

# **Management Modalities for Fractures of Zygomatic Complex and Arch**

Thesis

Submitted in partial fulfillment of M.D. degree

In

General Surgery

**By**

**Mohamed Hazem Abdel Azeem**

MBBCh - MSc

Faculty of Medicine, Cairo University

**Supervised by**

**Prof. Dr. Ahmed Sherif Gamal Azab Karim**

Professor of General and Plastic Surgery Faculty of Medicine,  
Cairo University

**Prof. Dr. Ahmed Gameel El-Sharkawy**

Professor of General and Plastic Surgery Faculty of Medicine,  
Cairo University

**Dr. Amr Ibrahim Fouad Mahmoud**

Lecturer of General and Plastic Surgery Faculty of Medicine,  
Cairo University

2010

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# *Acknowledgements*

I would like to thank all of those who taught me throughout the years of my life especially the members of the staff of the plastic & general surgery department in Cairo University for their kind & sincere effort.

I would like to express my sincere gratitude to **Prof. Dr. Ahmed Sherif Gamal Azab Karim**, *Professor of General and Plastic Surgery Faculty of Medicine, Cairo University*.

I would like to express my deepest appreciation to **Prof. Dr. Ahmed Gameel El-Sharkawy**, *Professor of General and Plastic Surgery Faculty of Medicine, Cairo University* for his valuable encouragement, expert assistance & objective criticism.

My deepest thanks to **Dr. Amr Ibrahim Fouad Mahmoud**, *Lecturer of Plastic & General Surgery, Cairo University* for his generous help, constant encouragement & continuous support without which this work could not have been completed.

Special thanks to all those who have contributed a lot of generous effort to make this work possible namely the residents of the department, the workers and nursing staff of department 25A in Kasr El-Aini, Cairo University Teaching Hospitals.

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## *Abstract*

In this study, twenty-five cases with different patterns of fractures of the zygomatic complex and arch were managed using the different modalities of treatment. Most of the fractures were caused by motor vehicle accidents and personal violence.

Fractures were classified according to CT scan findings. The plan of management was aiming for adequate exposure to facilitate adequate reduction and stability.

Assessment of the outcome was done by interpretation of the following: Restoration of facial dimensions and symmetry, stability of fixation, postoperative and follow up imaging (3D facial CT scan), ophthalmic examination including enophthalmos and diplopia, restoration of full mouth opening, presence of complications, visibility of the scars, and patients' satisfaction.

No complications were observed in 16 cases while infraorbital nerve dysfunction was observed in 6 cases, slight enophthalmos in 3 cases, and mild ectropion in 2 cases.

### **Key words**

- Zygoma
- Zygomatic-arch
- Zygomatico-orbital
- Fractures
- Facial
- Reduction
- Fixation
- Management

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