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Novel Technology in Insulin Therapy

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ABSTRACT

Diabetes mellitus is a metabolic disorder which is characterised major healthcare problems worldwide and affecting a great number of the world population. Comparatively, a large percentage of world population is affected by DM. Insulin is the first medicament to be discovered in 1921 by Banting and Best for diabetes. There are two major types of Diabetes Mellitus, Type I {IDDM} or juvenile onset diabetes mellitus and Type II {NIDDM} Maturity onset D.M. over the 90% cases of Diabetes are Type II and remaining 5-10% of cases of Diabetes type I. Insulin therapy for diabetes is most commonly delivered by subcutaneous injection in 4 time a day, through which insulin introduced into body but having many challenges hence, Novel discoveries for insulin administration are being explored. Most popular devices used for insulin administration such as syringe, pens and pumps, artificial pancreas (AP), oral insulin, nasal insulin, ocular insulin and rectal insulin.

Keywords: Diabetes Mellitus, Insulin, Insulin Delivery, insulin syringe, insulin pens, insulin pumps,

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