Responding more frequently to MiniMed Smart MDI alerts linked to better glucose outcomes for people with diabetes

Six-month randomized trial found 8.1 percentage points more Time in Range and 0.6 percentage points lower HbA1c among higher responders.

NORTHRIDGE, Calif., Oct. 5, 2026 /PRNewswire/ -- MiniMed (Nasdaq: MMED), a global leader in diabetes technology, today presented new clinical evidence showing that people with type 1 diabetes using the MiniMed Smart MDI system who responded to more missed-dose and high-glucose alerts had, on average, 8.1 percentage points more Time in Range (TIR) and 0.6 percentage points lower HbA1c than lower responders in a six-month randomized controlled trial[1]. The data, from 143 people with type 1 diabetes and HbA1c above 8%, were presented at the 62nd Annual Meeting of the European Association for the Study of Diabetes.

People who manage diabetes with multiple daily injections carry a large amount of the work in their heads. They monitor glucose, remember injections, calculate doses, and adjust around meals and daily life. Missed or delayed doses can affect glucose outcomes[2]. Research indicates that missing two insulin doses a week can increase HbA1c by 0.4%.[3]

Pump therapy remains recommended for people with type 1 diabetes[4], but not everyone wants or can access a pump. For people who choose multiple daily injections, the need is not more data alone. It is timely help that makes the next action easier to see and easier to take. Potentially achieving an additional 8% TIR and 0.6 percentage points lower HbA1c, thanks to actionable alerts, matters as it can reduce the risk of long-term complications.[2 5]

MiniMed's Smart MDI system connects the InPen™ smart insulin pen with a continuous glucose monitor through the MiniMed Go™ app. This smart pen system tracks doses, provides dose calculations, and sends missed-dose and high-glucose alerts alongside glucose insights. It brings those functions into one app instead of asking people to coordinate a pen, a glucose monitor, and dosing decisions separately.

"People managing diabetes with multiple daily injections are making insulin decisions all day, every day. MiniMed Go is designed to lighten that load by remembering, reminding, and recommending when it matters. The goal is to help them achieve better outcomes with less burden. That's the promise of the MiniMed Go smart MDI system," said Que Dallara, CEO of MiniMed.

The finding: Better outcomes for higher responders

- Smart MDI users with a higher response rate to alerts achieved, on average, 8.1 percentage points higher TIR and 0.6 percentage points lower HbA1c compared with lower responders.
- Additional real-world analysis of more than 5,500 users found a 9.4 percentage-point difference in Time in Range between higher and lower responders. HbA1c was not analyzed in the real-world dataset.
- In this study^, responding to at least 28% of missed-dose and high-glucose alerts was associated with improved HbA1c compared with multiple daily injections plus continuous glucose monitoring alone.
- The Smart MDI system met the primary endpoint and was non-inferior to multiple daily injections plus continuous glucose monitoring in glycemic outcomes.
- No severe hypoglycemia or diabetic ketoacidosis events were reported in the Smart MDI arm during the study.

"These findings show a clear association between responding to Smart MDI alerts and better glucose outcomes. For people on multiple daily injections, that can mean more time in range with less day-to-day mental burden," said Prof. Laurent Crenier, MD, PhD, Head of the Endocrinology Department at HUB - Hôpital Erasme in Brussels.

The results of the randomized controlled trial add to an existing study that showed that with only a minor increase in effort of ~1 additional bolus per week in response to a missed dose alert, users of MiniMed's Smart MDI system gained an additional 2 hours of Time in Range.* [6]

Frequently Asked Questions

Q: What did the randomized controlled trial evaluate?

A: The six-month trial[1] evaluated the effectiveness and safety of the MiniMed Smart MDI system compared with multiple daily injections plus continuous glucose monitoring in 143 people with type 1 diabetes and an HbA1c above 8%.

Q: What were the main findings of the Smart MDI randomized controlled trial?

A: Among Smart MDI users in the study ^[1], those with higher alert-response rates achieved, on average, 8.1 percentage points more Time in Range and a 0.6 percentage-point lower HbA1c than users with lower response rates. Real-world data^ from more than 5,500 users showed a 9.4 percentage-point difference in Time in Range between higher and lower responders. HbA1c was not included for review in the real-world data.

