

Technological Advances and the Evolution of CGM-Based Diabetes Management

Focus on Pivotal Advantages of **Personalized Alc**, **Noninsulin Therapies** and **Ketone Monitoring**



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This **CME-certified simulcast symposium** is jointly provided by the **UMASS Chan Medical School** and **CMEducation Resources**.

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Pre-Program Assessment Question #1

Based on my current practice pattern, I **initiate CGM monitoring** in approximately the following percentage of new persons with T2D who present to me and who are NOT taking insulin (i.e. persons managing diabetes with lifestyle modification or oral medications only)

- 1) 20–30%
- 2) 30–40%
- 3) 40–50%
- 4) 50–60%
- 5) >60%

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Pre-Program Assessment Question #2

CGM is a foundational management strategy in all of the following settings: (1) Overcoming treatment inertia, (2) Modulating patient lifestyle behaviors and decisions, and (3) Adjusting pharmacologic interventions to optimize HbA1c.

- 1) Strongly agree
- 2) Agree
- 3) Agree in some situations
- 4) Disagree
- 5) Strongly disagree

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Profound Impact of Dual Glucose Ketone Monitoring

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Potential Profound Impact of Dual Glucose Ketone Monitoring

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Disclosures: Richard M. Bergenstal, MD

- **I have no personal financial disclosures**
- My employer, the non-profit HealthPartners Institute, contracts for my services, and I receive no personal income from the following activities:
 - I have participated in clinical research, been a member of a scientific advisory board, and served as a consultant for:
 - Abbott Diabetes Care, Ascensia, Bigfoot Biomedical, Inc., CeQur, Dexcom, Eli Lilly, Embecta, Hygieia, Insulet, Mannkind, Medtronic, Medscape, NCQA, Novo Nordisk, Onduo, Roche Diabetes Care, Sanofi, Tandem, United Healthcare, Vertex Pharmaceuticals and Zealand Pharma
 - HealthPartners Institute holds a patent for display screen with graphical user interface
 - HealthPartners Institute receives NIH/NIDDK and PCORI funding

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What Will It Take to Get There?

2018

THE LANCET

Published online February 16, 2018

Continuous glucose monitoring: transforming diabetes management step by step

Richard M Bergenstal

International Diabetes Center at Park Nicollet

What will it take to get here?

2028

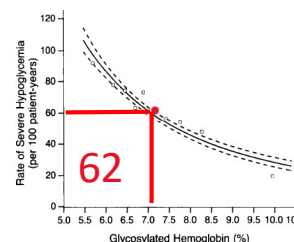
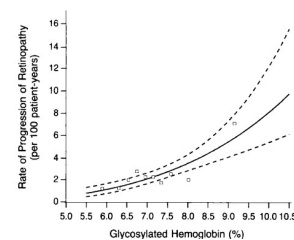
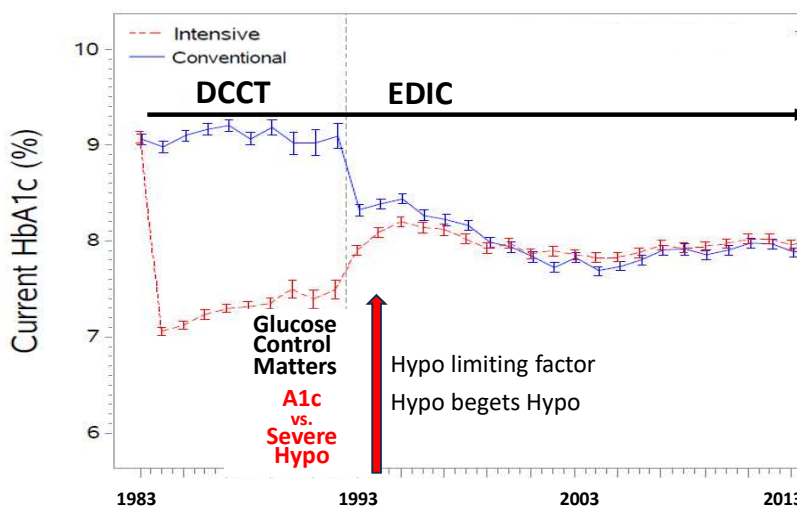
Dual Glucose Ketone continuous monitoring: transforming DKA-Prevention step by step

International Diabetes Center



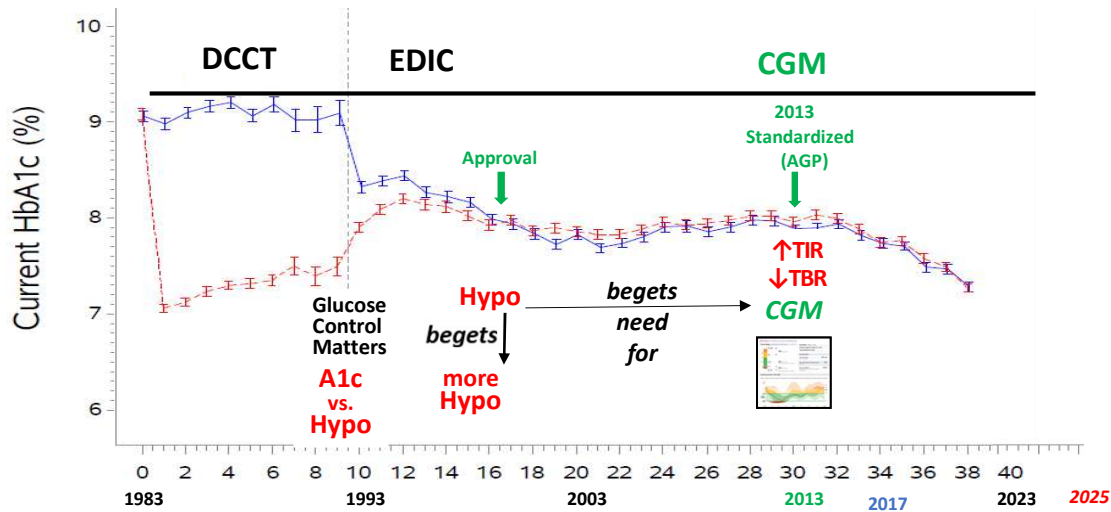
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DCCT / EDIC at 40 Years



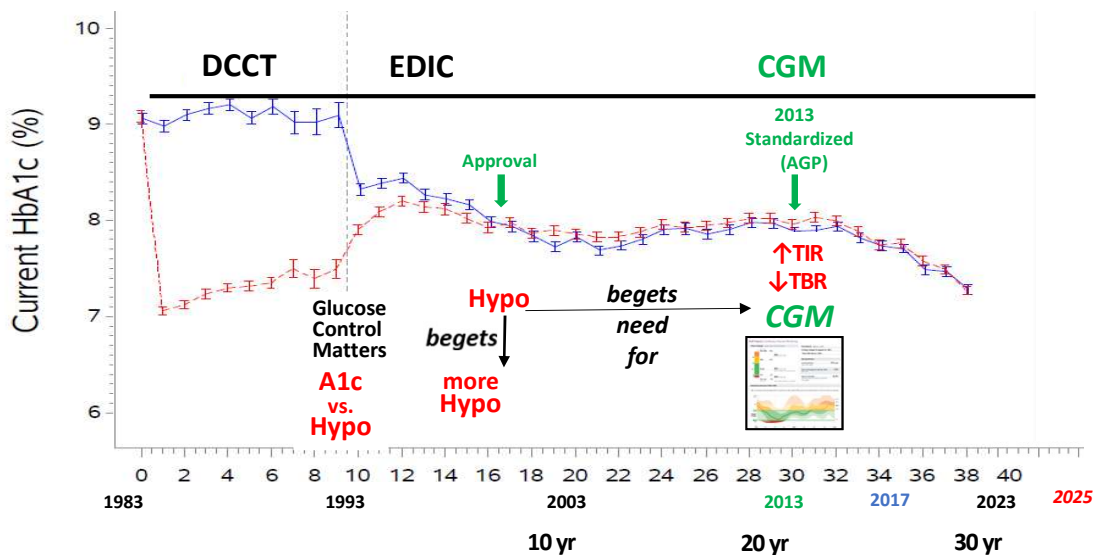
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DCCT / EDIC at 40 Years: Need for Continual Transformations in Management



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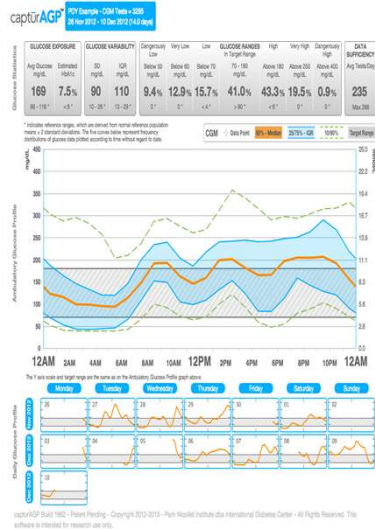
DCCT / EDIC After 20 Years: (1) CGM is Now Addressing Hypoglycemia (2) Glycemic Management Dialogue and SOC Start to Change



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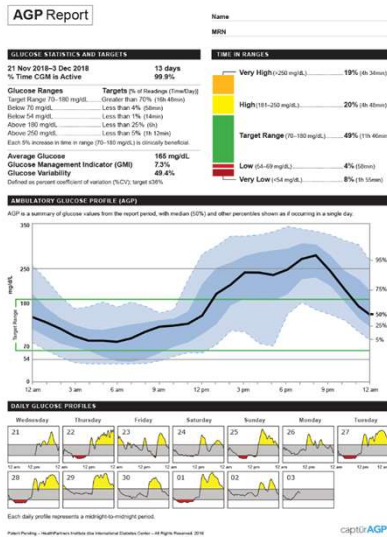
CGM Report Evolution

2013



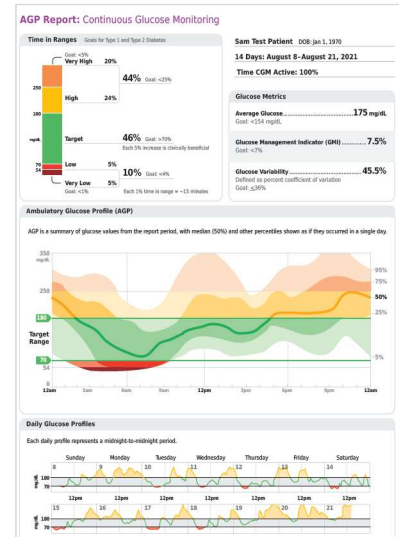
Core Metrics

2019



Targets for Core Metrics

2021

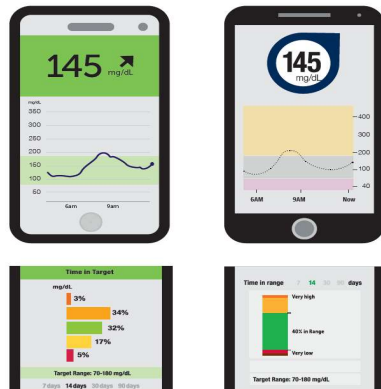


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Using CGM to Improve Glycemic Management is a 2-Part Process and BOTH are Important

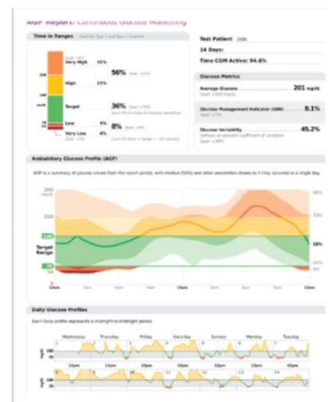
Patient analysis Real-time

Phone



Clinician analysis Retrospective

Cloud or EHR



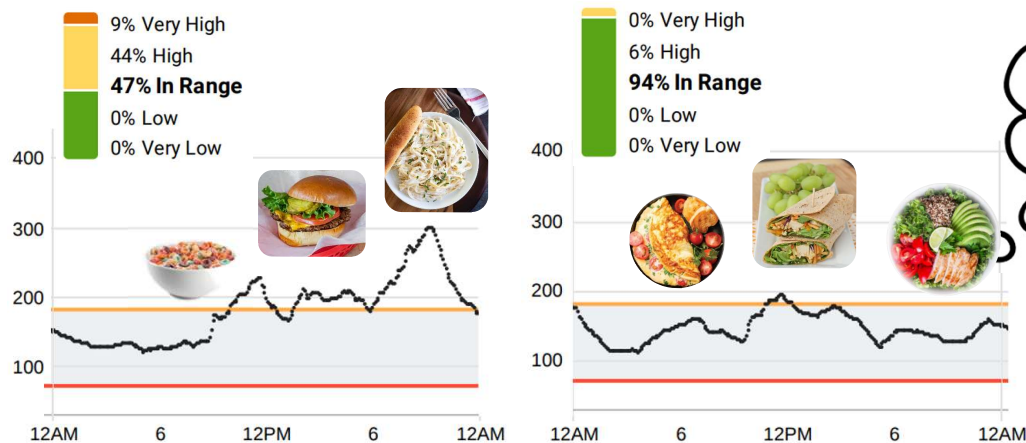
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BE CURIOUS, try it and see!

Everyone's glucose response is unique.



Which
YES CHOICES
can you try?

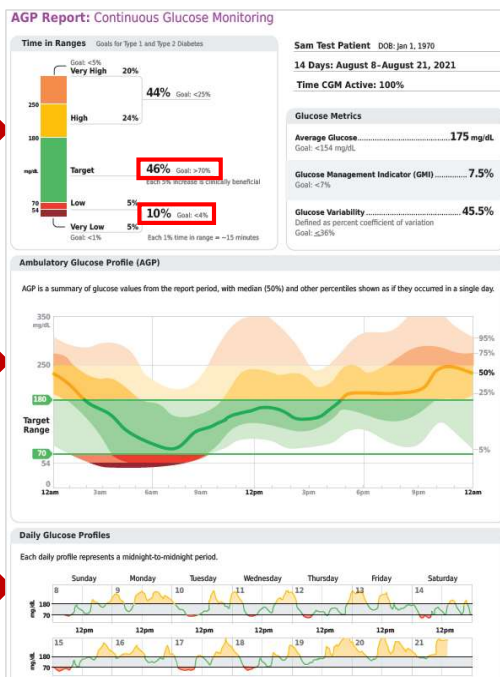
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Ambulatory Glucose Profile (AGP): 3 Steps to an Action Plan

Determine Where to Act

Metrics and targets



AGP curve (14 days)

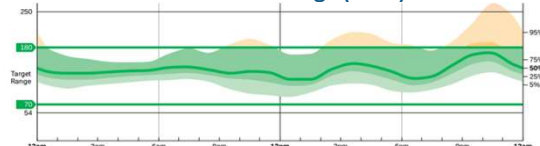
Daily views

1. Determine if action is needed.

- Review time in range and time below range.
- Action is needed if:
Time in Range (70-180mg/dL) is not >70-80% **or**
Time Below Range (<70 mg/dL) is not <4%
Goal: More Green, Less Red

2. Where is action needed?

- Review the AGP curve and daily views.
- Action is needed where the AGP curve is not yet **Flat Narrow and In-Range (FNIR)**.



- Treat any hypoglycemia (red) first.

3. Act on the data.

- Adjust lifestyle & medications to achieve **MGLR** and **FNIR**.
- Adjust, adjust, adjust!

