“Influence of Contamination and Cleaning Methods of Polyetheretherketone (PEEK) on Tensile Bond Strength”

Thesis

Submitted for the partial fulfillment of the Doctorate Degree requirements in Fixed Prosthodontic Department,

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By

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Dedication

I lovingly dedicate this thesis to

My dear father

Moheb Ibrahim,

My mother & sisters

As they have always given me endless

Love, Support and

Encouragement

Acknowledgment

First of all, I would like to thank **God** for

this accomplishment.

My deepest appreciation and gratitude to my supervisor ***Dr. Marwa Mohamed Wahsh***, Associate Professor of Fixed Prosthodontic Department, Faculty of Dentistry, Ain Shams University, for all I have learnt from her and for her continuous guidance and support.

To ***Dr. Ahmed Ezzat Sabet***, Associate Professor of Fixed Prosthodontic whose vast knowledge, endless support and valuable input couldn't be overseen.

I am also grateful for the patience and assistance provided by ***Dr. Fatma Mohamed Adel***, Lecturer of Fixed Prosthodontics which was much appreciated.

I would like to extend my appreciation and respect *to* ***Dr. Tarek Salah Morsi***, Professor and Head of Fixed Prosthodontic Department, Faculty of Dentistry, Ain Shams University, to whom I owe a lot for his great support and encouragement throughout this whole journey.

Last but not least, I wish to express my sincere thanks to all my colleagues and staff members. Special thanks should be given to ***Dr. Ahmed Abo El Fadl*** Associate Professor of Fixed Prosthodontic, for his continuous support. My gratitude should also be for ***Dr. Kamal Ebeid***, Lecturer of Fixed Prosthodontic and ***Dr. Nancy Rafla,*** Assistant Lecturer of Fixed Prosthodontic for their helpful and valuable contribution.

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List of abbreviations

CAD/CAM: Computer Aided Design/ Computer Aided Manufacture

PAEK: Polyaryletherketone

PEEK: Polyetheretherketone

FDP: Fixed Dental Prostheses

CS: Cerasmart

KA: Katana Avencia Block

HC: Shofu Block HC

HPP: High Performance Polymer

TBS: Tensile Bond Strength

POM: Polyoxymethylene

CoCr: Cobalt‑Chromium

PEK: Polyetherketones

PK: Polyketones

CT: Computed Tomography

SBS: Shear Bond Strength

TBS: Tensile Bond Strength

μTBS: Micro-Tensile Bond Strength

SFE: Surface Free Energy

SR: Surface Roughness

PMMA: Polymethylmethacrylate