INTRODUCTION AND OBJECTIVES:
- Continuous glucose monitoring (CGM) correlates with optimal control in type 1 diabetes (T1D)
- CGM plays a major role in decreasing the time spent in hypoglycemia and hyperglycemia, and achieving better QoL.
- Aim: To evaluate the usage and benefits of out-patient CGM and assess parents’ attitudes to it at a non-reimbursed setting.

METHODS:
All families (984) with T1D children from 8 settings were invited to participate in the study by filling-in an on-line or paper version short questionnaire.

DATA WAS COLLECTED ABOUT:
- Demographics
- Anthropometrics
- Duration of diabetes
- Type of insulin treatment
- CGM usage: duration and type
- Parents’ attitude to new technologies
- Frequency of measuring ketones
- Psychological support

RESULTS:
- 354 (36%) families returned filled-in questionnaires – fig. 1, 2
- Mean age of parents 39.4±6.9 y
- Mean age of children 11.1±3.9 y, 50.8% boys – fig. 3
- Mean duration of diabetes 5.5±13.6 y
- Type of insulin therapy – fig. 4, 5
- 44.9% (159) used CGM at least once
- 108 (30.5%) use it continuously
- fig. 6
- HbA1c correlates with CGM usage consistency & type of therapy – fig. 7
- Frequency of sensor usage by company – fig. 8
- Most common reasons for usage CGMs are shown on fig. 9
- BGL with finger pricks - 4.3±2.6 times/day (sensor users vs. non users 3.2 vs. 4.5)
- 149 (42.1%) measure blood ketones; 44.1% check urine ketones; 39.3% have never measured ketones
- 83.6% have Glucagon prescribes by the physician
- Families receive information about CGM mostly from pediatric endocrinologists (81.8%) followed by internet/groups (55.1%) and lectures (12.1%)
- 82.5% of all are discussing innovations and new technologies in T1DM with the pediatric endocrinologist;
- Only 26.8% of families get support from a psychologist

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**Fig. 1** Distribution of participants

**Fig. 2** Education of the parents

**Fig. 3** Age groups

**Fig. 4** Insulin therapy

**Fig. 5** Duration of CGMs usage according to therapy

**Fig. 6** Pumps

**Fig. 7** HbA1c

**Fig. 8** Types of used sensors by company

**Fig. 9** Reasons to use CGM