20th World Congress on
Endocrinology & Diabetes
November 22-23, 2024 | Webinar
Volume : 13

Advances in Artificial Pancreas Technology

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Managing type 1 diabetes (T1D) requires continuous blood glucose monitoring and insulin administration. Artificial pancreas systems aim to automate this process but face challenges in accuracy and user compliance.

A randomized controlled trial evaluated a novel artificial pancreas algorithm in 200 patients over six months. Outcomes included glucose variability, time-in-range metrics, and user satisfaction.

The new system demonstrated superior glucose control with a 25% reduction in variability compared to standard therapy. User feedback highlighted improved quality of life and reduced mental burden.

Enhanced algorithms can revolutionize T1D management, paving the way for broader adoption of artificial pancreas systems.

Biography

Dr. Michael Rodriguez specializes in endocrinology and diabetes technology. He is a leading researcher in artificial pancreas systems and has contributed to developing algorithms that enhance glucose monitoring accuracy. His work bridges the gap between cutting-edge technology and practical diabetes management solutions.

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Abstract received : August 05, 2024 | Abstract accepted : August 07, 2024 | Abstract published : 28-01-2025