Assessment of the effect of home bleaching on surface roughness and micro hardness of The Enamic Hybrid Ceramic compared with Feldspathic one

(An in vitro study)

Thesis

Submitted to Faculty of Oral and Dental Medicine, Cairo University
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By

Abdel aziz Kamal Mohamed

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SUPERVISORS

DR. RABAB MOHAMED IBRAHIM

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine,

Cairo University

DR. OMNIA EL SHIHI

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine,

Cairo University

DR. RASHA NABIL SAMI

Lecturer of Fixed Prosthodontics

Faculty of Oral and Dental Medicine,

Cairo University

Judgment Committee

DR . EMAN MOHAMED ANWAR HUSSEIN

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine

Cairo University

DR .NADIA ZAKARYA FAHMY

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine

October University for Modern Sciences and Arts

DR . RABAB MOHAMED IBRAHIM

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine

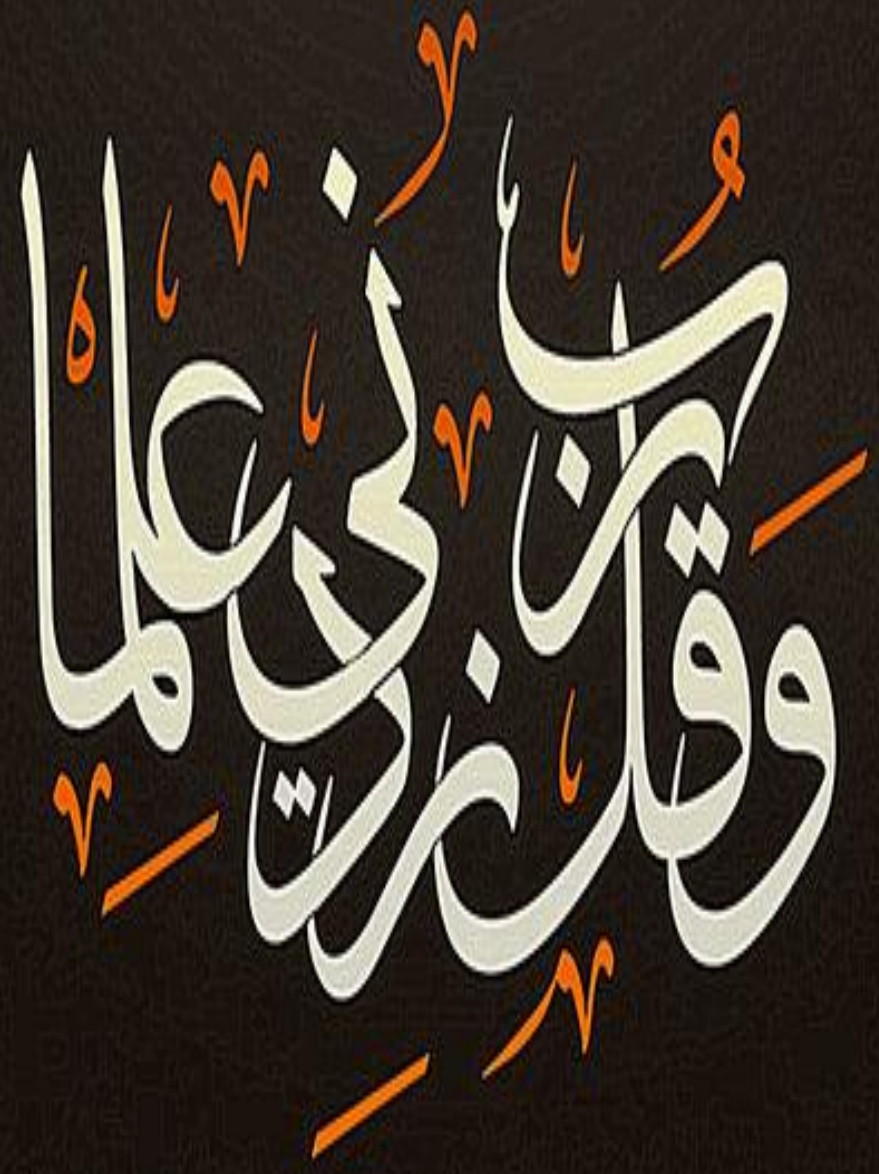
Cairo University

DR . OMNIA EL SHIHI

Professor of Fixed Prosthodontics

Faculty of Oral and Dental Medicine

Cairo University



سبحانك لا علم لنا الا ما علمتنا انك أنت العليم الحكيم

DEDICATION

- *To my Father's soul and dear Mother*

For her prayers for me,
and support.

- *To my Brothers and Sisters*

For their support
and wise advice during
the years of work and
personal life as well.

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Introduction

INTRODUCTION

Esthetics, by definition, is the beauty science , that particular detail of an animate or inantimate object that makes it appealing to the eye . Several factors may alter the appearance of smiles, including alterations in the form, texture, position and color of the teeth . Discolored teeth could be an esthetic challenge make patient seeking for such restorative treatments, for example direct composite veneers, indirect ceramic veneers, ceramic crowns.

Vital tooth bleaching is a treatment modality that has presented an exponential increase to treat tooth discoloration. Hydrogen peroxide or peroxide releasing agents, such as carbamide peroxide are the most common agents used for vital tooth whitening. Overall, when in contact with outer enamel surface, the peroxide-containing whiteners break down into water and oxygen, which diffuse through the enamel, causing oxidation of organic pigments which are mainly located within dentine.

New products and a number of methods have been available for tooth vital bleaching using At-home tooth whitening applied in custom trays. The benefits achieved with tray-based systems are widely known: lower incidence of tooth sensitivity or gingival irritation , less visits to the dental office , achievement of the same whitening results as higher concentrations agents, safety and efficacy of carbamide peroxide that has already been established in published clinical trials.