**Supplemental Table 1. Vitamin D status in 6,827 Mexican children, according to serum 25-hydroxyvitamin D concentrations (nmol/L), ENSANUT-2012.**

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|  | **25- hydroxyvitamin D (nmol/L)§** |
| **Variable** | **Mean ± S.D.1** | **95% CI** | **<30****% (95% CI)** | **30 < 50****% (95% CI)** | **50 < 75****% (95% CI)** | **>75****% (95% CI)** |
| Age, y | 1 – 5\* | 58.9 ± 16.8 | 58.0-59.8 | 2.3 (1.51, 3.5) | 28.02 (25.22, 30.99) | 56.43 (53.21, 59.59) | 13.28 (11.41, 15.4) |
|  | 6 – 11 | 55.9 ± 14.8 | 55.1-56.7 | 2.34 (1.62, 3.36) | 33.71 (31.25, 36.26) | 54.62 (52.08, 57.14) | 9.35 (8.11, 10.76) |
| Gender | Male\* | 58.5 ± 15.7 | 57.6-59.5 | 1.73 (1.23, 2.43) | 27.7 (25.17, 30.38) | 58.43 (55.76, 61.06) | 12.16 (10.46, 14.1) |
|  | Female | 55.9 ± 15.6 | 55.1-56.8 | 2.92 (1.97, 4.3) | 34.75 (31.92, 37.69) | 52.37 (49.39, 55.33) | 9.98 (8.76, 11.36) |
| BMI | Normal\* | 58.6 ± 15.9 | 57.8-59.4 | 1.75 (1.29, 2.36) | 27.75 (25.57, 30.04) | 58.01 (55.63, 60.36) | 12.51 (11.11, 14.06) |
|  | Overweight | 55.3 ± 15.3 | 54.0-56.7 | 3.85 (2.11, 6.92) | 36.04 (31.66, 40.66) | 50.04 (45.78, 54.3) | 10.1 (8.06, 12.57) |
|  | Obesity | 53.9 ± 14.2 | 52.4-55.4 | 2.2 (1.2, 4.02) | 40.7 (35.26, 46.38) | 51.68 (46.14, 57.18) | 5.43 (3.85, 7.61) |
| Area | Urban\* | 56.1 ± 13.6 | 55.3-56.8 | 2.51 (1.82, 3.46) | 33.67 (31.31, 36.11) | 54.83 (52.28, 57.34) | 9.01 (7.72, 10.5) |
|  | Rural | 60.3 ± 20.5 | 59.2-61.4 | 1.82 (1.13, 2.92) | 24.7 (22.06, 27.54) | 56.97 (53.82, 60.07) | 16.53 (14.5, 18.79) |
| Region | North\* | 57.3 ± 14.2 | 56.3-58.4 | 1.75 (1.1, 2.76) | 28.94 (25.61, 32.51) | 60.46 (56.88, 63.94) | 8.88 (7.19, 10.92) |
|  | Center | 56.2 ± 16.3 | 55.1-57.3 | 2.46 (1.56, 3.88) | 34.31 (31.2, 37.56) | 53.27 (49.83, 56.68) | 9.98 (8.21, 12.07) |
|  | Mexico City | 54.4 ± 6.8 | 52.5-56.3 | 3.13 (1.38, 6.96) | 36.32 (29.69, 43.52) | 54.31 (46.66, 61.75) | 6.26 (3.23, 11.81) |
|  | South | 59.6 ± 19.6 | 58.5-60.7 | 2.12 (1.43, 3.11) | 26.92 (24.23, 29.79) | 55.02 (52.12, 57.89) | 15.96 (14.13, 17.99) |
| SES | Low\* | 59.7 ± 18.7 | 58.7-60.8 | 2.18 (1.44, 3.31) | 25.75 (23.13, 28.56) | 57.49 (54.61, 60.33) | 14.59 (12.7, 16.71) |
|  | Medium | 56.9 ± 15.2 | 56-0-57.8 | 2.44 (1.47, 4.01) | 30.58 (27.52, 33.83) | 56.22 (52.76, 59.62) | 10.78 (9.15, 12.66) |
|  | High | 54.8 ± 15.0 | 53.5-56.1 | 2.34 (1.38, 3.94) | 38.19 (34.35, 42.18) | 52.1 (48.24, 55.95) | 7.39 (5.41, 10.01) |
| Ethnicity | Indigenous | 56.7 ± 20.5 | 53.6-59.8 | 4.01 (2.33, 6.8) | 29.59 (22.99, 37.17) | 56.16 (49.01, 63.07) | 10.26 (6.18, 16.57) |
|  | Non-indigenous | 56.6 ± 15.0 | 55.9-57.2 | 2.34 (1.67, 3.26) | 32.78 (30.68, 34.96) | 55.09 (52.88, 57.28) | 9.81 (8.8, 10.92) |
| Total |  | 57.3 ± 57.9 | 56.6-57.9 | 2.31 (1.75, 3.04) | 31.20 (29.33, 33.13) | 55.41 (53.37, 57.37) | 11.07 (9.96, 12.28) |
| **§ For ng/mL, divide by 2.49**1Mean, and S.D.\*p<0.001 between characteristicsSES: Socioeconomic statusExpanded data: N= 24.2 million |