



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



شبكة المعلومات الجامعية
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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

س.أ.ع.أ.

**EFFECT OF MICROWAVE PROCESSING
ON VERTICAL AND HORIZONTAL
RELATIONS OF COMPLETE
DENTURES
(COMPARATIVE STUDY)**

*Thesis submitted to the Faculty of Dentistry, Suez Canal
University, for Partial Fulfillment of the Requirements for
The Master Degree in Prosthodontics*

By

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**Faculty of Dentistry
Suez Canal University**

2005



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

"وَقُلْ رَبِّ زِدْنِي عِلْمًا"

صدق الله العظيم

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The first part of the paper discusses the importance of the study of the history of the United States. It is argued that the study of the history of the United States is essential for a full understanding of the country and its people. The second part of the paper discusses the importance of the study of the history of the world. It is argued that the study of the history of the world is essential for a full understanding of the world and its people. The third part of the paper discusses the importance of the study of the history of the United States and the world. It is argued that the study of the history of the United States and the world is essential for a full understanding of the United States and the world.

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Faculty	Faculty of Dentistry – Suez Canal University.
Department	Prosthodontic department.
Location	Ismailia- Egypt.
Degree	Master Degree
Date	2005
Language	English.
Supervision committee	Prof. Dr. Moataz Mostafa Bahgat El Mahdy. Dr. Sayed Mohamed Mohamed El Masry.

ENGLISH ABSTRACT

Heat curing by the microwaves is one of the methods used to cure acrylic resin denture bases, and this study was carried out to investigate, the effect of microwave curing on the vertical and horizontal occlusal relation of acrylic resin complete dentures, and comparing it with the effects occurring in conventional hot water bath curing (short cycle).

Thirty identical complete dentures were constructed, and divided into two equal groups:

Group (A): the dentures were cured with conventional hot water bath curing method (short cycle), in a metal flask.

Group (B): the dentures were cured with microwave energy, in the fiber reinforced plastic flask.

The changes in the vertical and horizontal dimensions were measured after processing for both groups

The results of this study showed:

Increase in the vertical dimension of occlusion and Changes in the horizontal relations for both methods of curing, but the microwave cured dentures showed lesser changes than conventional hot water bath (short cycle) cured dentures.

It is concluded from this study that:

- 1- Microwave curing produces lesser occlusal discrepancies than conventional hot water bath curing (short cycle)
- 2- Microwave curing produces lesser horizontal discrepancies than conventional hot water bath curing (short cycle)
- 3- It is better to process acrylic dentures in microwave oven.

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Judgment and discussion committee	Prof. Dr. Mohammed Esam Eldein Sanad. Prof. Dr. Adel Mostafa Abd El Monem. Prof. Dr. Moataz Mostafa Bahgat El Mahdy.