**SUPPLEMENTAL DIGITAL CONTENT 3**

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| **Table S3.** Total serum levels of immunoglobulins A, M and G and those of the IgG subclasses in the study cohort. Values outside the age-specific reference intervals are indicated in bold. |
| **Patient code** | **Sex** | **Age****(years)** | **IgG****(g/L)** | **IgA****(g/L)** | **IgM****(g/L)** | **IgG1 (g/L)** | **IgG2 (g/L)** | **IgG3****(g/L)** | **IgG4****(g/L)** |
| **A** | M | 9.7 |  | 7.4 |  |  | 0.86 |  | 0.73 |  | 4.7 |  | 1.4 |  | 0.51 |  | 0.34 |
| **B** | F | 19.3 |  | 7.7 |  |  | 2.1 |  | 0.81 |  | 3.4 |  | 3.1 |  | 0.52 |  | 0.35 |
| **C** | F | 21.1 |  | 9.9 |  |  | 2.0 |  | 0.67 |  | 6.2 |  | 3.8 |  | 0.37 |  | 0.36 |
| **D** | F | 22.7 |  | 9.0 |  |  | 1.2 |  | 1.3 |  | 5.0 |  | 3.8 |  | 0.67 |  | 0.21 |
| **E** | F | 13.2 |  | 9.1 |  |  | 1.1 |  | 0.82 |  | 5.8 |  | 1.4 |  | 0.58 |  | 1.2 |
| **F** | F | 17.4 |  | **↓5.7** |  |  | 1.5 |  | 1.7 |  | 3.8 |  | 1.3 |  | 0.24 |  | 0.16 |
| **G** | M | 14.8 |  | 8.3 |  |  | 1.2 |  | 0.87 |  | 3.3 |  | 3.2 |  | 1.1 |  | 0.27 |
| **H** | F | 15.7 |  | 7.5 |  |  | 0.75 |  | 0.69 |  | 3.7 |  | 2.1 |  | 0.61 |  | 0.26 |
| **I** | F | 13.8 |  | 7.5 |  |  | 1.5 |  | 0.69 |  | 4.3 |  | 2.2 |  | 0.67 |  | 0.23 |
| **J** | M | 8.7 |  | 8.2 |  | **↓** | **0.49** |  | 0.79 |  | 6.1 |  | 1.3 |  | 0.26 |  | 0.05 |
| **K** | F | 12.9 |  | 4.4 |  |  | 1.4 |  | 1.1 | **↓** | **3.1**  | **↓** | **0.94**  |  | 0.5 |  | 0.18 |
| **L** | F | 17.2 |  | 11.0 |  |  | 2.3 | **↑** | **2.4**  |  | 4.5 |  | 3.9 | **↑** | **1.3**  |  | 0.3 |
| **M** | F | 17.3 |  | 6.8 |  |  | 0.81 |  | 1.7 |  | 4.7 |  | 1.3 |  | 0.35 |  | 0.29 |
| **N** | F | 11.0 |  | 6.9 |  |  | 0.98 |  | 0.4 |  | 4.4 |  | 1.3 |  | 0.61 |  | 0.22 |
| **O** | F | 14.8 |  | **↓4.5** |  | **↓** | **0.45** |  | 0.88 | **↓** | **2.8**  | **↓** | **0.66**  |  | 0.27 | **↓** | **0.02**  |
| ↓, Decreased value below the lower limit of normal; **↑**, increased value above the upper limit of normal. |
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