

Evaluation of Periprosthetic Fractures of the Distal Femur after Total Knee Arthroplasty Treated by Lateral Locked Plate.

THESIS

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Abstract

In our study the mean and range of pre-fracture knee society score was more than the after healing score and this difference was statistically significant. Our results showed fracture healing in 28 patients (93.4%). the healing time range was from 10 -17 week with mean of 13.7week. We had one case of implant failure managed using distal femoral replacement and non union after 7 month managed using also distal femoral replacement We had two cases of superficial wound infection treated by early debridement and lavage and both cases passed the infection and healed without residual infection and returned to base line ESR and CRP Point of weakness in our study was small volume, but this was due to the low incidence of these fractures, this low volume of patients rendered getting statistical significance a hard job in this study. Also we couldn't asses accurately the rotational malalignment as these needed follow-up CT which was difficult to do routinely in the follow-up visits.

We found a relation between older patients and delayed weight bearing and lower knee society scores this gets to our minds that doing distal femoral replacement in these aged group is a better option to return them back to their pre-fracture activity.

Keywords

CRP , APC, VA-LCP , Arthroplasty, Lateral Locked Plate



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

(قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا

إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ

الْعَلِيمُ الْحَكِيمُ)

صدق الله العظيم

(سورة البقرة: 32)





Dedication

My work is dedicated to:

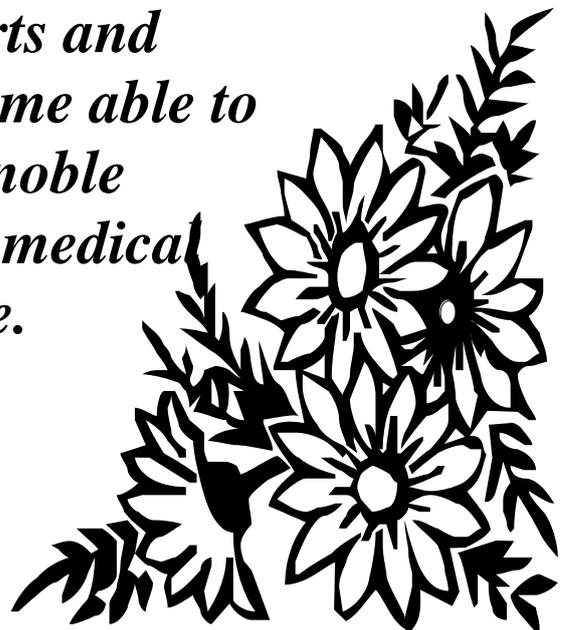
*My Great Good Allah,
Merciful, Al-Aliem,
Al-Khabeer*

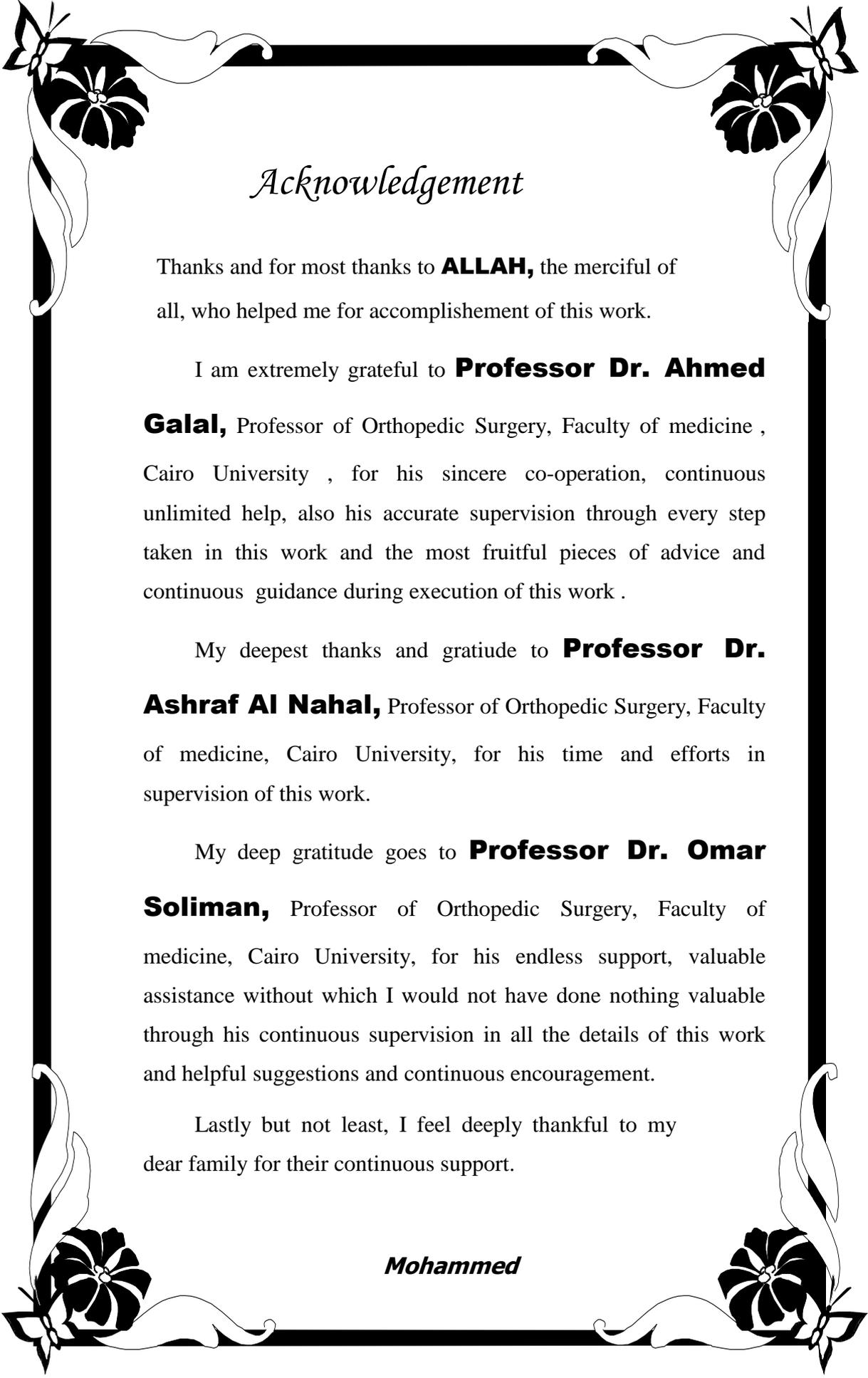
&

*My beloved Prophet Mohammed
Peace and Blessings of ALLAH
upon him*



*Whose efforts and
guidance made me able to
serve this noble
profession of medical
science.*





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List of Abbreviations

AP	Anterior-Posterior
APC	Allograft-prosthetic composite
ASA	American Society of Anesthesiologists
HKA	Hip-knee-ankle angle
IBI	Insall Burstein Posterior Stabilized Prosthesis
LHS	Locking head screw
LP	Locked plate
PS	Posterior Stabilized implants
RR	Relative risk
TCP	Total Condylar Prosthesis
TKA	Total Knee Arthroplasty
VA-LCP	Variable-angle locking compression plate
WOMAC	Western Ontario and McMaster Universities scores

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