

Urinalysis

Test	Normal	Elevates	Decreases
Protein	Negative	Nephrotic Syndrome, HTN, DM, Fever	
Haematuria	Negative	Nephritic Syndrome, Infection, polycystic kidney disease, Calculi, Ciprofloxacin, NSAIDs, Frusemide	
Glucose	Negative	DM	
Ketones	Negative	Ketoacidosis, starvation	
Nitrites		UTI	
Leukocytes		UTI, vaginal discharge	
Leukocyte Esterase		Surrogate marker for WBCs	
Conjugated Bilirubin	Negative	Obstructive or Intrahepatic Jaundice	
Urobilinogen	Trace	Prehepatic Jaundice, Hepatic Jaundice	Obstructive Jaundice
pH	5.5-6.5	Alkalosis, UTI	Acidosis, DM, Diarrhoea, Starvation
Specific Gravity	1.002 - 1.0035	Dehydration, Liver failure, CCF, nephrotic syndrome, glycosuria, proteinuria	Excessive hydration, diabetes Insipidus

Patterns of Disease

- **Nephrotic Syndrome**
 - Proteinuria
 - Frothy Urine
- **Nephritic Syndrome**
 - Haematuria
 - RBC casts
- **Obstructive Jaundice**
 - Positive Bilirubin
 - Low/Absent Urobilinogen
- **Prehepatic Jaundice**
 - Elevated Urobilinogen
- **Intrahepatic Jaundice**
 - Positive Bilirubin
- **Dehydration**
 - Elevated Specific Gravity
- **UTI**
 - Elevated Nitrites
 - Elevated Leukocytes
- **Diabetes Mellitus**
 - Elevated Glucose
 - Acidotic

- Elevated specific gravity
- (Few or no RBC casts)
- Proteinuria
- RBCs
- Dark Urine
- Elevated Urobilinogen
- Alkalotic
- Elevated Leukocyte Esterase
- Proteinuria
- Elevated Specific Gravity