**Supplemental Table 1. Intraclass correlation coefficient (ICC) and design effect (DE) by region and age group for vaccination with serogroup A conjugate meningococcal (PsA-TT) and measles-containing vaccine (MCV).**

|  |  |  |
| --- | --- | --- |
| **Region** | **PsA-TT** | **MCV** |
| **2-5 years** | **6-15 years** | **16-30 years** | **12-23 months** |
| $\overbar{n}\_{c}$a | **DEb** | **ICCc** | $$\overbar{n}\_{c}$$ | **DE** | **ICC** | $$\overbar{n}\_{c}$$ | **DE** | **ICC** | $$\overbar{n}\_{c}$$ | **DE** | **ICC** |
| **Boucle du Mouhoun** | 5.6 | 1.42 | 0.10 | 6.2 | 1.07 | 0.01 | 8.5 | 1.60 | 0.11 | 5.6 | 0.74 | -0.09 |
| **Cascades** | 4.9 | 0.90 | -0.02 | 7.2 | 0.98 | -0.004 | 6.6 | 1.50 | 0.08 | 4.9 | 1.27 | 0.08 |
| **Centre** | 5.0 | 1.12 | 0.04 | 7.1 | 2.08 | 0.21 | 6.5 | 1.46 | 0.06 | 4.0 | 1.20 | 0.11 |
| **Centre-Est** | 5.2 | 0.99 | -0.002 | 5.8 | \* | \* | 5.8 | 0.99 | -0.001 | 2.8 | 0.94 | -0.02 |
| **Centre-Nord** | 4.3 | 0.91 | -0.02 | 6.4 | 0.88 | -0.02 | 7.1 | 0.88 | -0.018 | 4.3 | 0.80 | -0.08 |
| **Centre-Ouest** | 3.8 | 2.46 | 0.32 | 7.5 | 1.42 | 0.07 | 9.3 | 1.11 | 0.02 | 5.6 | 0.79 | -0.07 |
| **Centre-Sud** | 5.2 | 0.90 | -0.03 | 6.6 | 0.94 | -0.009 | 8.5 | 1.47 | 0.10 | 3.6 | 1.11 | 0.04 |
| **Est** | 5.4 | 1.52 | 0.15 | 6.5 | 1.22 | 0.05 | 7.8 | 4.24 | 0.43 | 4.9 | 1.32 | 0.07 |
| **Hauts-Bassins** | 5.5 | 1.59 | 0.15 | 8.1 | 0.97 | -0.005 | 7.6 | 1.38 | 0.06 | 4.4 | 1.10 | 0.03 |
| **Nord** | 4.8 | 0. 90 | -0.02 | 6.0 | 1.24 | 0.04 | 6.2 | 1.23 | 0.04 | 4.2 | 1.35 | 0.12 |
| **Plateau Central** | 5.2 | 1.03 | 0.01 | 7.3 | 0.79 | -0.03 | 7.3 | 0.60 | -0.07 | 3.9 | 1.16 | 0.04 |
| **Sahel** | 5.2 | 1.24 | 0.07 | 5.6 | 0.76 | -0.05 | 7.4 | 1.64 | 0.08 | 3.6 | 4.94 | 0.86 |
| **Sud-Ouest** | 4.6 | 0.92 | -0.02 | 6.1 | 1.85 | 0.14 | 6.7 | 1.62 | 0.11 | 3.8 | 2.29 | 0.33 |
| **Burkina Faso** | 5.0 | 1.26 | 0.06 | 6.7 | 1.33 | 0.06 | 7.4 | 1.68 | 0.11 | 4.3 | 2.36 | 0.41 |

\* No ICC or DE calculated due to coverage of 100%

a $\overbar{n}\_{c}$ – mean number of responses per cluster

b DE – design effect

c ICC – intraclass correlation = $(DE-1)/(\overbar{n}\_{c}-1)$