Appendix 1
Etiologic Classification of Diabetes Mellitus

<table>
<thead>
<tr>
<th>I. Type 1 diabetes</th>
<th>II. Type 2 diabetes</th>
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<tbody>
<tr>
<td>(beta cell destruction, usually leading to absolute insulin deficiency)</td>
<td>(may range from predominantly insulin resistance with relative insulin deficiency to a predominantly secretory defect with insulin resistance)</td>
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<tr>
<td>A. Immune-mediated</td>
<td>B. Idiopathic</td>
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<th>III. Other specific types</th>
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<th>IV. Gestational diabetes mellitus</th>
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</table>

**Genetic defects of betacell function**
- 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**
- Leprechaunism
- Lipoatrophic diabetes
- Rabson-Mendenhall syndrome
- Type A insulin resistance
- Others

**Diseases of the exocrine pancreas**
- Cystic fibrosis
- Fibrocalculous pancreatopathy
- Hemochromatosis
- Neoplasia
- Pancreatitis
- Trauma/pancreatectomy
- Others

**Endocrinopathies**
- Acromegaly
- Aldosteronoma
- Cushing’s syndrome
- Glucagonoma
- Hyperthyroidism
- Pheochromocytoma
- Somatostatinoma
- Others

**Drug- or chemical-induced**
- 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**
- Congenital rubella
- Cytomegalovirus
- Others

**Uncommon forms of immune-mediated diabetes**
- Anti-insulin receptor antibodies
- “Stiff-man” syndrome
- Others

**Other genetic syndromes sometimes associated with diabetes**
- Down syndrome
- Friedreich ataxia
- Huntington chorea
- Klinefelter syndrome
- Laurence-Moon-Bardet-Biedl syndrome
- Myotonic dystrophy
- Porphyria
- Prader-Willi syndrome
- Turner syndrome
- Wolfram syndrome
- Others