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Title

Sex Difference of Blood Levels of Water-soluble Vitamins of Japanese College Students Taking Self-selected Food

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Abstract

The blood levels of water soluble-vitamins were examined to identify a possible difference between male (n=23) and female (n=32) Japanese college students with free intake of food. The following values (mean \pm SD) were obtained. Whole blood vitamin B₁: male, 100 \pm 27 pmol/mL; female, 102 \pm 23 pmol/mL. Whole blood vitamin B₂: male,

137±45 pmol/mL; female, 137±39 pmol/mL. Whole blood NAD: male, 30±5 nmol/mL; female, 32±5 nmol/mL. Serum vitamin C: male, 42±16 nmol/mL; female, 52±14 nmol/mL. Serum folates: male, 15.0±5.8 pmol/mL; female, 17.7±5.9 pmol/mL.

Serum vitamin B₁₂: male, 0.31±0.08 pmol/mL; female, 0.38±0.11 pmol/mL. Serum

biotin: male, 9.4 ± 1.8 pmol/mL; female , 7.4 ± 1.9 pmol/mL. The only significant difference between sexes was thus found for the vitamin B₁₂ and vitamin C contents.

Key words

water-soluble vitamins, blood, serum, human, Japanese