

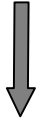
# Flowchart for urea and creatinine

(Hospital)

**NB. As with other biochemistry, compare with previous results. Is there a large acute change in results or a gradual change?**

Reference ranges		
	Male	Female
Urea (mmol/l)	2.3 - 7.7	2.0 - 6.8
Creatinine (umol/l)	66 - 118	51 - 96

Increased plasma urea



Check the plasma creatinine result

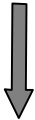


**Normal creatinine**

**Dehydration**  
**High protein intake**  
**Possible GI bleed**

**Elevated creatinine**

**Renal failure**



Other blood tests required

**Potassium** - may require treatment if elevated  
**Phosphate** - likely to be elevated  
**Bicarbonate** - likely to be acidosis  
**Calcium**  
**Creatine kinase**  
**FBC**  
**Immunology screen** –autoAb, complement etc  
**Immunoglobulins and ESR**

**Check**

**Previous disease** - vascular, DM...  
**Drugs** - ACEI, aminoglycosides...  
**Fluid balance** - ?hypovolaemia, urine output, BP...  
**Infection** - blood cultures  
**Urinalysis** – protein, blood, electrolytes, microscopy  
**Urinary tract obstruction** - ultrasound