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HARMACOLOGIC EFFECT OF ANGEL'S TRUMPET  
(*Solanum suaveolens*) EXTRACT IN CATS ( *Felis domesticus* )

THESIS

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**PHARMACOLOGIC EFFECT OF ANGEL'S TRUMPET**  
**(*Brugmansia suaveolens*) EXTRACT IN CATS (*Felis domesticus*)**

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## **ABSTRACT**

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The study evaluated the effect of angel's trumpet extract on the vital signs and withdrawal reflex, other untoward reactions were noted. The study used six apparently healthy cats that were blocked into pairs. Each pair received a different treatments per week. The treatments were: Treatment 1: dilution 1 (500 grams of leaves into 250 ml. of distilled water), Treatment 2: dilution 2 (250 grams of leaves into 500 ml. of distilled water) and Treatment 3: sterile water.

Mean of heart rate, respiratory rate and rectal temperature have no significant differences in between treatments except for the mean heart rate at five minutes after administration. There was significant increase in heart rate mean at treatment 1 and treatment 2 compared to treatment 3. Within treatments, treatment 1 and treatment 3 showed no significant differences in different time interval. In treatment 2, highly significant increased of mean heart rate was observed on five, 10 and 15 minutes compared to baseline.

Analgesic effects of the treatments were also assessed by using pinch test. Two animals showed no withdrawal response in treatment 1, first one, "analgesia" start at 16 minutes and end at 24 minutes while the other one, "analgesia" start at eight minutes and end in 24 minutes after administration of extract. In treatment 2, one animal showed no withdrawal response which starts at eight minutes and end in 24 minutes. In treatment 3, withdrawal response was observed in all animals. The observed analgesia

was not true analgesia but was attributed to muscle relaxation that modified the withdrawal reflex reaction at pinch test.

Untoward reaction was seen on treatment 1 and treatment 2. Animals given by angel's trumpet extract shows dilation of pupil, vocalization and hyperactivity.

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EXTRACT IN CATS<sup>1/</sup> (*Felis domesticus*)**

**NATHANIEL REALEZA MENDOZA**

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## **INTRODUCTION**

The relief of pain has been, from the earliest times, one of the greatest needs in the practice of medicine. The presence of pain whether it arises from severe injury, disease, surgery or parturition, is of great and immediate importance to the patient and to the physician or nurse.

Analgesics reduce or abolish suffering from pain without producing loss of consciousness.

Sedatives are drugs that quiet and relax a patient without producing sleep. They reduce nervous tension and promote relaxation. With increasing dosage, sedatives cause drowsiness and also produce sleep. They are also used to prevent or relieve convulsions in epilepsy. (Musser and O'Neill, 1969)