Correction for: Establishing immune scoring model based on combination of the number, function, and phenotype of lymphocytes

Guoxing Tang¹, Xu Yuan¹, Ying Luo¹, Qun Lin¹, Zhishui Chen²,³, Xue Xing⁴, Huijuan Song¹, Shiji Wu¹, Hongyan Hou¹, Jing Yu⁵, Liyan Mao⁶, Weiyong Liu¹, Feng Wang¹,*¹, Ziyong Sun¹,*¹

¹Department of Laboratory Medicine, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
²Institute of Organ Transplantation, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
³Key Laboratory of Organ Transplantation, Ministry of Education, Ministry of Public Health, Chinese Academy of Medical Sciences, Beijing, China
⁴Department of Nephrology, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
⁵The Third Affiliated Hospital of Zhengzhou University, Zhengzhou, China
⁶Center for Cellular and Molecular Diagnosis, Biochemistry and Molecular Biology, Tulane University School of Medicine, New Orleans, LA 70112, USA

*Equal contribution

Correspondence to: Feng Wang, Ziyong Sun; email: fengwang@tjh.tjmu.edu.cn, zysun@tjh.tjmu.edu.cn

Original article: Aging (Albany NY) 2020; 12: 9328-9343

PMID: 32396527  PMCID: PMC7288950  DOI: 10.1862/aging.103208

This article has been corrected: The authors requested to correct the unit of cell number in Table 1 and Table 2 to μl instead of ml. This mistake was due to the font corruption. The authors declare that these corrections do not change the results or conclusions of this work. The corrected Tables are posted below.
Table 1. Reference ranges of lymphocyte number, function, and phenotype in different age groups.

| Parameters                          | All  | Children | Adolescents | Adults | Elders | N     | P     |
|-------------------------------------|------|----------|-------------|--------|--------|-------|-------|
|                                     | Mean±SD | N=261 | N=47 | N=72 | N=90 | N=52 |
| Age                                 | Mean±SD | (Range) |           |        |        |       |       |
|                                     | 33.68±26.63 | (1-82) | 3.81±1.04 | 10.81±3.74 | 46±13.79 | 71.04±4.39 |
| Sex                                 | Male:Female | 168.93 | 35:12 | 52:20 | 53:37 | 28:24 |
| Number                              | Mean±SD | (2.5%-97.5%) |           |        |        |       |       |
| CD4⁺ T cell number (/µl)            | 836±355 | (374-1881) | 1260±399 | 927±287 | 648±203 | 652±187 | <0.001 |
| CD8⁺ T cell number (/µl)            | 576±310 | (154-1459) | 880±434 | 728±262 | 424±171 | 355±154 | <0.001 |
| B cell number (/µl)                 | 358±252 | (73-1006) | 695±251 | 457±173 | 184±81 | 216±140 | <0.001 |
| NK cell number (/µl)                | 383±219 | (103-920) | 381±243 | 345±228 | 364±165 | 473±239 | <0.001 |
| Function                            | Mean±SD | (2.5%-97.5%) |           |        |        |       |       |
| IFN-g⁺ CD4⁺ T cells (%)             | 17.84±8.85 | (6.62-36.81) | 10.23±4.16 | 12.28±4.86 | 23.72±8.12 | 22.26±7.52 | <0.001 |
| IFN-g⁺ CD8⁺ T cells (%)             | 46.25±22.43 | (13.59-87.72) | 26.89±10.77 | 29.13±10.83 | 56.08±17.92 | 70.46±14.33 | <0.001 |
| IFN-g⁺ NK cells (%)                 | 72.68±12.65 | (43.88-90.94) | 67.28±14.57 | 67.77±13.16 | 77.29±9.95 | 76.37±9.52 | <0.001 |
| Phenotype                           | Mean±SD | (2.5%-97.5%) |           |        |        |       |       |
| CD28⁺ CD4⁺ T cells (%)              | 94.95±7.03 | (73.33-99.97) | 98.17±4.03 | 97.92±2.72 | 92.81±7.6 | 91.61±9.10 |        |
| HLA-DR⁺ CD4⁺ T cells (%)            | 14.33±7.45 | (5.42-32.78) | 9.68±4.79 | 10.64±4.15 | 16.23±7.02 | 20.35±8.25 | <0.001 |
| CD45RO⁺ CD4⁺ T cells (%)            | 50.89±18.88 | (20.58-88.47) | 28.77±7.71 | 40.37±9.88 | 61.09±14 | 67.82±14.07 | <0.001 |
| CD28⁺ CD8⁺ T cells (%)              | 50.89±18.88 | (20.58-88.47) | 28.77±7.71 | 40.37±9.88 | 61.09±14 | 67.82±14.07 | <0.001 |
| HLA-DR⁺ CD8⁺ T cells (%)            | 62.06±17.3 | (52.47-88.91) | 71.58±12.49 | 71.39±12.36 | 58±15.87 | 47.57±16.5 | <0.001 |

