**Supplemental table 1.** Major IMD groups associated with hypoglycaemia. Most common Glycogen storage diseases, Fatty acid oxidation disorders and congenital disorders of glycosylation are included.

| Disorder                       | Gene(s) | Protein                              | Inheritance     |
|--------------------------------|---------|--------------------------------------|-----------------|
| GSD0a                          | GYS2    | Liver glycogen synthase              | Autosomal recessive |
| GSD0b                          | GYS1    | Muscle glycogen synthase             | Autosomal recessive |
| GSDIa                          | G6PC    | Glucose 6-phosphatase α              | Autosomal recessive |
| GSDIb                          | SLC37A4 | Glucose 6-phosphate transporter       | Autosomal recessive |
| GSDII (Pompe disease)          | GAA     | lysosomal α-glucosidase              | Autosomal recessive |
| GSDIII                         | AGL     | Glycogen debrancher enzyme           | Autosomal recessive |
| GSDIV                          | GBE1    | Glycogen brancher enzyme             | Autosomal recessive |
| GSDV                           | PYGM    | Muscle glycogen phosphorylase        | Autosomal recessive |
| GSDVI                          | PYGL    | Liver glycogen phosphorylase         | Autosomal recessive |
| GSDVII                         | PFKM    | Muscle phosphofructokinase           | Autosomal recessive |
| GSDIXa                         | PHKA2   | Glycogen phosphorylase kinase α2     | X-linked recessive |
| GSDIXb                         | PHKB    | Glycogen phosphorylase kinase β      | Autosomal recessive |
| GSDIXc                         | PHKG2   | Glycogen phosphorylase kinase γ      | Autosomal recessive |
| GSDIXd                         | PHKA1   | Glycogen phosphorylase kinase α1     | X-linked recessive |
| GSDX                           | PGAM2   | Muscle phosphoglycerate mutase       | Autosomal recessive |
| GSDXI (Fanconi-Bickel)         | SLC2A2  | GLUT2                                | Autosomal recessive |
| GSDXII                         | ALDOA   | Aldolase A                           | Autosomal recessive |
| GSDXIII                        | ENO3    | β-enolase                            | Autosomal recessive |
| GSDXIV                         | PGM1    | Phosphoglucomutase                   | Autosomal recessive |
| GSDXV                          | GYG1    | Muscle glycogenin deficiency         | Autosomal recessive |
| Hereditary fructose intolerance| ALDOB   | Aldolase B                           | Autosomal recessive |
| Classical galactosemia         | GALT    | Galactose-1p uridyltransferase       | Autosomal recessive |
| Fructose 1,6-Bisphatase deficiency | FBP1   | Fructose 1,6-Bisphosphatase          | Autosomal recessive |
| Pyruvate carboxylase deficiency | PC      | Pyruvate carboxylase                 | Autosomal recessive |
| Methylmalonic acidemia         | MMUT, MMA A, MMAAB, MMA DHC, MCEE     | Methylmalonil-CoA mutase, Methylmalonil-CoA epimerase | Autosomal recessive |
| Condition                                      | Gene(s)                  | Enzyme Name                  | Inheritance     |
|-----------------------------------------------|--------------------------|------------------------------|-----------------|
| Propionic acidemia                            | PCCA, PCCB               | Propionyl-CoA carboxylase    | Autosomal recessive |
| Isovaleric acidemia                           | IVD                      | Isovaleryl-CoA dehydrogenase | Autosomal recessive |
| Carnitine transporter deficiency              | SLC22A5                  | Carnitine transporter        | Autosomal recessive |
| Carnitine palmitoyltransferase I (CPT I)      | CPT1                     | Carnitine palmitoyltransferase I | Autosomal recessive |
| Carnitine acylcarnitine translocase (CACT)    | SLC25A20                 | Carnitine acylcarnitine translocase | Autosomal recessive |
| Carnitine palmitoyltransferase II (CPT II)    | CPT2                     | Carnitine palmitoyltransferase II | Autosomal recessive |
| Very-long-chain acyl-CoA dehydrogenase        | ACADVL                   | Very-long-chain acyl-CoA dehydrogenase | Autosomal recessive |
| Long-chain 3-hydroxyacyl-CoA dehydrogenase    | HADHA, HADHB             | Long-chain 3-hydroxyacyl-CoA dehydrogenase | Autosomal recessive |
| and mitochondrial trifunctional protein (MTP) |                          | Long-chain 3-hydroxyacyl-CoA hydratase, Long-chain ketoacylCoA thiolase | Autosomal recessive |
| Very-long-chain acyl-CoA dehydrogenase        | ACADVL                   | Very-long-chain acyl-CoA dehydrogenase | Autosomal recessive |
| Long-chain 3-hydroxyacyl-CoA dehydrogenase    | HADHA, HADHB             | Long-chain 3-hydroxyacyl-CoA hydratase, Long-chain ketoacylCoA thiolase | Autosomal recessive |
| Medium-chain acyl-CoA dehydrogenase           | ACADM                    | Medium-chain acyl-CoA dehydrogenase | Autosomal recessive |
| Short-chain acyl-CoA dehydrogenase            | ACADS                    | Short-chain acyl-CoA dehydrogenase | Autosomal recessive |
| 3-Hydroxyacyl-CoA dehydrogenase               | HADH                     | 3-hydroxyacyl-CoA dehydrogenase | Autosomal recessive |
| Multiple acyl-CoA dehydrogenase (MAD)         | ETFA, ETFB, ETFDH        | Electron transfer flavoproteins | Autosomal recessive |
| Riboflavin metabolism defects                 | SLC52A1, SLC52A2, SLC52A3, FLADI, SLC25A32 | RFVT1, RFVT2, RFVT3, FAD synthase, FAD transporter | Autosomal recessive |
| 3-Hydroxy-3-Methylglutaryl-CoA (HMG-CoA) Synthase Deficiency | HMGCS2               | 3-Hydroxy-3-Methylglutaryl-CoA synthase | Autosomal recessive |
| HMG-CoA Lyase Deficiency                      | HMGC2                    | 3-Hydroxy-3-Methylglutaryl-CoA lyase | Autosomal recessive |
| Succinyl-CoA:3-oxoacid CoA transferase (SCOT) | OXCT1                    | Succinyl-CoA:3-oxoacid CoA transferase | Autosomal recessive |
| Mitochondrial acetoacetyl-CoA thiolase (T2)   | ACAT1                    | Acetoacetyl-CoA thiolase     | Autosomal recessive |
| Monocarboxylate transporter 1 (MCT1)           | SLC16A1                  | Monocarboxylate transporter 1 | Autosomal recessive |
| OXPHOS disorders                              | Multiple genes           | Respiratory complexes subunits | Variable |
| Phosphomannose isomerase (MPI-CDG) deficiency | PMI                      | Phosphomannose isomerase     | Autosomal recessive |
| Phosphomannomutase 2 (PMM2-CDG) deficiency    | PMM2                     | Phosphomannomutase 2         | Autosomal recessive |