

Urinalysis Cheat Sheet by hjsdhaj via cheatography.com/201639/cs/42999/

Clinical Findings:

- If blood glucose is normal but urine glucose is high \Rightarrow Glucose is not being reabsorbed \Rightarrow Problem with proximal tubule \Rightarrow will also cause a high phosphatemia
- Conjugated bilirubin in urine ⇒ liver disease or common bile duct is obstructed ⇒ No urobilinogen
- · Unconjugated bilirubin isn't water soluble, can't be found in the urine
- Leukocytes ⇒ Can be caused by a kidney infection/UTI
- Nitrite > Indicative of gram negative kidney infection
- Protein ⇒ Should never be in urine ⇒ Glomerular damage ⇒ Should always be checked in HTN and DM patients
- pH abnormality > Diabetic Ketoacidosis
- · Blood:
- ➤ Macroscopic ⇒ Red colour in urine
- ➤ Microscopic ⇒ Not visible to the naked eye
- ➤ If blood is present in urine ⇒ test for pyruvate, test for myoglobin/haemoglobin
- ▶ Myoglobin = muscle breakdown (Rhabdomyolysis), i.e. after heavy exercise
- Specific Gravity ⇒ Reflects hydration, will be elevated if anything is present in urine, i.e. glucose, etc.
- Ketones ⇒ Found in anorexics, starvation, diabetes, etc. ⇒ breakdown of fat
- ➤ Ketones can cross the blood brain barrier in pregnant women ⇒ Can hurt the foetus

Children present with Kussmaul's breathing, metabolic acidosis ⇒ Respiratory alkalosis, there is a spike in presentations in 20 year olds

What would be the next test be after detecting a high glucose in urine?

➤ A blood glucose test

Diabetics and patients with Hypertension need urine analysis often

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Introduction:	
W	Wash Hands
I	Introduce Yourself + Patient's Identity
Р	Permission
Р	Patient Position + Pain
E	Explaination

Instructions

Put on gloves and place tissue paper on desk

Identify urine sample and check patient identity matches

Inspects urine and comments on colour Comment on obvious blood

Examine for cloudiness/sediment Ensure to mention this

Check expiry date on dipsticks

Take out dipstick and immediately close container

Immerse all pads of dipsticks in urine

Do not spill urine

Remove dipstick and start timer

Place dipstick *horizontally* on tissue paper

Compare pads to the container at the correct times without touching against the container

Dispose of waste appropriately in medical waste bin

Wrap urinalysis stick in tissue, fold into glove, fold both into second

glove

Wash hands

Report abnormalities present in urine, link to appropriate clinical case, and answer any relevant questions



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