In situations where it is difficult for patients to visit hospitals, such as the coronavirus disease pandemic, it is important to more detailly predict hemoglobin A1C (HbAlc) from flash glucose monitor (FGM) data. $>$ CGM data over 14 days can be obtained from a FGM sensor; therefore, there are many options for extracting the duration from which glucose levels are derived. > The extracted durations were closely studied to determine which mean glucose levels can predict HbAlc more accurately.

## MATERIALS AND METHODS

$>$ Seventy-three outpatients with type 2 diabetes mellitus underwent HbAlc testing, wore a FGM (FreeStyle Libre Pro), and did not change diabetic treatments, on a hospital visit $>$ FGM data over $24 \mathrm{~h} \times 13$ days (from 00:00 on day 2 to 24:00 on day 14 [FGM attachment: day 1]) were analyzed $>$ The mean glucose levels were calculated corresponding to the following durations:
1 day: day $2 \sim$ day $14(\mathrm{n}=13)$
2 days: days $2-3 \sim$ days $13-14(\mathrm{n}=12)$

2 days: days $2-3 \sim$ days $13-14(\mathrm{n}=12)$
3 days: days $2-4 \sim$ days $12-14(\mathrm{n}=11)$
3 days: days $2-4 \sim$ days $12-14(\mathrm{n}=11)$
4 days: days $2-5 \sim$ days $11-14(\mathrm{n}=10)$
4 days: days $2-5 \sim$ days $11-14(\mathrm{n}=10)$
5 days: days $2-6 \sim$ days $10-14(\mathrm{n}=9)$
5 days: days $2-6 \sim$ days $10-14(\mathrm{n}=9)$
6 days: days $2-7 \sim$ days $9-14(\mathrm{n}=8)$
7 days days $2-8 \sim$ days $8-14(\mathrm{n} 7)^{2}$
7 days: days $2-8 \sim$ days $8-14$ ( $\mathrm{n}=7$ )
8 days: days $2-9 \sim$ days $7-14(\mathrm{n}=6)$
9 days: days $2-10 \sim$ days $6-14(\mathrm{n}=5)$
10 days: days $2-11 \sim$ days $5-14(\mathrm{n}=4)$
11 days: days $2-12 \sim$ days $4-14(n=3)$
12 days: days $2-13 \sim$ days $3-14(n-2)$
13 days: days $2-14(n=1)$
[Total 91 durations] (Extracted mean glucose levels).
$\rangle$ Endpoins
$>$ In all patients ( $\mathrm{n}=73$ ), in the Hypo group ( $\mathrm{n}=40$ ), and in Nonhypo group ( $\mathrm{n}=33$ )

- The extracted duration for which mean glucose levels most significantly correlated with HbAlc - Correlations between HbAlc and extracted mean glucose levels ("r, HbAlc, EMGL") ( $\mathrm{n}=73$ ) - Correlation between "r, HbAlc, EMGL" and number of extracted days for the extracted mean glucose levels (n=91)
> Comparison of data between the Hypo group and the Nonhypo group
- Comparison of "r, HbAlc, EMGL" between the Hypo group and the Nonhypo group (n=91) - Comparison of
- "coefficient of variations of 13 days with $24-\mathrm{h}$ mean glucose levels" ("CV, 24hMGL")
- "coefficient of variations over 13 days" ("CV, 13 days")
- "mean absolute glucose over 13 days $\div$ mean glucose levels over 13 days $\times 100$ " ("MAG/MGL, 13 days")
- "mean of daily differences 1 over 13 days $\div$ mean glucose levels over 13 days $\times 100$ "
("MODD1/MGL, 13 days")
between the hypo group and the Nonhypo group ( $\mathrm{n}=40$ and $\mathrm{n}=33$, respectively)

Data were analyzed
in all apaients (n=73),
in apatens with hypoglycemia in the
13
in patients with hypoglycemia
13 days (Hypo) group ( $\mathrm{n}=40$ ),

- in patients without hypoglycemia in
the 13 days (Nonhypo) group ( $n=33$ ).
vels). $\qquad$

