

"Green Technology for Collaboration Programs"

First Phase examination of Saudi Herbal medicinal formulation for inflammatory formulation (Acne and Abscesses)

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The formulae of the skin inflammatory has been mixed with some Saudi herbs which grow in the Kingdom of Saudi Arabia, like nabk, fennel, mule, fenugreek, and others. We hope that this formula become Saudi product in market, which are based on local, natural, primary materials. During the functions of the conference, samples of these products will be showed beside the booster.

From popular survey, we found out that some of the extracts of these plants were used frequently in many Arabic countries. They are considered safe and never recorded to cause any harms, neither to the skin, or *in vivo*. This is true whether they are used as cosmetic products in the field of cosmetic preparations, or as products in the popular medicine, (this is called now, the alternative medicine, but we refuse this name and we should better call it the "original medicine" not the "alternative").

From the literature facts on these plants, we discovered the value of LD₅₀, and IC₅₀ *in vitro*. These are found in the extracts of the plants, which are used in both Acne and Abscesses. We used certain doses of the extracts, less than the half-lethal dose, which kills half the cells and/or the test mice. According to these results, we tested the formulation on more than 100 people. Most of them were females and males and some children in several region at Arabic countries. Their ages range between 10 to 60 years. They have been chosen from several Arabic countries. We collected their opinions about the use of the formulation, through a specially designed questionnaire. Through this, we concluded the fact of the safety of the formulation on the skin, and their significant effect on treatment both Acne and Abscesses. In addition to their effect in drying the acne, and the absence of the noticeable redness around the papules, through the use of the formulation twice in the first day. It was noticed that there is a considerable reduction in the papules of acne after the use of the formulation twice daily for two to three days only. I used the formulation as a cream myself, on some big abscesses, which need surgical drainage, and it was noticed that the abscess disappeared with the use of the cream twice daily for 3-4 days only. In addition to the success of this cream formulation in the treatment of five more cases in my relative family. They were all studied under medical supervision. It was also noticed that the effectiveness on the skin of these herbal medicinal plants extracts was so powerful that they negatively affected on some individuals with red or delicate skin, which are easily affected by the sun or ultraviolet rays. They developed inflammation, skin rash, and itching on the areas of cream applications. These side effects were absent within half to one hour. The duration of the skin rash depends on the dues of the used dose.

Most of the required tests have been done on cream formulation as first phase. (1) Estimation of metals and negative radicals like chlorides and sulfates...*etc.* (2) pH value,

for the cream: 6.5 (3) Heat stability: it was found that the shelf time is more than three years. (4) Total fat content. (5) Water content. (6) Estimation of insecticides. (7) They were found containing neither Staph aureus bacteria nor pseudomonas harmful bacteria. The cream is considered effective against the bacterial growth. (8) Bacterial account. (9) Fungi and yeasts. (10) Toxicity. The results of these tests were congruous with the published specifications of the Saudi Corporation for Standards and Measurements. There is neither dyes nor perfumes in formulation cream. Besides containing the allowed percentage (according to the WHO) of vitamin E and C, preservatives, fixing, and thickening materials like parabin derivatives, EDTA, Thymol, pectin, etc. These substances were used in the formulae of the formulation cream. The results of the tests will be showed during the functions of the conference.

This Saudi formulation cream is included within the green sciences. As they are cream produced from natural resources, not chemical ones. It does not carry much harm as the traditional chemical creams. They are considered as friendly to the environment.

We did the chemical tests on the cream formulation and it's medicinal testing not according to the FDA regulation. Therefore, we need in this stage to following the FDA with collaboration with one of the American drug company as collaboration between Kingdom of Saudi Arabia and America Drug company for producing Natural Drug using the Saudi herbal medical plants as active ingredients in the formulation for treatment of Inflammation, Cancer, CNS and Metabolic Disease.

Finally, in Saudi Arabia, there are more than 3000 plants, about more that 100 plants were considered as herbal medicinal plants. Most people in Saudi Arabia are used these plants in folk medicinal drugs. In this time is suitable for drug discover and development of Innovative therapeutics formulation of these plants as natural drugs use in Saudi Arabia and Arabic countries because we believed from our "Holly Quraan" and "Medicine of Profit" and also, from our grand-grand fathers, they used these folk plants in treatments most disease.