Calculi testing at ARUP Laboratories

References


ARUP offers a comprehensive menu to assess patients with kidney stone disease. **Calculi stone testing is especially effective in two areas:**

1. Assessing and monitoring the risk of stone formation (urine studies)
2. Evaluating stone composition

This testing provides valuable information to determine appropriate treatment and the course of patient care.

Epidemiology

- It is estimated that 1 in 10 individuals will develop kidney stones in their lives.
- The risk of kidney stones is around 9% in women and 11% in men in the United States.
- For those individuals who have experienced kidney stones, there is a 50% increased risk of additional development within 5 to 7 years.
- Incidence of this disease is rising and estimated to cost $5.3 billion per year in healthcare dollars.

ARUP has designed efficient urine panels that assess stone-forming risk, monitor the course of therapy, and reduce testing expenses.

**Benefits of Calculi Testing at ARUP**

- ARUP has designed efficient urine panels that assess stone-forming risk, monitor the course of therapy, and reduce testing expenses (ARUP test codes 2008771, 2008708, 0020843).
- ARUP has developed in-house technology for stone processing, which reduces errors and decreases turnaround time.
- A full stone analysis with a photo is available through ARUP’s enhanced reporting system.
- Enhanced graphical reports are available for Calculi Risk Assessment (2008708), Supersaturation Profile (2008771), and Calculi (Stone) Analysis with Photo (2005231).

**Available Laboratory Testing**

<table>
<thead>
<tr>
<th>Test Code and Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Evaluation of Stones</strong></td>
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<tr>
<td>0099460 Calculi (Stone) Analysis</td>
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<tr>
<td>2005231 Calculi (Stone) Analysis with Photo</td>
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<tr>
<td><strong>Diagnose or Monitor Cystinuria (A Rare Genetic Disease)</strong></td>
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<tr>
<td>0081105 Cystinuria Panel</td>
<td>Use to diagnose or rule out cystinuria.</td>
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<tr>
<td>0081106 Cystine Quantitative, Urine</td>
<td>Use for monitoring treatment of patients previously diagnosed with cystinuria.</td>
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<tr>
<td><strong>Evaluation of Stone Risk</strong></td>
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<tr>
<td>0020843 Kidney Stone Risk Panel, Urine</td>
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<tr>
<td>2008708 Calculi Risk Assessment, Urine</td>
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<td>2008771 Supersaturation Profile, Urine</td>
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**Calcium**

**Citric Acid**

**Oxalate**

**Uric Acid**

**Creatinine**

**Chloride**

**Magnesium**

**pH**

**Phosphorous**

**Potassium**

**Sodium**

**Sulfate**

**Relative supersaturation (stone formation risk calculation):**

- Calcium oxalate
- Calcium phosphate (Brushite)
- Uric acid