





Pathology and Laboratory Medicine

# Orderable - OSMU / OSMS

Turn Around Time: 2 hours STAT: 1 hour

# **Specimen:**

Random urine collected in a sterile container or 5 mL Gold or	
4.5 mL Green top Vacutainer	
Pediatric:	
0-2 years: 1 mL Red Microtainer	
2-10 years: 2 mL Red top tube	

## **Collection Information:**

Collect urine sample in a sterile container.

Collect blood aseptically in a Vacutainer tube.

A minimum volume of 1 mL is required for testing.

### **Reference Ranges:**

Urine:	Serum/Plasma:
300-900 mOsm/Kg	275-295 mOsm/Kg

# **Interpretive Comments:**

Useful in suspected poisoning with alcohol, methanol, ethylene glycol, acetone, isopropanol, diethyl ether or paraldehyde.

Comparing serum and urine osmolalities may help to determine the cause of polyuria, to diagnose SIADH and to distinguish 'pre-renal' from 'renal' causes of impaired renal function.



**Laboratory:** Core Lab



Requisition:

GENERAL LABORATORY REQUISITION



#### Method of Analysis:

Freezing point depression. Advanced Micro Osmometer 3320 (@SJH) and Advanced Instruments A2O Automated Osmometer (@UH/VH).



# Test Schedule:

As required