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#### 5. Title of Manuscript

THE IMPACT OF CADMIUM EXPOSURE ON SEVERAL TOOTH MINERAL CONTENT

#### 6. Abstract

The objectives of this study were to determine the impact of cadmium (Cd) on several tooth mineral content. The tooth mineral content that investigated in this present study are zinc (Zn). Teeth samples were taken from 25 human maxillary premolar 1 free of caries and defects. All the teeth samples were extracted in Dental Faculty, University of Lambun Indonesia. Each of tooth sample was put in the water that contained Cd in he form of CdSO4 with concentration 1 mg/l for 96 hours. The mineral content of the tooth estimation v teeth samples can be divided into 5 groups based on the time of Cd exposure (T1: 0 hours; T2: 24 hours; T3: 48 hours; T4: 72 hours; and T5: 96 hours). The results of this prese significant decrease of Ca, P, Mg, and Zn level in the tooth. The results suggest that Cd exposure can affect several mineral content in the tooth, including Ca, P, Mg, and Zn.

## 7. Keywords (2-10)

Key Words: Cadmium, Calcium, Magnesium, Phosphate, Tooth, Zinc

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