



Appendix 1

Etiologic Classification of Diabetes Mellitus

I. Type 1 diabetes (beta cell destruction, usually leading to absolute insulin deficiency) A. Immune-mediated B. Idiopathic	
II. Type 2 diabetes (may range from predominantly insulin resistance with relative insulin deficiency to a predominantly secretory defect with insulin resistance)	
III. Other specific types	
IV. Gestational diabetes mellitus	
Genetic defects of betacell function <ul style="list-style-type: none"> • Chromosome 20, HNF-4alpha (MODY1) • Chromosome 7, glucokinase (MODY2) • Chromosome 12, HNF-1alpha (MODY3) • Chromosome 13, IPF-1 (MODY4) • Chromosome 17, HNF-1beta (MODY5) • Chromosome 2, NeuroD1 (MODY6) • Chromosome 2, KLF11 (MODY7) • Chromosome 9, CEL (MODY8) • Chromosome 7, PAX4 (MODY9) • Chromosome 11, INS (MODY10) • Chromosome 8, BLK (MODY11) • Mitochondrial DNA • Permanent neonatal diabetes • Transient neonatal diabetes • Others Genetic defects in insulin action <ul style="list-style-type: none"> • Leprechaunism • Lipomatrophic diabetes • Rabson-Mendenhall syndrome • Type A insulin resistance • Others Diseases of the exocrine pancreas <ul style="list-style-type: none"> • Cystic fibrosis • Fibrocalculous pancreatopathy • Hemochromatosis • Neoplasia • Pancreatitis • Trauma/pancreatectomy • Others Endocrinopathies <ul style="list-style-type: none"> • Acromegaly • Aldosteronoma • Cushing's syndrome • Glucagonoma • Hyperthyroidism • Pheochromocytoma • Somatostatinoma • Others 	Drug- or chemical-induced <ul style="list-style-type: none"> • Alpha-interferon • Atypical antipsychotics • Beta-adrenergic agonists • Diazoxide • Dilantin • Glucocorticoids • Highly Active Antiretroviral Therapy (HAART) • HMG CoA reductase inhibitors (statins) • Nicotinic acid • Pentamidine • Thiazides • Thyroid hormone • Vacor (rodenticide) • Others Infections <ul style="list-style-type: none"> • Congenital rubella • Cytomegalovirus • Others Uncommon forms of immune-mediated diabetes <ul style="list-style-type: none"> • Anti-insulin receptor antibodies • "Stiff-man" syndrome • Others Other genetic syndromes sometimes associated with diabetes <ul style="list-style-type: none"> • Down syndrome • Friedreich ataxia • Huntington chorea • Klinefelter syndrome • Laurence-Moon-Bardet-Biedl syndrome • Myotonic dystrophy • Porphyria • Prader-Willi syndrome • Turner syndrome • Wolfram syndrome • Others
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