

2354 Periodontal Status in Mothers with or without Spontaneous Preterm Births

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Objectives: This retrospective case-control study investigated periodontal status of Chinese mothers with or without spontaneous preterm births. *Methods:* Women clear from medical complications attending the Department of Obstetrics and Gynecology at a university teaching hospital having a record of singleton spontaneous pre-term delivery (≥ 24 weeks and < 37 weeks gestation) not explainable by any known risk factor, within a 12-months period prior to the project commencement, were invited to participate (test group). Women with ≥ 37 weeks delivery matched for age (± 1 year) and parity over the same time period were invited to participate as controls. Periodontal parameters including plaque index (PI), bleeding on probing (BOP), probing pocket depth (PPD), probing attachment level (PAL) were measured with manual probes at six sites (mesio-buccal, mid-buccal, disto-buccal, mesio-lingual, mid-lingual, disto-lingual) per each standing tooth by a blinded examiner. *Results:* 34 case and 34 control subjects participated. No difference was detected in terms of BOP%, PI% and mean PPD between the 2 groups. Test group subjects, however, presented with higher PAL (mean 2.2 ± 0.6 mm vs 2.0 ± 0.5 mm, t-test, $p = 0.046$) and greater percentage of sites with attachment loss ≥ 5 mm ($6.8 \pm 8.4\%$ vs $2.1 \pm 3.9\%$, $p = 0.005$). *Conclusion:* In general, women who had experienced a spontaneous preterm birth for unknown reasons experienced more periodontal attachment loss than matched women with normal pregnancy outcomes.

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