

Figure 2. Graphical presentation of *HNF1B*-MODY-associated phenotypes. First two cases harbour novel mutations, the other two present different clinical profiles despite possessing the same mutation.

Gene	N	Genetic coordinates	Protein change	Clinical classification
<i>HNF1B</i>	8	Whole-gene deletion	Loss of protein	Pathogenic
<i>HNF1B</i>	2	c.883C>T	p.Arg295Cys	Pathogenic
<i>HNF1B</i>	1	c.434delT	p.Leu145fs	Pathogenic
<i>HNF1B</i>	1	c.443C>T	p.Ser148Leu	Pathogenic
<i>HNF1B</i>	1	c.742C>T	p.Gln248X	Pathogenic
<i>HNF1B</i>	1	c.857T>G	p.Leu286Arg	Pathogenic
<i>HNF1B</i>	1	c.755G>A	p.Arg252Gln	VUS
<i>PKD1</i>	1	c.7760G>A	p.Trp2587Ter	Pathogenic
<i>PKD1</i>	1	c.8203C>T	p.Gln2735Ter	Pathogenic
<i>PKD1</i>	1	c.1613T>G	p.Val538Gly	VUS
<i>HNF4A</i>	1	c.401G>A	p.Arg134Gln	Likely pathogenic
<i>GCK</i>	1	c.268A>T	p.Lys90Ter	Pathogenic
<i>KCNJ11</i>	1	c.991T>C	p.Ser331Pro	VUS

Table 1. Genetic findings in the studied cohort. All patients were tested for *HNF1B*. Among 21 *HNF1B*-negative probands, 5 were found to harbour significant mutations in other phenotype-relevant genes (mainly *PKD1* – causes autosomal dominant polycystic kidney disease, *ADPKD* – and other MODY-related genes). 15 patients (41.7%) revealed no significant mutations or awaits further genetic testing. All variants were assessed for pathogenicity using ACMG criteria.

