Lab Dept:	Chemistry
Test Name:	VENOUS BLOOD GAS (VBG), PUMP
General Information	
Lab Order Codes:	VBGP
Synonyms:	Venous blood gas; Venous pump gas
CPT Codes:	82803 – Gases, blood, any combination of pH, pCO2, pO2, CO2, HCO3 (including calculated O2 saturation)
Test Includes:	VpH (no units), VpCO2 and VpO2 measured in mmHg, VsO2 and VO2AD measured in %, HCO3 and BE measured in mmol/L, Temperature (°C) and ST (specimen type)
Logistics	
Test Indications:	Useful in determining venous 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	
Specimen Type:	Whole blood, pump
Container:	Preferred: Sims Portex [®] syringe (PB151) or Smooth-E syringe (956-463)
Draw Volume:	0.4 mL (Minimum: 0.2 mL) blood
	Note: Submission of 0.2 mL of blood does not allow for repeat analysis.
Processed Volume:	0.2 mL blood per analysis

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 one hour of collection.
Patient Preparation:	None
Sample Rejection:	Clotted sample; mislabeled or unlabeled specimen; sample containing air
Interpretive	
Reference Range:	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:	Children's Hospitals and Clinics ECMO Program, October 2004
	ABL90 FLEX Operator's Manual from software version 3.1xx Publication 201403 Edition H Code 995-656
Update:	7/14/2005: Added clarification on draw volume for repeat analysis.