**SUPPLEMENTAL DIGITAL CONTENT 1**

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| **Table S1a.** Laboratory methods and cutoff levels applied for the analyses of autoantibodies, inflammatory markers, and HLA DQ2/DQ8 genotypes in the study. |
| **Laboratory parameter (sample)** | **Analysis method** | **Cut-off**  | **Unit** |
| *Autoantibodies (serum)* |  |  |  |
|  Anti-mitochondrial antibody, AMA | Indirect immunofluorescence assay | <1:80  | Titer |
|  Anti-neutrophil cytoplasmic antibody, ANCA | Indirect immunofluorescence assay | <1:20  | Titer |
|  Anti-nuclear antibody, ANA | Indirect immunofluorescence assay | <1:200  | Titer |
|  Anti-glutamic acid decarboxylase antibody | ELISA | <10  | IU/mL |
|  Anti-intrinsic factor antibody | ELISA | <6  | IU/mL |
|  Anti-parietal cell antibody | Indirect immunofluorescence assay | <1:80  | Titer |
|  Anti-smooth muscle antibody, SMA | Indirect immunofluorescence assay | <1:80  | Titer |
|  Anti-thyroglobulin antibody | ELISA | <150  | IU/mL |
|  Anti-thyroid peroxidase antibody | ECLIA | <75  | IU/mL |
|  Anti-thyrotropin receptor antibody | Chemiluminescence immunoassay | <1.80  | IU/L |
|  Tissue transglutaminase IgA | FEIA | <7  | U/mL |
| *Inflammatory markers* |  |  |  |
|  Amyloid A (serum) | ELISA | <11  | mg/L |
|  Calprotectin (serum) | ELISA | <2300  | ng/mL |
|  C-reactive protein, CRP (plasma) | Turbidimetric immunoassay | <5  | mg/L |
|  Orosomucoid (serum) | Nephelometric immunoassay | <1.2  | g/L |
| *HLA DQ2/DQ8 genotype (blood)* |  |  |  |
|  Analyzed alleles in HLA genes DQA1 and DQB1:  DQA1\*02; DQA1\*03;DQA1\*05; DQB1\*02; DQB1\*0302 | PCR | N/A | N/A |
| ECLIA, Electro-chemiluminescence immunoassay; ELISA, enzyme-linked immunosorbent assay; FEAI, fluorimetric enzyme-linked immunoassay; N/A, not applicable; PCR, polymerase chain reaction.  |

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| **Table S1b.** Laboratory methods employed and their age-specific reference intervals for the analyses of the serum levels of albumin and immunoglobulins, as well as white blood cell counts. |
| **Laboratory parameter (sample)** | **Analysis method** | **Age in years** | **Reference interval** | **Unit** |
| Albumin (serum) | Turbidimetric immunoassay | All: | 36–50  | g/L |
| *Immunoglobulins (serum)*  |  |  |  |  |  |
|  Immunoglobulin A | Nephelometric immunoassay | 5–10: 11–20: | 0.50–2.70 0.70–3.70  | g/L |
|  |  | >20: | 0.88–4.50 |
|  Immunoglobulin M | Nephelometric immunoassay | 3–10: >10: | 0.27–1.50 0.27–2.10 | g/L |
|  Immunoglobulin G | Nephelometric immunoassay | 4–20:>20: | 6.1–14.56.7–14.5 | g/L |
|  Immunoglobulin G1 | Nephelometric immunoassay | 6–9:10–18: | 3.5–9.13.7–9.3 | g/L |
|  |  | >18: | 2.8–8.0 |  |
|  Immunoglobulin G2 | Nephelometric immunoassay | 6–9:10–18: | 0.85–3.31.0–4.9 | g/L |
|  |  | >18: | 1.2–5.7 |  |
|  Immunoglobulin G3 | Nephelometric immunoassay | 6–8:9–18: | 0.20–1.00.22–1.2 | g/L |
|  |  | >18: | 0.24–1.3 |  |
|  Immunoglobulin G4 | Nephelometric immunoassay | 6–8:9–18: | 0.03–1.60.04–2.0 | g/L |
|  |  | >18: | 0.05–1.3 |  |
| *White blood cell counts* |  |  |  |  |  |
|  Total leukocyte count | Automated optical counting | 7–8:9–16: | 5.5–14.54.5–13.5 | 10E9/L |
|  |  | 17–18: | 4.5–13.0 |  |
|  |  | >18: | 3.5–8.8 |  |
|  Absolute neutrophil count | Automated optical counting | 7–10:11–18: | 1.5–8.01.8–8.0 | 10E9/L |
|  |  | >18: | 1.8–7.5 |  |
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