Q: What do the results suggest about responding to Smart MDI alerts?
A: The findings[1] show an association between more consistent responses to missed-bolus and high-glucose alerts and better glucose outcomes. In this study^, responding to ≥28% of alerts was associated with improved HbA1c compared with multiple daily injections plus continuous glucose monitoring alone. The Smart MDI system was non-inferior to multiple daily injections plus continuous glucose monitoring alone in glycemic outcomes, and no severe hypoglycemia or diabetic ketoacidosis events were reported in the Smart MDI arm.

Q: What is the MiniMed Go™ system?
A: The MiniMed Go™ system is a smart diabetes management solution that connects the InPen™ smart insulin pen with either the Simplera™ sensor or Instinct Go sensor, made by Abbott, through the single MiniMed Go™ app. This smart insulin pen system provides real-time glucose data, dose calculations, missed dose alerts, and actionable guidance, making MDI therapy easier and more connected compared to standalone CGM therapy.

Q: What is InPen™?
A: The InPen™ is a reusable smart insulin pen that uses Bluetooth® technology to send dose information to a mobile app. Offering dose calculations and tracking, InPen™ helps take some of the mental math out of diabetes management.

Q: What's the difference between theMiniMed Go™ Smart MDI system and the previous Medtronic Smart MDI system?
A: There are a few upgrades including a single unified mobile app experience, easier onboarding, support and self-training tools, new features and insulin settings. For healthcare professionals, new CareLink Clinic dedicated MDI reports turn patient data into clinical and behavioural insights.

Q: What is the difference between theMiniMed Go™ Smart MDI system and traditional pens or other connected pens for diabetes?
A: Unlike traditional insulin pens, which lack a proprietary app and the ability to track doses or provide decision support, smart insulin pen systems such as the MiniMed Go™ Smart MDI system, offers integration of real-time continuous glucose monitoring, a built-in dose calculator that simplifies dose decision-making, and smart dosing alerts to help people with their diabetes therapy adherence – the first and only Smart MDI system to offer an all in one mobile app.

About MiniMed
MiniMed is a global leader in insulin delivery, constantly advancing therapies that support people with diabetes in more than 80 countries. Our full-stack, integrated ecosystem, including our insulin delivery systems, CGMs, algorithms, and easy-to-use app experience, is designed to work seamlessly together, supported by white-glove, wrap-around service. For over 40 years, we've pioneered therapies people can rely on by anticipating needs, reducing burden, and helping make life with diabetes easier. Our mission is to make every day a better day for people with diabetes.

*N=127 users in lowest quartile TIR at month 1
† Proper settings, connectivity, and some manual logging required. See user guides for full details and important safety information.
^ Due to inherent analysis limitations, caution is advised when attempting to extrapolate these results to new patients. There could be significant differences.

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1. Crenier L, et al. The Smart MDI system in people with type 1 diabetes and high HbA1c: a randomized controlled trial demonstrating that response to alerts drives outcomes. *Diabetes Obes Metab.* 2026; in press.
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3. Randlov, J, Poulsen, JU. How Much Do Forgotten Insulin Injections Matter to Hemoglobin A1c in People with Diabetes, J Diabetes Sci Technol. 2008; 2(2):229-235.
4. American Diabetes Association Professional Practice Committee; Introduction and Methodology: Standards of Care in Diabetes—2025; Diabetes Care 2025;48(Supplement_1):S1–S5, https://doi.org/10.2337/dc25-SINT
5. Shah VN, et al. Time in Range Is Associated with Incident Diabetic Retinopathy in Adults with Type 1 Diabetes: A Longitudinal Study. Diabetes Technol Ther. 2024 Apr;26(4):246-251. doi: 10.1089/dia.2023.0486. Epub 2024 Feb 13. PMID: 38133643.
6. Cuesta M, et al. Impact of User Responses to Smart MDI Notifications: Insights From a Longitudinal Real-World Study of 2604 Smart MDI System Users. *Diabetes Obes Metab*. Published online June 4, 2026. doi:10.1111/dom.70947

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