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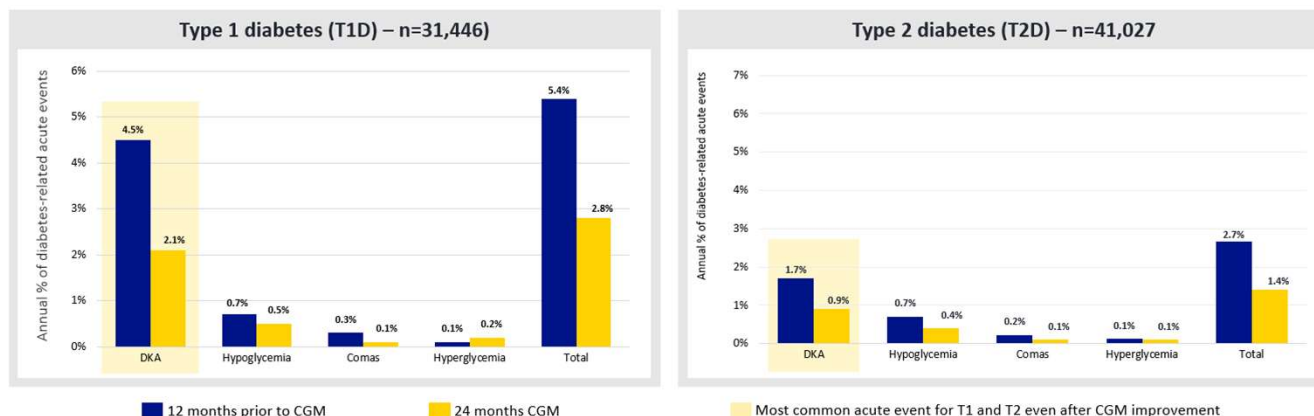
Time for more focus on preventing DKA?



References: 1. Umphrier, G.E., *Diabetes Care* (2024). <https://doi.org/10.2337/dc24-0032>. 2. Nguyen, K.T., *Journal of Diabetes Science and Technology* (2022). 3. Zhong et al, *Diabetes Care* (2018): <https://doi.org/10.2337/dc17-1583>. 4. Canales, SP, *Endocrine Practice* (2024): <https://doi.org/10.1016/j.eprac.2024.03.163> <https://doi.org/10.1177/19322968211042656>.

CGM Use Reduces DKA by 50% But It is Still the Most Common Acute Event

RELIEF Study



Riveline et al, *Diabetes Technol Ther.* (2022):
doi.org/10.1089/dia.2022.0085

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Who Is at Highest Risk for DKA?

Risk for DKA

- ➔ 1. T1D / T2D
2. History of DKA
3. Diabetes + Acute illness
- ➔ 4. Use of insulin pump (infusion set block/dislodge)
- ➔ 5. Freq very high glucoses
 - a. Insulin omission
 - b. Disordered eating
 - c. Lack of access to care/SES
6. Diabetes and Ketogenic Diet
- ➔ 7. Women
8. Pregnancy
9. Use of SGLT2i & Diabetes (Euglycemic DKA)
10. Hx CVD events
11. Foot ulcers/ amputations

LONGITUDINAL DETERMINATION OF DIABETES COMPLICATIONS AND OTHER CLINICAL VARIABLES AS RISK FACTORS FOR DIABETIC KETOACIDOSIS (DKA) IN TYPE 1 DIABETES (T1D)

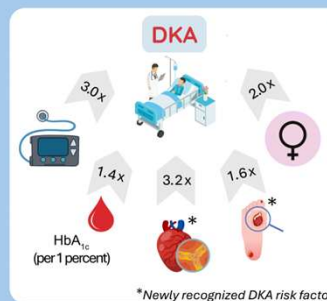
Population: 1,441 Diabetes Control & Complications Trial Participants followed for 34 years.

Exposure: Clinical characteristics and time-varying microvascular and macrovascular complications

Outcome: DKA events

Implications

People with T1D with a history of cardiovascular events, foot ulcers or amputations, but not kidney or eye disease, are at higher DKA risk.



Diabetes Care, April 2025

CKD

CKD did not increase DKA risk

Diabetes Care. 2025;48(4):614-622.
doi:10.2337/dc24-2385

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What Are the Implications of the Findings?

CAPILLARY KETONE LEVEL AND FUTURE KETOACIDOSIS RISK IN PATIENTS WITH TYPE 1 DIABETES USING SODIUM-GLUCOSE COTRANSPORTER INHIBITORS

Research objective

To determine if routine capillary ketone testing on well days predicts future diabetic ketoacidosis (DKA) in type 1 diabetes (T1D) using sodium-glucose cotransporter inhibitors (SGLTi)

Study population

1,194 empagliflozin-assigned participants in a clinical trial program that involved twice-weekly fasted capillary ketone levels

1-month risk intervals (over 6–12 months)

Outcome

325 participants had 49 DKA and 568 severe ketosis events



Findings

Maximum ketone level ≥ 0.8 mmol/L in 1 month



3.2× higher risk of DKA or severe ketosis in the next month



Implications

Routine surveillance of capillary ketone levels in T1D using SGLTi may represent a DKA mitigation strategy and implies a potential threshold for continuous ketone monitoring

Findings imply an additional role for ketone measurement in clinical practice and trials evaluating for **SGLTi in T1D** and **support future implementation of continuous ketone monitoring.**

Priya Bapat, Bruce A. Perkins et al
Diabetes Care 2025;48(6):1016–1021

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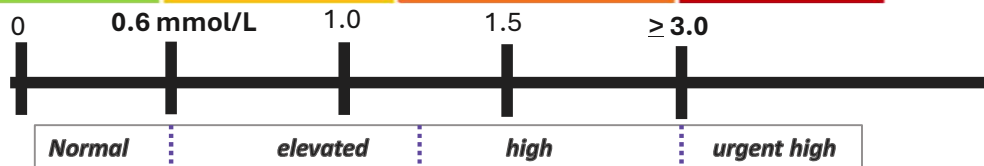
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Quantifying Ketones



Acetoacetate Measured via Urine is a Colometric Test

Negative	Trace	Small	Moderate	Large	



β -hydroxybutyrate via Capillary Check is Quantitative

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Many people with diabetes are not aware of DKA and may not be prepared for a DKA emergency

Multinational, Multicenter Survey of Endocrine Outpatient Clinic Patients With Average Duration of T1D of 22 Years (N=333)

32%

Were not familiar with the term DKA*

46%

Were unable to name a single symptom of DKA

64%

Did not test for ketones at all

DKA=diabetic ketoacidosis; T1D=type 1 diabetes.

*Participants rated their own knowledge of DKA significantly lower than their physicians did ($p < 0.0001$).

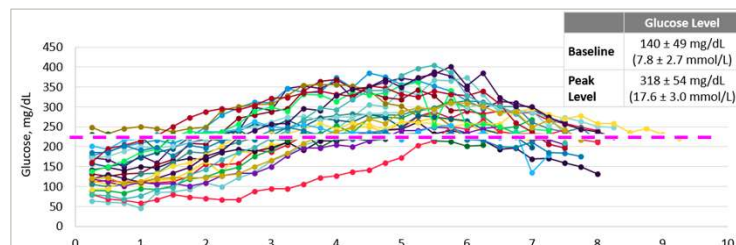
Reference: Heprich, M., *BMJ Open Diabetes Research & Care* (2023). <https://doi.org/10.1136/bmjdr-2023-003662>.

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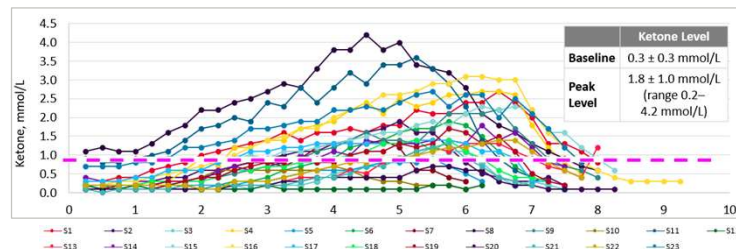
Variability in Ketone Generated, Not Dependent on Starting Glucose or Duration of Diabetes

New solutions in development

Glucose Profiles During Pump Suspension



Ketone Profiles During Pump Suspension



Data on file. Abbott Diabetes Care.

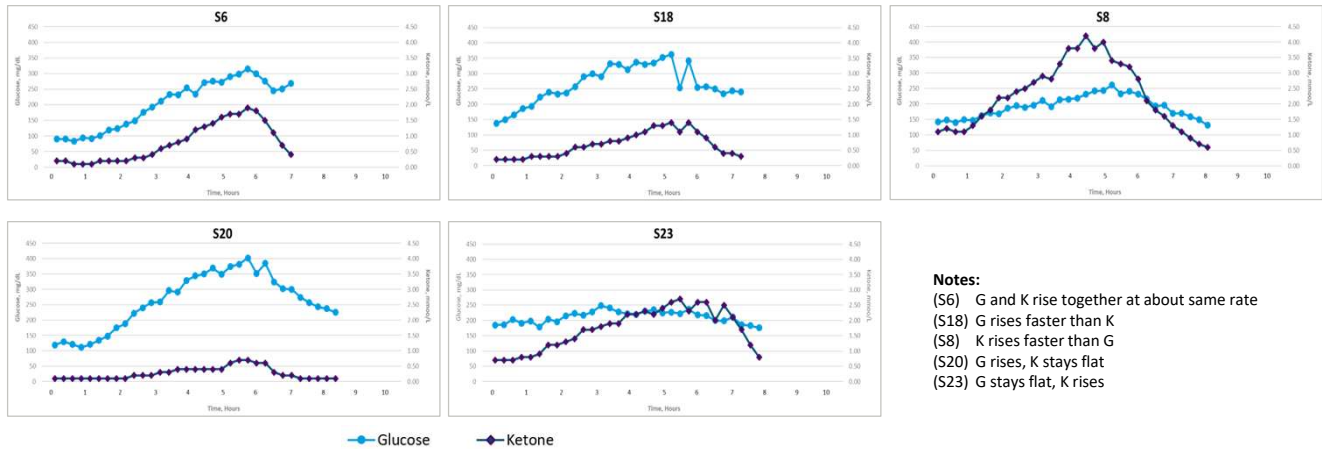
The sensor housing, FreeStyle, Libre, and related brand marks are marks of Abbott. Proprietary and confidential — do not distribute.

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Ketone Profile – Pump Interruption Feasibility Study

Innovating DKA Management with Continuous Ketone Monitoring and Early Warnings



Data on file. Abbott Diabetes Care.

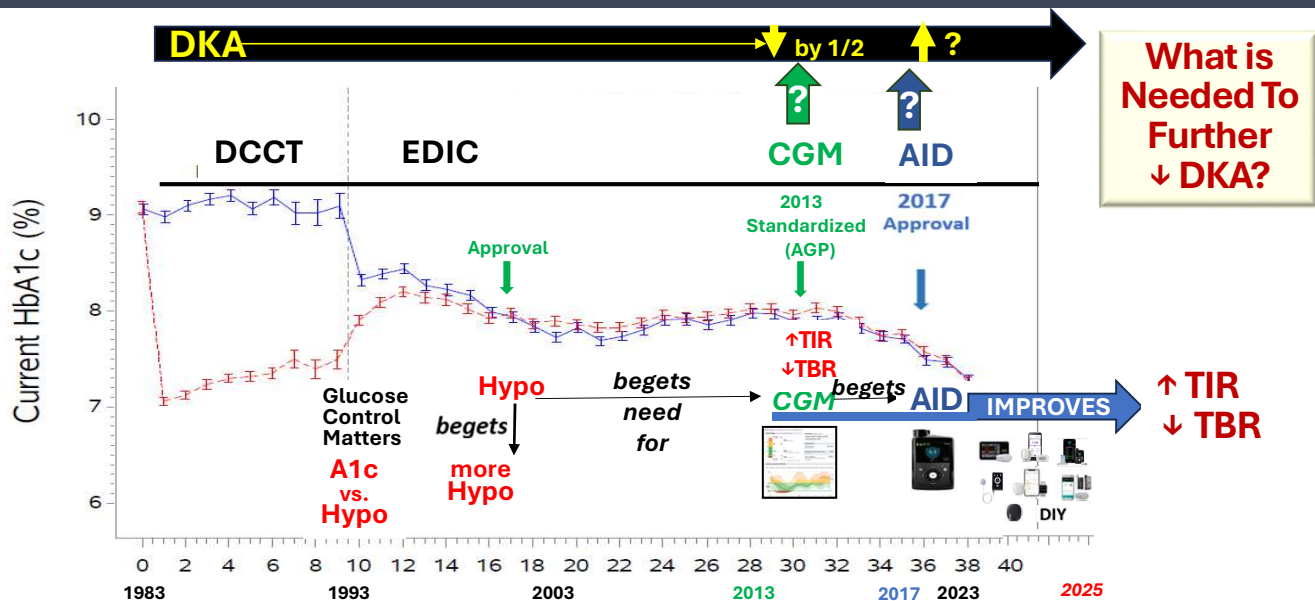
The sensor housing, FreeStyle, Libre, and related brand marks are marks of Abbott. Proprietary and confidential — do not distribute.

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DCCT

EDIC After 30 Years: Next Steps for Glucose and Ketone Monitoring and Management?



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Ensure the Ketone Measurement System is:

Easy



Dual glucose ketone system under development.

Imagery for illustration purposes only.

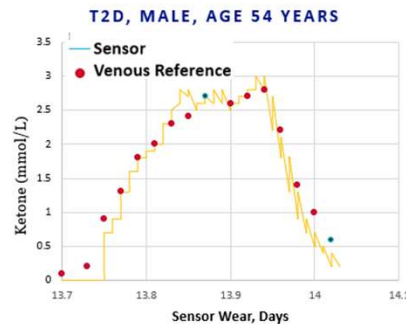
1. Nguyen KT et al, J Diabetes Sci Technol

(2022):

<https://doi.org/10.1177/19322968211042656>.

Accurate

Ketone Response – Exogenous Ketone Ingestion



Unpublished results - Data on file. Abbott Diabetes Care Inc.

The product is under development and not available for sale

Actionable

iCGM and iCKM?

Highest standards of accuracy needed for interoperability or integrations

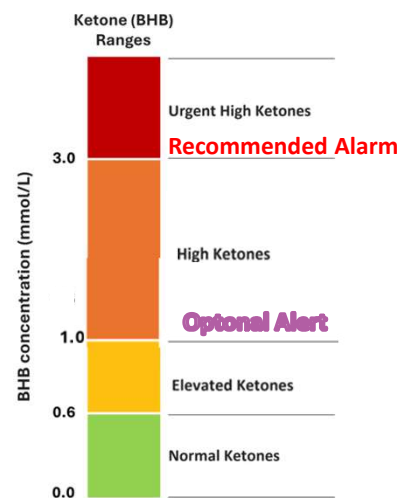
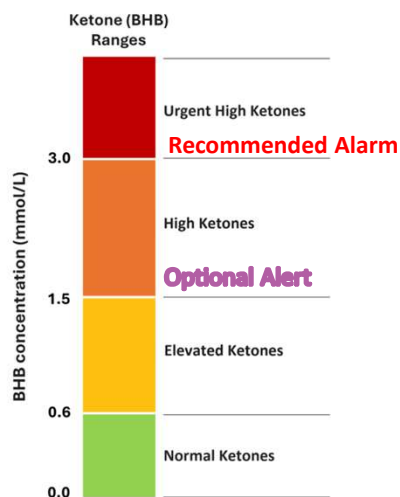
Plans for **Integration of CKM into AID** systems are growing

- 1) Sequel
- 2) Tandem
- 3) Beta Bionics
- 4) Ypsomed & CamDiab
- 5) ...

