Predicting Glucoregulatory Dysfunction

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing a method for identifying individuals at risk for glucoregulatory dysfunction associated with metabolic syndrome, prediabetes or Type II (adult onset) diabetes.

Overview

The term glucoregulatory dysfunction covers a spectrum of disorders from insulin resistance to prediabetes and diabetes. Problems associated with glucoregulatory dysfunction and obesity dominate health care costs in the U.S. today.

The test used to identify glucoregulatory dysfunction (based on high blood glucose levels or glycosylated hemoglobin) works after the fact, i.e., it confirms the problem rather than initially detecting it. A better test, one that could be used to screen at-risk patients before they progress to a more serious condition, would enable earlier intervention and improved patient outcomes.

The Invention

UW–Madison researchers have developed a method based on blood lipid chemistry to identify a subject at risk for glucoregulatory dysfunction. The method involves obtaining a biosample from the subject, separating the diacylglycerol fatty acids and determining if the concentration is above or below a control range.

Applications

- Diagnostic test to screen individuals at risk for glucoregulatory dysfunction
- Identifying those eligible for treatment and insurance reimbursement

Key Benefits

- Predicts a problem in advance of more serious conditions (e.g., prediabetes)
- Can be easily and routinely administered
- Opportunity for early intervention

Stage of Development

Successful animal studies have been performed.

Additional Information

For More Information About the Inventors

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Tech Fields

- Medical Devices : Diagnostics & monitoring tools

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847

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Tech Fields

- Medical Devices : Diagnostics & monitoring tools