Urinary System Functions

- Excrete nitrogenous wastes
- Regulate blood volume
- Regulate blood electrolytes
- Regulate blood pH

Organs of Excretion

- Skin excretes water and salts in perspiration.
- Lungs excrete carbon dioxide as a gas.
- Liver excretes bile pigments in bile.
- Kidneys excrete nitrogenous wastes in urine.
Urinary System

1. Kidneys produce urine.
2. Ureters transport urine.
3. Urinary bladder stores urine.
4. Urethra passes urine to outside.

Female Urinary Tract

- kidney
- ureter
- rectum
- bladder
- pubic symphysis
- vagina
- urethra

Male Urinary Tract

- kidney
- ureter
- rectum
- bladder
- prostate gland
- pubic symphysis
- penis
- urethra
Tubular Reabsorption

Materials reabsorbed
- glucose
- water
- amino acids
- salts
Characteristics of Normal Urine

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>1-2 liters/day</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow or amber</td>
</tr>
<tr>
<td>Turbidity</td>
<td>Transparent</td>
</tr>
<tr>
<td>Odor</td>
<td>Mildly aromatic</td>
</tr>
<tr>
<td>pH</td>
<td>4.6 - 8.0 (Avg 6.0)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.001 - 1.035</td>
</tr>
</tbody>
</table>
The End.