New real-world data shows MiniMed™ 780G system sustains strong global performance, exceeding international targets for diabetes management

New data presented at ATTD demonstrates the system's ability to help individuals with type 1 diabetes exceed international targets on outcome measures

DUBLIN and FLORENCE, Italy, March 9, 2024 /PRNewswire/ -- Medtronic plc. (NYSE: MDT), a global leader in healthcare technology, today shared a robust set of new clinical and real-world evidence on the MiniMed™ 780G system from around the world including the largest set of data from early users in the United States. The data was presented at the 17th International Conference on Advanced Technologies and Treatments for Diabetes (ATTD) in Florence, Italy. These results build on the 3-year data published in *Diabetes Technology & Therapeutics* showing over 100,000 real-world users achieving a Time in Range (TIR) of 78% with the use of recommended optimal settings, outperforming international targets of 70% TIR.

New data sought to evaluate the MiniMed[™] 780G system's ability to help users achieve Time in Tight Range (TITR) goals, a new and emerging supplementary metric being discussed amongst experts, which more closely mirrors the glucose levels of individuals without diabetes. Also referred to as normoglycemia or euglycemia, it is defined as the percentage of time a person spends in the glucose range of 70-140 mg/dL. TITR lowers the upper threshold of Time in Range from 180 mg/dL to 140 mg/dL. Results showed users (n=13,461) achieved a TITR of greater than 56% with the use of recommended optimal settings (100 mg/dL set target with an active insulin time of 2 hours). This data adds to a growing body of evidence that a TITR goal of 50% or greater is a reasonably achievable goal with the right therapeutic option.

"Since the landmark DCCT study, numerous retrospective studies have demonstrated the association between increased Time in Range and a reduction of diabetic complications.¹⁻¹² There's no doubt elevated glucose is harmful and the average blood sugars of those living with type 1 diabetes are higher than we should accept as a clinical community," said Robert Vigersky, MD, Chief Medical Officer, Medtronic Diabetes. "The preponderance of data across randomized controlled trials and real-world studies show that the MiniMed™ 780G system is maximizing Time in Range far surpassing international targets and is taking it a step beyond by getting people closer to euglycemia.^{13,14} In the absence of a cure, our goal is to relentlessly innovate therapies to help people maximize their health without adding burden, which our newest AID system has proven to do."

MiniMed™ 780G System Early Success in the U.S.

In an oral presentation, Dr. James Thrasher, MD, Founder, Arkansas Diabetes and Endocrinology Center, shared data on early real-world users with type 1 diabetes of the MiniMed[™] 780G system in the U.S. (n=7,499). Results showed users achieved over 80% TIR when employing the recommended optimal settings, exceeding international glycemic targets (ADA guidelines recommend 70% time in range between 70-180 mg/dL), with closed loop exits occurring less than once per week on average. The enhancements introduced in this latest system have resulted in high satisfaction and improved quality of life benefits. ^{15,16} Indeed, the latest dQ&A U.S. Pump Patient Survey (n=1,997), found that among pump users, the MiniMed[™] 780G system scored first in overall pump satisfaction. ^{*,17} The survey also showed that among people with type 1 diabetes using CGM, the Guardian[™] 4 sensor mirrored competitor sensors in overall satisfaction. ^{*,18}

"The results demonstrate that when the MiniMed™ 780G system is optimized with recommended optimal settings, it helps people with diabetes far exceed the ADA recommended goal of 70% Time in Range,*" said Dr. Thrasher. "The advent of AID systems has been nothing short of transformative in the practice of endocrinology and is really pushing all of us to introduce its protective benefits on overall health as early and often as possible. This data reinforces that the determinant of choice for AID systems should be first and foremost the power of the algorithm."

About Time in Tight Range

The development of continuous glucose monitoring enabled the development of Time in Range (TIR), a metric used today to determine whether an individual with type 1 diabetes is meeting blood sugar management goals. Since 2019, the goal of diabetes management has been to maintain the highest TIR for as long as possible while also minimizing hypoglycemia. The introduction of automated insulin delivery (AID) systems has transformed diabetes care by enabling a wider range of individuals to safely achieve blood-sugar goals with less burden and effort. AID systems are helping people achieve more ambitious goals with glucose management, prompting the emergence of a new supplementary metric that mirrors blood sugar levels of individuals without diabetes (normoglycemia or euglycemia). The MiniMed™ 780G system is demonstrating that a Time in Tight Range above 50 percent is achievable and serves as a powerful tool for those seeking more time in euglycemia.

About the Medtronic Diabetes (www.medtronicdiabetes.com)

Medtronic Diabetes is on a mission to alleviate the burden of diabetes by empowering individuals to live life on their terms, with the most advanced diabetes technology and always-on support when and how they need it. We've pioneered first-of-its-kind innovations for over 40 years and are committed to designing the future of diabetes management through next-generation sensors (CGM), intelligent dosing systems, and the power of data science and AI while always putting the customer experience at the forefront.

About Medtronic

Bold thinking. Bolder actions. We are Medtronic. Medtronic plc, headquartered inDublin, Ireland, is the leading global healthcare technology company that boldly attacks the most challenging health problems facing humanity by searching out and finding solutions. Our Mission — to alleviate pain, restore health, and extend life — unites a global team of 95,000+ passionate people across more than 150 countries. Our technologies and therapies treat 70 health conditions and include cardiac devices, surgical robotics, insulin pumps, surgical tools, patient monitoring systems, and more. Powered by our diverse knowledge, insatiable curiosity, and desire to help all those who need it, we deliver innovative technologies that transform the lives of two people every second, every hour, every day. Expect more from us as we empower insight-driven care, experiences that put people first, and better outcomes for our world. In everything we do, we are engineering the extraordinary. For more information on Medtronic (NYSE:MDT), visit www.Medtronic.com and follow Medtronic on LinkedIn.

Any forward-looking statements are subject to risks and uncertainties such as those described in Medtronic's periodic reports on file with the Securities and Exchange Commission. Actual results may differ materially from anticipated results.

*Adults, T1 and parents of children with T1 diabetes < 18 years were surveyed; Individual results may vary.

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