

Wisconsin Diabetes Weekly

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In the News

Cell Research Offers Diabetes Treatment Hope

A new cell treatment to enhance islet transplantation could help maintain healthy blood sugar levels in type 1 diabetes without the need for multiple transplants of insulin-producing cells or regular insulin injections, research suggests. [Read more.](#)

New Algorithm Predicts Gestational Diabetes

A new computer algorithm can predict in the early stages of pregnancy, or even before pregnancy has occurred, which women are at a high risk of gestational diabetes, according to a new study. The study analyzed data on nearly 600,000 pregnancies available from Israel's largest health organization, Clalit Health Services. Based on these predictions, it may be possible to prevent gestational diabetes using nutritional and lifestyle changes. [Read more.](#)

Researchers Create LED Contact Lens to Diagnose Diabetes

A research team has developed a smart light-emitting diode (LED) contact lens for diabetic diagnosis and retinopathy treatment. The team also created a wearable medical device for diabetics. Integrated with micro-LED and photodetector, the smart contact lens can measure glucose concentration in the conjunctival blood vessels by analyzing the near infrared (NIR) light. [Read more.](#)

Important News

NEW Surgeon General Report: Quitting Smoking is Beneficial at any Age

U.S. Surgeon General VADM Jerome M. Adams has released a new report, *Smoking Cessation: A Report of the Surgeon General*. This is the first Surgeon General's report since 1990 to focus solely on smoking cessation. The report:

- Discusses patterns of adult smoking and smoking cessation in the U.S.
- Updates findings on the biology of addiction and smoking cessation.
- Reviews the immediate- and long-term health benefits of smoking cessation.
- Examines clinical treatments and tools, including counseling and medications, proven to increase smoking cessation.
- Highlights population-based strategies proven to increase smoking cessation.

Other resources to support the report, such as an executive summary, key findings fact sheet, consumer guide, and digital partner toolkit are available, along with the report, on CDC's [Smoking Cessation: A Report of the Surgeon General](#) webpage.



In the News *(continued)*

Most Diabetes Apps Lack Effective “Action Prompts” During Hyperglycemia, Hypoglycemia

Detailed directives based on proven practice for hypoglycemia and hyperglycemia treatment are not always features of diabetes apps, which means people with type 2 diabetes must be careful when selecting apps to help manage their diabetes, according to new findings. Researchers tested 371 smartphone applications—some free, some with required purchase—that were designed for diabetes management and required users to enter their blood glucose levels. [Read more.](#)



Gout Incidence Down with SGLT2 Inhibitors in Type 2 Diabetes

Adults with type 2 diabetes newly prescribed a sodium-glucose cotransporter-2 (SGLT2) inhibitor have a lower incidence of gout than those prescribed a glucagon-like peptide-1 (GLP-1) receptor agonist, according to a recently published study. The incidence for those prescribed the SGLT2 inhibitor vs. those prescribed the GLP-1 inhibitor was 4.9 vs. 7.8 events per 1,000 person-years, with a hazard ratio of 0.64 and a rate difference of -2.9 per 1,000 person-years. [Read more.](#)

Have You Joined the Wisconsin Heart Health CoP?

February is American Heart Month and the [Wisconsin Heart Health Community of Practice \(CoP\)](#) offers a statewide forum for health care professionals to promote best practices, collaborative activities, organizational and professional relationships, and ideas that help to improve the heart health of all Wisconsin residents. The goal is the active implementation and continuous improvement of these best practices in Wisconsin health care organizations and communities.



Resources in this newsletter are compiled by the Wisconsin Chronic Disease Prevention Program.

Journal Articles and Reports of Interest

Impact of Treating Oral Disease on Preventing Vascular Diseases: A Model-Based Cost-Effectiveness Analysis of Periodontal Treatment Among Patients with Type 2 Diabetes. Choi SE, et al. *Diabetes Care*. 2019 Dec 27. doi: 10.2337/dc19-1201. [Epub ahead of print]

Increasing Insulin Resistance Predicts Adverse Pregnancy Outcomes in Women with Gestational Diabetes Mellitus. Sun YY, et al. *J Diabetes*. 2019 Dec 6. doi: 10.1111/1753-0407.13013. [Epub ahead of print]

Learn More About Management of Pregnancy in Diabetes



For More Information

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For more about our program, check out www.preventdiabeteswi.org.