

ABSTRACT

NAME OF INSTITUTION: De La Salle University-Dasmariñas

ADDRESS: DBB-B, Bagong Bayan, Dasmariñas, Cavite

TITLE: A Study on the Effects of Formalin to the Weight of (*Rattus norvegicus*) Albino rats

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DATE COMPLETED: December 1997

OBJECTIVE OF THE STUDY: To know the other possible effects of formalin to the body disregarding its fatal effects.

SCOPE AND COVERAGE: ^{3/1} Three groups of rats consisting of five rats each were treated with formalin with varying concentrations ranging from 1ppm to 4ppm. The rats were treated with 1 mL of formalin thrice a day for 4 wks. These rats were examined before, during and after being treated with formalin. Significant changes on their weight were recorded. ^{3/}

METHODOLOGY: The experiment was done at SJV Apartelle, Dasmariñas, Cavite starting from November 20 to December 20. Three groups of rats were treated with formalin and another group served as a control. A 7.14-mL of 70% formalin was used to make a diluted solution. This was done by diluting formalin to 1000 mL of water in a volumetric flask. The rats were treated with formalin orally using Gavage method. The experiment was done for 4 wks.

MAJOR FINDINGS: The rats treated with 2ppm of formalin were the heaviest among the other groups of rats.

RECOMMENDATIONS: The rats must be weighed before the experiment so as to know that they are in good shape and uniform weight. The temperature and sanitation should be maintained to avoid any interference with the results. The rats should weigh an average of 14 to 18 g in order for them to be treated with formalin using Gavage method. To determine the degree of the effect of formalin on rats' weight, different concentrations of formalin should be used to treat them. And lastly, this study could serve as a preliminary study on a more extensive study regarding the effects of formalin to the body. The length could be a perimeter granted that the experiment should be done in at least 2 months' time.