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To Take Action to Prevent DKA – We Need Standardized Definitions of Elevated and High Risk Ketone (BHB) Levels



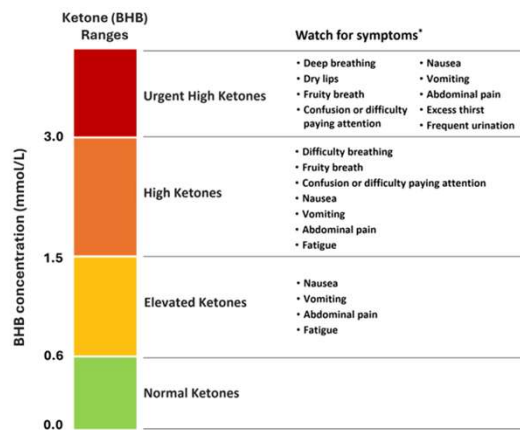
International Expert Consensus Report

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Agree on **Action Plan** to Reduce the Measured Risk Factors

• PwD



Actions to be taken

Wallet Card

• HCP's

STOP DKA protocol²

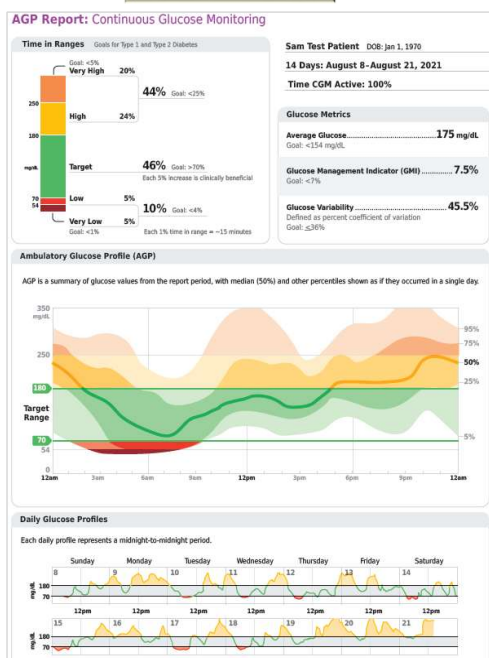
Modified to include CKM along with CGM

- S** Symptoms
- T** Test ketones & glucose
- O** Oral ingestion of fluid and carbohydrates
- P** Protocol instructions for supplemental insulin & CHOs

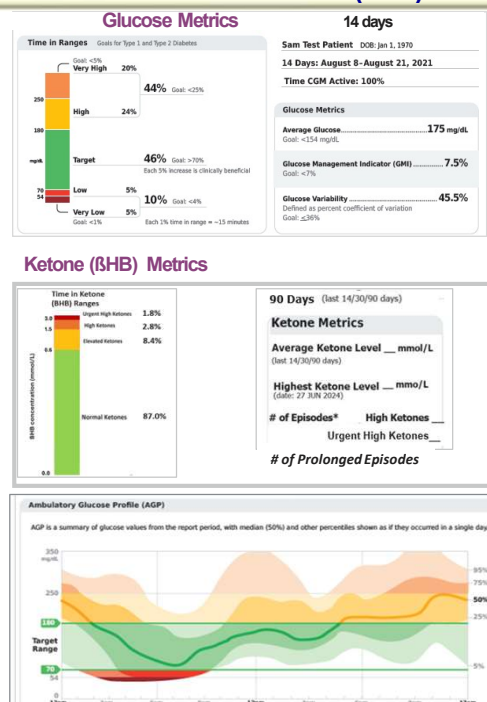
Goldenberg RM, et al.
Diabetes Obes Metab. 2019; 21:2192-2202

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AGP for CGM



AGP for Dual Glucose Ketone (DGK) Sensor



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Preventing Diabetic Ketoacidosis with Continuous Ketone Monitorin: Insights from a Clinical Research Case



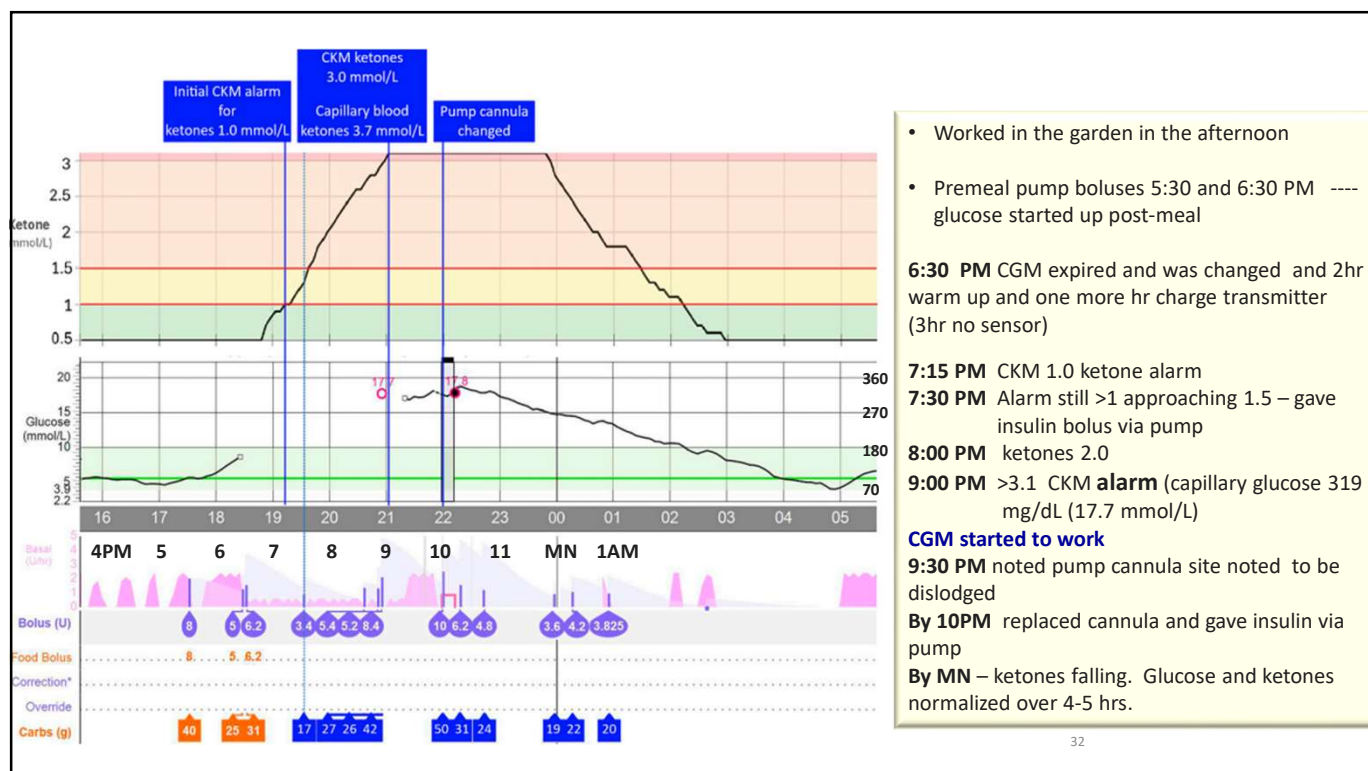
55-year-old male with a 53-year history of type 1 diabetes

- Undetectable C-peptide
- **AID system** with a tubed insulin pump
- Total daily insulin dose was 0.5 units/kg/day
- CGM TIR 83%, TAR 14%
- HbA1c was 6.9% (51.9 mmol/mol)
- Last episode of DKA was during childhood
- In Clinical trial on **Dapagliflozin** 10 mg/d or Placebo
- **Using CKM system in development** - alarms at 1.0
 - BHB 0.6 -1.0 – review data q2-4 hr
 - 1.0-1.5 – suggest change pump sites, hydrate, insulin pen/pump
 - over 1.5 – mandate site change and insulin via pen

Yee Wen Kong, David N. O'Neal, et al,
University of Melbourne, Victoria, Australia
DIABETES TECHNOLOGY & THERAPEUTICS, Online Aug 205

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In Conclusion

Dual Glucose Ketone continuous monitoring has transformed DKA-Prevention...step by step

We have the potential to see this headline in a few years --- **IF:**

1. DKA is recognized as a **clinical problem**
2. We can **accurately** measure ketones and glucose ... **iCGM status**
3. **Approval** by regulators (FDA, CE Mark)
4. We can identify people/populations **most likely to benefit**
5. **Easy to start and wear**
6. Data is **actionable by patients**
7. Data is **actionable by clinicians**
8. DGK In the **Standards of Care** and Covered by **Insurance**



**THANK
YOU**

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CGM-Mediated Improvements in HbA1c and Noninsulin Regimen Adherence

Prof. Monika Kellerer, MD, PhD

Medical Director
Clinic for Internal Medicine 1
Marienhospital Stuttgart
Germany



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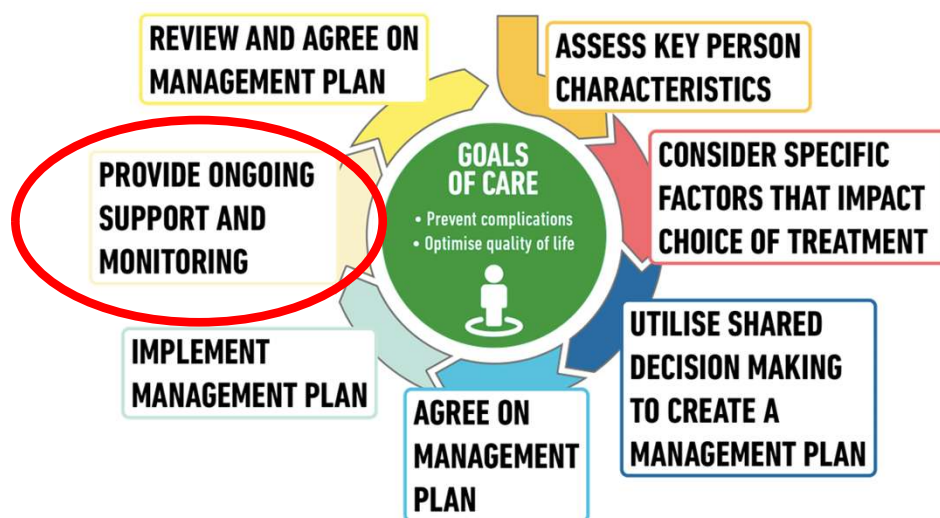
Disclosure

- ▶ Prof. Dr. Monika Kellerer has served as a consultant or has received scientific grant support or honorarium for giving lectures between 2020- 2025 from:

Amgen, Abbott Diabetes Care, ASTRA Zeneca, Bayer AG, BMS, Boehringer Ingelheim, Lilly Diabetes, MSD, MedLearning, Novartis, Novo Nordisk, Roche Diabetes Care, Sanofi, SCIARC

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Person-Centered Glycemic Management in Type 2 Diabetes



Davies MJ, Aroda VR, Collins BS, Gabbay RA, Green J, Maruthur NM, Rosas SE, Del Prato S, Mathieu C, Mingrone G, Rossing P, Tankova T, Tsapas A, Buse JB
Diabetes Care 2022; <https://doi.org/10.2337/dc22-0034>. Diabetologia 2022; <https://doi.org/10.1007/s00125-022-05787->
Joint Consensus Report ADA/EASD 2022—Management of Hyperglycaemia in Type 2 Diabetes

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Place of Diabetes Technology in T2D ADA and EASD Recommendations

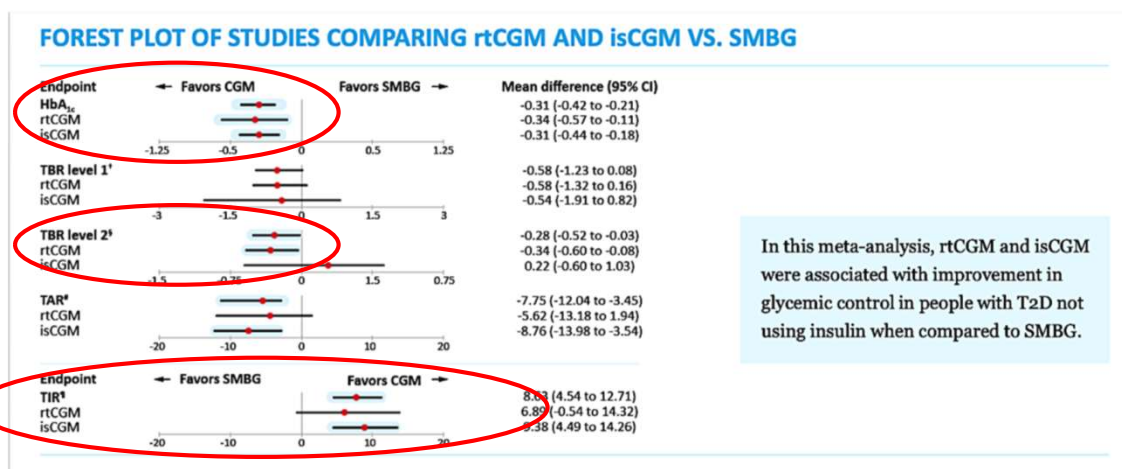


- ▶ Technology can be **useful in people with type 2** diabetes, but needs to be part of an holistic plan of care and supported by DSMES.
- ▶ Recommend real-time CGM (rtCGM) or intermittently scanned CGM (isCGM) for diabetes management to youth and adults with diabetes on **any type of insulin** therapy.
- ▶ Consider using rtCGM and isCGM in adults with type 2 diabetes treated with **glucose-lowering medications other than insulin** to achieve and maintain individualized glycemic goals.
- ▶ In circumstances when consistent use of CGM is not feasible, consider **periodic use** of personal or professional CGM **to adjust medication and/or lifestyle**.

