# In- Vivo Assessment of Dentin Bridging Following Direct Pulp Capping

Thesis Submitted to the Faculty of Dentistry for Partial Fulfillment of Requirements for Doctor Degree in Operative Dentistry

#### *By:*

### Aya El-Sayed Mahmoud Samaha

BDs, MSc 2010

Assistant Lecturer, Operative Dentistry Department Faculty of Dentistry, Ain Shams University

### بسم الله الرحمن الرحيم



صدق الله العظيم الآية (٥) سومرة العلق

### SUPERVISORS

#### Prof. Dr. Farid Mohamed Sabry El-Askary

Professor and Head of Operative Dentistry Department
Faculty of Dentistry
Ain Shams University

#### Dr. Ashraf Mohamed Abdel-Rahman Abu-Seida

Associate Professor of Surgery, Anesthesiology and Radiology
Faculty of Veterinary Medicine
Cairo University

### **DEDICATION**

This work is dedicated to my family; my father, my mother and my sister for their love, care and support and to my husband and daughter, to whom I owe everything, I ever did and will achieve.

Thank you all for being there for me.

## ACKNOWLEDGMENT

I would like to express my deep gratitude to **Professor Doctor Farid Mohamed Sabry El-Askary,** Head of the Operative department, Faculty of Dentistry, Ain Shams University and Professor of Operative Dentistry, Faculty of Dentistry, Ain Shams University, for his time, supervision and valuable advices.

My sincere appreciation goes to **Doctor Ashraf Mohamed Abdel-Rahman Abu-Seida,** Associate Professor of Surgery,
Anesthesiology and Radiology, Faculty of Veterinary Medicine, Cairo
University, for his encouragement and help.

I would like to genuinely thank **Professor Doctor Hisham Abdel-Wahab**, Professor of Operative Dentistry, Faculty of Dentistry, Ain Shams University, for assisting me during the early planning of this study.

Special thanks to my friends and colleagues of the Operative Department, Faculty of Dentistry, Ain Shams University, for their support and encouragement. Last but not least, I wish to thank **Doctor Maram Obeid**, Lecturer of Endodontics, Faculty of Dentistry, Ain Shams University, for being there for me every time I needed her.