**“Correlation between Periodontitis with Pre-Term Birth and Low Birth Weight and Effect of Non-Surgical Supportive Periodontal Therapy on Pregnancy Outcome** **in a Rural set up in India.”**

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**Abstract:**

**Back Ground:** Strong evidences suggest that maternal infection is a crucial risk factor for preterm Low Birth weight (PTLBW). Like other maternal infection, periodontitis shares common pathogenic mechanism leading to adverse pregnancy outcome.The present study was planned to correlate periodontitis with pregnancy outcomes and evaluate effect of non surgical periodontal therapy on reducing adverse pregnancy outcomes.

**Material & Methods:** 100 pregnant women with periodontitis were randomly assigned to experimental and control groups.

**Results:** There were 20 PTBs in the experimental group and 34 PTBs in the control group. There were 17 cases of LBW in the experimental group and 26 in the control group. The mean birth weight was 2644.44 ± 450.53 grams in the experimental group and 2447.82 ± 368.02 grams in the control group with the difference being statistically significant at p<0.05. The Mean gestational age in the experimental group was 35.57 ± 2.40 weeks and 34.17 ± 2.92 weeks in the control group. (p<0.05)

**Conclusion:** Non-surgical supportive periodontal therapy may reduce the risk for preterm births and Low Birth Weight in mothers who are affected by periodontitis.

**Key Words:** Preterm Birth (PTB), Low Birth Weight (LBW), Periodontitis.

**Key Message:** Healthy Mouth renders healthy baby.

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