DO DIFFERENT BRANDS OF IBUPROFEN POSSESS DIFFERENT ANTI-INFLAMMATORY POTENCIES?

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INTRODUCTION
The potencies of different brands of Ibuprofen were investigated in albino rats. These brands include, Buprol, Tabalon, Brustan N, Medprofen and Troge. These brands all contain the active principle Ibuprofen but with varying amounts of excipients.

OBJECTIVE OF THE STUDY
This study set out to determine the potency of different brands of Ibuprofen on male albino rats.

MATERIALS AND METHODS
Male rats weighing between 150-200gm were divided into 5 groups to evaluate the anti-inflammatory potencies of these brands of Ibuprofen. Inflammation was induced using fresh egg albumin injected into the plantar surface of the right hind paw of the rats in the different groups. Thereafter, group 1 rats received clinical doses of Buprol at 50mg/kg administered intra-peritoneally. The Plethysmometer was used to measure the anti-inflammatory effects of the drug at the 120minute mark after drug administration and the value recorded. Group 2 rats received clinical doses of Tabalon, group 3 rats received clinical doses of Brustan N, group 4 rats received clinical doses of Medprofen while group 5 rats received clinical doses of Troge and the same procedure was repeated for each brand as was done for group 1 rats that received Buprol.

RESULTS
At the end of 120minutes, the findings of this study show a decreasing order of anti-inflammatory potencies as follows: Tabalon > Medprofen > Buprol > Troge > Brustan N.

CONCLUSION
This study has been able to establish the anti-inflammatory potencies of these different brands of Ibuprofen as to allow for ranking although all the brands were effective against inflammation. This will provide a guide to selection of appropriate brand for anti-inflammatory therapy depending on the severity of inflammatory condition and the extent of anti-inflammatory effect required.