Electronic supplementary material (ESM)
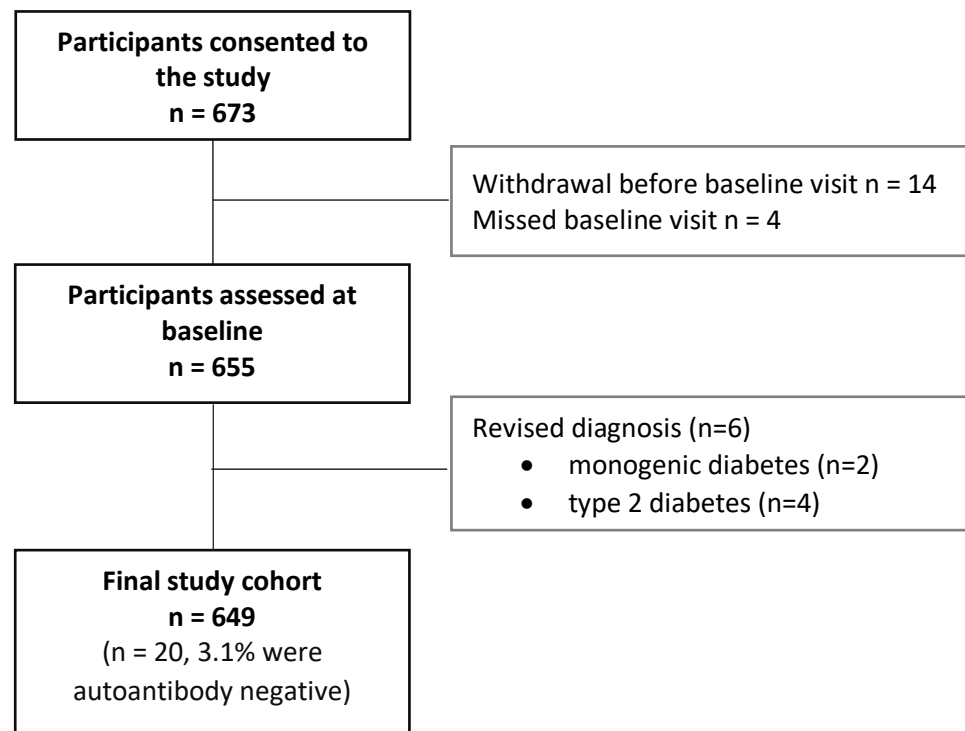
**The INNODIA Type 1 Diabetes Natural History Study:
a European cohort of newly diagnosed children, adolescents and adults**

ML Marcovecchio, AEJ Hendriks, C Delfin, T Battelino, T Danne, ML Evans, J Johannesen, S Kaur, M Knip, L Overbergh, F Pociot, JA Todd, B Van der Schueren, LS Wicker, M Peakman, C Mathieu on behalf of the INNODIA consortium

ESM Table 1. Percentage of autoantibodies type at baseline and 12 months

		Overall	1-9 yr	10-17 yr	18-45 yr
Antibody type positivity at baseline (%)	IA-2A	70%	76%	69%	54%
	GAD65A	74%	68%	78%	78%
	ZnT8A	67%	68%	71%	52%
	IAA/IA	78%	87%	78%	51%
Antibody type positivity at 12 months (%)	IA-2A	68%	68%	72%	56%
	GAD65A	70%	57%	75%	84%
	ZnT8A	61%	53%	69%	55%
	IAA/IA	98%	99%	100%	88%

