Assessment of Quality of Life in a retrospective study of Total Oral Rehabilitation of the Upper Jaw with TransZygomatic Fixation

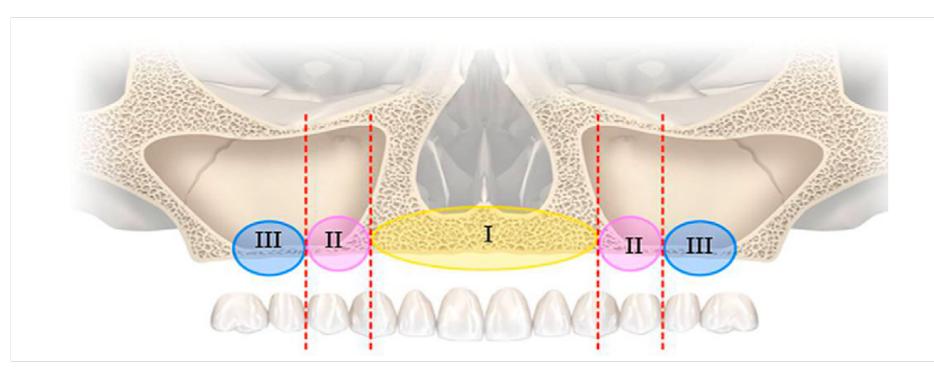
Pinheiro L, Duarte F, Severino E, Leeson R, Hopper C

Department of Oral and Maxillofacial Surgery, UCL Eastman Dental Institute, 256 Gray's Inn Road, London WC1X 8LD • www.ucl.ac.uk/eastman



Introduction

Patient Selection for Zygomatic Implants



Zones of the maxilla; presence or absence of the zones dictates the surgical concept (Bedrossian, 2011).

Presence of bone	Surgical approach
Zones I, II and III	Traditional (axial) implants
Zones I and II	Four traditional implants (tilted)
Zone I only	Zygomatic implants plus two or four traditional implants
Insufficient bone	Four zygomatic implants

Treatment recommendations based on the presence of bone in the different zones of the maxilla (Bedrossian, 2011).

Advantages of Zygomatic Implant Surgery

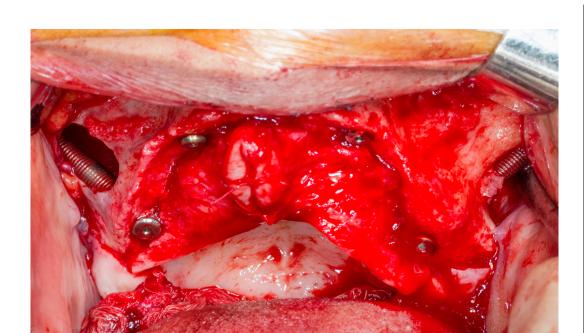
- Short treatment time
- Decreased morbidity (no graft donor site)
- Fewer implants necessary to support prostheses
- Decrease patient costs
- Overcome osseous deficiency by engaging zygomatic bone

(Chrcanovic BR, 2016).

Placement of zygomatic implants as alternative to bone grafting (Brånemark PI, 2004).



Patient 1 - Post-operatory O.P.G.



Patient 5 – Intra-operatory



Patient 3 – 3D - Reconstruction

Aims and Objectives

Developing a specific Questionnaire to measure patient's Quality of Life and the impact of treatment on their QoL.

Primary objective

The quality of life assessment in patients submitted to transzygomatic surgery at 3 different Time Points (TP):

TP1 – Before transzygomatic surgery

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TP2 – After transzygomatic surgery

TP3 – After final oral rehabilitation

Secondary objective

The quality of life assessment between TP2 and TP3 in two different **Group**s of patients:

G1 – TFSwILI – Temporary Fixed Structures with Immediate Loading Implants

G2 – Others – other types of temporary structures, not immediate loaded.

Materials and Methods

University College of London
Eastman Dental Institute
Oral & Maxillofacial Surgery
Department

University of Lisbon

Faculty of Sciences

Statistical Department

Retrospective Study
N=30 Portuguese patients
Between 2002-2017
69 Zygomatic Implants
90 Conventional Implants
G.A. Surgeries
Zygomatic Implants
Questionnaire Design
Assessment of QoL

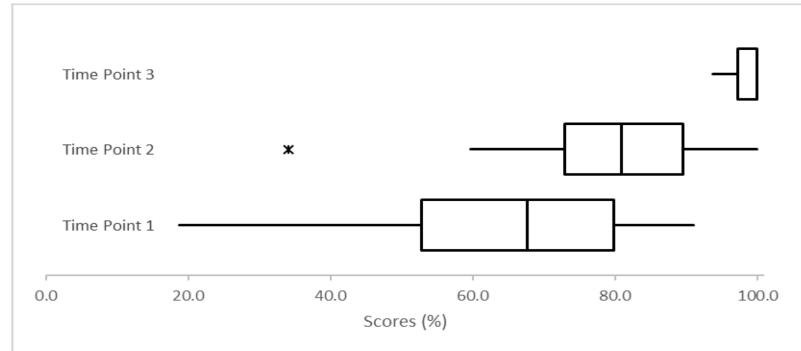
C.E.R.O. Clinic Lisbon Dr. Luis Pinheiro

Clitrofa Clinic Oporto Dr. Fernando Duarte

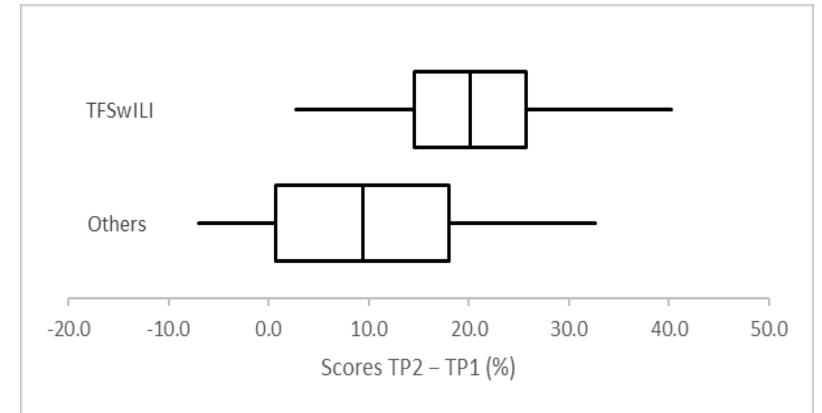
The chosen reference for this Project was the "Quality of Life Questionnaire of the University of Washington". and a new questionnaire was design. The objective of oral rehabilitation is to restore function and thus promote patient well-being (Rogers S N, 1999). There is Paucity of studies on Health-Related Quality of Life (HRQOL) in oral rehabilitation patients (Pace-Balzan A, 2004).

Results

Quality of Life Scores in the 3 different Time Points



Time Points 1 & 2 for 2 Comparison of difference of scores in groups according to the type of temporary rehabilitation



Temporary Fixed Structure with immediately loaded Implants vs Others

Discussion

- A questionnaire was validated with good internal consistency.
- Quality of Life is increasing from TP1 to TP3.
- TFSwILI give more QoL to the patients since TP2.
- Multi centre would achieve a larger sample.

Conclusion

Assessment of quality of life must be carried out to evaluate outcomes

- Do the treatment outcomes match patient expectations?
- What is the treatment impact on daily life?
- How does it affect the patients' relation with their families and friends?
- How does the treatment affect the patient physically and psychologically?
 Patients will be the most beneficiaries of these improvements

References

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