MULTISTIX URINALYSIS (see instructions for urine collection and analysis procedure)	
Testing for glycosuria, result should be negative	pancreatitis, shock or severe pain, hyperthyroidism, phaeochromocytoma, acromegaly and Cushings syndrome.
	Notes: Samples taken 2 hours after eating may help identify milder cases of diabetes.
BILIRUBIN Testing for bilirubinuria and therefore hyper-	<b>Positive/presence:</b> Positive results imply hepatobiliary disease. Bilirubin may appear in the urine before other signs of abnormality are present.
bilirubinanaemia	Absence/negative: In jaundiced patient: suggests haemolysis.
	Notes: Phenothiazides and chlorpromazide may give false positive results.
KETONES Testing for ketonuria	Positive/presence: Positive results are likely in uncontrolled diabetes, reduced carbohydrate diet or severe vomiting or diarrhoea. Can be found in severe eclampsia, trauma, fever and chloroform anaesthesia. Most significant when ketonuria is found with glycosuria.  Notes: Phenolphthalein, bromsulphtalein and L-dopa metabolites give false positives.
SPECIFIC GRAVITY	Low: Implies renal abnormality or continuous high fluid intake.
Concentration of urine or osmolality	Normal: values fluctuate and are around S.G. 1.021. Fixed results may indicate renal failure.
	High: possible dehydration or simply good concentrating ability.
	Notes: Pre-breakfast sample provides the most accurate reading.
BLOOD Haematuria is usually serious (unless	Positive/presence: (Trace): Renal or urological disease or UTI. Trade amounts are usually least serious increased amounts on a + scale of 1-3.
menstrual blood)	Positive/presence: (Large): Urine may be red, smoky and reddish brown Positive/presence: (Non-haemolysed): consider renal, bladder or prostatic carcinoma, occasionally in prostatic hyperplasia.

	<b>Notes:</b> Urine colour can be affected by variety of substances such as beetroot, dyes, vitamins and phenolphthalein.
PH Range of values from	<b>Strongly alkaline:</b> A value of more than 8 may indicate a stale urine sample, however check against nitrites and leucocytes for infection.
neutral to acidic	<b>Strongly acidic:</b> May indicate uncontrolled diabetes/starvation/dehydration - check against glucose and ketone results.
	Notes: Normal range 5-6
PROTEIN	Positive/presence: (Trace) Small amounts of protein show as a "trace" larger amounts on a + scale of 1-
Test for albumins and globulins present in	3. Small amounts indicate UTI, haematuria, heart failure and malignant hypertension.
urine, normally negative	Positive/presence: (Large): Chronic renal disease such as nephrotic syndrome and glomerular disease.
	Consider orthostatic proteinuria in healthy children or adolescents. False positives may occur in very alkaline urine or if collection receptacle is contaminated.
	Notes: Concentrated early morning urine samples are best for detecting protein.
UROBILINOGEN	Positive/presence: Elevated levels in hepatic dysfunction e.g. partial biliary obstruction/pyrexia/ cardiac
Normally present but	failure (bilirubin present). Raised levels of urobilinogen in haemolytic disease (bilirubin not present).
within "normal values"	Urobilinogen is readily oxidised on exposure to air at room temperature therefore only fresh samples are valid.
	Notes: Diurnal variation shows urobilinogen at highest in the afternoon.
NITRITE	Positive/presence: Presence indicates UTI
	<b>Notes:</b> Sample from urine that has been in bladder for at least 4 hours to allow bacteria to convert nitrates
	into nitrites. Only detects gram-negative bacteria.
LEUCOCYTES	Positive/presence: Presence indicates genito-urinary infection
	Notes: When present without nitrites consider vaginal or urethral discharge or more serious renal disease.

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