ESM Fig. 1 Flowchart of study participants


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┌─────────────────────────┐
│ Participants consented to│
│       the study          │
│        n = 673           │
└─────────────────────────┘
             │          ┌──────────────────────────────────────┐
             │──────────│ Withdrawal before baseline visit n = 14│
             │          │ Missed baseline visit n = 4           │
             │          └──────────────────────────────────────┘
┌─────────────────────────┐
│ Participants assessed at │
│        baseline          │
│        n = 655           │
└─────────────────────────┘
             │          ┌──────────────────────────────────────┐
             │──────────│ Revised diagnosis (n=6)              │
             │          │    • monogenic diabetes (n=2)        │
             │          │    • type 2 diabetes (n=4)           │
             │          └──────────────────────────────────────┘
┌─────────────────────────┐
│   Final study cohort     │
│        n = 649           │
│  (n = 20, 3.1% were      │
│  autoantibody negative)  │
└─────────────────────────┘
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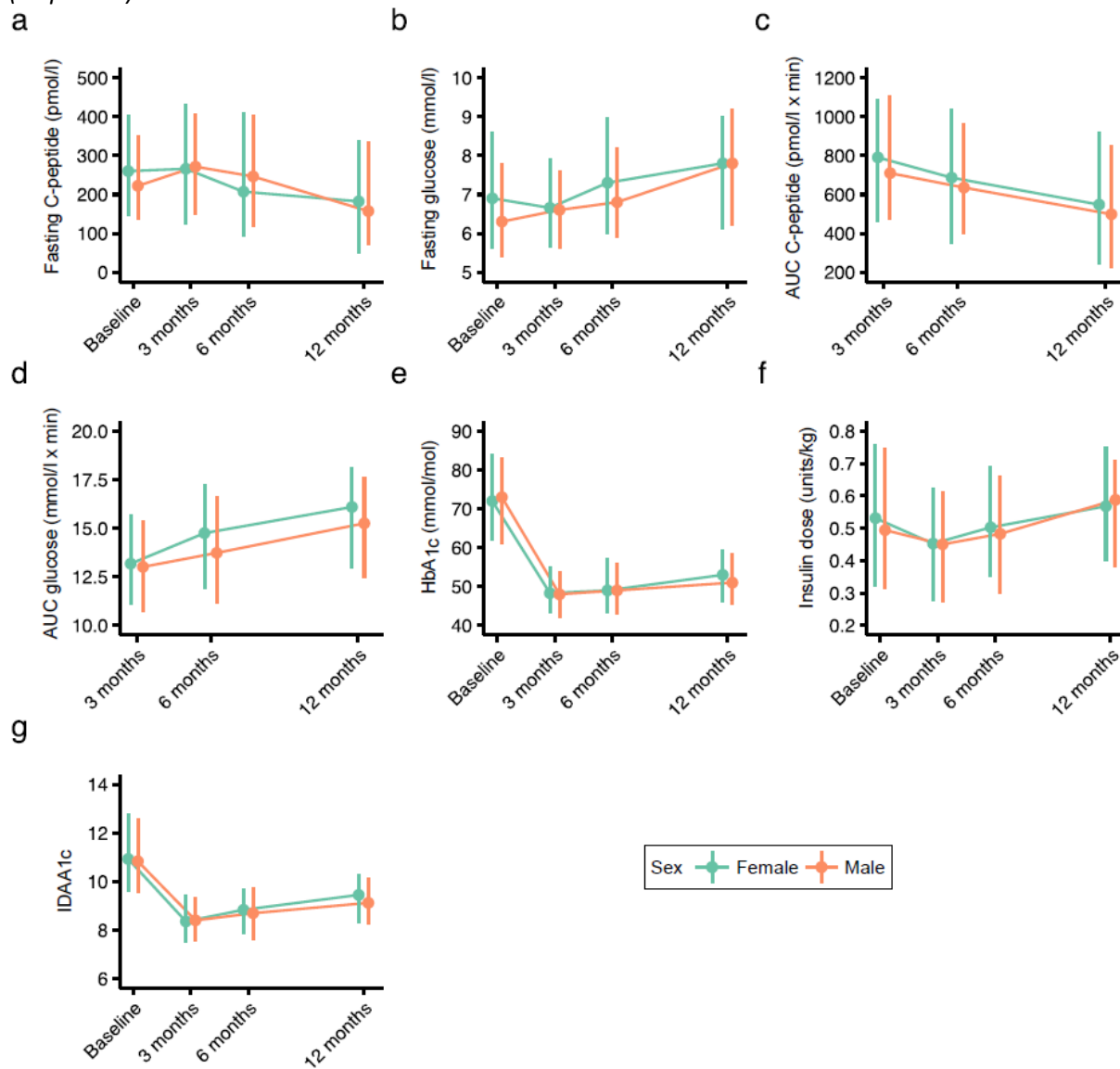
ESM Fig 2. Time course of glucose metabolism parameters over time by sex
Data are reported as median and interquartile range for Fasting C-peptide (a); Fasting glucose (b); AUC C-peptide (c); AUC glucose (d); HbA1c (e); insulin dose (f) and IDAA1c (g).
Green lines represent female and orange lines male
There was no statistically significant difference between males and females in any of the parameters (all p>0.05)

ESM Fig. 3. Time course of glucose metabolism parameters over time by HLA groups

Data are reported as median and interquartile range for Fasting C-peptide (a); Fasting glucose (b); AUC C-peptide (c); AUC glucose (d); HbA1c (e); insulin dose (f) and IDAA1c (g) HLA groups: Group 1 (DR3/DR4; DR4/DR4; DR3/DR3): green lines; Group 2 (DR3/DRX, DR4/DRX): orange lines; Group 3 (DRX/DRX): blue lines.
There was no statistically significant difference between the HLA groups in any of the parameters (all p>0.05)