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# Risk of cholecystitis in patients with periodontitis: A nationwide population-based study

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**Background:** The association between periodontitis and digestive diseases such as Crohn's disease, liver abscess and pancreatic cancer has been reported, but no studies have been conducted to investigate the relationship between periodontitis and cholecystitis. Since periodontitis is a microbial initiated chronic inflammatory disease, it may be linked with the gallbladder diseases.

**Aim:** The aim of this study was to investigate the risk of cholecystitis in patients with periodontitis.

**Methods:** We used the Longitudinal National Health Insurance Research Database for this nested case control study. A total of 7,366 patients who hospitalized or emergency visit for cholecystitis from 2010 to 2013 were included as the study group, and the 1:4 ratio matched control group comprised 29,464 age and sex-matched individuals. Both groups were classified according to different levels of periodontitis before the index date.

**Results:** No significantly higher risk of cholecystitis was noted in the patients with periodontitis. Compared to individuals without periodontitis, the adjusted odds ratio (aOR) of

cholecystitis was observed with exposure to mild (aOR=0.925, 95% C.I.=0.855-1.001), moderate (aOR=0.824, 95% C.I.=0.703-0.966), and severe (aOR=0.816, 95% C.I.=0.534-1.247) periodontitis.

**Conclusions:** Our findings indicate that there was no excess risk of cholecystitis in patients with periodontitis.

## Biography

Chao-Bin Yeh has completed his PhD in the Institute of Medicine at Chung Shan Medical University, Taichung, Taiwan and Postdoctoral studies at Chung Shan Medical University. He has worked as Professor in the Department of Emergency Medicine, School of Medicine at Chung Shan Medical University. In addition, he has published more than 50 papers in medicinal journals including dental resource as "Periodontitis and dental scaling associated with pyogenic liver abscess: A population-based case-control study in Journal of Periodontal Research" in recently years and has been serving as a Director of Department of Emergency Medicine, School of Medicine at Chung Shan Medical University.

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