

PHYSIOLOGIC CHANGES ASSOCIATED WITH PREGNANCY

<u>PARAMETER</u>	<u>NONPREGNANT</u>	<u>PREGNANT</u>
Cardiovascular	70-80 bpm	Increase 10-15 bpm
Heart rate	4.5 L/min	Increase to 6 L/min
Cardiac output	_____	Increased
Stroke volume	110 mm Hg	Decrease 2-8 mm Hg
Systolic blood pressure	70 mm Hg	Decrease by 5-15 mm Hg
Diastolic blood pressure	_____	Increased
Peripheral blood flow	9 cm/H ² 0	Decrease in supine position
Venous return	_____	Decrease in supine position to 4-6cm/H ² 0
CVP	_____	Grade I-II/IV number:S ³
Heart sounds		T-waves flattened or
Electrocardiogram		Inverted in lead III V & V ² ;
Hematologic		Q-waves in leads III & AVF
Blood volume	4000 mL	Increase by 30% - 50%
Plasma	2400 mL	Increase to 3700 mL
Hemoglobin	12-16 gm/dL	Decrease to 10-14 gm/dL
Hematocrit	37% - 48%	Decrease to 32 - 42%
WBC	4500-10,000 mm	5000-14,000 mm
Platelets	150,000 - 350,000	Normal or slight decrease
Fibrinogen	300 mg/100 mL	Increase to 600 mg/100mL
Coagulation factors	_____	Increase to 600 mg/100mL
Respiratory		Omcrease factprs VII-III,IX,X, XII
Tidal volume	500 mL	Increase by 40% (700 mL)
Residual volume	1200 mL	Increase by 40% (720 mL)
Respiratory rate	12 - 20 breaths/min	Increased
pH	7.38-7.44	Increased to 7.41-7.46
po ²	95-100 mm Hg	Increased to 100-108 mm/Hg
pco ²	35-45 mm Hg	Increased to 27-32 mm/Hg
Hco ³	24-30 mM/L	Increased to 19-25 mM/L
Base excess	0.7 mEq/L	3-4 mEq/L
Metabolic		
Serum electrolytes		
Sodium	135-145 mEq/L	132-140 mEq/L
Potassium	3.5-5.0 mEq/L	3.5-4.5 mEq/L
Chloride	100-106 mEq/L	90-105 mEq/L
Bicarbonate	24-30 mEq/L	17-22 mEq/L
BUN	10-18 mg/dL	4-12 mg/dL
Creatinine	0.6-1.2 mL/min	0.4-0.9 mL/min
Creatinine clearance	3.5-5.0 mL/min	2.0-3.5 mL/min
Alkaline phosphatase	13-35 IU/mL	25-80 IU/mL (placental production)
Albumin	3.5-5.0 g/dL	3.0-4.5 g/dL
Triglycerides	45-150 mg/dL	230 mg/dL