

Supplementary Table 2 - Sensitivity analysis showing the utility of clinical features to discriminate between KATP CHI and CHI of an unknown aetiology in the two countries and institutes with the most referrals. ROC AUC = Receiver Operating Characteristic Area Under the Curve

	No with KATP HI/total HI	ROC AUC for corrected birth weight alone (95% CI)	ROC AUC for diazoxide responsiveness alone (95% CI)	ROC AUC for corrected birth weight and diazoxide responsiveness (95% CI)	ROC AUC for corrected birth weight, diazoxide responsiveness, sex, insulin, ethnicity, consanguinity (95% CI)
Whole cohort	761/1685	0.80 (0.77 – 0.82)	0.77 (0.74 – 0.80)	0.88 (0.85 – 0.90)	0.89 (0.87 – 0.91)
Patients from the UK	173/531	0.85 (0.80 – 0.89)	0.84 (0.79 – 0.88)	0.94 (0.91 – 0.96)	0.93 (0.91 – 0.96)
Patients from Turkey	102/208	0.86 (0.80 – 0.92)	0.75 (0.68 – 0.82)	0.89 (0.84 – 0.95)	0.90 (0.85 – 0.96)
Patients referred from GOSH	116/283	0.81 (0.74 – 0.87)	0.84 (0.79 – 0.90)	0.91 (0.87 – 0.96)	0.93 (0.88 – 0.97)
Patients referred from Manchester	35/90	0.89 (0.81 – 0.98)	0.80 (0.69 – 0.91)	0.94 (0.87 – 1.00)	0.93 (0.86 – 0.99)