Lab Dept: Chemistry
Test Name: ARTERIAL BLOOD GAS (ABG), PUMP

General Information
Lab Order Codes: ABGP
Synonyms: Arterial blood gas
CPT Codes: 82803 – Gases, blood, any combination of pH, pCO2, pO2, CO2, HCO3 (including calculated O2 saturation)
Test Includes: pH (no units), pCO2 and pO2 measured in mmHg, sO2 and O2AD measured in %, HCO3 and BE measured in mmol/L, Temperature (degrees C) and ST (specimen type)

Logistics
Test Indications: Useful in determining arterial oxygen saturation of the patient during certain procedures such as ECMO or heart surgery.
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: For use by ECMO or surgery only. Specimen must arrive within 30 minutes of draw.

Specimen
Specimen Type: Whole blood
Container: Preferred: Sims Portex® syringe (PB151) or Smooth-E syringe (956-463)
Draw Volume: 0.4 mL blood
Processed Volume: 0.2 mL blood
**Collection:** Specimen is obtained from the ECMO Pump.

Draw blood into blood gas syringe. **Immediately** remove all air from syringe, remove needle, cap tightly, and mix. Send in original collection device. Forward immediately at ambient temperature only. **Do Not Expose Specimen To Air.**

**Special Processing:** Lab Staff: Do not centrifuge. Specimen should be delivered to blood gas workstation for analysis and analyzed within 30 minutes of collection.

**Patient Preparation:** None

**Sample Rejection:** Clotted sample; mislabeled or unlabeled specimens

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**Interpretive**

**Reference ranges:** N/A

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Ion-Selective Electrode, HCO3 and BE by calculation

**Contraindications:** This test is not indicated for general patient assessment.

**References:**
- ABL800 FLEX Operator’s Manual from software version 6.00
- Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp