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*et al. J Global Infect Dis*  
*et al. Int J Experiment Dent Sci.*

*et al*

*et al Braz J Oral Sci.*

*Periodontol 2000*

*et al.*

*et al J Indian Soc Periodontol.*

*et al. Clinical Periodontology and Implant*  
*Dentistry.*

*et al. J Indian SocPeriodontol.*

*et al.*

*et al. European Journal of General Dentistry.*

*et al* □

*Ann Dent Univ Malaya.*

*et al.* □

□

*et al. International Journal of Oral Health*  
*Dentistry.*

*Eur J Oral Sci*

*Dent Clin N Am.*

*et al. International Journal of Contemporary*  
*Medical Research.*

*et al.* □

*et al J Periodontol.*

*et al. J ClinPeriodontol.*

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*et al. J Indian SocPeriodontol.*

*et al. Braz Dent J.*

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*et al. J Indian Dent Assoc.*

*et al. Journal of Periodontology.*

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*et al. J Clin Periodontol.* □

*J Dent Oral Biol.*

*et al. J ClinPeriodontol.*

*et al. J Indian Dent Assoc.*

*et al. J Periodontol*

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*et al J Periodontol Res.*

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*et al. J Periodontol.*

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*et al. Eur J Gen Dent.*

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