Inclusion criteria:
Adolescents starting CSII in Stockholm, Sweden
Age 12-17.99 years

Exclusion criteria:
Diabetes duration < 1 year; HbA1c < 63; Insulin requirement < 0.5 E/kg; insufficient knowledge of the Swedish language; CGM at start or during study period

Randomization

Intervention group n=40
- Standardized pump start education and GSD-Y conversation 1 and 2

At start:
- HbA1c, height, weight, insulin requirement, mean frequency SMBG
- Check, your health, Disabkids, DFCS, Swe-DES 23 and treatment satisfaction

1 week after start: follow up after pump start and GSD-Y conversation 3

4-6 weeks: follow up with diabetologist, HbA1c and GSD-Y conversation 4

2 months after start: GSD-Y conversation 5

3 months after start: GSD-Y conversation 6

4 months after start: follow up after pump start and GSD-Y conversation 7, HbA1c

6-24 months: both groups get care according to the regular guidelines

At 6 months:
- HbA1c, height, weight, insulin requirement, mean frequency of SMBG,
- ‘Check your health’, Disabkids, DFCS, Swe-DES 23 and treatment satisfaction.
- Frequency of missed doses and usage of carbohydrate counting

Analyses: unpaired t-test, ANOVA

At 12 months:
- HbA1c, height, weight, insulin requirement, mean frequency of SMBG,
- ‘Check your health’, Disabkids, DFCS, Swe-DES 23 and treatment satisfaction.
- Frequency of missed doses and usage of carbohydrate counting

Analyses: Unpaired t-test, ANOVA

Control group n= 40
- Standardized pump start education

1 week after start: follow up after pump start

4-6 weeks: follow up with diabetologist, HbA1c

2 months after start: GSD-Y conversation 5

3 months after start: GSD-Y conversation 6

4 months: follow up with diabetologist or nurse, HbA1c

Analyses: unpaired t-test, ANOVA