

Insulin Delivery and Glucose Monitoring Methods: Future Research Needs: Future Research Needs Paper Number 32



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INSULIN DELIVERY AND GLUCOSE MONITORING METHODS: FUTURE RESEARCH NEEDS: FUTURE RESEARCH NEEDS PAPER NUMBER 32



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 62 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. 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 prevalence of diagnosed diabetes in the U. S. is currently 7. 7 and is expected to increase to nearly 10 by 2050. Type 1 diabetes, which accounts for 5 to 10 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 of diabetes in the U. S. , is the result of a combination of insulin resistance and impaired insulin secretion by the beta cells of the endocrine pancreas. In current practice, tight glycemic control is achieved through the use of physiological basal and meal-time (prandial) insulin that, when used together, mimic normal pancreatic function. Patients take these medications either as three or more daily injections multiple daily injections (MDI), or by external continuous subcutaneous insulin infusion (CSII) via a pump, which provides a more physiological means to deliver insulin. The challenges to use of SMBG are the associated pain, costs, behavioral and technical skills, required motivation, and intrusiveness. These challenges directly affect adherence to this technique and are barriers to tight glycemic control. In response to these issues, the health care industry has developed continuous glucose monitoring (CGM) systems that record blood glucose levels throughout the day and night with a significantly decreased need for fingerstick measurements. A CGM system, in conjunction with intensive insulin treatment, can...



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