

Laboratory Values in Pregnancy

Lab values in Pregnancy

Test	Nonpregnant Range	Pregnancy Effect	Gestational Timing
Blood Chemistry			
Albumin	3.5-4.8 g/dL	1 g/dL decrease	By midpregnancy
Calcium	9.0-10.3 mg/dL	10% decrease	Falls gradually
Chloride	95-105 mEq/L	No change	
Cholesterol	200-240 mg/dL	50% increase	Rises steadily
Creatinine	0.6-1.1 mg/dL	0.3 mg/dL increase	By midpregnancy
Fibrinogen	200-400 mg/dL	1.5-3x increase	By term
Glucose, fasting	65-105 mg/dL	10% decrease	Gradual fall
Potassium (plasma)	3.5-4.5 mEq/L	0.2-0.3 mEq/L decrease	By midpregnancy
Protein (total)	6.5-8.5 g/dL	1 g/dL decrease	By midpregnancy
Sodium	135-145 mEq/L	2-4 mEq/L decrease	By midpregnancy
Urea nitrogen	12-30 mg/dL	50% decrease	First trimester
Uric acid	3.5-8 mg/dL	33% decrease	First trimester
Urine Chemistry			
Creatinine	15-25 mg/kg/d	No change	
Protein	Up to 150 mg/d	Up to 250-300 mg/day	By midpregnancy
Creatinine clearance	90-130 mL/min/1.73 m ²	40-50% increase	By 16 weeks
Serum Enzymes			
Alkaline phosphatase	30-120 U/L	2x to 4x increase	By 20 weeks
Amylase	60-180 U/L	Controversial	
Creatinine phosphokinase	26-140 U/L	2- to 4-fold increase	After labor (MB bands as well)
Lipase	10-140 U/L	No change	
Aspartate aminotransferase (AST)	5-35 mU/mL	No change	
Alanine Aminotransferase (ALT)	5-35 mU/mL	No change	
Formed Elements of Blood			
Hematocrit	36-46%	4-7 point decrease	Nadir at 30-34 weeks
Hemoglobin	12-16 g/dL	1.4-2.0 g/dL decrease	Nadir at 30-34 weeks
Leukocyte count	4.8-10.8 x 10 ³ /mm ³	3.5 x 10 ³ /mm ³ increase	Gradual increase to term, as high as 25 x 10 ³ /mm ³ in labor
Platelets	150-400 x 10 ³ /mm ³	Slight decrease	Gradual

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