

Freiburg Medical Laboratory ME LLC, P.O.Box 3068, Dubai



## Carboxy Hemoglobin

General:

Biochemistry: Main causes of carbon monoxide poisoning are car emissions ("garage death"). The pathological effect of CO is based on its up to 240- times higher affinity to the binding sites of hemoglobin than O2 itself. Due to the reversibility of this reaction the functionality of hemoglobin can be restored by respiration of CO free air or pure oxygen.

Symptoms: HbCO concentrations (< 20%): headaches, malaise, palpitation of the heart. HbCO concentrations between 20 and 60% can lead to dizziness, unconsciousness, dropping body temperature, paralyses, circulatory collapse and Cheyne-Stokes' breathing, cherry-red appearance of blood and tissue. HbCO > 70% can lead to death.

- Therapy: Inhaling CO-free air, artificial respiration if needed, no intake of central analeptics, supply of pure oxygen, antibiotic prophylaxis, normalizing circulation and body temperature, correction of acidosis.
- Indication: CO poisoning, smokers
- Material: 1 ml EDTA blood
- Preanalytics: Send protected from light! Seal with parafilm. Stability 24 hours only.
  - TAT: 7-10 days\*
  - Method: photometric
    - Units: %
  - Ref.- range: up to 2.0

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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Freiburg Medical Laboratory ME LLC is accredited according to DIN EN ISO 15189.

Updated 24/03/2022