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The link between GnT-4a enzyme production and diabetes

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Purpose: The cause of diabetes consists of various co-factors. One of the most common factors is diet. Research has shown a connection between high fat diets interfering with the genetic mechanism of insulin production leading to the classic signs of diabetes. The purpose of this research is to examine the GnT-4a enzyme and understand the relation between the enzyme and diabetes.

Methods: This research was established by conducting PubMed and Ovid literature searches. I examined both primary and tertiary literature for this project.

Biography

Sugiti Routh is a PharmD graduate from MCPHS University in Boston. She is currently pursuing her MBA and working in community pharmacy. She wants to continue gaining experience and learning as much as she can throughout her healthcare professional journey.

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Conclusions: Through countless studies, there is a direct correlation to the GnT-4a enzyme and the production of insulin. Due to a person's diet, that can impact the production of enzyme which will ultimately influence insulin production. The key role of the GnT-4a enzyme is to maintain glucose transporters in place on the surface of the beta cell. After conducting research, it has been shown that a high fat diet will decrease the production of the enzyme which leads to pancreatic beta cell failure which leads to type 2 diabetes.

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