

Study on the relationship between the urinary concentration of trace elements and 8-hydroxydeoxyguanosine in persons who eat much marine products

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Abstract

The present study was designed to investigate on the oxidative stress caused by environmental trace elements. Urinary concentration of 8-OHdG, arsenic species and other trace elements were measured in persons who eat much marine products. Urinary concentrations of 8-OHdG in those people were significant higher than in the Japanese healthy people($p < 0.001$). However, a significantly higher contents of all arsenic species in urine were also observed in these people($p < 0.001$), there was no relation between 8-OHdG and all arsenic species in urine. Moreover, 8-OHdG levels in urine were not associated with almost of metals in urine.