

CBS News: Artificial Pancreas Helps People with Diabetes

Artificial Pancreas technology research by UCSB Engineering faculty and physicians at Sansum Diabetes Research Institute featured on CBS news

An Artificial Pancreas System developed by a collaborative team of UCSB researchers and physicians at Sansum Diabetes Research Institute in Santa Barbara could soon greatly improve the daily lives of the nearly 3 million people living with Type 1 diabetes. Dr. Howard Zisser, Director of Clinical Research at SDRI is featured in this video hosted by CBS News Correspondent Bigad Shaban. (Video source: GlobalNews.ca)



The team is part of an international group of renowned diabetes researchers who were awarded \$4.5 million from the US National Institutes for Health (NIH) in 2011. At UCSB, Professor Frank Doyle is leading the efforts to engineer a sophisticated algorithm that acts as the "brain" of the artificial pancreas. Called a closed-loop control (CLC) system, this algorithm is informed by the numerous physiological changes ? such as hormones, meals, stress, exercise and sleep ? and mimics the insulin creation function of a healthy pancreas.

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