**ACKNOWLEDGMENT**

First and foremost, I would like to give all thanks to **ALLAH** for guidance, support and reconcile throughout my life.

Also, I would like to express my deepest gratitude to my principle supervisor **Prof. Dr. Zakaria Mowafy,** Professor of Physical Therapy Department for Surgery, Faculty of Physical Therapy, Cairo University, for his continuous supervision, support and encouragement throughout the work.

A special thanks to **prof.** **Dr. Reda Abdelwahab Alkhoribi** vice deanof computer science, faculty of computer science, Cairo University.

Also, my appreciation and gratitude to all my colleagues of physical therapy department for surgery and everyone who supported me.

**Development of A Clinical Prediction Rule To Identify Efficacy Of low level laser On Abdominal Contouring In post bariatric surgeries. Ahmed Mohamed Nagy; Supervisors: Prof. Dr. Zakaria Mowafy, prof. Dr. Reda Abdelwahab Alkhoribi, Faculty of Physical Therapy, Cairo University, 2018.**

**Abstract**

**The Purpose:** This study was conducted to investigate the effect of the age, sex, BMI, and waist circumference on efficacy of low level laser in patients suffered from abdominal obesity. Sixty five patients (males and females) with ages ranged from 20-55 years were selected from post bariatric abdominal obesity patients.

**Patient Group:** one group of patients Suffered from abdominal obesity and managed with low level laser.

The patient's waist circumferences were assessed before treatment (pre), after six weeks of treatment application.

**Results:** The results of this study showed that best improvement was in patient's age from **32.77** to **34.95** years old, BMI from **30.4** to **32.06**, waist circumference from **94.20 t**o **100.58** cm. and no significant relation with sex type.

**Conclusion:** it was concluded that sex, BMI, and waist circumference can affect the efficacy of low level laser on abdominal obesity with no effect for age variable.

**Key Words:** (clinical prediction, low level laser, abdominal contour)