | **male 14-18 g/dl**  **female 12-16 g/dl** | **12-16 g/dl** | **15.2-23.6 g/dl** |
| **Hemoglobin A1c** | **Diabetic control <7%**  **Nondiabetic 4-5.9%** |  |  |
| Lab Test | **Normal Value** | **Pregnancy Value** | **Newborn Value** |
| **INR** | **0.8-1.1**  **2.0-3.0 INR**  **2.5-3.5 INR** |  |  |
| **Lithium** | **0.8-1.2 mEq/l**  **1.3-1.5 mEq/L (early indication)**  **1.5-2.0 mEq/L (advanced indication)**  **2.0-2.5 mEq/L (severe toxicity)**  **<2.5 mEq/L (coma/death)** |  |  |
| **Magnesium** | **1.3-2.1 mEq/L** |  |  |
| **Phosphorous/**  **Phosphate (serum)** | **3.0-4.5 mg/dl** |  |  |
| **Platelets** | **150,000-400,000** | **No significant change** | **150,000-450,000** |
| **Potassium** | **3.5-5.0 mEq/l** |  |  |
| **Protein (total serum)** | **6.4-8.3 g/dl** |  |  |
| **PT (pro time)** | **11.0-12.5 secs normal** |  |  |
| **aPTT** | **30-40 seconds** |  |  |
| **PTT** | **60-70 seconds** |  |  |
| **RBCs** | **4.7-6.1 (males)**  **4.2-5.4 (females)** | **2.7-4.55** | **4.51-7.01** |
| **Sodium (serum)** | **135-145 mEq/l** |  |  |
| **Troponin (cardiac)** | **T=<0.2 ng/ml;**  **I=<0.03 ng/ml** |  |  |
| **Urine pH** | **Average 6.0** |  |  |
| **Urine WBCs** | **0-4** |  |  |
| **Urine differential** | **Protein (negative)**  **Glucose (negative)**  **Ketones (negative)**  **RBCs (none or <2)**  **Casts (none)** |  |  |
| **Urine specific gravity** | **1.005-1.030** |  |  |
| **WBC**  **Neutrophils**  **Lymphocytes**  **Monocytes**  **Eosinophils**  **Basophils** | **5000-10,000**  **55-70%**  **20-40%**  **2-8%**  **1-4%**  **0.5-1%** | **5600-17,000** | **9100-30,000** |

**Sources:**

Durham, R. & Chapman, L. (Eds.). (2019). Maternal-newborn nursing (3rd ed.) Philadelphia, PA: FA Davis Co.

Keogh, J. (2017). Nursing laboratory and diagnostic tests demystified (2nd ed.). New York, NY: McGraw Hill Education.

Pagan, K.D., Pagana, T. J., & Pagana, T.N. (2019). Mosby’s diagnostic and laboratory test reference (14th ed.). St. Louis, MO: Mosby Elsevier.

Venes, D. (Ed.). (2017). Taber’s cyclopedic medical dictionary (23rd ed.). Philadelphia, PA: FA Davis Co.