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Title: Fluoride induced tissue hypercalcemia, IL-17 mediated inflammation and apoptosis lead to cardiomyopathy: ultrastructural and biochemical findings

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**Title Page****Fluoride induced tissue hypercalcemia, IL-17 mediated inflammation and apoptosis lead to cardiomyopathy: ultrastructural and biochemical findings**

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Authors declare no conflict of interest related to this manuscript. The study was carried out following all the ethical guidelines (India)

**Significance of the study:** The findings of this study will be helpful in understanding the mechanism of fluoride associated cardiotoxicity and will pave way for early diagnosis and management of cardiac complications in fluorosis endemic areas. The standardised animal model may also be used to evaluate fluoride induced cardiotoxicity for further studies.

**Key Words:** Fluoride toxicity, Cardiotoxicity, Cardiomyopathies, Apoptosis, Atomic Force Microscopy (AFM), SEM-EDX, IL-17, MMP-9, Ultrastructure, inflammation.

**Abbreviations:** LM, light microscopy; ROS, Reactive oxygen species; TBARS, thiobarbituric acid reactive substances; TEM, transmission electron microscopy; SEM,

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