

**THE EFFECT OF GIVING BORAX ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$) TO
KIDNEY HISTOPATHOLOGY ON
RATS (*Rattus norvegicus*)**

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ABSTRACT

The purpose of this study was to evaluate the changes of kidney histopathology after giving borax on *wistar* rats using different dose. The research has been done on February, 6th 2012-March, 8th 2012 at Mulyorejo Utara street number 51A Surabaya and Faculty of Veterinary Medicine, Airlangga University. 20 male rats (*Rattus norvegicus* strain *wistar*) aged 45 days with BW 100 g were used. The rats divided into five groups; rats in one groups was only given sterile aquadest 0,5 ml/rats/day per oral, second groups was given with borax 26 mg/rats/day per oral, third groups was given with borax 52 mg/rats/day per oral, fourth groups was given with borax 78 mg/rats/day per oral and the last groups was given with higher dose of borax was 104 mg/rats/day per oral. The data were compared using *Kruskal-Wallis* test. Statistical comparisons were performed using SPSS 18.0 for windows. This research showed that borax can cause abnormalities on kidney histopathology on rats such as haemorrhagic, degeneration and necrosis cell because ($p < 0,05$).

Key words : borax, natrium tetraborat, kidney histopathology.