

University of California, San Francisco-Dept of Laboratory Medicine
Zuckerberg San Francisco General Hospital - Point of Care Testing
1001 Potrero Ave, Bldg 25, SF, CA 94110
Barbara Haller, MD, PhD, Laboratory Director

Point of Care Testing: Blood Gas Testing performed on the GEM4000 Premier Analyzer; upgraded to GEM5000 Premier Analyzer on 6/28/2022

UNIT: ICU Units (Cardiac, Neuro, Medical and Surgical/Trauma ICUs)

Date: 2-11-21



Ashish Agrawal, M.D.
Respiratory Care Services Medical Director



Barbara Haller, MD, PhD
Lab Director, ZSFG-POCT

Clinical Indication

To assess

- Adequacy of ventilation
- Adequacy of oxygenation
- Acid-Base status
- Cardiopulmonary function

Respiratory Care Practitioners are responsible for performing this task per physician order

Documentation

The results will be electronically transferred to the Electronic Medical Record.

Clinical Action

- If the ABG or COOX results are outside of the acceptable range as ordered by a physician or based on ZSFG's approved critical values, the Respiratory Care Practitioner notifies the patient's physician, documenting the date, time and name of the physician notified.
- All results are reviewed by the patient's physician.
- Therapeutic changes are made to the mechanical ventilator or oxygen delivery device to correct blood gas values that are out of range.