

## Association of maternal periodontal disease with preterm babies

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**Introduction:** Preterm births are the major concern in developing as well as developed world. The deleterious effect associated with preterm births range from infant mortality to lifelong morbidity, causing enormous social and economic burden on the society. Although many studies have related preterm births with periodontal disease, the conclusion remains inconsistent. Thus, this study aimed to determine association between maternal periodontal disease and preterm babies.

**Methodology:** It was a cross sectional analytical study design. Data was collected from 400 pregnant ladies who came to Khyber teaching hospital for delivery. An interview-based questionnaire was used to having questions regarding oral hygiene habits, OHI index, gingival index, extent and severity index. An SPSS 16 software was used to analyze data with 95% confidence intervals and statistical significance set at  $P < 0.05$ .

**Results:** Mean age of the subjects was  $25.8 \text{ SD } \pm 4.9$ . Nearly half of the pregnant ladies (48%) had poor oral hygiene. The difference of OHI between the two groups was statistically significant. Majority of the pregnant ladies (58%) presented with moderate gingivitis and the difference between the two groups came out to be statistically significant. Many pregnant ladies presented with generalized periodontitis (88%), however the difference between the two groups was not statistically significant. Severity index revealed that nearly (68%) women suffered moderate periodontitis and the difference came out to be statistically significant.

**Conclusion:** Within the scope and limitations of this study it can be concluded that the studied pregnant ladies suffered from poor oral hygiene as well as varying degree of periodontal disease that may would have been a factor in leading to preterm births.

## Biography

Syed Imran Gilani is an Assistant Professor at Sardar Begum Dental College & Hospital. He also working under the Department of Community & Preventive Dentistry at Gandhara University, Peshawar, Pakistan.