# Urea and Electrolytes (24 Hour Urine)

**Synonyms:** U&E

## Specific Information

<table>
<thead>
<tr>
<th>Laboratory</th>
<th>Biochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specimen type</strong></td>
<td>Urine</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td></td>
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<tr>
<td>- Standard</td>
<td></td>
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<tr>
<td>- Paediatric</td>
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<tr>
<td>- Neonates</td>
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<tr>
<td>24 hr urine container</td>
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</tbody>
</table>

## Clinical information

Please supply sufficient clinical information necessary for test interpretation

## Special considerations and limitations

Follow instructions provided in the patient information leaflet

## Reference ranges

- **Urea:** 430 - 710 mmol/24hr
- **Creatinine:**
  - Male: 7.1 - 17.7 mmol/24hr
  - Female: 5.3 - 15.9 mmol/24hr
- **Sodium:** 40 - 220 mmol/24hr
- **Potassium:** 25 - 125 mmol/24hr
- **Chloride:** 110 - 250 mmol/24hr
- **Critical values:** N/A

## Clinical significance of test

24 hour urea and electrolytes have limited application. The specimen was originally used to measure creatinine clearance, although this has largely been superseded by estimated glomerular filtration rate (eGFR). Assessment of renal electrolyte loss can usually be adequately identified from a spot urine sample taken in parallel with a serum sample. Results should be discussed with the laboratory.

## Availability of testing

- **Routine:** 24 hours
- **Urgent:** No

## Turnaround time

- **Routine:** <24 hours

## General Information

### Volume / quantity requirements

### Transportation

### Storage

Samples should be transported to laboratory as soon as possible after collection.

### Information for patients

Please see [labtestsonline.org.uk](http://labtestsonline.org.uk) or [Patient information leaflet](http://labtestsonline.org.uk)