Lab Dept: Urine/Stool

Test Name: CHLORIDE, RANDOM URINE

General Information

Lab Order Codes: UCLR

Synonyms: Cl, Random Urine; Chloride, Random Urine

CPT Codes: 82436 – Chloride, urine

Test Includes: Urine chloride concentration in mmol/L.

Logistics

Test Indications: Chloride is the major extracellular anion which is filtered from the plasma by the kidney glomeruli and is passively reabsorbed in the proximal tubules. Useful in the evaluation of kidney function. An indicator of fluid balance and acid-base homeostasis.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days

Special Instructions: N/A

Specimen

Specimen Type: Urine, random collection (No preservative)

Container: Plastic leakproof container (No preservative)

Draw Volume: 1 - 5 mL from a random urine collection

Processed Volume: 1 – 5 mL (Minimum: 0.5 mL) urine

Collection:	A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.
Special Processing:	N/A
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	No reference ranges established for random urine samples Interpret with other clinical data. Interpretation: Urine sodium and chloride excretion are similar and, under steady state conditions, both the urinary sodium and chloride excretion reflect intake of sodium chloride (NaCl). During states of extracellular volume depletion, low values indicate appropriate renal reabsorption of these ions, whereas elevated values indicate inappropriate excretion (renal wasting). Urinary sodium and chloride excretion may be dissociated during metabolic alkalosis with volume depletion where urine sodium excretion may be high (due to renal excretion of NaHCO3) while urine chloride excretion remains appropriately low.
Critical Values:	N/A
Limitations:	High urine values of other halide ions (eg, bromide, fluoride, iodide) may lead to falsely high readings on the chloride ion-selective electrode (ISE).
Methodology:	Potentionmetric, Indirection-Selective Electrode (ISE)
References:	Mayo Clinic Laboratories October 2020
Updates:	10/20/2020: Testing moved from inhouse test to Mayo.