Davies MJ, Aroda VR, Collins BS, Gabbay RA, Green J, Maruthur NM, Rosas SE, Del Prato S, Mathieu C, Mingrone G, Rossing P, Tankova T, Tsapas A, Buse JB
Diabetes Care 2022; <https://doi.org/10.2337/dci22-0034>. Diabetologia 2022; <https://doi.org/10.1007/s00125-022-05787-7>. Joint Consensus Report ADA/EASD 2022—Management of Hyperglycaemia in Type 2 Diabetes
Professional Practice Recommendations, Diabetes Care Volume 48, Supplement 1, January 2025

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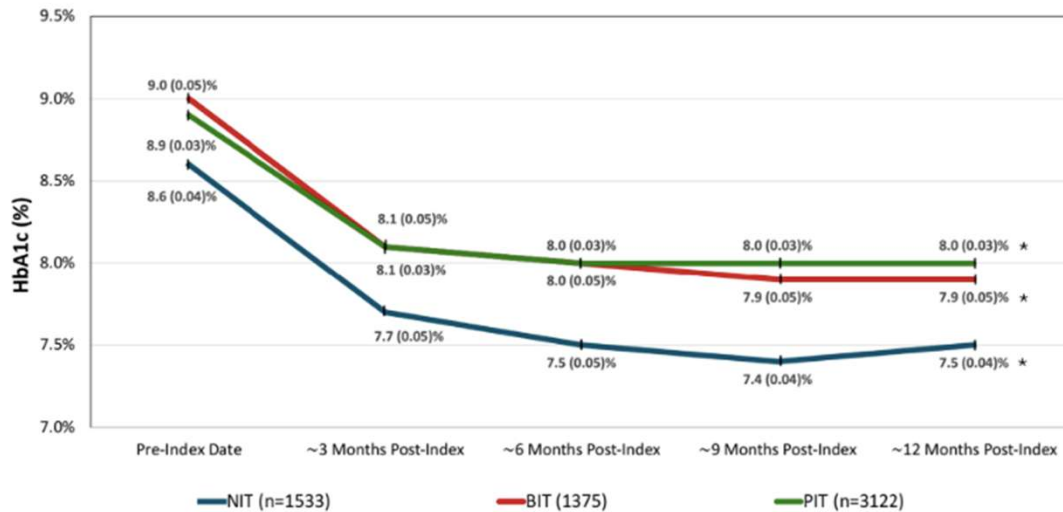
Meta-Analysis Comparing CGM vs. SMBG in T2D Without Insulin Treatment



¶ 70–180 mg/dL (3.9–10.0 mmol/mol), § <50 or <54 mg/dL (<2.8 or <3.0 mmol/L); † <70 mg/dL (<3.0 mmol/L); # >180 mg/dL (>10.0 mmol/L);
Oliva Morgado Ferreira R et al., Diabetes Technol Ther. 2023. doi: 10.1089/dia.2023.0390

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Impact of CGM on Glucose Control in People with T2D With or Without Insulin

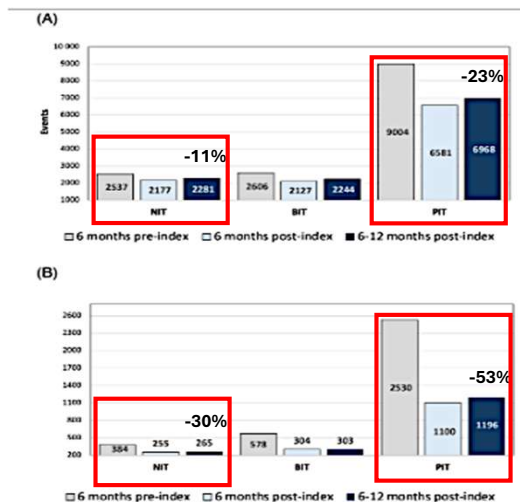


Garg et al., Diabetes Obes Metab. 2024;26:5202–5210

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Impact of CGM on Hospitalization Before and After Initiation of CGM in People with T2D With or Without Insulin

Hospitalization



All-cause

Acute diabetes related

Garg et al., Diabetes Obes Metab. 2024;26:5202–5210

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Health Care Utilization After CGM Initiation Over 12 Months in T2D With and Without Insulin

TABLE 4 12-Month Change in Health Care Resource Utilization by Patient Group

Variable	T1D n=1,926			T2D IIT n=2,934			T2D NIIT n=893			T2D NIT n=1,583		
	Baseline, n (%)	Follow-up, n (%)	Relative change, %	Baseline, n (%)	Follow-up, n (%)	Relative change, %	Baseline, n (%)	Follow-up, n (%)	Relative change, %	Baseline, n (%)	Follow-up, n (%)	Relative change, %
Patients with hospital admissions												
All-cause	324 (16.8)	150 (7.8)	-54*	684 (23.3)	512 (17.5)	-25*	41 (15.8)	111 (12.4)	-21*	199 (12.6)	163 (10.3)	-18
Diabetes-related	204 (10.6)	51 (2.7)	-75*	105 (3.6)	50 (1.7)	-52*	24 (2.7)	9 (1.0)	-63*	29 (1.8)	10 (0.6)	-66*
Patients with emergency department visits												
All-cause	448 (23.3)	367 (19.1)	-18*	945 (32.2)	910 (31.0)	-4	250 (28.0)	248 (27.8)	-1	406 (25.7)	373 (23.6)	-8
Diabetes-related	163 (8.5)	80 (4.2)	-51*	132 (4.5)	93 (3.2)	-30*	39 (4.4)	22 (2.5)	-44*	48 (3.0)	35 (2.2)	-27
Patients with hospital admissions or emergency department visits for diabetes-related complications												
Hyperglycemia	92 (4.8)	30 (1.6)	-67*	72 (2.5)	35 (1.2)	-51*	27 (3.0)	10 (1.1)	-63*	29 (1.8)	15 (0.9)	-48*
Hypoglycemia	50 (2.6)	26 (1.4)	-48*	50 (1.7)	35 (1.2)	-30	7 (0.8)	9 (1.0)	+29	14 (0.9)	9 (0.6)	-36
Diabetic ketoacidosis	160 (8.3)	46 (2.4)	-71*	6 (0.2)	3 (0.1)	-50	1 (0.1)	0 (0.0)	—	1 (0.1)	0 (0.0)	—
Microvascular events	96 (5.0)	40 (2.1)	-58*	89 (3.0)	50 (1.7)	-44*	30 (3.4)	14 (1.6)	-53*	35 (2.2)	18 (1.1)	-49*
Macrovascular events	92 (4.8)	29 (1.5)	-68*	76 (2.6)	39 (1.3)	-49*	29 (3.3)	12 (1.3)	-59*	30 (1.9)	19 (1.2)	-37
Other	4 (0.2)	8 (0.4)	+100	34 (1.2)	32 (1.1)	-6	8 (0.9)	5 (0.6)	-38	10 (0.6)	10 (0.6)	—

Norman GJ et al., J Manag Care Spec Pharm. 2025; 31(1):15-24. doi: 10.18553/jmcp.2024.24255

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EASD 2025 Late-Breaking Abstract



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CGM for People with T2DM not on Insulin— Budget Impact Analysis from a Medicaid Perspective

- ▶ This analysis explored the financial impact over a three-year timespan from a Medicaid perspective covering approximately 72 million lives.
- ▶ Difference in event rates reduction of ACH associated with CGM when compared to SMBG is 1.5 events for MDI users, 0.6 events for basal insulin users, and 0.4 events in non-insulin users.
- ▶ For acute, diabetes-related ER visits, the difference in event rates reduction associated with CGM when compared to SMBG is 2.4 events in MDI users, 1.1 events for basal insulin users, and 0.7 events in non-insulin users
- ▶ From a Medicaid perspective, expansion of CGM reimbursement to all patients with T2DM including non-insulin therapy, when projected at a 15% increase in CGM users from the previous year, was associated a cumulative **cost savings of \$1.7 billion with 143,000 hospitalizations avoided over 3 years.**
- ▶ These net savings are largely due to inpatient hospitalizations avoided when a patient switches from SMBG to CGM use.

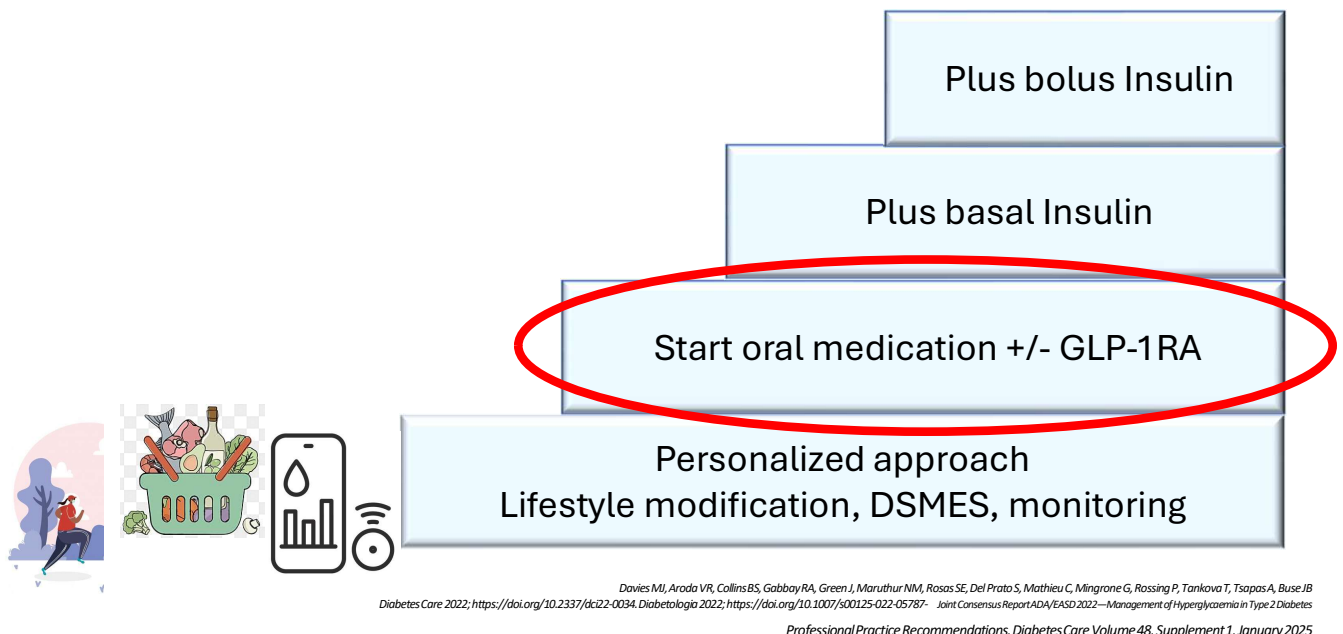
Wright E, et al. EASD 2025

Conclusion

At \$12,880 per ACH stay among patients with T2DM, all-cause hospitalization was the major cost-driver on Medicaid's budget. CGM coverage for beneficiaries with T2DM including those on non-insulin therapy resulted in cost savings from the perspective of Medicaid in the US.

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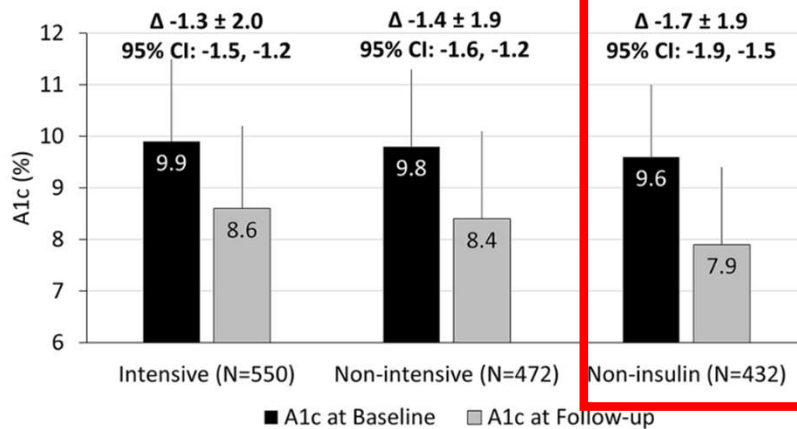
Glucose Management in Type 2 Diabetes Stepwise Approach



44

Place of CGM in the Background of GLP-1R Agonists

Effects are Consistent in T2D Taking GLP-1RA Together with Different Insulin Regimens



Miller et al., *Diabetes Ther* (2024) 15:2027–2038 <https://doi.org/10.1007/s13300-024-01619-1>

45

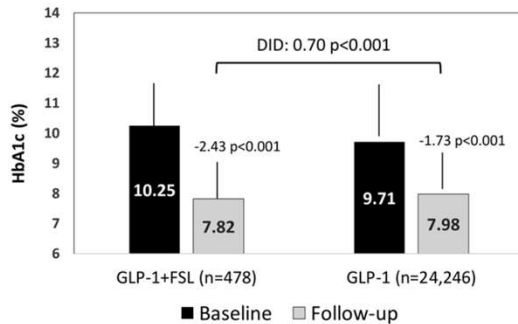
Initiating GLP-1 Therapy in Combination with CGM (FreeStyle Libre) Provides Greater Benefit Compared with GLP-1 Therapy Alone

Geography	US		
Population	Total: N = 24,724 GLP-1 RA: n = 24,246 GLP-1 RA+FSL n = 478	T2D on GLP-1 RA with HbA _{1c} ≥ 8 %	Age: ≥18
Endpoints	<ul style="list-style-type: none"> Comparison of paired changes in HbA_{1c} between unmatched and matched groups at 6 months 		
Design	<ul style="list-style-type: none"> Real-world, retrospective, observational study (First medication of GLP-1 RA: 2018–2022) Data source: Optum's de-identified Market Clarity Data Matching cohort: ratio 1:5; on age, sex, baseline HbA_{1c}, insulin type, first GLP-1 RA medication 		

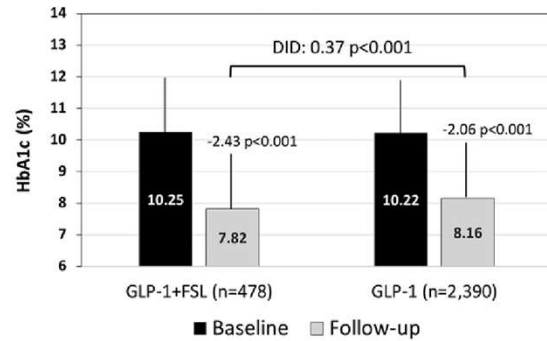
Wright et al., *Diabetes Technology & Therapeutics* Vol. 26, No. 10. <https://doi.org/10.1089/dia.2024.0015>

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Initiating GLP-1 Therapy in Combination with CGM (FreeStyle Libre) Provides Greater Benefit Compared with GLP-1 Therapy Alone



*Error bars are mean standard deviation (Std). DID = Difference in Difference



Wright et al., *Diabetes Technology & Therapeutics* Vol. 26, No. 10. <https://doi.org/10.1089/dia.2024.0015>

47

Interim Summary

- Initiation of CGM improves HbA_{1c} and TiR levels in T2D irrespective whether they are on insulin treatment or not.
- Adults with T2D and prior GLP-1 RA therapy experienced significant improvements in HbA_{1c} 6 months after initiating CGM (FSL).
- If people with T2D initiate GLP-1 RA treatment **together** with CGM (FSL), they achieve better HbA_{1c} values compared to those treated with GLP-1 RA only.

Miller et al., *Diabetes Ther* (2024) 15:2027–2038 <https://doi.org/10.1007/s13300-024-01619-1>; Garg et al., *Diabetes Obes Metab.* 2024;26:5202–5210; Wright et al., *Diabetes Technology & Therapeutics* Vol. 26, No. 10. <https://doi.org/10.1089/dia.2024.0015>

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Adherence with CGM-Based Therapy



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EASD 2025 Late-Breaking Abstract



50

Clinical Burden Associated with Type 2 Diabetes in France: An Update from the National Insurance Claim Database

- ▶ The ESND sample provides a representative overview of the T2DM population in France.
- ▶ The incidence of hospital stays for coronary revascularization, unstable angina pectoris, transient ischemic attack, heart failure, myocardial infarction, stroke, arteriopathy of the lower limbs, lower limb amputation and end-stage renal failure were respectively 3.8%, 0.9%, 0.6%, 2.5%, 2.4%, 2.1%, 1.8%, 0.5%, and 3.0% in the T2DM cohort.
- ▶ The standardized relative risks of macro and microvascular complications were higher in the T2DM group.
- ▶ Compared to 2013 data, distribution of patients across treatment lines was consistent, counting 40% on monotherapy, 24.8% on bi-therapy, 13% on triple therapy, and 20.3% on insulin (including 11.2% on basal insulin).
- ▶ SGLT2i were prescribed in 9.9% of patients, GLP1-RA in 17%, and CGM in 5.6% respectively. 65% of patients maintained the same pharmaceutical treatment regimen throughout 2022.

Riveline, J-P, et al. EASD 2025

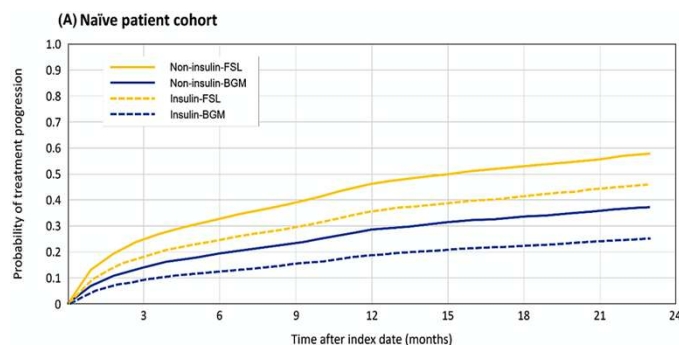
Conclusion

T2DM patients have higher risk of micro and macro vascular complications compared to non-diabetic population. Treatment inertia is a major challenge in diabetes management, increasing the risk of future complications.

