Lab Dept:	Chemistry
Test Name:	
General Information	
Lab Order Codes:	СОНВ
Synonyms:	Carboxy Hgb; Carbon Monoxide
CPT Codes:	82375 – Carbon monoxide (carboxyhemoglobin); quantitative
Test Includes:	Carboxyhemoglobin concentration reported as a % of total hemoglobin.
Logistics	
Test Indications:	Carbon monoxide has a much greater binding affinity for hemoglobin than does oxygen. Carboxyhemoglobin is a hemoglobin-carbon monoxide complex. Carbon monoxide is normally generated in small quantities from the catabolism of heme. Common exogenous sources include cigarette smoke, automobile exhaust, and poorly ventilated home heating units.
Lab Testing Sections:	Chemistry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	30 minutes
Special Instructions:	Capillary tube samples will not be accepted. See Collection.
Specimen	
Specimen Type:	Whole blood
Container:	Sims Portex [®] syringe (PB151) or Smooth-E syringe (956-463) or Green (Li Heparin) top tube
Draw Volume:	Preferred: 0.4 mL in Sims or Smooth-E syringe Alternate: Completely filled green (lithium heparin) top tube, 2.7 mL of blood in a 3.0 mL tube.
Processed Volume:	0.2 mL whole blood

Collection:	Routine venipuncture. Do not expose specimen to air. Immediately remove all air from blood gas syringe, remove needle, cap tightly, and mix. Keep syringe/tube stoppered to avoid exposure of specimen to atmosphere. Forward promptly at ambient temperature only.
Special Processing:	Lab Staff: Deliver carboxyhemoglobin specimen to the blood gas workstation for testing. Specimens should be analyzed within one hour of collection.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen; samples containing air; capillary tubes, clotted specimens
Interpretive	
Reference Range:	0.0 – 1.5%
Critical Values:	N/A
Limitations:	N/A
Methodology:	Oximetry
References:	Tietz (1999) Textbook of Clinical Chemistry, 3rd edition, Philadelphia, WB Saunders Co, pp 918, 1662
	ABL800 FLEX Operator's Manual from software version 6.14, Publication: 201410, Edition: E, Code number: 994-909, <u>www.radiometer.com</u>
	ABL90 FLEX Operator's Manual from softare version 3.1xx Publication 201403, Edition H, Code number 996-656
	Jacobs & DeMott Laboratory Test Handbook, Lexi-Comp, Inc, Hudson, OH, 5th Edition, 2001
Updates:	9/4/14: Turnaround time update, previously listed as 1 hour. References update.