

Checklist

What you should know

After studying this subtopic you should be able to:

- Define the concept of homeostasis in relation to specific examples of variables.
- Explain the role of negative feedback mechanisms in maintaining homeostasis.
- Outline the role of pancreatic hormones in regulating blood glucose.
- Outline the role of negative feedback mechanisms in regulating blood glucose.
- Describe the physiological changes that form the basis of type 1 and type 2 diabetes.
- Describe the roles of thermoreceptors and hypothalamus in regulating body temperature.
- Outline the mechanisms in regulating human body temperature.

Higher level (HL)

- Define osmoregulation and excretion.
- Explain the roles of the glomerulus, Bowman's capsule and proximal convoluted tubule in excretion.
- Outline the functions of the loop of Henle and collecting ducts.
- Explain the effect of ADH on the permeability of the kidney tubules.
- Describe examples of changes in blood supply in response to changes in activity.

