

Table S1. Descriptive statistics of hematologic tests in healthy 20-25 years Korean soldiers.

| All | XN series (XN 1000 and XN 3000) | | | ADVIA 2120i | | |
|---|---------------------------------|----------------|--------------|-------------|----------------|--------------|
| | n | mean (SD) | median (IQR) | n | mean (SD) | median (IQR) |
| Hb (g/dL) | 181,217 | 15.53 (0.88) | 15.5 (1.1) | 61,322 | 15.54 (0.9) | 15.6 (1.2) |
| Hct (%) | 181,214 | 45.71 (2.49) | 45.7 (3.2) | 61,322 | 46.31 (2.74) | 46.3 (3.6) |
| RBC (10 ⁶ /uL) | 181,214 | 5.19 (0.32) | 5.19 (0.42) | 61,322 | 5.08 (0.32) | 5.08 (0.42) |
| WBC (10 ³ /uL) | 182,215 | 6.98 (1.73) | 6.75 (2.19) | 61,322 | 6.76 (1.59) | 6.55 (1.97) |
| PLT (10 ³ /uL) | 182,212 | 249.86 (46.21) | 246 (60) | 61,321 | 252.82 (49.18) | 249 (64) |
| Obese (BMI ≥25.0 kg/m ²) | XN series (XN 1000 and XN 3000) | | | ADVIA 2120i | | |
| | n | mean (SD) | median (IQR) | n | mean (SD) | median (IQR) |
| Hb (g/dL) | 49,189 | 15.65 (0.87) | 15.7 (1.1) | 16,656 | 15.66 (0.91) | 15.7 (1.2) |
| Hct (%) | 49,188 | 46.04 (2.48) | 46 (3.3) | 16,656 | 46.67 (2.73) | 46.7 (3.7) |
| RBC (10 ⁶ /uL) | 49,188 | 5.25 (0.32) | 5.25 (0.43) | 16,656 | 5.13 (0.32) | 5.13 (0.43) |
| WBC (10 ³ /uL) | 49,188 | 7.31 (1.75) | 7.08 (2.23) | 16,656 | 7.03 (1.62) | 6.8 (2.00) |
| PLT (10 ³ /uL) | 49,185 | 257.99 (47.55) | 254 (62) | 16,656 | 260.17 (50.85) | 256 (66.0) |
| Non-obese (BMI <25.0 kg/m ²) | XN series (XN 1000 and XN 3000) | | | ADVIA 2120i | | |
| | n | mean (SD) | median (IQR) | n | mean (SD) | median (IQR) |
| Hb (g/dL) | 132,028 | 15.48 (0.88) | 15.5 (1.2) | 44,666 | 15.5 (0.9) | 15.5 (1.2) |
| Hct (%) | 132,026 | 45.59 (2.48) | 45.6 (3.3) | 44,666 | 46.18 (2.73) | 46.2 (3.6) |
| RBC (10 ⁶ /uL) | 130,027 | 5.17 (0.32) | 5.16 (0.42) | 44,666 | 5.06 (0.31) | 5.06 (0.42) |
| WBC (10 ³ /uL) | 130,027 | 6.86 (1.71) | 6.63 (2.14) | 44,666 | 6.67 (1.56) | 6.46 (1.91) |
| PLT (10 ³ /uL) | 130,027 | 246.82 (45.33) | 243 (58) | 44,665 | 250.08 (48.25) | 246 (62) |

SD = standard deviation, IQR = inter-quartile range, RI = reference interval, Hb = hemoglobin, Hct = hematocrit, RBC = red blood cell, WBC = white blood cell, PLT = platelet, BMI = body mass index.

Table S2. Descriptive statistics of chemistry tests in healthy 20-25 years Korean soldiers.

| All soldiers | n | mean (SD) | median (IQR) |
|---|----------|------------------|---------------------|
| Creatinine (mg/dL) | 242,532 | 0.94 (0.13) | 0.94 (0.17) |
| AST (IU/L) | 242,541 | 24.73 (19.02) | 22 (7) |
| ALT (IU/L) | 242,522 | 22.85 (19.7) | 18 (11) |
| GGT (IU/L) | 242,536 | 19.79 (12.8) | 17 (8.8) |
| Total cholesterol (mg/dL) | 242,363 | 172.08 (29.46) | 169.6 (37.1) |
| Triglyceride (mg/dL) | 234,750 | 87.81 (56.83) | 73 (47) |
| HDL cholesterol (mg/dL) | 234,870 | 53.94 (10.16) | 53 (13) |
| LDL cholesterol (mg/dL) | 234,869 | 104.36 (24.65) | 102 (32) |
| Glucose, fasting (mg/dL) | 242,545 | 91.16 (8.29) | 91 (10) |
| Obese (BMI \geq25.0 kg/m²) | n | mean (SD) | median (IQR) |
| Creatinine (mg/dL) | 65,841 | 0.93 (0.14) | 0.93 (0.17) |
| AST (IU/L) | 65,845 | 26.94 (18.13) | 23 (8) |
| ALT (IU/L) | 65,840 | 31.31 (28.9) | 23 (17) |
| GGT (IU/L) | 65,843 | 25.04 (18.27) | 20 (13) |
| Total cholesterol (mg/dL) | 65,771 | 179.5 (31.96) | 177 (41.8) |
| Triglyceride (mg/dL) | 64,098 | 109.6 (76.54) | 89 (67) |
| HDL cholesterol (mg/dL) | 64,126 | 50.61 (9.6) | 50 (12) |
| LDL cholesterol (mg/dL) | 64,124 | 112.43 (26.53) | 110 (34) |
| Glucose, fasting (mg/dL) | 65,843 | 92.19 (8.56) | 92 (10) |
| Non-obese (BMI <25.0 kg/m²) | n | mean (SD) | median (IQR) |
| Creatinine (mg/dL) | 176,691 | 0.94 (0.13) | 0.94 (0.17) |
| AST (IU/L) | 176,696 | 23.91 (19.27) | 21 (6) |
| ALT (IU/L) | 176,682 | 19.7 (13.59) | 17 (9) |
| GGT (IU/L) | 176,693 | 17.83 (9.3) | 16 (7) |
| Total cholesterol (mg/dL) | 176,592 | 169.31 (27.97) | 167 (36) |
| Triglyceride (mg/dL) | 170,652 | 79.62 (44.69) | 68.4 (40) |
| HDL cholesterol (mg/dL) | 170,744 | 55.19 (10.08) | 54 (13) |
| LDL cholesterol (mg/dL) | 170,745 | 101.33 (23.18) | 99 (29.8) |
| Glucose, fasting (mg/dL) | 176,702 | 90.77 (8.16) | 91 (10) |

SD = standard deviation, IQR = inter-quartile range, RI = reference interval, AST = aspartate aminotransferase, ALT = alanine aminotransferase, GGT = gamma glutamyl transferase, HDL = high density lipoprotein, and LDL = low density lipoprotein.