Lab Dept:	Chemistry
Test Name:	GLUCOSE, PUMP
General Information	
Lab Order Codes:	GLUCP
Synonyms:	Blood Sugar, Pump
CPT Codes:	82947 – Glucose; quantitative, blood
Test Includes:	Glucose concentration reported in mg/dL.
Logistics	
Test Indications:	Useful for determining the glucose of the pump prime solution prior to 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:	1 hour
Special Instructions:	N/A
Specimen	
Specimen Type:	Whole blood, pump
Container:	Heparin blood gas syringe
Draw Volume:	0.6 mL blood
Processed Volume:	0.2 mL blood
Collection:	The specimen is collected from the ECMO pump.
	Draw in an electrolyte-balanced heparin blood gas syringe. Immediat remove all air form syringe, remove needle, cap tightly, and mix. Sen specimen in original tube. Forward promptly at ambient temperature

Special Processing:	Lab Staff: Do not centrifuge. Specimen should be delivered to blood gas workstation for analysis.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen; clotted specimen
Interpretive	
Reference Range:	Reference ranges have not been established for pump samples.
Critical Values:	All ages: <50 or >300 mg/dL
Limitations:	Glucose concentrations are decreased by excess hemolysis, excess bilirubin and excess lipemia.
Methodology:	IRMA/RADIOMETER 825:Ion-Selective Electrode (ISE): ABBOTT: Enzymatic
Contraindications:	This test is not indicated for general patient assessment.
References:	Tietz (1999) Textbook of Clinical Chemistry, 3 rd edition, Philadelphia, WB Saunders Co, p 750
	Children's Hospitals and Clinics, May 2009
	See Glucose for updated references
Updates:	8/19/2009: TAT previously listed as 2 hours. 10/18/2019: New backup instrumentation