N – number of probands with given variant
VUS – variant of unknown significance

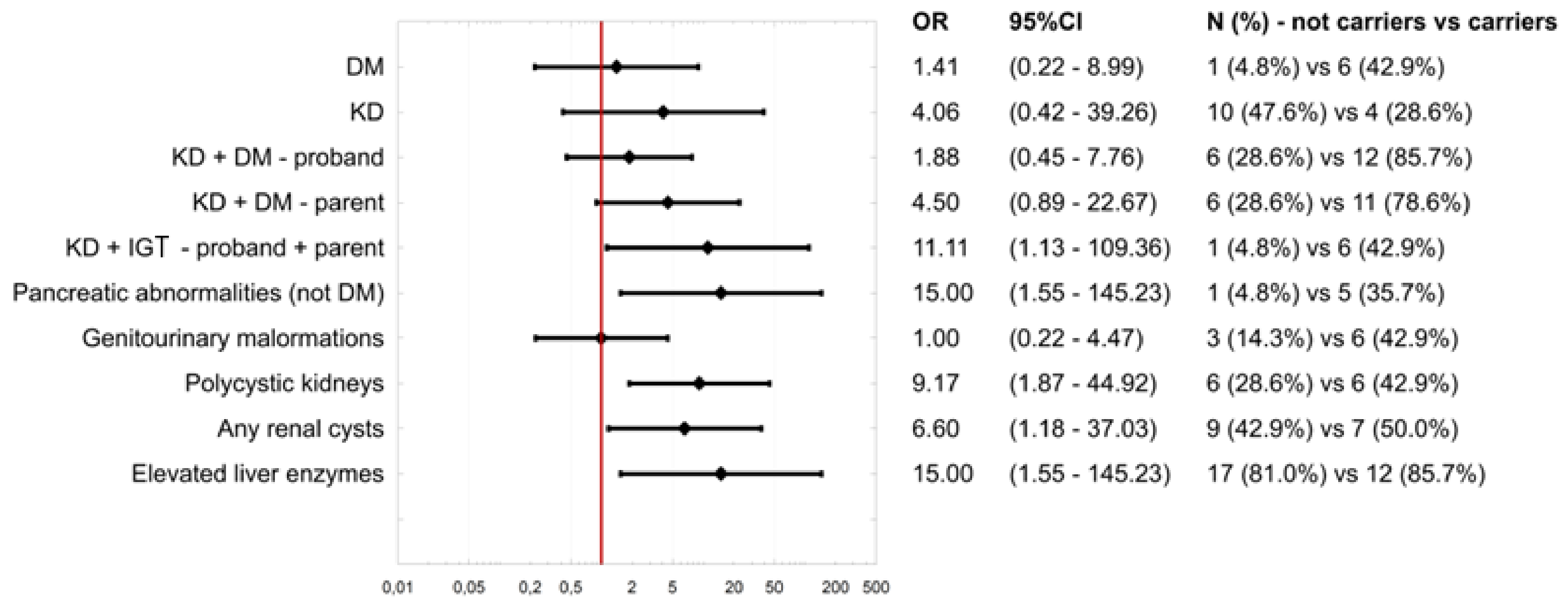


Figure 3. Phenotype-based univariate discrimination between *HNF1B*-positive and negative cases. IGT – impaired glucose tolerance, DM – diabetes, KD – kidney disease

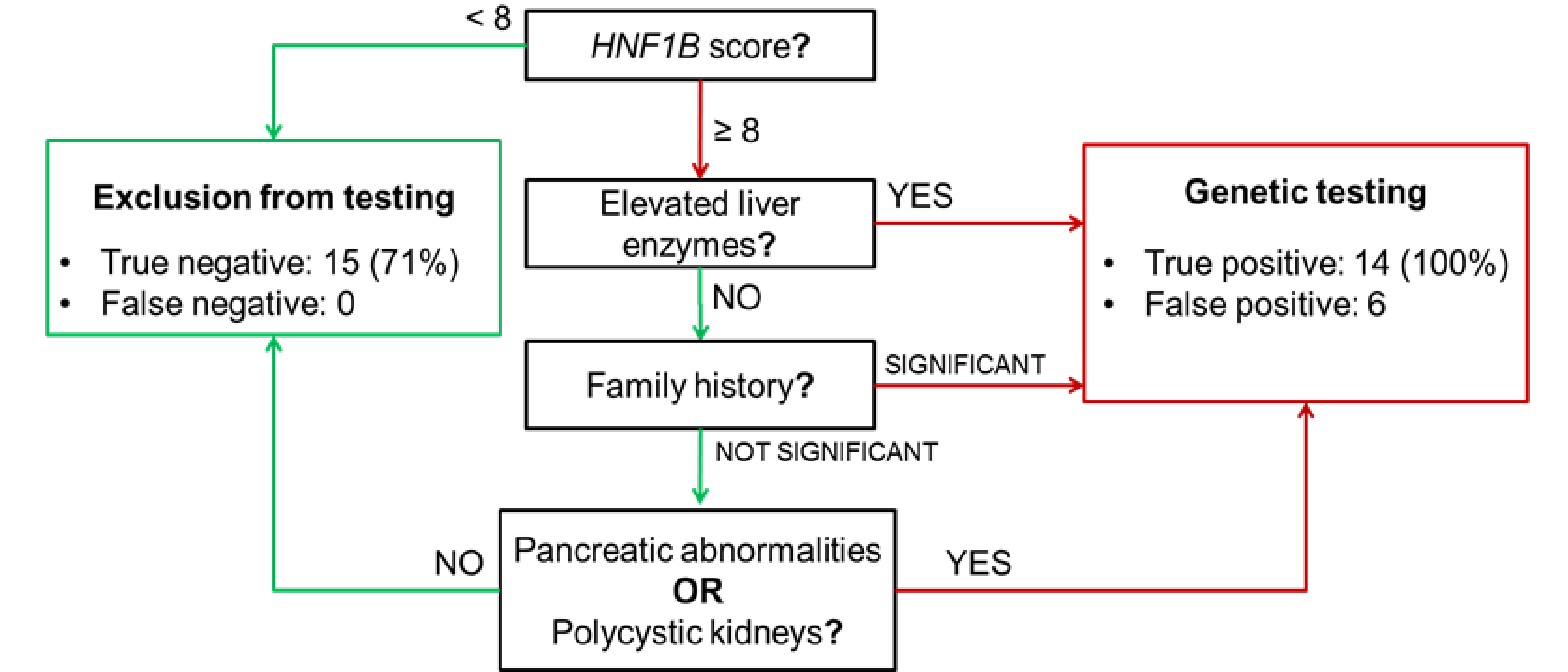


Figure 5. Classification and regression tree analysis in qualification for genetic testing. Excluding patients not presenting typical *HNF1B*-MODY symptoms from the group with *HNF1B* score ≥8 increased selection specificity to 71% while retaining 100% sensitivity

Figure 1. Flowchart of patient selection. Children – patients <18 y.o. at referral.