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Interpretation: Novel flash glucose testing reduced the time adults with well controlled type 1 diabetes spent in hypoglycaemia. Future studies are needed to assess the effectiveness of this technology in patients with less well controlled diabetes and in younger age groups. Funding: Abbott Diabetes Care.

Novel glucose-sensing technology and hypoglycaemia in type ...

In summary, use of the novel flash glucose sensor system resulted in a significant reduction in time and incidence of hypoglycaemia, without deterioration in HbA 1c levels, demonstrating that the system is a safe replacement for self-monitoring of blood glucose and is highly acceptable to individuals with type 1 diabetes. For many individuals, hypoglycaemia is a barrier to optimum glucose control.

Novel glucose-sensing technology and hypoglycaemia in type ...

Novel glucose-sensing technology and hypoglycaemia in type 1 diabetes: a multicentre, non-masked, randomised controlled trial -

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ScienceDirect. The Lancet. Volume 388, Issue 10057, 5–11 November 2016, Pages 2254-2263.

Novel glucose-sensing technology and hypoglycaemia in type ...

This novel technology could empower individuals with type 1 diabetes by providing a potential alternative to conventional self-monitoring of blood glucose testing. We used a novel sensor-based flash glucose monitoring system (Freestyle Libre; Abbott Diabetes Care, Witney, Oxon, UK).

Novel glucose-sensing technology and hypoglycaemia in type ...

Novel glucose-sensing technology and hypoglycaemia in type 1 diabetes: a multicentre, non-masked, randomised controlled trial. September 2016; The Lancet 388(10057) DOI: 10.1016/S0140-6736(16)31535-5.

(PDF) Novel glucose-sensing technology and hypoglycaemia ...

Deeb, A., Yousef, H., Al Qahtani, N. et al. Novel ambulatory glucose-sensing technology improves hypoglycemia detection and patient monitoring adherence in children and adolescents with type 1 diabetes. J Diabetes Metab Disord 18, 1–6 (2019). <https://doi.org/10.1007/s40200-018-0351-9>. Download citation.

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Received: 19 March 2018. Accepted: 14 August 2018

Novel ambulatory glucose-sensing technology improves ...

Novel glucose-sensing technology and hypoglycaemia in type 1 diabetes: a multicentre, non-masked, randomised controlled trial This slide set presents trial findings showing that patients with well-controlled type 1 diabetes who undergo flash glucose testing achieve a greater reduction in the time spent in hypoglycemia over 6 months than those who carry out standard self-monitoring.

Novel glucose-sensing technology and hypoglycaemia in type ...

The novel glucose sensing technology was first presented at last year's EASD conference, the biggest annual European diabetes meeting globally – it's intended to overcome some of the limitations of both traditional blood glucose monitoring (pain, incomplete data) and current CGM devices (cost, alarm fatigue).

Abbott's Novel Glucose Sensing Technology, the "Freestyle ...

glucose with novel flash sensor-based glucose monitoring demonstrated superior reduction in time in hypoglycaemia without deterioration of glycated haemoglobin. This novel technology could empower individuals with type 1 diabetes by providing a potential alternative to

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conventional self-monitoring of blood glucose testing. See Online for appendix

Novel glucose-sensing technology and hypoglycaemia in type ...

An Evaluation of Novel Glucose Sensing Technology on Hypoglycaemia in Type 1 Diabetes (IMPACT) (IMPACT) The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our disclaimer for details.

An Evaluation of Novel Glucose Sensing Technology on ...

In this randomized controlled trial, a novel flash glucose monitoring system (Abbott's FreeStyle Libre) reduced the time adults with well-controlled type 1 diabetes mellitus spent in hypoglycemia. After 6 months, the intervention group, compared with a control group using only self-monitoring of blood glucose (SMBG) to obtain glucose information, experienced a 38% reduction in time in hypoglycemia.

Novel Glucose-Sensing Technology and Hypoglycemia in Type ...

We have developed a technology for continuous tear glucose monitoring, and therefore potentially blood glucose monitoring, using a daily use, disposable contact lens embedded with sugar-sensing

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boronic acid containing fluorophores. The novelty of our approach is two fold.

Ophthalmic glucose sensing: a novel monosaccharide sensing ...

@article{Bolinder2016NovelGT, title={Novel glucose-sensing technology and hypoglycaemia in type 1 diabetes: a multicentre, non-masked, randomised controlled trial}, author={J. Bolinder and R. Antuna and P. Geelhoed-Duijvestijn and J. Kroeger and R. Weitgasser}, journal={The Lancet}, year={2016 ...

Novel glucose-sensing technology and hypoglycaemia in type ...

Journal of Diabetes Science and Technology 2008 2: 6, 1066-1074
Download Citation. ... Development of Novel Glucose Sensing Fluids with Potential Application to Microelectromechanical Systems-Based Continuous Glucose Monitoring Show all authors. Siqi Li, M.S. 1. Siqi Li .

Development of Novel Glucose Sensing Fluids with Potential ...

Many technologies are being pursued to develop novel glucose sensors (Fig. 1), including non-invasive, continuous monitors. This paper reviews the history of glucose sensors and methods of sensor assessment and provides an overview of emerging glucose-sensing

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technology for clinicians. Figure 1 Open in figure viewerPowerPoint

Glucose sensors: a review of current and emerging technology

New study finds novel functions of the pyruvate-sensing protein PdhR in *E. coli* by Tokyo Institute of Technology Pyruvate is a key compound to many essential biological pathways that generate...

New study finds novel functions of the pyruvate-sensing ...

Aims/hypothesis: Evidence for the effectiveness of interstitial glucose monitoring in individuals with type 1 diabetes using multiple daily injection (MDI) therapy is limited. In this pre-specified subgroup analysis of the Novel Glucose-Sensing Technology and Hypoglycemia in Type 1 Diabetes: a Multicentre, Non-masked, Randomised Controlled Trial' (IMPACT), we assessed the impact of flash glucose technology on hypoglycaemia compared with capillary glucose monitoring.

Impact of flash glucose monitoring on hypoglycaemia in ...

A novel transcriptional regulator responding to glucose was designed with a substrate-binding protein (SBP) as a probe towards intracellular sensing system for glucose in mammalian cells.

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Construction of a novel glucose-sensing molecule based on ...

The comprehensive document aimed at clinicians, hospitals, and researchers covers use of both continuous glucose monitors and automated insulin dosing systems in the hospital setting.

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