





Pathology and Laboratory Medicine

Orderable - COOX

Turnaround Time: 4 hours STAT: 30 minutes





Laboratory: Core Lab

METHB Carboxyhemoglobin COHB Carbon Monoxide COOX

Methemoglobin



Requisition:GENERAL LABORATORY
REQUISITION

Specimen:

Heparinized blood gas syringe or 4.5 mL Green (Lithium Heparin) top vacutainer tube.



Method of Analysis:

GEM Premier 5000 Blood Gas Analyzer

 Optical Measurement following chemical lysing and mixing of the whole blood sample: Cooximetry for Hemoglobin, Methemoglobin, Carboxyhemoglobin, Oxyhemoglobin and Deoxyhemoglobin

Please note that the measured %saturation (sO2) overestimates oxygenation status in the presence of dyshemoglobins (carboxyHb & metHb) and may result greater than 100%.

Collection Information:

Pediatric (whole bood)

Samples need to be collected in a 1 mL heparinized syringe.

Capillary blood gas collection tubes and Lavender (EDTA) top tubes are **NOT** acceptable

Labeling:

Put small Cerner label on syringe and place in biohazard bag with large Cerner label in the outside pocket of the biohazard bag.

Transport:

Send to the lab immediately

Do NOT freeze.

Do NOT centrifuge

Specimen is stable for 5 minutes at room temperature for glucose or 30 minutes in a biohazard bag containing ice slurry.





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CO OXIMETRY



Test Schedule: As required

Reference Ranges:

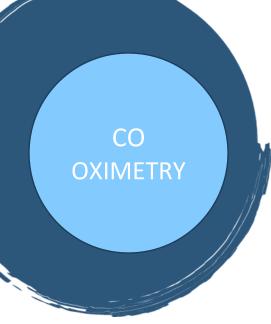
Whole Blood, Adult	Age Range	Male	Female
Hemoglobin Hb	birth-1 month	150-250	150-250
	1 month-2 years	100-140	100-140
	2 years-10 years	110-160	110-160
	10 years-18 years	125-160	120-150
	18 years- adult	135-170	115-160
Oxygenated Hemoglobin ;O2Hb	(all)	95-98	95-98
CarboxyHe moglobin; COHb	Non- smoker, all	<1.5	<1.5
	Smokers all:		
	1-2 packs/day	1.5-5.0	1.5-5.0
	>2 packs/day	5.0-9.0	5.0-9.0
MetHemogl obin: MetHb	(all)	0.4-1.2	0.4-1.2
Deoxygenat ed Hemoglobin (HHb)	(all)	0-5	0-5
Hematocrit, calculated	(all)	0.37-0.48	0.34-0.48

Carboxy Hemoglobin; COHb

Toxic: >20% Lethal: >50%

Hb (g/L)

Critical Low: 70 Critical High: 200







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Storage and Shipment:

- Send to the lab immediately
- Do NOT freeze.
- Do NOT centrifuge