

SUDAN UNIVERSITY OF SCIENCE AND THEHNOLOGY

COLLEGE OF GRADUATE STUDIES

INSTITUTE OF LASER

USING Nd:YAG LASER IN
KELOID TREATMENT, A
COMPARATIVE STUDY

A Dissertation submitted as partial Fulfillment for the
Requirement of The Degree of Postgraduate Diploma

In LASER Application in Medicine

Dermatology

By: Dr. Ihsan Abdalrhman Abdalla

Supervisors:

Dr. Mubarak Elmahal Ahmed

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Abstract:

Keloids are disfigures wounds repair which cause problem to the patient and challenge for the treating doctors.

In this comparative study which was done in the period from June to July 2007 we used the Nd:YAG 1064 nm for treating keloids and compare it with one of the conventional treatment which is intralesional steroid. 22patients involved in this study divided into three groups. Group 1 received intralesional steroid. Group 2 received steroid plus LASER sessions. Group 3 had LASER treatment only.

Although the results obtained were same for the three groups, and considering the side effects of steroid ,LASER treatment was promising and needs more work up for more patients and longer time .

مقدمة:

مرض الجذرة يحدث نتيجة خلل في عملية التئام الجروح الجلدية و يؤدي الى تشوهات التي تؤدي الى مشاكل للمريض و تحدي للطبيب لصعوبة علاجها .

في هذه الدراسة المقارنة التي تمت في الفترة بين مايو الى يوليو من عام ٢٠٠٧، تم العلاج بجهاز الليزر ND:Yag ذو الطول الموجي ١٠٦٤ نانومتر و تمت مقارنته بالعلاج التقليدي للجذرة و هو الحقن داخل الورم بمادة الكورنيزون .

تم اختيار حوالي ٢٢ مريض لهذه الدراسة قسموا الى ثلاث مجموعات . مجموعة تم علاجها بالليزر، و مجموعة تم علاجها بالليزر زائدا الحقن الموضعي بالكورنيزون، و مجموعة تم علاجها بالحقن بالكورنيزون فقط . بالرغم من أن نتائج العلاج أظهرت تماثلا في المجموعات الثلاث لكن بالنظر الى المضاعفات الناتجة من العلاجات الأخرى نجد أن العلاج بالليزر بالنسبة للجذرة علاج واعد و يحتاج الى مزيد من الدراسة لمرضى أكثر و لفترة علاجية أطول.