More glucose

Substrate for gluconeogenesis: requires energy

Lactate

Increased fatty acid oxidation

Inflammatory Cytokines

Increased insulin resistance:
- less glucose consumption
- less glycogenesis

Inflammatory Cytokines

Proteolysis

Amino acids for gluconeogenesis and synthesis of acute-phase proteins

Cachexia

Early stage

Late stage

Lipolysis

Increased fatty acid oxidation