Expanding access to new treatments, including CGM, could reduce treatment inertia and improve clinical outcomes for the T2DM population

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Place of CGM to Improve Therapeutic Inertia in Type 2 Diabetes

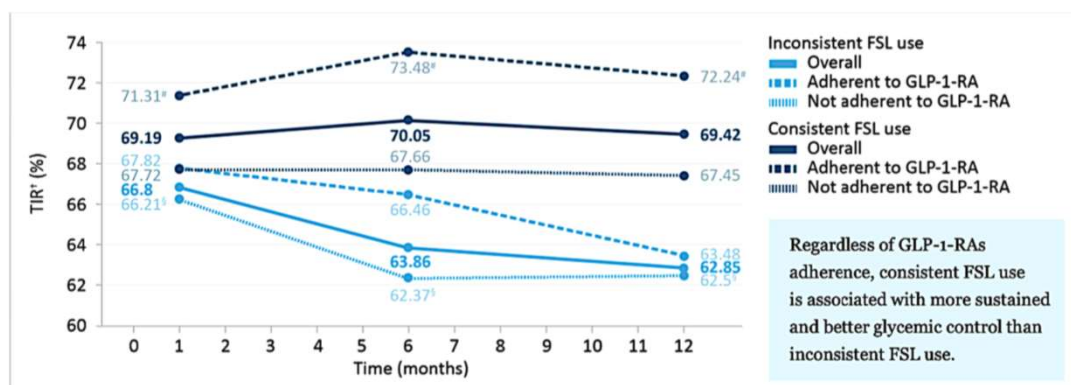


- ▶ PwT2D using FSL had a greater probability for treatment progression.
- ▶ Thus, CGM may be useful to improve therapeutic inertia in PwT2D

Harris et al, Diabetes Obesity Metabolism, Volume: 25, Issue: 6, Pages: 1704-1713, First published: 21 February 2023, DOI: (10.1111/dom.15025)

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Mean TIR† From Baseline To 12 Months, By GLP-1-RA Adherence and CGM Utilization



† 70–180 mg/dL (3.0–10.0 mmol/L); Adherent: >80% PDC

GLP-1-RAs = Glucagon-Like Peptide-1 Receptor Agonists; PDC = Proportion of Days Covered (with FSL glucose reading or proportion of days' supply for all fills of GLP-1-RAs, respectively, within 12 months post FSL initiation)

Huang E et al., ADA 2024, Diabetes 2024;73(Supplement_1):1917-LB.

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Continuous Glucose Monitoring as a Behavior Modification Tool

- 1) While using continuous glucose monitoring (CGM) did you notice how different food choices affected blood sugar?
☐ Yes ☐ No ☐ I do not know
- 2) After CGM use, do you feel that you:
☐ Limited sugared beverages
☐ Excluded sugared beverages
☐ Made no changes to sugared beverage choices
☐ I never drank sugared beverages prior to CGM use
- 3) After CGM use, do you feel that you excluded or limited rice?
☐ Yes ☐ No ☐ I excluded rice prior to CGM use
- 4) After CGM use, do you feel that you excluded or limited cereal?
☐ Yes ☐ No ☐ I excluded cereal prior to CGM use
- 5) After CGM use, do you feel that you read labels for fiber content more?
☐ Yes ☐ No ☐ I already looked at fiber content ☐ I do not know
- 6) Are there any foods you limited or excluded after CGM use? Please list up to your top three or write "none." _____
- 7) Do you think CGM use made you more likely to be more active/increase your exercise?
☐ Yes ☐ No ☐ I was already very active ☐ I do not know
- 8) Were you more likely to go for a walk or do physical activity after a meal if you saw rising blood sugars on your CGM device?
☐ Yes ☐ No ☐ I already walked or was more active after meals ☐ I do not know
- 9) Overall, do you feel that CGM use contributed to you making changes for a healthier lifestyle?
☐ Yes ☐ No ☐ I do not know

CGM Questionnaire

- ▶ 18 item questionnaire
- ▶ Current CGM users with any type of diabetes have been interviewed to determine their perceptions of how CGM affects their nutrition and physical activity choices.

Ehrhardt N and Zaghal AI, Clinical Diabetes, 2020; 38(2): 126-131

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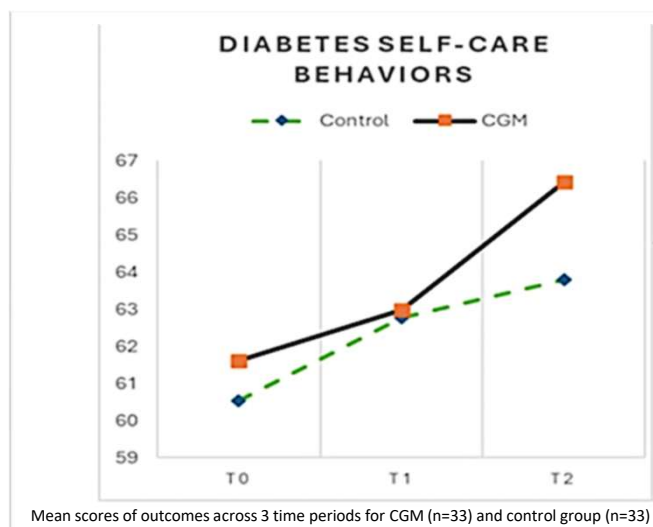
Continuous Glucose Monitoring as a Behavior Modification Tool

- ▶ 90% of continuous glucose monitoring (CGM) users felt that its use contributed to a **healthier lifestyle**
- ▶ 47% of CGM users reported being more likely to go for a walk or do **physical activity** if they saw a rise in their glucose levels
- ▶ 87% of CGM users felt that they **modified their food choices** based on CGM use

Ehrhardt N and Zaghal AI, Clinical Diabetes, 2020; 38(2): 126-131

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Impact of CGM on Diabetes Self-Care Behaviours (RCT)



*Chang, H.-Y. et al., The Impact of Self-Regulation Education Combined with Continuous Glucose Monitoring (CGM) on Diabetes Outcomes: A Randomized Controlled Study. Nurs. Rep. 2025, 15, 94
T1: 8 days, T2: 3 months*

56

EASD 2025 Late-Breaking Abstract



57

Addressing the Shortfalls of GMI and HbA1c: Validation of Updated GMI and Personalized A1c

- ▶ A 26-week study of adults with T1D or T2D collected CGM data throughout and HbA1c every 2 weeks
- ▶ HbA1c-GMI regression slope was 25% above unity, which improved with uGMI to within 3% of unity
- ▶ GMI-HbA1c and uGMI-HbA1c correlations demonstrating modest agreement ($R^2=0.81$ both) and large spread as shown by wide prediction intervals.
- ▶ Use of pA1c reduced data spread with pA1C-uGMI showing improved correlations ($R^2=0.93$) while maintaining near unity slope.
- ▶ These findings were consistent in those **with T2D, who would particularly benefit from using pA1c rather than HbA1c, as uninterrupted CGM is not routinely used in this population.**

Conclusion

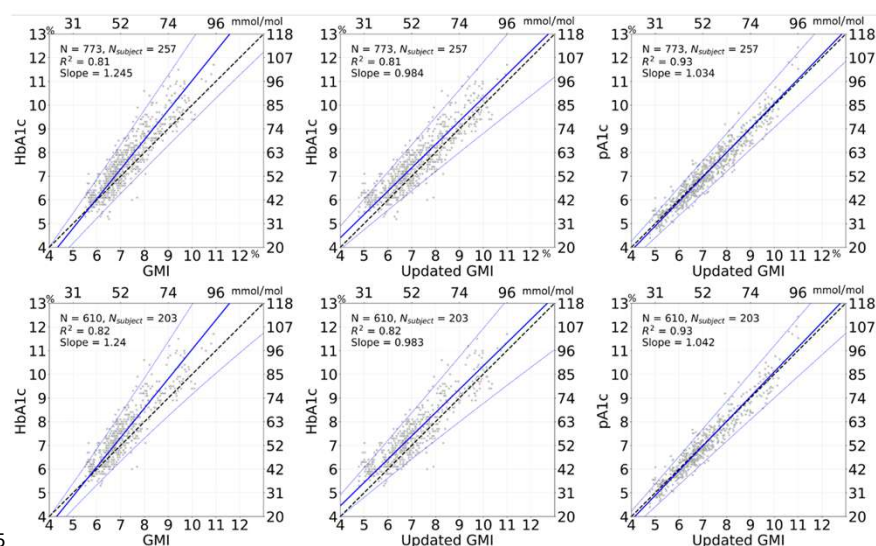
The updated GMI improves the alignment with HbA1c and alleviates concerns in relation to over- and under-estimating HbA1c in cohort level, while **personalized A1C improves the correlation with this CGM-derived metric** by adjusting for variability in red blood cell physiology.

Ajjan R, et al. EASD 2025

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Addressing the Shortfalls of GMI and HbA1c: Validation of Updated GMI and Personalized A1c

HbA1c, GMI, Updated GMI and pA1c Regressions in the GDAC Study



Ajjan R, et al. EASD 2025

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Summary

- ▶ Initiation of CGM improves HbA_{1c} and TiR levels in T2D irrespective whether they are on insulin treatment or not.
- ▶ Adults with T2D and prior GLP-1 RA therapy experienced significant improvements in HbA_{1c} 6 months after initiating CGM (FSL).
- ▶ If people with T2D initiate GLP-1 RA treatment **together** with CGM (FSL), they achieve better HbA_{1c} values compared to those treated with GLP-1 RA only.
- ▶ **CGM has shown to be useful in reducing therapeutic inertia.**
- ▶ **CGM supports PwT2D to be more adherent to healthy lifestyle behavior.**

Miller et al., *Diabetes Ther* (2024) 15:2027–2038 <https://doi.org/10.1007/s13300-024-01619-1>; Garg et al., *Diabetes Obes Metab.* 2024;26:5202–5210; Wright et al., *Diabetes Technology & Therapeutics* Vol. 26, No. 10. <https://doi.org/10.1089/dia.2024.0015>; Harris et al, *Diabetes Obesity Metabolism*, Volume: 25, Issue: 6, Pages: 1704-1713, First published: 21 February 2023, DOI: (10.1111/dom.15025) ; Huang E et al., *ADA 2024, Diabetes 2024*;73(Supplement_1):1917-LB. ; Ehrhardt N and Zaghal AI, *Clinical Diabetes*, 2020; 38(2): 126-131; Chang et al., *Nurs. Rep.* 2025, 15, 94

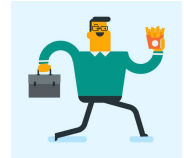
60

Clinical Case Presentation



Peter is a 58 year old man

Medical history	Type 2 diabetes for 8 years
Co-Morbidities	Diabetes complications: Peripheral polyneuropathy, CKD G2A2, fatty liver disease
Medications	<ul style="list-style-type: none">• HbA1c 1 year ago was 7.5%, now it is 9.1%• Blood pressure: 126/74 mmHg• BMI: 30.7 kg/m2

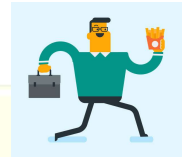


61

Clinical Case Presentation

Most recent antidiabetic medication:

- ▶ Metformin 1000mg BID
- ▶ Empagliflozin 10mg QD
- ▶ Semaglutide 1mg s.c. per week



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Clinical Case Presentation

Social:

- Married, works as an independent management consultant, does a lot of business traveling
- He attributes his worsening of glycemic control on his very irregular lifestyle. He eats rather unhealthy highly processed food during traveling.
- GLP-1RA injections occur irregularly (only when he is at home).
- Right now he is worried about his recent eye exam showing new onset diabetic retinopathy and he is motivated to get his blood sugar under control again

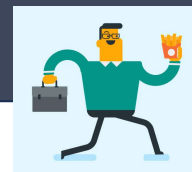


Glucose data were limited:

SMBG-values of the last 5 days: fasting: 230, 197, 250, 172, 205 mg/dl
12.8, 10.9, 13.9, 9.5, 11.4 mmol/l

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Clinical Case Presentation

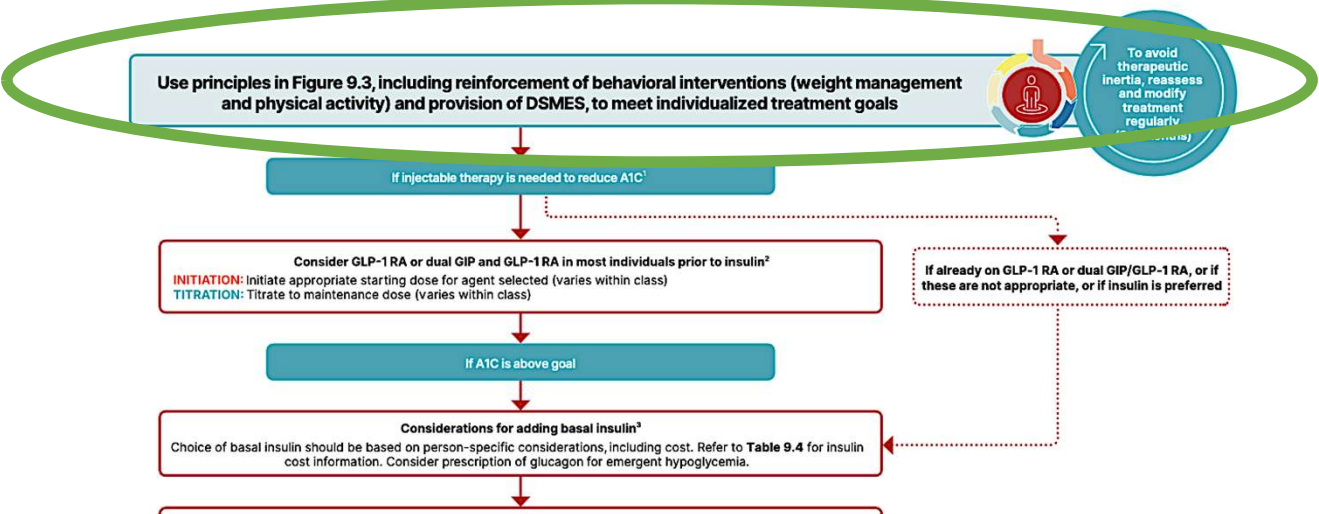


Your Choice?

