

## Changes in zinc concentration in oral environment as a risk factor of periodontal disease./ Risqa Rina Darwita

Risqa Rina Darwita, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20438564&lokasi=lokal>

---

### Abstrak

The Zinc (Zn) concentration was determined from salivary gland of Wistar King A (WKA) rats. The salivary glands are divided into sub-lingual, sub-mandible and parotis. The Zn concentration was determined within 15-60 minutes of restraint stress. Concentration of Zn in sub-mandible, parotis and sub-lingual glands was significantly higher ( $p < 0.001$ ) than in the control group. Furthermore at Zinc concentration in sub-mandible gland at 30 min restraint stress was increase ( $p < 0.001$ ), and decrease significantly at 49 min by restraint stress. By the way, Zn concentration in parotis gland was increase significantly ( $p < 0.0001$ ) after 60 min restraint stress. The results suggest that Zn is linked to oral saliva under physiological stimuli, and that Zn accumulates in the salivary gland during salivary enzyme activity.