

Table S1: Phenotypical characteristics of investigated probands

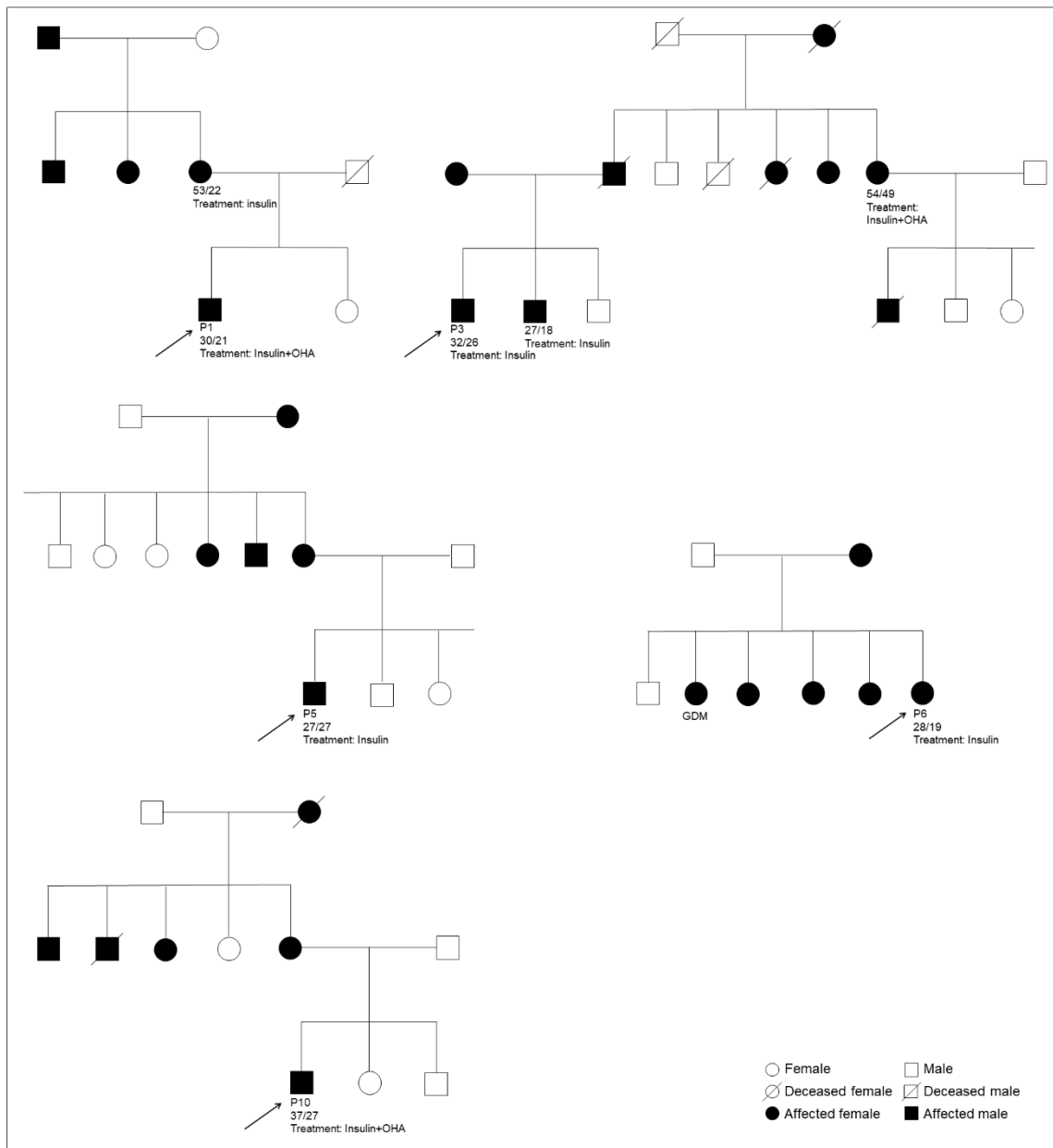
| | Sex | BMI (kg/m ²) | Age at the last examination (years) | Age at diabetes onset (years) | Diabetes duration (years) | Parent with diabetes ** | GADA/IA2A (IU/ml) | Fasting C-peptide* (nmol/l) | HLA DRB1* Genotype | Circumstances of diagnosis | Treatment* | FPG* (mmol/l); HbA1c* (%); HbA1c* (mmol/mol) | FPG# (mmol/l); HbA1c# (%); HbA1c# (mmol/mol) | Identified variant |
|-----|-----|--------------------------|-------------------------------------|-------------------------------|---------------------------|-------------------------|-------------------|-----------------------------|--------------------|--|-----------------------|--|--|---|
| P1 | M | 21.8 | 30 | 21 | 9 | 1 | Neg/Neg | 0.35 | DR3/DR13 | Polyuria, ketosis, weight loss, fatigue | Insulin + OHO | 15.82; 12.8; 116.4 | NA; NA; NA | None |
| P3 | M | 23.3 | 32 | 26 | 6 | 2 | Neg/Neg | 0.58 | DR3/DR13 | Polyuria, ketosis, weight loss | Insulin | 4.78; 5.3; 34.4 | NA; NA; NA | None |
| P4 | M | 22.8 | 29 | 24 | 5 | NA | Neg/Neg | 0.34 | DR3/DR13 | Incidentally | OHA | 7.67; 6.9; 51.9 | 7.11; NA; NA | GCK: Met210Lys/WT |
| P5 | M | 20.4 | 27 | 27 | 0.5 | 1 | NA | NA | DR7/DR11 | Polyuria, polydipsia, weight loss, fatigue | Insulin | 7.61; NA; NA## | 11.11; 11.0; 96.7 | None |
| P6 | F | 24.2 | 28 | 19 | 9 | 1 | NA | 0.34 | DR4/DR15 | Incidentally | Insulin (0.16 U/Kg/d) | 5.89; 6.9; 51.9 | NA; NA; NA | None |
| P10 | M | 24.7 | 37 | 27 | 10 | 1 | Neg/NA | 1 | DR11/DR11 | Polyuria, ketosis, polydipsia | Insulin+OHA | 9.11; 7.1; 54.1 | NA; NA | None |
| P12 | M | 18 | 18 | 9 | 9 | 1 | Neg/NA | 0.45 | DR11/DR16 | Hospital admission | None | 4.83; 5.5; 36.6 | NA; 7.0; 53.0 | GCK: Gly261Arg/WT |
| P13 | M | 18.4 | 30 | 27 | 3 | 1 | Neg/NA | 0.21 | DR3/DR4 | Polyuria, polydipsia, ketosis, weight loss | Insulin | NA; 5.4; 35.5 | NA; NA; NA | HNF1A : Thr156Met/WT HNF1B : Gly76Cys/WT |

BMI: Body Mass Index, M: Male, F: Female, Neg: Negative, NA: Not available.

*At the last examination (see above text). **1: father or mother; **2: both father and the mother are affected. # At diagnosis. ## with massive glycosuria.

Figure S1: Pedigrees of the families 1, 3, 5, 6 and 10 where no pathogenic variants were identified.

Figure S1. Pedigrees of the families 1, 3, 5, 6 and 10 where no pathogenic variants were identified.



Arrows indicate the proband. Numbers below the proband refer to line 1: the proband number, line 2: age of examination/age of diagnosis, line 3: treatment receive. Lines extending beyond the side of the pedigree indicates additional siblings without any available DNA or clinical information.