

## Methods for Insulin Delivery and Glucose Monitoring: Comparative Effectiveness: Comparative Effectiveness Review Number 57



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**(Prof. Corbin Hilll)**

## METHODS FOR INSULIN DELIVERY AND GLUCOSE MONITORING: COMPARATIVE EFFECTIVENESS: COMPARATIVE EFFECTIVENESS REVIEW NUMBER 57



Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 312 pages. Dimensions: 11.0in. x 8.5in. x 0.7in. Diabetes mellitus is defined as a group of metabolic diseases characterized by hyperglycemia resulting from defects in insulin secretion from the pancreatic beta cells; resistance to insulin action at the level of skeletal muscle, liver, and fat; or both. The resultant hyperglycemia, if untreated, can lead to long-term vascular complications. Thirty million people in the United States are diagnosed with diabetes, and that number is expected to increase to 39 million people by 2050. Thus, millions of people require glucose-lowering therapies to maintain normal glucose levels (normoglycemia) and prevent diabetes complications. Type 1 diabetes, which accounts for 5 to 10 percent of all diabetes cases, is characterized by insulin deficiency and a need for daily insulin administration to sustain life, maintain normoglycemia, and maintain normal body weight and promote normal growth and development in children. Type 2 diabetes, which accounts for 90 to 95 percent of diabetes in the United States, is the result of a combination of insulin resistance and impaired insulin secretion by the beta cells of the endocrine pancreas. Eventually, beta cell failure can lead to insulin deficiency, necessitating insulin therapy. In pregnant women with pre-existing type 1 or type 2 diabetes, poor glycemic control is associated with poorer pregnancy outcomes. The objective of our comprehensive systematic review was to address the question of whether the mode of intensive insulin therapy (CSII vs. MDI) results in better glycemic control, less hypoglycemia, improved quality of life, and improved clinical outcomes in individuals with type 1 diabetes, type 2 diabetes, and pre-existing diabetes in pregnancy. We also sought to determine whether these outcomes differed by the type of strategy used for blood glucose monitoring (rt-CGM vs. SMBG) in those same...



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