YOUNG ADULTS WITH T1D HAVE THE WORST GLYCAEMIC CONTROL OF ALL AGES²

HbA1c level by age in a US registry study of 22,697 participants with T1D²



- In a registry study of 56,250 patients with T1D in Germany.³
- median HbA1c was 8.1% vs 7.5% among
- 18–25-year-olds vs >49-year-olds,
- respectively
- HbA1c values >7.5% were reported in nearly two-thirds of 18–25-year-olds vs less than half of those >49 years

CGM CAN HELP YOUNGER PATIENTS TO GAIN CONTROL OVER THEIR T1D



IMPROVED GLYCAEMIC CONTROL

Adolescents and young adults (<25 years old) have the worst glycaemic control of all ages;² use of real-time CGM was shown to improve HbA1c in this group after 26 weeks vs BGM use. Significant improvements in glycaemic control were also observed after 13 weeks.¹



GREATER TIR WITH LESS TIME IN HYPERGLYCAEMIA

CGM use resulted in greater TIR in young adults vs BGM use, with 1.4 hours fewer spent per day >180 mg/dL (>10.0 mmol/L).¹



Across all age groups, it has been shown that HbA1c levels are lower in those who use CGM (continuous glucose monitoring) vs non-users²



ADVANCED TECHNOLOGY CAN BOOST CGM USE AND COMPLIANCE

Improved technology can help reduce the treatment burden and improve adherence to CGM in this young population^{1,5}

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1 Laffel LM, *et al.* JAMA. 2020;323(23):2388-2396. 2 Foster NC, *et al.* Diabetes Technol Ther. 2019;21(2):66-72. 3 van Mark G, *et al.* Ther Adv Endocrinol Metab. 2019 ;10:2042018819830867. 4 Laffel LM, *et al.* JAMA. 2020;323(23):2388-2396; supplement 2. 5 Juvenile Diabetes Research Foundation Continuous Glucose Monitoring Study Group, *et al.* N Engl J Med. 2008;359(14):1464-1476. 6 Borus JS, *et al.* Curr Opin Pediatr. 2010;22(4):405-11. Dexcom, Dexcom G6, Dexcom Follow, Dexcom Share, and Dexcom CLARITY are registered trademarks of Dexcom, Inc. in the U.S. and may be in other countries. © 2020 Dexcom International Ltd. All rights reserved. Dexcom International Ltd and its affiliated European entities. This product is covered by U.S. patent. www.dexcom.com [+1.858.200.0200] Dexcom, Inc. 6340 Sequence Drive San Diego, CA 92121 USA | MDSS GmbH Schiffgraben 41 30175 Hannover, Germany. LBL020329 Rev001.

DEXCOM CONTINUOUS GLUCOSE MONITORING CAN HELP YOUNG PATIENTS ACHIEVE IMPROVED GLYCAEMIC CONTROL

Results from the **CITY study** – a six-month trial in **adolescents and young adults** (<25 years of age) with type 1 diabetes $(T1D)^1$



THE CITY TRIAL ASSESSED THE EFFECTS OF CGM VS BLOOD GLUCOSE MONITORING (BGM) ON GLYCAEMIC CONTROL IN ADOLESCENTS AND YOUNG ADULTS WITH T1D¹

PRIMARY OBJECTIVE



To determine the effects of CGM vs BGM on blood glucose control in adolescents and young adults (14-24 years)*

153 participants were randomly assigned 1:1 to real-time CGM (Dexcom G5) or standard BGM¹



50% were female¹ Mean age: 17 years¹





Mean duration of disease: 9 years¹

*Primary endpoint was the change in HbA1c from baseline to 26 weeks. CGM-measured outcomes calculated at follow-up using data pooled from up to 7 days before or after the 13-week visit and 14 days prior to the 26-week visit.



WITH CGM, ADOLESCENTS AND YOUNG ADULTS EXPERIENCED A DECREASE IN HBA1C AFTER 26 WEEKS¹

MEAN HBA1C LEVELS¹



PATIENTS USING CGM ALSO SPENT LESS TIME IN HYPERGLYCAEMIA VS PATIENTS USING BGM¹

With CGM vs BGM:



1.4 hours fewer spent each day >180 mg/dL (>10.0 mmol/L) $(P=0.007)^4$

1.2 hours fewer spent each day >300 mg/dL (>16.7 mmol/L) (P<0.001)4

CGM USERS ACHIEVED MORE TIME IN RANGE^{*} (TIR) VS BGM USERS¹



At follow-up, CGM users spent:

- 6% (1.4 hours⁴) more TIR vs baseline¹
- 6.9% (1.7 hours⁴) more TIR vs BGM (95% CI=3.1-10.7; P<0.001)¹
- Less time in hypoglycaemia vs BGM Blood glucose <70 mg/dL (<3.9 mmol/L): 2.2% vs 3.2%, respectively¹ Blood glucose <54 mg/dL (<3.0 mmol/L): 0.7% vs 1.3%, respectively¹

Significant improvement in glycaemic control was observed WEEKS at 13 weeks¹

ADVANCED TECHNOLOGY LED TO IMPROVED CGM ADHERENCE AMONG ADOLESCENTS AND YOUNG ADULTS IN CITY VS PREVIOUS TRIALS^{1,5}

Compliance and motivation are challenges in this age group;^{5,6} in a 2008 study assessing CGM use, only 30% of younger participants with T1D regularly used their device.⁵ At week 26 of the CITY study:1



Patients using CGM reported significantly higher glucose monitoring satisfaction vs BGM^{†1}

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used CGM for a mean of