

**Salivary and serum leptin levels in oral lichen planus patients : A
Case-Control Study.**

مستوى اللبتين في لعاب ومصل الدم في مرضى الحزاز المسطح الفموي
دراسة الحالات والشواهد.

By
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(2023)

10/7/2023

Medical Biostatistics Unit review report for sample size calculation

Individual details

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Your status *

-- Please select --

Master postgraduate student ✓

PhD postgraduate student

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Other (Please specify below)

Department *

Department of Oral Medicine, Diagnosis and Periodontology

Main Supervisor details (if applicable)

Title: Professor

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Research information

Research title:

Salivary and serum leptin levels in oral lichen planus patients: A Case-Control Study.

Research question:

Do levels of salivary and serum leptin differ between oral lichen planus patients and healthy control subjects?

Complete items used in sample size calculated *

- The outcome used (State 1ry or 2ry): **Primary outcome: serum leptin level**
- Values used for outcome (e.g. mean difference, percentage, proportion..... etc): **mean and standard deviation**
- Entry 1 Control group:
 - Mean of the control group = 10.76**
 - SD of control group = 5.93**

Entry 2 oral lichen planus group:
Mean of the test group = 7.39
SD of test group = 2.61

- Alpha level of significance: 0.05 significance level
- Effect size used in calculation: 0.736
 - Power of the study: 80%
 - Statistical test used: Independent sample t-test.
 - The calculated sample size: 31 subjects per group (total 62 subjects)
 - Increased number for anticipated missing data: Sample size will be increased to 39 cases per group to compensate for a drop-out rate of 25% (total 78 subjects)
 - Sample size calculation was performed using G Power.

Upload*

- Applicant's protocol written based on Faculty templates.
- Article used by applicant for sample size calculation.

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: Associate Professor Dr. Weam Elbattawy

MBU Director: Professor Dr. Noha Ghallab

* Date of submission: 17 / 6 / 2023

Date of approval: 10 / 7 / 2023
Vice Dean for Postgraduate affairs and research

