Correction: Prevalence and Molecular Characterization of Glucose-6-Phosphate Dehydrogenase Deficiency at the China-Myanmar Border

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There are errors in the Results section of this article. In fifth sentence of the “Identification of G6PD mutations” subsection, 9.7% should be 89.7%. The correct sentence is: Of these 87 cases, the Mahidol 487G>A type was the most predominant, occurring in 89.7% (78/87) of the subjects.

In the eighth sentence of the same subsection, 58.0% should be 48%. The correct sentence is: In addition, the silent mutation 1311C>T and the intron 11 mutation IVS11nt93T>C co-occurred in 48% (95/198) of the tested individuals (Table 2).

In addition, there is an error in Table 2: The value 18(35.3%) should not appear in the “Heterozygous” column but in the “Male (n = 51)” column. Please see the correct Table 2 here.
Table 2. Prevalence [n (%)] of G6PD variants in 198 unrelated G6PD-deficient participants*.

| Mutations          | Amino Acid Substitution | Total (n = 198) | Female (n = 147) | Male (n = 51) | P* |
|--------------------|-------------------------|-----------------|------------------|--------------|----|
|                    |                         |                 |                  |              |    |
| Nonsynonymous mutations |                        |                 |                  |              |    |
| Chinese 4 392G>T   | G131V                   | 1 (0.5%)        | 0                | 1 (0.7%)     | 0  |
| Mahidol 487G>A     | G163S                   | 76 (38.4%)      | 5 (3.4%)         | 52 (35.4%)   | 19 (37.3%) | 0.870 |
| Viangchan 871G>A   | V291M                   | 1 (0.5%)        | 0                | 1 (0.7%)     | 0  |
| Canton 1376G>T     | R459L                   | 1 (0.5%)        | 0                | 1 (0.7%)     | 0  |
| Kaiping 1388G>A    | R463H                   | 6 (3.0%)        | 1 (0.7%)         | 3 (2.0%)     | 2 (3.9%) | 0.000 |
| Mahidol/Viangchan | G163S/V291M             | 1 (0.5%)        | 0                | 1 (0.7%)     | 0  |
| Mahidol/Kaiping    | G163S/R463H             | 1 (0.5%)        | 0                | 1 (0.7%)     | 0  |
| Synonymous mutations |                        |                 |                  |              |    |
| 1311C >T/93 T>C**  | Silent mutations        | 95 (48.0%)      | 9 (6.1%)         | 74 (50.3%)   | 12 (23.5%) | 0.000 |
| Unknown            |                         | 42 (21.2%)      | 24 (16.3%)       | 18 (35.3%)   |    |

# The mutations Gaohe 95 A >G (H32R), Coimbra 592 C >T (R198C), Chinese 5 1024C >T (L342F), and Union 1360 C>T (R454C) were genotyped and not found in this study population.

*P value shows the differences in the prevalence of major G6PD deficiency variants between males and females compared using the Fisher’s exact test (two-tailed).

** 24 and 2 of these double silent mutations co-occurred in females heterozygous for the Mahidol and Kaiping mutations, respectively.

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Reference

1. Li Q, Yang F, Liu R, Luo L, Yang Y, Zhang L, et al. (2015) Prevalence and Molecular Characterization of Glucose-6-Phosphate Dehydrogenase Deficiency at the China-Myanmar Border. PLoS ONE 10(7): e0134593. doi:10.1371/journal.pone.0134593 PMID: 26226515