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NURSING

PHS 212

URINE FORMATION AND CONCENTRATION

1. The glomerulus filters water and other substances from the bloodstream.

2. The filtration membrane keeps blood cells and large proteins in the bloodstream.

3. Reabsorption moves nutrients and water back into the bloodstream.

4. Waste ions and hydrogen ions secreted from the blood complete the formation of urine.

5. Urine is 95% water.

Concentration

 The loop of Henle is critical to the ability of the kidney to concentrate urine. The high concentration of salt I the medullary fluid is believed to be achieved in the loop by a process known as countercurrent exchange multiplication. This resorptive capacity in the ducts is regulated by antidiuretic hormone (ADH)