SD: standard deviation. P means association between different parameters and age in all participants by using Spearman's rank correlation test.
| Parameters                                      | All (N=261)          | Children (N=47) | Adolescents (N=72) | Adults (N=90) | Elders (N=52) | P    |
|------------------------------------------------|----------------------|-----------------|-------------------|--------------|--------------|------|
| Age Mean±SD                                      | 33.68±26.63          | 3.81±1.04       | 10.81±3.74        | 46±13.79     | 71.04±4.39  |      |
| (Range)                                         | (1-82)               | (1-5)           | (6-18)            | (18-65)      | (66-82)      | <0.001|
| CD4+ T cell number × function (μl)               | Mean±SD              | 134±66          | 125±58            | 108±40       | 153±75       | 147±73|
| (2.5%-97.5%)                                    | (56-293)             | (57-225)        | (57-209)          | (61-328)     | (44-311)     |      |
| CD8+ T cell number × function (μl)               | Mean±SD              | 237±139         | 240±143           | 212±126      | 242±143      | 259±74|
| (2.5%-97.5%)                                    | (72-567)             | (65-665)        | (86-489)          | (79-564)     | (67-553)     | <0.05 |
| NK cell number × function (μl)                   | Mean±SD              | 283±175         | 254±157           | 241±184      | 286±142      | 216±125|
| (2.5%-97.5%)                                    | (49-736)             | (37-585)        | (44-780)          | (90-674)     | (80-832)     | <0.001|
| CD4+ T cell number × CD28+CD4+ T cells % (μl)   | Mean±SD              | 798±359         | 1236±392          | 909±288      | 600±190      | 594±173|
| (2.5%-97.5%)                                    | (333-1844)           | (631-1925)      | (536-1638)        | (318-1001)   | (320-894)    | <0.001|
| CD4+ T cell number × HLA-DR+CD4+ T cells % (μl) | Mean±SD              | 110±60          | 121±70            | 95±37        | 103±52       | 135±78 |
| (2.5%-97.5%)                                    | (36-257)             | (43-299)        | (44-176)          | (35-232)     | (47-339)     | <0.01 |
| CD4+ T cell number × CD45RO+CD4+ T cells % (μl) | Mean±SD              | 385±140         | 347±109           | 358±94       | 393±153      | 444±168|
| (2.5%-97.5%)                                    | (192-709)            | (220-557)       | (225-570)         | (165-735)    | (219-748)    | <0.001|
| CD8+ T cell number × CD28+CD8+ T cells % (μl)   | Mean±SD              | 364±232         | 618±233           | 508±174      | 236±98       | 134±50 |
| (2.5%-97.5%)                                    | (82-949)             | (243-1011)      | (262-950)         | (104-435)    | (57-286)     | <0.001|
| CD8+ T cell number × HLA-DR+CD8+ T cells % (μl) | Mean±SD              | 187±129         | 221±183           | 185±113      | 169±110      | 132±48 |
| (2.5%-97.5%)                                    | (41-547)             | (38-565)        | (67-452)          | (39-478)     | (46-436)     | >0.05 |

SD: standard deviation. P means association between different parameters and age in all participants by using Spearman's rank correlation test.