- 1) No change and wait – he might improve
- 2) Since he is not on target with OAD and GLP1-RA start basal insulin
- 3) Re-evaluate lifestyle habits and give advice for improving glucose control
- 4) Get more information by introducing CGM

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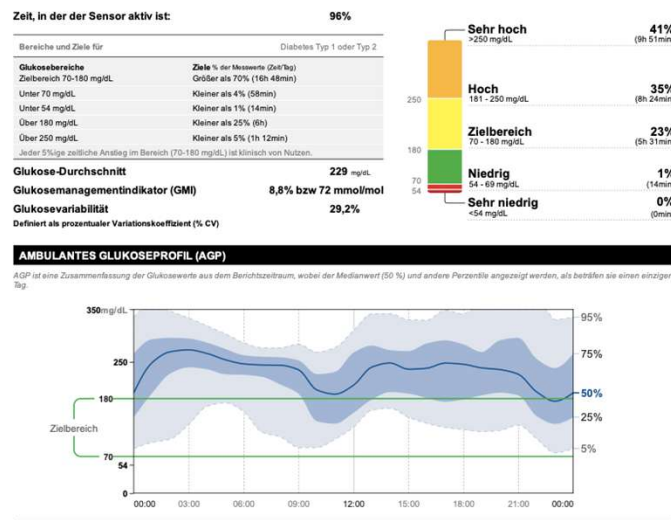
Reinforce Lifestyle Management Before Escalating Medical/Injectable Therapy



Davies MJ, Arora VR, Collins BS, Gabbay RA, Green J, Maruthur NM, Rosas SE, Del Prato S, Mathieu C, Mingrone G, Rossing P, Tankova T, Tsapas A, Buse JB
 Diabetes Care 2022; <https://doi.org/10.2337/dci22-0034>. Diabetologia 2022; <https://doi.org/10.1007/s00125-022-05787-7> Joint Consensus Report ADA/EASD 2022—Management of Hyperglycemia in Type 2 Diabetes
 Professional Practice Recommendations, Diabetes Care Volume 45, Supplement 1, January 2022

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Clinical Case Presentation



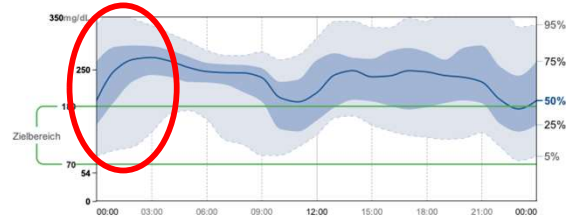
2 week review
with rtCGM

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Clinical Case Presentation

AMBULANTES GLUKOSEPROFIL (AGP)

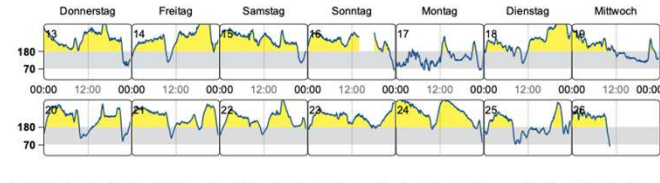
AGP ist eine Zusammenfassung der Glukosewerte aus dem Betrachtungszeitraum, wobei der Medianwert (50 %) und andere Perzentile angezeigt werden, als befanden sie einen einzigen Tag.



Often stays in the hotel bar in the evening and snacks a lot

TÄGLICHE GLUKOSEPROFILE

Jedes Tagesprofil bezieht sich auf den Zeitraum von Mitternacht bis Mitternacht, wobei das Datum in der oberen linken Ecke angezeigt wird.



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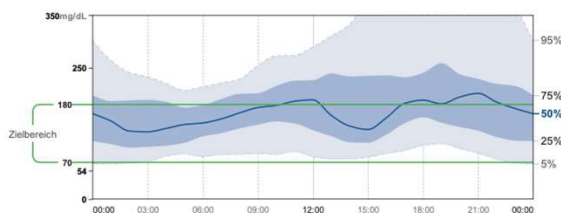
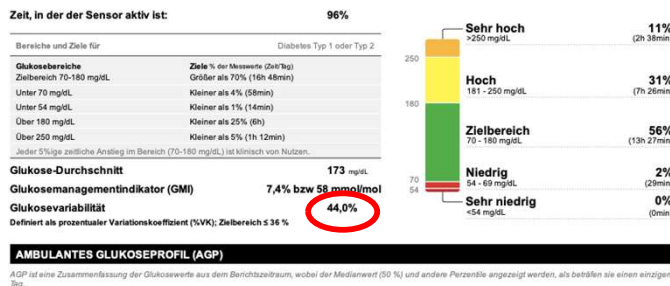
Clinical Case Presentation

Your Recommendation?

- 1) Start with basal insulin to reduce high fasting levels
- 2) Discuss the CGM data with patient, show the influence of unhealthy lifestyle to make a change here
- 3) Switch to another GLP-1 RA

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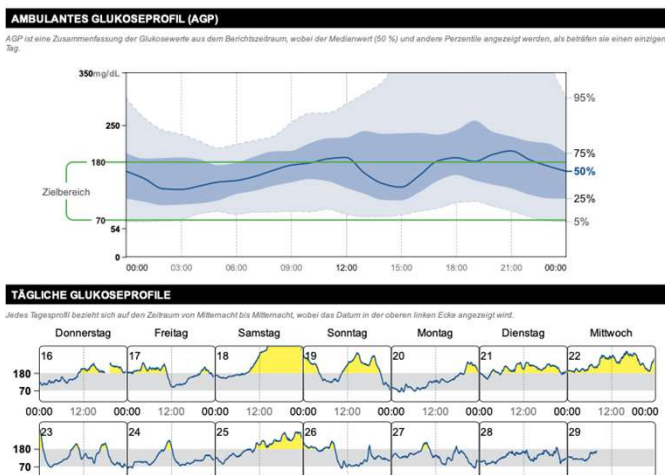
Clinical Case Presentation



- Diabetes educators discussed CGM-profile, gave nutritional education, recommended Peter use the gym in the hotel and motivated patient by DSMES
- We did not switch GLP1-RA, but encouraged to inject it regularly.
- 4 weeks later:

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Clinical Case Presentation

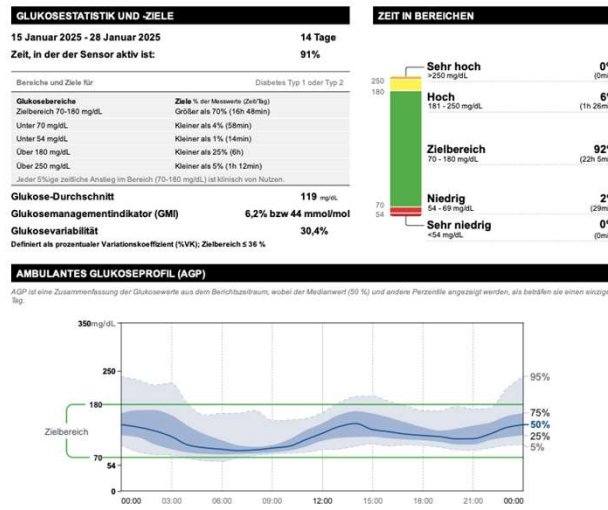


- Diabetes educator: He is doing much better, they discussed recent CGM-profile with still high glucose variation during afternoon and evening.
- Patient is willing to try intermittent fasting (no food 5pm and later)
- 4 months later:

70

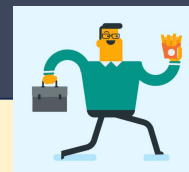
Clinical Case Presentation

Significant Improvement Only With Lifestyle Changes Together With CGM and DSMES



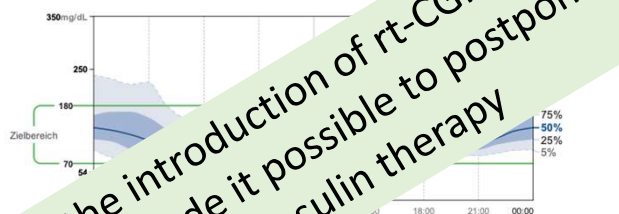
71

Clinical Case Presentation



AMBULANTES GLUKOSEPROFIL (AGP)

AGP ist eine Zusammenfassung der Glukosewerte aus dem Berichtszeitraum, wobei der Medianwert (50 %) und andere Perzentile angezeigt werden, als bestellten sie einen einzigen Tag.



In his case the introduction of rt-CGM together with DSMES made it possible to postpone the start of insulin therapy

Peter:

To be honest I never really liked to do the finger pricks and with CGM I got out so much more information about my glucose levels in every day life. With CGM I could see the tremendous influence of exercise and food in my case. That was really very helpful and changed my behaviour.

He successfully reduced weight by 6 kg and his last HbA1c was 6.9%.

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Thank you for your attention!

Monika Kellerer
Medical Director
Devision for Internal Medicine 1
Department for Diabetology and Endocrinology
Marienhospital Stuttgart
Germany



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The Foundational Role of CGM for Personalized HbA1c Optimization

Ramzi Ajjan, MD, PhD

Professor of Metabolic Medicine
University of Leeds and Leeds Teaching
Hospitals Trust Leeds, United Kingdom



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Disclosures

Company Name	Honoraria/ Expenses	Consulting/ Advisory Board	Funded Research
Abbott	x	x	x
AstraZeneca	x	x	
Bayer	x	x	x
Boehringer Ingelheim	x	x	
Bristol-Myers Squibb	x	x	
Dexcom		x	
Eli Lilly	x	x	x
Glaxo SmithKline	x	x	
Menarini Pharmaceuticals	x	x	
Merck Sharp & Dohme	x	x	
NovoNordisk	x	x	x
Roche			x
Takeda	x	x	X

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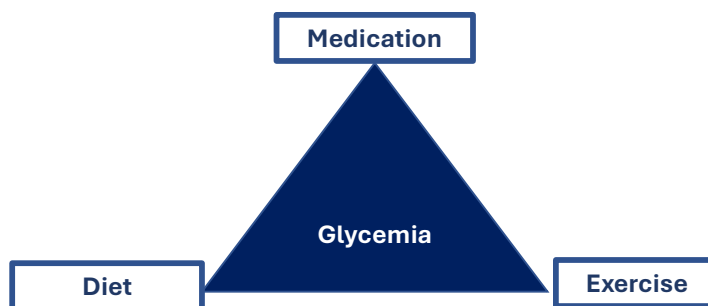
Managing Glycemia in Diabetes

In T2D

- Exercise
- Diet
- Medication

In T1D

- Medication (insulin)
- Exercise and diet also become important in those who develop features of insulin resistance



The problem: Hyperglycemia can be asymptomatic;
no reaction to what you do not feel!

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CGM as a Behaviour Modification Tool

In 40 participants with insulin-treated diabetes (78% on pumps), a survey showed:

88%

noticed that food choices affected glucose levels

43%

reported being more active after CGM use (28% were already active and 23% no difference)

90%

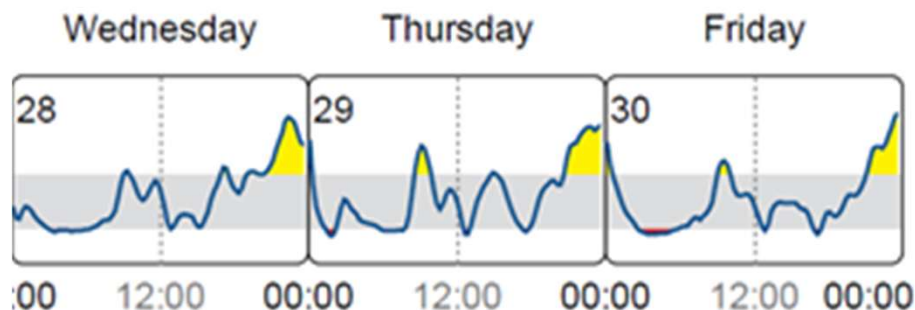
felt that CGM contributed to a healthier lifestyle

- 1) While using continuous glucose monitoring (CGM) did you notice how different food choices affected blood sugar?
☐ Yes ☐ No ☐ I do not know
- 2) After CGM use, do you feel that you:
☐ Limited sugared beverages
☐ Excluded sugared beverages
☐ Made no changes to sugared beverage choices
☐ I never drank sugared beverages prior to CGM use
- 3) After CGM use, do you feel that you excluded or limited rice?
☐ Yes ☐ No ☐ I excluded rice prior to CGM use
- 4) After CGM use, do you feel that you excluded or limited cereal?
☐ Yes ☐ No ☐ I excluded cereal prior to CGM use
- 5) After CGM use, do you feel that you read labels for fiber content more?
☐ Yes ☐ No ☐ I already looked at fiber content ☐ I do not know
- 6) Are there any foods you limited or excluded after CGM use? Please list up to your top three or write "none." _____
- 7) Do you think CGM use made you more likely to be more active/increase your exercise?
☐ Yes ☐ No ☐ I was already very active ☐ I do not know
- 8) Were you more likely to go for a walk or do physical activity after a meal if you saw rising blood sugars on your CGM device?
☐ Yes ☐ No ☐ I already walked or was more active after meals ☐ I do not know
- 9) Overall, do you feel that CGM use contributed to you making changes for a healthier lifestyle?
☐ Yes ☐ No ☐ I do not know

Ehrhardt & Al-Zaghal, Clin Diab 2020; 38(2):126–131

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CGM and Food (The Banana Effect)



Data on file – Prof Ramzi Ajjan

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CGM in T2D Treated with OAD or Basal Insulin PDF Trial

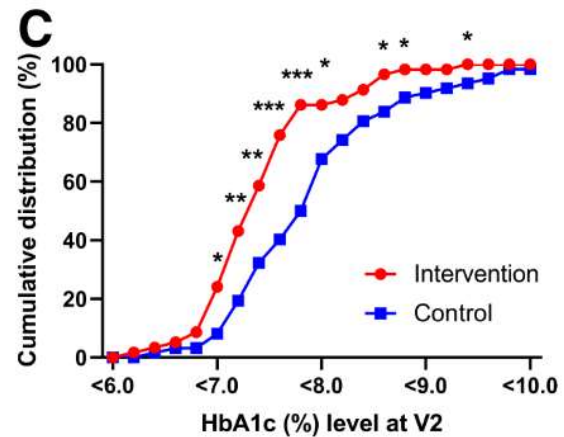
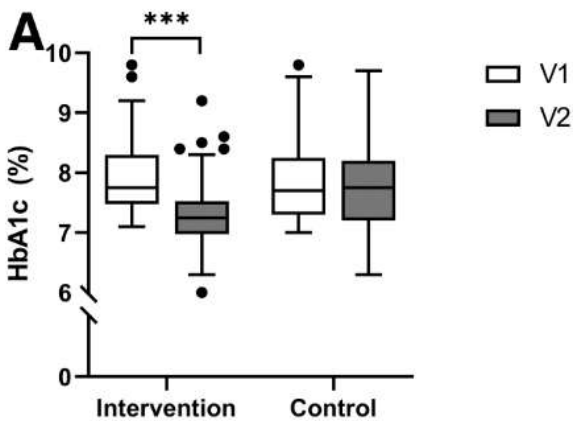
Motivate lifestyle modification through patient-driven healthier food choices

Korea, n=126, 3m

OAD and/or basal insulin (27.5%)

Structured education + isCGM vs Standard care with BGM

Mean Age 58, A1c 7.9%



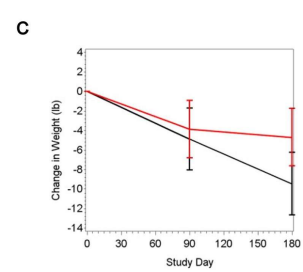
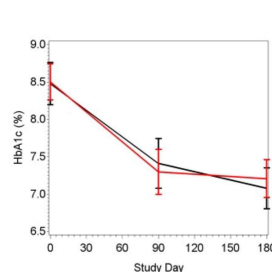
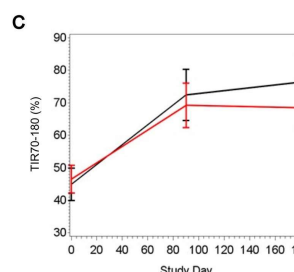
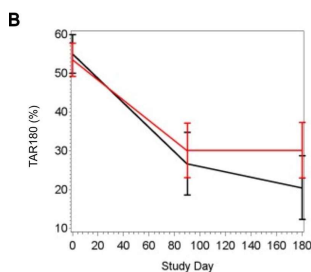
Cheo HJ. et al., Diabetes Care. 2022; 45(10):2224-22

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CGM and Glycemia

T2D patients not on insulin were randomised to:

- ▶ CGM alone (black lines; n=31) or CGM plus food diaries (red lines; n=41)
- ▶ 52% men, age<65 years 75%, white 71%
- ▶ No medication change in the first 3 months



Martens et al, Diab Technol Ther 2025, Epub; <https://doi.org/10.1089/dia.2024.0579>

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Clinical Case #1



Kaleb is 25 years old

Past medical history

- MDI-treated (not keen on a pump)
- Seen in clinic and wanted to talk about hypos

1. Occurred due to overcorrection.
2. Overestimated bolus.
3. The one that scared me: “team building activities” (go-karting then a few drinks). Now I understand what alcohol can do to you, particularly when combined with activities.

