

ABSTRACT

Name of Institution: De La Salle University-Dasmariñas

Address: Bagong Bayan, Dasmariñas, Cavite

Title: The Effects of Meng Nan Bien Wan Potency Solution on the Reproductive Organs of Male Albino Rats.

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Objectives of the study:

A. General:

To know the effects of Meng Nan Bien Wan potency solution on the reproductive organ of male albino rats.

B. Specific:

for study animal
To know the potentiality and the accuracy of *Meng Nan Bien Wan* this potency solution in determining its effect on an isolated case such as the development and increase of the production of sperm which was experimented on male albino rats.

Scope and Coverage:

Studying the effect on the reproductive system of an animal particularly the male albino rats was very broad, so the researchers limited their study to the problem concerning *development and* the increase of the production of sperm, sperm motility and sperm

morphology; and the increased in the body weights^{of male albino rats} with regards to the different dosages applied.^{2/}

^{3/}Twelve sexually mature albino rats were used in this study. After one month of acclimatization, the rats were then randomly divided into four groups (control, 0.5 ml dose, 1.0 ml dose, and 2.0 ml dose of Meng Nan Bien Wan potency solution) with three rats per group.^{3/}

Methodology:

Research Design

This was an experimental analysis on the effects of Meng Nan Bien Wan potency solution on the male albino rats.

Research Setting

All albino rats that were used in the experiment were bought at U.P. Los Banos and were eventually reared at the house of Dave Manalansan. The solution used in this study was orally administered to the albino rats. All the experiments were conducted at De La Salle Laboratory and at the Department of Science and Technology.

Research Procedure

The preparation of different Meng Nan Bien Wan dosages was determined using ratio and proportion calculations. In preparation of animal, twelve sexually mature male albino rats were divided into four groups (control, 0.5 ml dose, 1ml dose and 2ml dose treatment based in the equivalent dosage of humans per solution) with 3 rats per group. This medicine would be orally administered using Gavage method daily for 14 days. At the end of the treatment period, the body weights of the rats in each group were

determined and the rats would undergo a massage method wherein the obtained sperm would undergo further analysis and would be categorized into those categories under sperm count, sperm motility, and sperm morphology. All the data gathered from the three categories were statistically analyzed.

Findings:

The result of the study showed the effectivity of the Meng Nan Bien Wan potency solution on the male albino rats but it was not recommended for use due to the increase of the abnormalities of the sperm when the dosages were increased. //

Conclusion:

Based on the results gathered, the researchers concluded that the body weights and the sperm count of the male albino rat were directly proportional to the different dosages given, which means that an increased in dosages, would result to an increase in the body weights and sperm count of the albino rat. In sperm motility it was insignificant since there were no changes that occurred to all the different dosages given when categorized in such scoring scheme. But the main problem arose when the sperm morphology was analyzed which showed a highly significant effect between the dosage of 0.5 ml and 1 ml. respectively, in which abnormalities arose when there was a sudden increase in the dosage. Which means that as you increase the dosages the number of abnormalities would also increase which is not a good sign and which would, therefore, be the basis for not recommending this Meng Nan Bien Wan potency solution. Thus, further study on the chemical component which causes the increase in sperm morphology must be employed.

Recommendation:

For a future study of this kind, a more intensive study on the chemical composition of the Meng Nan Bien Wan potency solution is recommended. Future researchers is also recommended to suggest other ways of semen collection. Use oil as a carrier or use other solvents other than distilled water. Use other dosages higher than 2 ml. Immediate semen motility and morphology in evaluation right after collection. And finally, use a semen medium to ensure minimal changes in semen morphology.

