

Bio Factsheet



September 1997

Number 1

The kidney: excretion and osmoregulation

Kidneys have two main functions.

1. They are excretory organs, removing nitrogenous and other waste from the body.
2. They play an important part in maintaining a constant internal environment by helping to regulate pH, water and sodium ion concentrations in the blood and tissues. This Factsheet will focus on the role of the kidney in excretion and osmoregulation.

Excretion

Surplus nitrogen-containing compounds such as amino acids have to be broken down in the body because they are toxic and are then excreted as ammonia, urea or uric acid (Table 1).

Table 1. Nitrogenous excretory products

Excretory product	Source
Urea	Deamination of amino acids via the ornithine cycle in the liver
Uric acid	Deamination of purines (adenine and guanine)
Ammonia	Deamination of amino acids. Ammonia is secreted into the urine by cells in the kidney tubule

Exam Hint - Don't confuse urea and urine. Urea is made by the deamination of amino acids in the liver. Urine is the fluid produced by the kidneys.

Some important biological properties of these three substances are summarised in Table 2.

Table 2. Biological properties of excretory products.

	Ammonia	Urea	Uric acid
Solubility	Very high	High	Very low
Amount of water necessary to remove from body	Very large	Medium	Very little
Toxicity	High	Medium	Low
Molecules of ATP needed	0	4	8

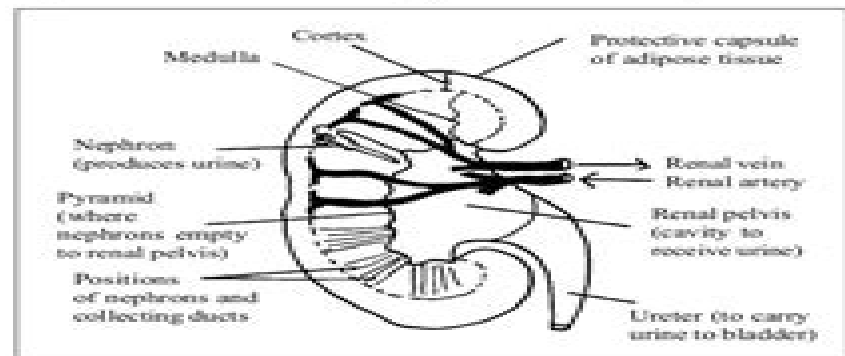
From this you can work out that:

- Freshwater fish excrete ammonia. Although it is very poisonous, fish are surrounded by large amounts of water so the ammonia can easily be diluted to safe levels.
- Mammals excrete nitrogen mainly as urea. Urea requires more energy in the form of ATP for its production but is much less toxic than ammonia and fairly soluble. It therefore does not require large amounts of water to remove it from the body.
- Birds excrete nitrogen mainly as uric acid. Flight demands a low body mass. Removing nitrogenous waste as uric acid means that large amounts of water are not required. Insects also excrete uric acid. As they are so small, they are very prone to water loss so it is important that they do not lose large amounts of water in excreting nitrogenous waste.

Basic kidney structure

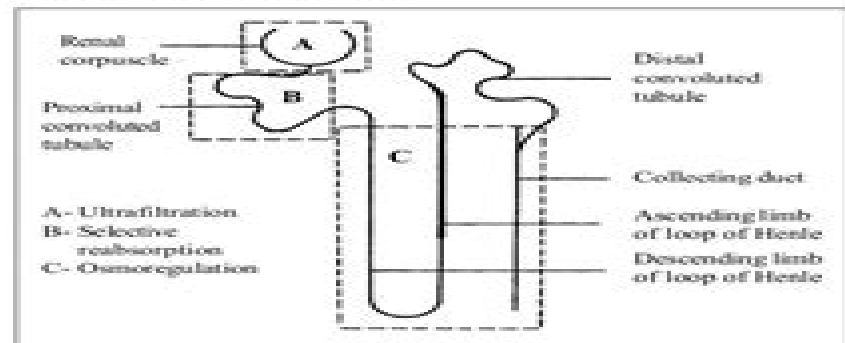
The basic structure of the mammalian kidney is shown in Figure 1.

Figure 1. Vertical section through mammalian kidney.



Each kidney contains a million coiled tubes called nephrons and it is in the nephron that urine formation occurs. Each nephron is divided into a number of distinct regions with particular functions labelled A, B, C (Figure 2).

Figure 2. The kidney nephron



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