

**Graftless Closed Sinus Tenting Using Dental Implants
After Densah Burs Osteotomy Versus Conventional
Osteotomy in Localized Sinus Pneumatization: a
Randomized Clinical Trial**

Thesis Protocol Submitted for Partial Fulfillment of the Requirements for
Master's Degree In Oral & Maxillofacial Surgery
Faculty of Oral & Dental Medicine - Cairo University

By
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Medical Biostatistics Unit review report for sample size calculation

Researcher's Full name: Basma Mohammed Shaheen

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Main Supervisor details (if applicable)

Full name: Prof. Dr. Sameh Mekhemer

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Research title: Graftless Closed Sinus Tenting Using Dental Implants After Densah Bur Osteotomy Versus Conventional Osteotome in Localized Sinus Pneumatization. A Randomized Clinical Trial.

Research question: Will the use of densah bur lead to better bone gain around implant than conventional dosed sinus lift in isolated pneumatized sinus?

Items used in the calculated sample size

- The outcome used (State 1ry or 2ry):bone gain
- Values used for outcome (e.g. mean difference, percentage, proportion..... etc)
- Entry 1: (mean difference between 2 groups, mean and standard deviation of group 1, proportion 1 or estimated prevalence) = 9.93 ± 0.57 .
 - Entry 2: (standard deviation of control group, mean and standard deviation of group 2, proportion 2 or clinically important difference)= 10.71 ± 0.43 .
- Alpha level of significance:0.05
- Effect size used in calculation:1.544
- Power of the study:80%
- Statistical test used:Independent-t-test
- The calculated sample size: 8 per group, total=16 patients
- Increased number for anticipated missing data: 15% to compensate for drop outs, 10 per group, total=20 patients.

Decision of MBU:

- Accepted*
 - Needs modifications
- What to be modified:
- A meeting is needed

Date of meeting: / /


Time of meeting:

Place of meeting:

N.B. If you couldn't attend the meeting, show up to apologize or contact your reviewer by e-mail to set up another convenient time.

MBU member Ass Prof Nouran AbdelNabi

MBU Director Prof Dr Noha Ghallab



* Date of submission: 13 / 9 / 2021

Date of approval: 22 / 9 / 2021

Vice Dean for Postgraduate affairs and research