AGP Report

26 June 2025 - 9 July 2025 (14 Days)

LibreView

GLUCOSE STATISTICS AND TARGETS

26 June 2025 - 9 July 2025

Time sensor active:

100%

Ranges And Targets For

Glucose Ranges

Target Range 3.9-10.0 mmol/L

Below 3.9 mmol/L

Below 3.0 mmol/L

Above 10.0 mmol/L

Above 13.9 mmol/L

Targets % of readings (Time/Day)

Greater than 75% (18h 45min)

Less than 4% (58min)

Less than 1% (14min)

Less than 20% (30h)

Less than 5% (1h 12min)

Each 1% increase in time in range (3.9-10.0 mmol/L) is clinically beneficial

Average Glucose

7.8 mmol/L

Glucose Management Indicator (GMI)

6.7% or 49 mmol/mol

Glucose Variability

37.4%

Defined as percent coefficient of variation (%CV), target 33%

TIME IN RANGES

14 Days

100%

Very High

High

Target Range

Low

Very Low

4%

18%

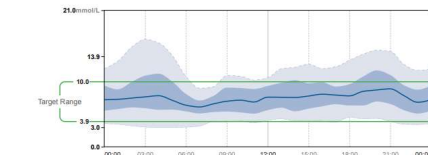
71%

6%

1%

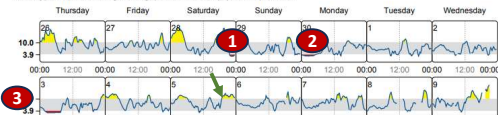
AMBULATORY GLUCOSE PROFILE (AGP)

AGP is a summary of glucose values from the report period, with median (50%) and other percentiles shown as following in a single day.



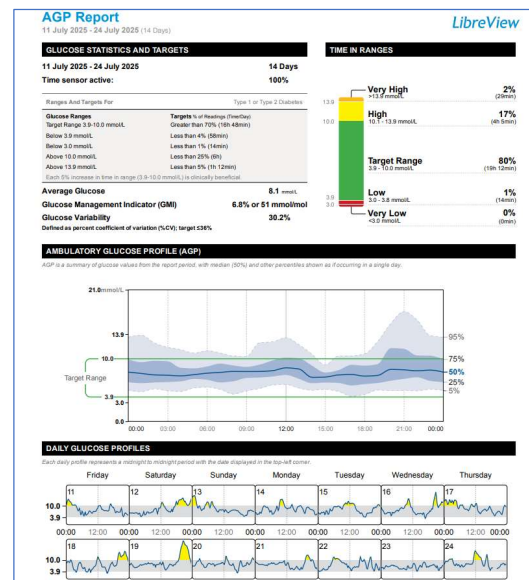
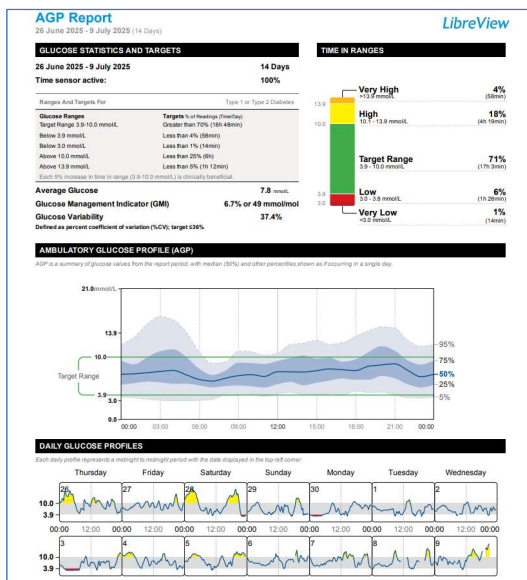
DAILY GLUCOSE PROFILES

Each day's profile represents a night-to-night period with the data displayed in the box below.



81

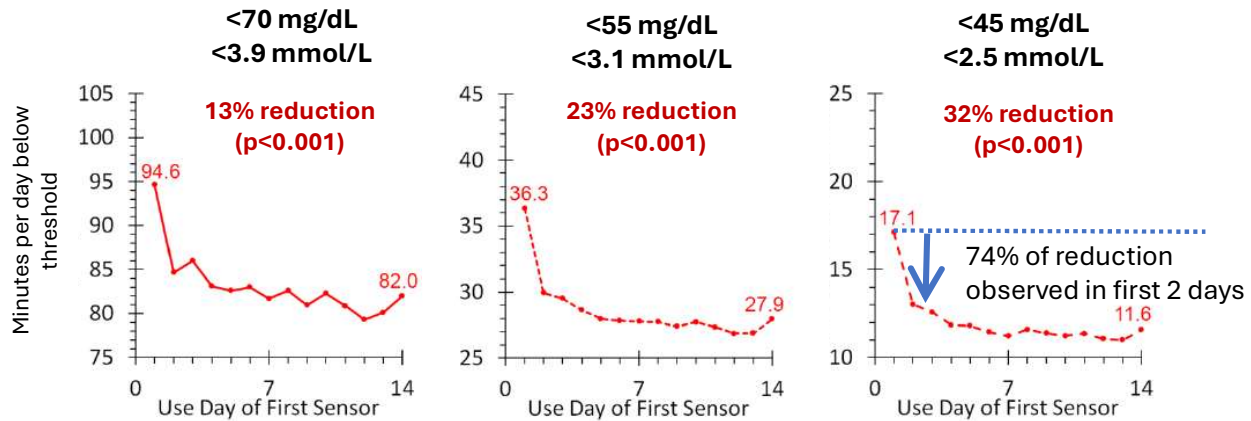
Clinical Case #1 - Was This Maintained?



82

Changes in Hypoglycemia Following First CGM Use

Real-world: 1st sensor of 14,617 users



Dunn, et al. Diabetes Research and Clinical Practice, 2018

83

Clinical Case #2



Ahmed is a 21 year old man

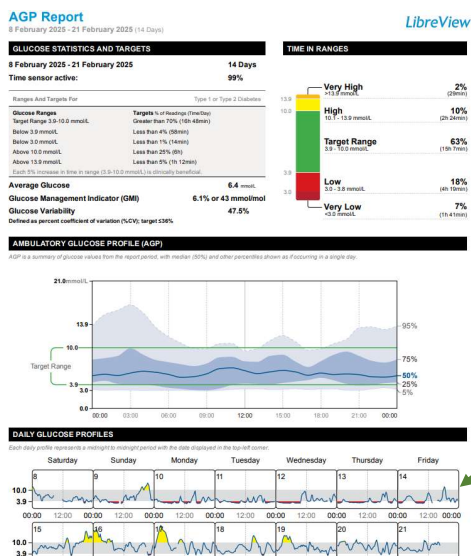
Medical history	Type 1 diabetes for 9 years
Co-Morbidities	None (but patient is terrified of having future complications)
Medications	Glargine (30 units) and aspart (1.0-1.5 u:10 carbs); does not want a pump

- Weight 54 kg, BMI 21.2 kg/m²
- HbA1c 6.4% (47 mmol/mol)

- Says all is fine and hypoglycaemia is infrequent with good warnings

84

Clinical Case #2



Which of the followings is correct:

- 1) This is excellent control supported by GMI of 43 mmol/mol (6.1%)
- 2) Hypoglycaemia needs urgent attention
- 3) Hypoglycaemia is not an issue as it is clearly related to sensor compression
- 4) This is "pseudohypoglycaemia" as GV>45%

85

Clinical Case #3



Rosie is 67 years old

Past medical history

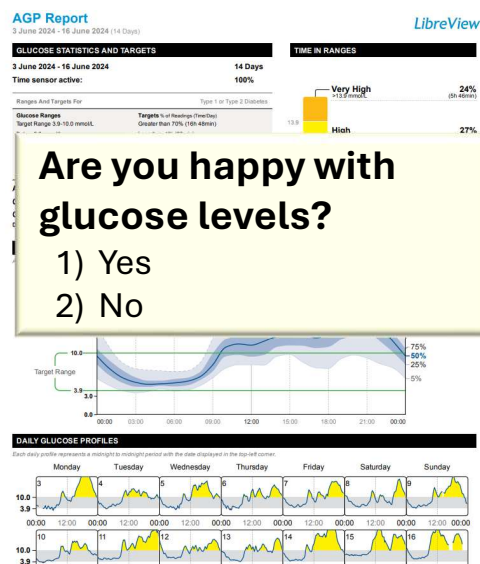
- Type 2 diabetes for 19 years
- Strong FH of IHD

Measurements

- Weight 82 kg, BMI 30.3 kg/m²
- HbA1c 8.5% (69 mmol/mol)

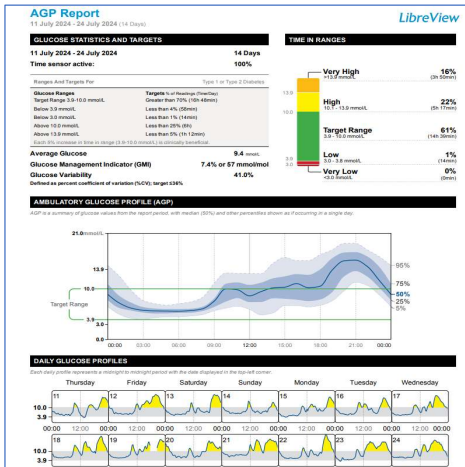
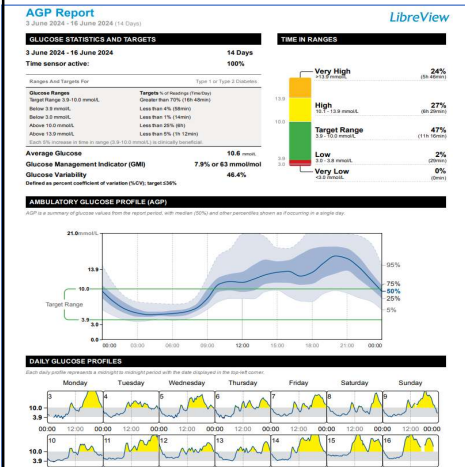
Medications

- Humalog mix 25 bd (44 and 24 units)
- Tirzepatide 5 mg/week
- Empagliflozin 25 mg od
- Metformin 1 gr bd



86

Clinical Case #3—Progress

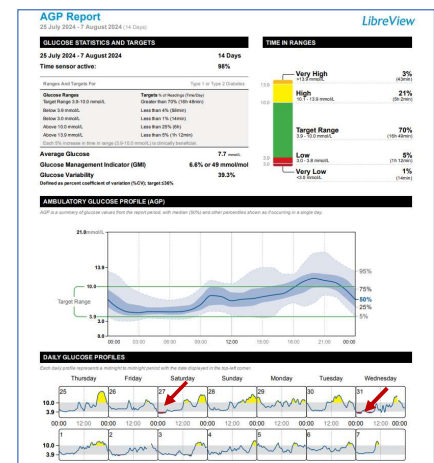
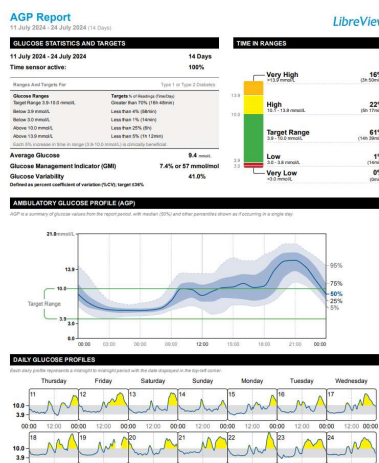
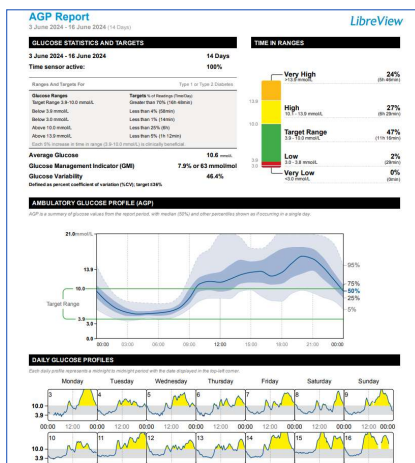


Possibilities

- 1) Insulin dose was increased
- 2) Tirzepatide dose was increased
- 3) Patient is undertaking more exercise
- 4) 1 and 2

87

Clinical Case #3—Progress



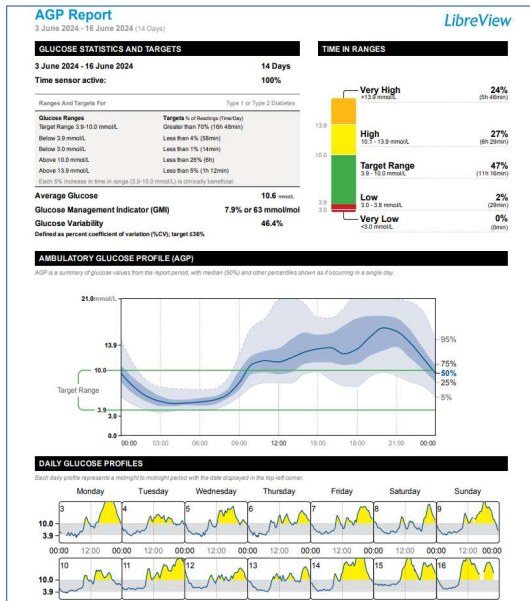
Insulin doses were reduced

Take home message

Do not underestimate the role of exercise
(gentle and regular rather than intense and infrequent)

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Clinical Case #3—one more thing...



This lady had an HbA1c of 8.5%
(69 mmol/mol)

Looking at 90 days CGM prior to HbA1c, GMI
was 7.8% (62 mmol/mol)

Shall I rely on GMI or HbA1c?

