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
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:	ABL90 FLEX Operator's Manual from software version 3.1xx Publication 201403 Edition H, Code 995-646
	Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp
	Tietz Textbook of Clinical Chemistry (1999) 3rd Edition