• Ankylosis of the temporomandibular joint and mandibular growth disturbance caused by neglected condylar fracture in childhood
• Enamel defect of deciduous teeth in small gestational age children
• Integrated orofacial therapy in chronic rhinosinusitis management for children with sleep bruxism

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**Abstract**

**Background:** Fluoride has widely used in the prevention of dental caries for a long time. To prevent dental caries, fluoride must be induced in low amount at high frequency. Inducing it through implantation process even can make slow release of small concentration of fluoride. **Purpose:** The aim of this research was to analyze whether the induction of monofluorophosphate (MFP) implant into the white rat mothers affects the level of fluoride in the incisors of their young babies. **Method:** The objects of the research were twenty white rat mothers in two days of pregnancy which then were divided into four groups (n=5). First, those mothers have been induced with implant under their back skin until their born young babies in the age of 35 days (n=5). The level of fluoride in the incisors of those young babies then is measured with Potentiometer. The obtained data was finally analyzed with One-Way ANOVA test and continually with LSD test (p=0.05). **Result:** The result of this research showed that the means of the fluoride level in the incisors of those babies divided into those four groups in series were about 11956.16±201.35 ppb (K), 27328.04±234.56 ppb (P1), 37267.21±248.86 ppb (P2), and 18103.50±267.11 ppb (P3). The result of ANOVA test then showed that the induction of various MFP implant levels significantly affects the level of fluoride in the incisors of those babies. The mean differences among those treatment groups after being tested with LSD<sub>0.05</sub> even were also significant. **Conclusion:** The finding confirm that the significant increasing of the optimal fluoride retention in the incisors of those white rat babies can be achieved with the induction of fluoride with MFP ions implant in about 52.98 mg.

**Keyword:** MFP implant fluoride the incisors of white rats,