

## **Abstract**

# **EFFECT OF GLUCOSAMINE ON THE AVAILABILITY OF DIACEREIN IN HUMAN BODY**

By

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In this pilot study we examined the hypothesis that glucosamine increases the bioavailability of administered drugs if taken concomitantly with glucosamine. The mechanism by which this is achieved is not yet fully understood. Previous work in rat animal model has confirmed an increase in paracetamol bioavailability if administered concomitantly with glucosamine. To test this hypothesis, this study used 6 human subjects as pilot study to test the effect of glucosamine on the selected drug diacerein. The study design of the experiment was planned over 7 days period which entailed administering on the first day a single oral dose of 50 mg diacerein followed on the 2<sup>nd</sup> until 6<sup>th</sup> day of the study period by administering 500 mg oral dose twice daily of glucosamine then on the 7<sup>th</sup> day administration of a single oral dose of 50 mg diacerein. Blood samples were withdrawn on the first day on pre-determined time schedule and on the 7<sup>th</sup> day to test for diacerein bioavailability. Withdrawn samples