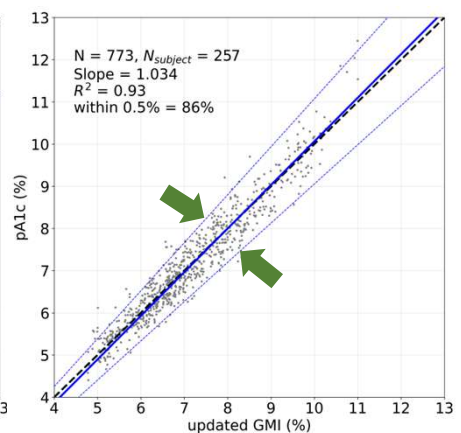
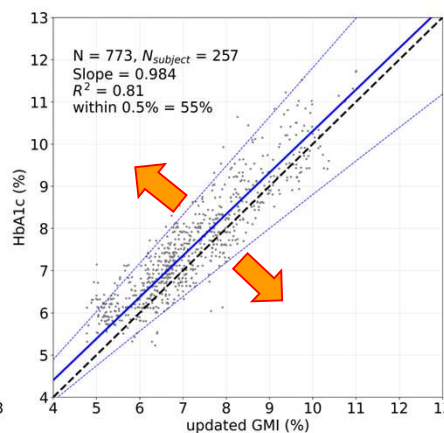
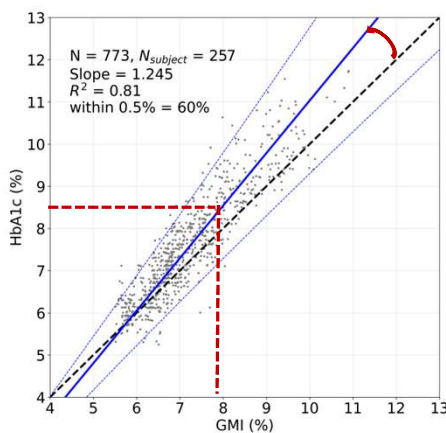
89

Addressing the Shortfalls of GMI and HbA1c: Validation of Updated GMI and Personalized A1c

Current GMI overestimates HbA1c at
lower glucose and underestimates at
higher glucose levels

Updated GMI formula fixes the "slope"
but there is still a wide spread of data
due to inter-individual RBC variability

Use of personalised A1c, that corrects
for RBC differences between
individuals, improves the relationship



Ajjan R et al. GDAC study - EASD 2025, SO 089, Thursday; 12:45-13:45

90

Clinical Case #4



Dave is a 52-year-old man

Past medical history

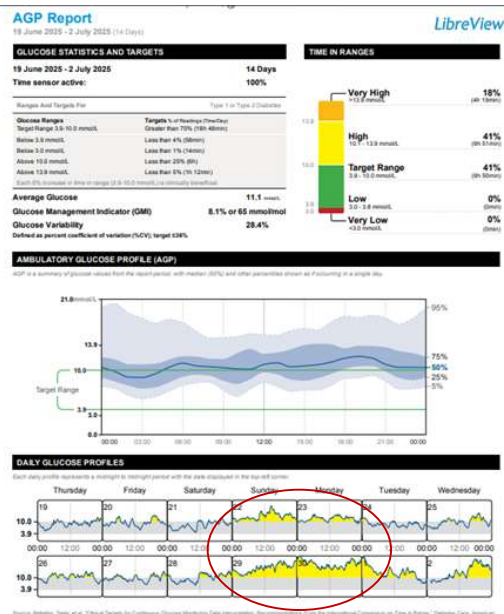
Type 2 diabetes
Works in a supermarket (shelving)

Medications

- Metformin 2 gr/day
- Semaglutide 1 mg once/week
- Insulin Glargine 34 units once/day

Background

- Works days Thursday-Saturday
- Night-shift Tuesday-Wednesday



91

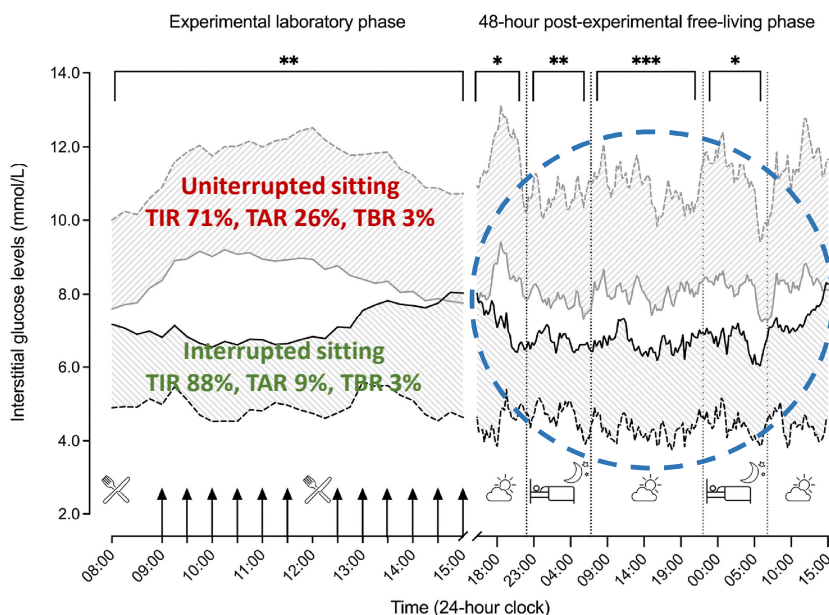
Exercise is Also Important in T1D

T1D (n=32, 17 females)
randomised cross-over
study with > 7d washout:

- Uninterrupted sitting for 7 hrs
- Interrupted sitting every 30 mins (3 mins walking)

HbA1c 68±2.3 mmol/mol (8.4%)

Campbell et al, Diab Obes Metab 2023; 25:3589-98



92

Clinical Case #5



Keith is a 69-year-old man

Past medical history

Type 2 diabetes

Medications

- Metformin
- Sitagliptin
- Dapagliflozin
- Glargine (44 units)

Background

- Daily gardening, regular walks with the dog
- W 77 kg, BMI 24.4 kg/m²

HbA1c past 2 years:
>97 mmol/mol
(>11%)

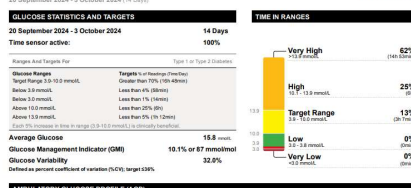
93

Clinical Case #5

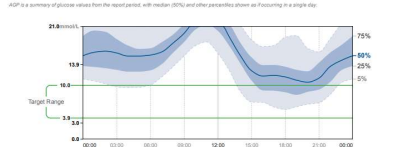
AGP Report

20 September 2024 - 3 October 2024 (14 Days)

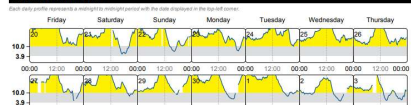
LibreView



AMBIULATORY GLUCOSE PROFILE (AGP)



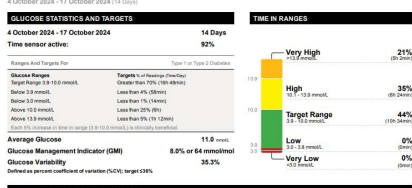
DAILY GLUCOSE PROFILES



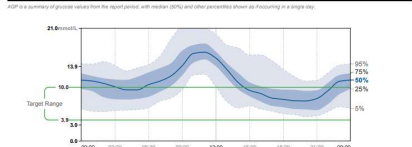
AGP Report

4 October 2024 - 17 October 2024 (14 Days)

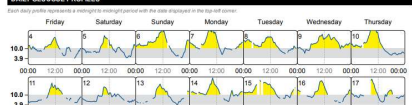
LibreView



AMBIULATORY GLUCOSE PROFILE (AGP)



DAILY GLUCOSE PROFILES



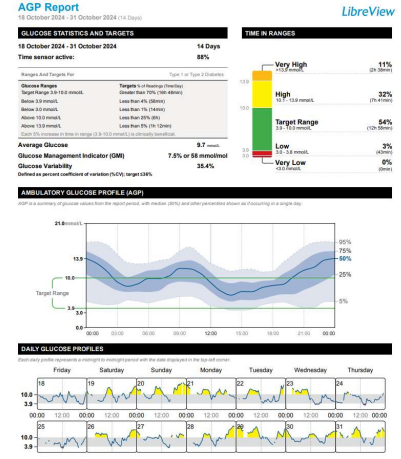
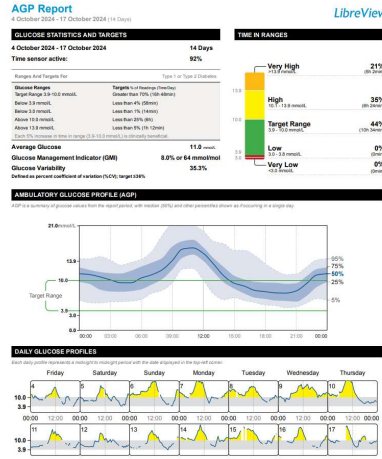
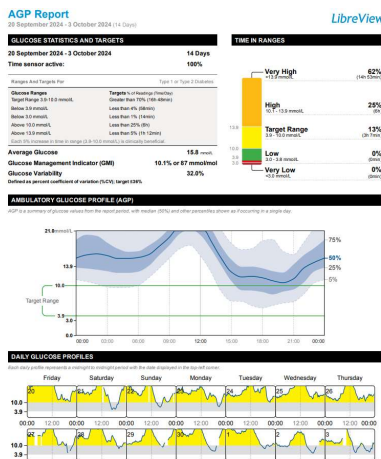
Rapid improvement in glycaemia is due to:

- 1) Switching from gliptin to GLP-1RA
- 2) ↑basal insulin
- 3) Starting a sensor
- 4) Going go-karting
- 5) All of the above

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Clinical Case #5—Progress

Basal insulin is now 36 units (was on 44 units)



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EASD 2025 Late-Breaking Abstract



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Clinical Burden Associated with Type 2 Diabetes in France: An Update from the National Insurance Claim Database

- ▶ The ESND sample provides a representative overview of the T2DM population in France.
- ▶ The incidence of hospital stays for macro and microvascular complications ranged from 0.5-3.8%.
- ▶ Compared to 2013 data, distribution of patients across treatment lines was consistent, counting 40% monotherapy, 25% dual-therapy, 13% triple therapy, and 20% insulin (including 11% on basal).
- ▶ SGLT2i were prescribed in 10% of patients, GLP1-RA in 17%, and CGM in 6%; 65% of patients maintained the same pharmaceutical treatment regimen throughout 2022.

Conclusion

Hospitalisation for vascular complications of T2D remains significant and treatment inertia is a major challenge, increasing the risk of future complications.

Expanding access to new treatments, including CGM, could reduce treatment inertia and improve clinical outcomes for the T2DM population

Riveline J-P et al. EASD 2025 - SO 014, Tuesday; 13:15-14:15.

97

Clinical Case #6 - Diabetes and Difficult Co-Morbidities



Jane is a 64-year-old retired nurse

Past medical history

- Type 2 diabetes
- Breast cancer

Treatment

- Metformin 2 gr/d
- Sitagliptin 100 mg/d
- Glimepiride 1 mg/d

Status

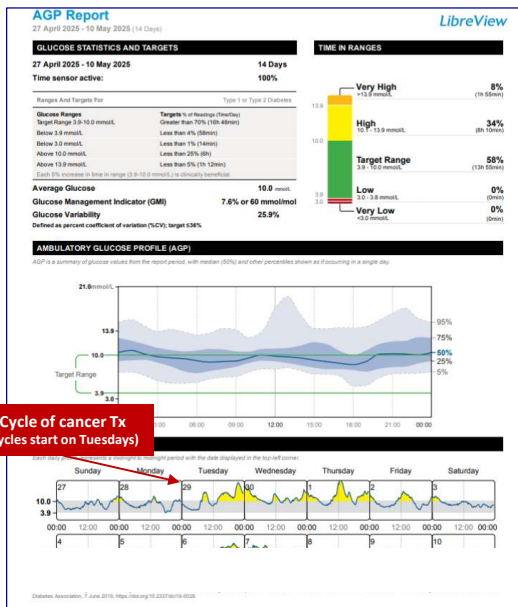
- W. 61 kg, BMI 22.4 kg/m²
- HbA1c 50 mmol/mol (6.7%)

Problem

Finds it very difficult with each chemo cycle (Tuesdays; includes dexamethasone for the day) as glucose levels increase and she gets osmotic symptoms for 3 days

98

Clinical Case #6 - Diabetes and Difficult Co-Morbidities

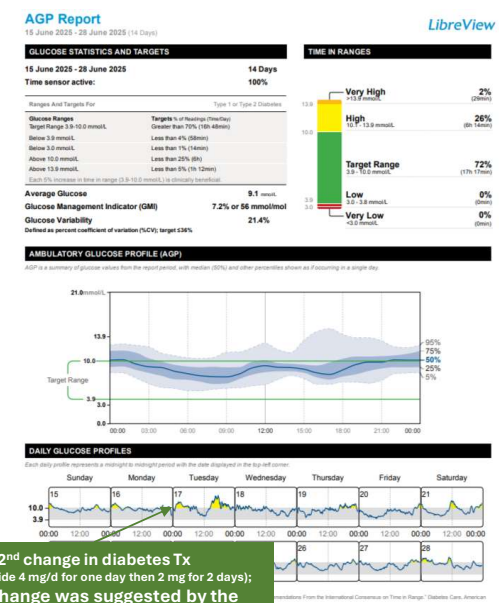
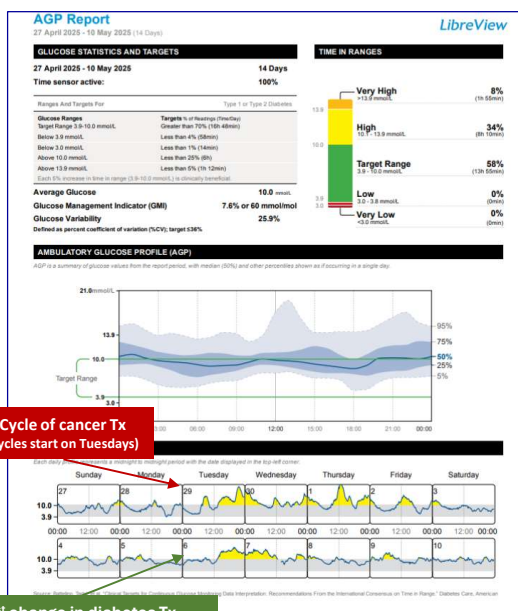


Options:

- 1) Explain this is to be expected it is fine as lasts only 3 days.
- 2) Simply ↑dose of glimepiride.
- 3) ↑dose of glimepiride for 3 days.
- 4) Add in insulin for 3 days.
- 5) Start SGLT2i to protect from heart failure.

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Case 6 - Diabetes and Difficult Co-Morbidities



100

Conclusions

- ▶ CGM helps to engage individuals with diabetes and informs early on success/failure of a particular management strategy.
- ▶ Specifically, CGM can help with glycaemic management through:
 - Lifestyle modification
 - Keeps individual informed of the effects of daily life activities
 - Likely to assist in adherence to therapy

CGM increases patient engagement with diabetes management

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Post-Program Assessment Question #1

Based on the educational content, analyses, and case-based CGM Experts' Clinic presented in this symposium, I believe it is reasonable and appropriate for clinicians to **initiate CGM** in the following percentage of new persons with T2D who present to me and who are NOT taking insulin (i.e. persons managing diabetes with lifestyle modification or oral medications only)

- 1) 20–30%
- 2) 30–40%
- 3) 40–50%
- 4) 50–60%
- 5) >60%

102

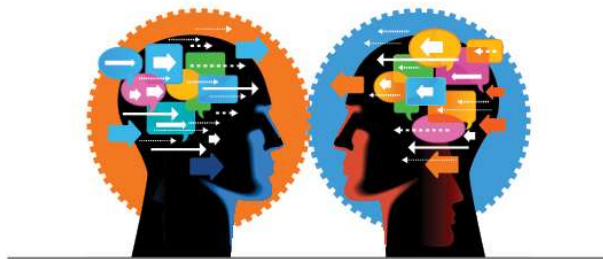
Post-Program Assessment Question #2

CGM is a foundational management strategy in all of the following settings: (1) Overcoming treatment inertia, (2) Modulating patient lifestyle behaviors and decisions, and (3) Adjusting pharmacologic interventions to optimize HbA1c.

- 1) Strongly agree
- 2) Agree
- 3) Agree in some situations
- 4) Disagree
- 5) Strongly disagree

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"INTERACTIVE DIALOGUE SESSION"



**Your Questions, Perspectives,
and Discussion Points**

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