6

Metabolic Disorders

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Short answer questions

1. In what way does the metabolism of fructose differ from that of glucose, and what are the possible consequences?

2. A low energy intake is associated with enhanced longevity in animal models. Discuss the possible mechanisms.

3. An ectopic fat deposition (i.e. deposition of triglyceride within the cytoplasm of non-adipose cells, such as muscle fibres or hepatocytes) can be associated with insulin resistance. What are the possible mechanisms by which ectopic fat can decrease insulin’s actions?