

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار





بعض الوثائق الأصلية تالفة





بالرسالة صفحات لم ترد بالأصل



**Evaluation of periodontal changes
associated with orthodontic tooth
movements using fixed orthodontic
appliances**

Thesis

*Submitted for partial fulfillment of the requirements of the
Master degree in orthodontics*

By

DALIA HUSSIN AHMED
B.D.S

*Faculty of Dentistry
Tanta University*

B

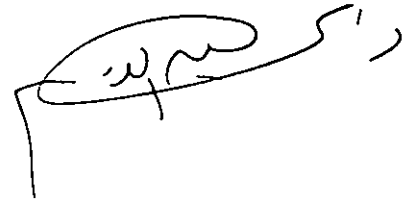
114 E^o

2001

Supervisors

Dr. Samir Fouad Aboul Azm

*Professor of Orthodontics
Orthodontic Department
Faculty of Dentistry
Alexandria University*



Dr. Medhat Mohamed El-Sakhawy

*Prof. and head of orthodontic Department
Faculty of Dentistry
Tanta University*



Dr. Sanaa M. Shafshak

*prof. of Periodontology
Faculty of Dentistry
Tanta University*



بسم الله الرحمن الرحيم

﴿ربنا لا تزغ قلوبنا بعد إذ هديتنا وهب

لنا من لدنك رحمة إنك أنت الوهاب﴾

«صدق الله العظيم»

(سورة آل عمران/٨)

To :

My husband, My Son and My Parent.

ACKNOWLEDGEMENT

Thanks to **ALLAH** for helping me to achieve this work.

I'am deeply grateful to professor Dr. **Samir Fouad Aboul Azm**, Professor of Orthodontics, Faculty of Dentistry, Alexandria University for giving me his precious confidence, help and the generous support throughout this work.

I would like to thank professor Dr. **Medhat Mohamed El-Sakhawy**, Prof. and head of orthodontic Department, Faculty of Dentistry, Tanta University, who give me the idea of this work and for helping me in the practical part and supervision of this work.

I wish to thank professor Dr. **Sanaa M. Shafashak**, Prof. of periodontology, Faculty of Dentistry, Tanta University who offered much of her time, experience and guidance.

I am also grateful to **Gada El-Mehey** Assistant lecturer orthodontic Department, Faculty of Dentistry, Tanta University, for her help and advice in this work.

Contents

Chapter

List of Tables

List of Figures

Introduction and review of literature	1
Aim of the work	22
Materials and methods	23
Results	38
Discussion	70
Summary	75
Conclusion	76
References	77
Arabic summary	

List of Tables :

Table (1): The effect of intrusive tooth movement on different clinical periodontal indices.

Table (2): The effect of tilting tooth movement on different clinical periodontal indices.

Table (3): The effect of bodily tooth movement on different clinical periodontal indices.

Table (4): The results of BANA hydrolysis enzyme test during intrusive tooth movement.

Table (5): The results of BANA hydrolysis enzyme test during tilting tooth movement.

Table (6): The results of BANA hydrolysis enzyme test during bodily tooth movement.

List of Figures :

Fig (1): A photograph showing N-Benzoyl- DL- Arginine naphthylamide powder and fast garnet..

Fig (2): A photograph showing addition of fast garnet to BANA solution.

Fig (3): Intraoral photograph showing probing pocket depth of the mesial surface of upper right canine.

Fig (4): Intraoral photograph showing the orthodontic appliance.

Fig (5): Intraoral photograph showing sample collection.

Fig (6): Intraoral frontal view showing collection of the plaque sample from the upper central incisor after six months of treatment.

Fig (7): Intraoral photograph showing disclosed plaque before application of orthodontic appliance.

Fig (8): Intraoral photograph showing slight plaque as evidenced by the use of disclosing tablet before premolars extraction.

Fig (9): Intraoral photograph showing plaque stained by disclosing tablet after four months of treatment.

Fig (10): Photograph showing measuring of the distance from the cusp tip of the canine to the mesiobuccal cusp of the second molar before appliance construction by the use of tooth measuring gauge.

Fig (11): Photograph showing measuring of the distance from the cusp tip of the canine to the mesiobuccal cusp of the second molar after six months of bodily movement of the canine.

Fig (12): Graph showing the relationship between intrusive tooth movement and plaque index.

Fig (13): Graph showing the relationship between intrusive tooth movement and gingival index.

Fig (14): Graph showing the relationship between intrusive tooth movement and pocket depth.

Fig (15): Graph showing the relationship between intrusive tooth movement and bleeding on probing.

Fig (16): Graph showing the relationship between intrusive tooth movement and attachment loss.

Fig (17): Graph showing the relationship between tilting tooth movement and plaque index.

Fig (18): Graph showing the relationship between tilting tooth movement and gingival index.

Fig (19): Graph showing the relationship between tilting tooth movement and pocket depth.

Fig (20): Graph showing the relationship between tilting tooth movement and bleeding on probing.

Fig (21): Graph showing the relationship between tilting tooth movement and attachment loss.

Fig (22): Graph showing the relationship between bodily tooth movement and plaque index.

Fig (23): Graph showing the relationship between bodily tooth movement and gingival index.

Fig (24): Graph showing the relationship between bodily tooth movement and pocket depth.

Fig (25): Graph showing the relationship between bodily tooth movement and bleeding on probing.

Fig (26): Graph showing the relationship between bodily tooth movement and attachment loss.