

Table 3. Comparison of Anthropometric Measurements, Complete Blood Count, and White Blood Differentials between Thai Laborers with and without Intestinal Parasites

Item	Negative	Positive	Overall
No.	106	196	302
Anthropometric measurements			
Height (cm)	165.5 ± 6.0	165.3 ± 5.5	165.4 ± 5.7
Weight (kg)	59.7 ± 6.7	60.0 ± 7.2	59.9 ± 7.0
Body mass index (kg/m ²)	21.8 ± 2.1	22.0 ± 2.4	21.9 ± 2.3
Complete blood count			
Total red blood cells (10 ⁶ /mm ³)	5.2 ± 0.5	5.5 ± 0.5	5.4 ± 0.5
Hemoglobin (g%)	14.5 ± 0.9	14.9 ± 1.0	14.8 ± 1.0
Hematocrit (%)	42.7 ± 2.4	45.0 ± 2.7	44.2 ± 2.8
Mean corpuscle volume (fL)	82.9 ± 7.0	82.3 ± 7.1	82.5 ± 7.1
Mean corpuscle hemoglobin (pg/cell)	27.3 ± 2.8	28.3 ± 3.0	27.7 ± 2.9
Mean corpuscle hemoglobin Concentration (g/dL)	34.0 ± 6.0	33.2 ± 0.6	33.5 ± 0.7
RDW (%)	13.5 ± 1.0	13.7 ± 1.3	13.6 ± 1.2
Whiteblood cell differentials			
Neutrophils (10 ³ /mm ³)	5.07 ± 1.75	3.82 ± 1.24	4.26 ± 1.55
Lymphocytes (10 ³ /mm ³)	3.21 ± 0.74	2.85 ± 0.77	2.98 ± 0.78

* Student's t-test; p < 0.05.

Moreover, a higher percentage, 77% (208/270), had eaten raw vegetables. Walking bare foot habitually was indicated by 40.6% (113/278) of the laborers, and 81.1% (245/282) came from farming communities. There was a significant association between consumption of *koipla* and *O. viverrini* infection (Chi-square test, p = 0.0054). The remaining epidemiologic factors were not statistically significant.

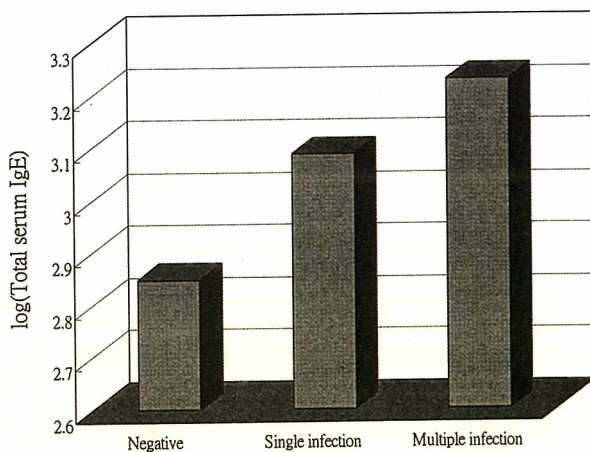


Fig. 1. Comparison of the IgE levels Among Laborers with negative results, single infection and multiple infection.

Anthropometric Measurements

Anthropometric measurements are shown in Table 3. No significant differences were found in the height, weight, and BMI between laborers with and without intestinal parasites.

Complete Blood Count

Comparison of anthropometric measurements, complete blood count, and white blood differentials between Thai laborers with and without intestinal parasites shows that infected laborers had significantly higher values of total RBC, Hb, and Hct (Student's t-test, p < 0.05), whereas uninfected ones had significantly higher values of MCH and MCHC (Student's t-test, p < 0.05) (Table 3).

Differential White Blood Cell Count and Total IgE Level

Significantly higher counts of neutrophils, lymphocytes, and monocytes were found in uninfected laborers, whereas, basophils were significantly higher in infected ones. However, there was no significant difference in eosinophil counts of the 2 groups. As shown in Fig. 1, in a comparison of IgE levels among laborers, the negative group's IgE result was 2.75 and that of the