

## The Changes of Zinc Level in Oral Environment as a Risk Factors of Periodontal Disease

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### Abstrak

The dynamic of Zinc (Zn) concentration was determined in saliva and blood serum related to periodontal treatment need of student Faculty of Dentistry. The Zn concentration was determined by using atomic absorption spectrometer, and questionnaire was used to measure stress condition and CPITN index was examined by using the standard hand instruments and WHO probe. Almost of concentration of Zn in saliva and blood serum were decrease significantly ( $p < 0,001$  &  $p < 0.05$ ) in stress condition. While CPITN index was increase significantly in stress condition ( $p < 0.0001$ ). These results suggest that Zn is linked to oral saliva ecosystem under physiological stimuli, and than Zn accumulates in the salivary gland during saliva enzyme activities. This condition supported the occur of periodontal disease.