

# **ALMUSTAQBAL UNIVERSITY**

**College of Health and Medical Techniques  
Medical Laboratories Techniques Department**

**Stage : Fourth year students**

**Subject : Laboratory Management - Lecture 8**

**Lecturers:**

**Professor Dr Mahdi A. Abed**

**Assistant professor Dr. SADIQ . J. BAQIR**



## **Graduation Research Project Guideline**

### **General considerations:**

- 1- The cover page must include the College logo, title, name of the students and name of the supervisor and academic year. It must be written in Times New Roman,  
For the rest of the research:  
titles font size 20 Times New Roman,  
subtitle- Times New Roman font size 16.  
Content Times New Roman font size 12 with line spacing 1.5.  
page number should be included as well.
- 2- White paper A4 is used, and printing should be on one side of the paper.
- 3- Margins of the pages (left side is 3 cm and the rest is 2 cm).



**Ministry of Higher Education  
And Scientific Research  
AL- Mustaqbal University  
College of health and medical  
Techniques  
Department of Medical  
laboratories Techniques**



## **Study the correlation between chronic kidney Failure and thyroid gland disorder in Iraqi Population**

**A Research Project  
Submitted to the Department of  
Medical Laboratories Techniques,  
College of Health and Medical Techniques  
Al- Mustaqbal University**

**in Partial Fulfillment of  
the Requirements for the Degree of Bachelor In  
Medical Laboratories Techniques  
BY**

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**Supervised By  
M.Sc. Hadeel LuaKareem  
2024 A.D**

**1445 A.H**

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
(وَقُلْ اَعْمَلُوا فَسَيَرَى اللَّهُ عَمَلَكُمْ وَرَسُولُهُ  
وَالْمُؤْمِنُونَ)

صَدَقَ اللَّهُ الْعَلِيِّ الْعَظِيمِ

### *Certification of Supervisor*

*I certify that this Project Research was prepared under my supervision at the Al-Mustaqbal University, Department of Medical Laboratories Techniques as a requirement for the degree of Bachelor of Medical Laboratories Techniques*

*Signature:*

*Supervisor: اسم المشرف على البحث*

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*In view of the available recommendations, I forward this research for debate by the examining committee.*

*Signature:*

*Assistant Prof. Dr. Ahmed .A. Alkhafagi*

*Chairman of Department of Medical Laboratories Techniques*

*Al - Mustaqbal University*

*Certification of the Examination Committee*

We, the examining committee, certify that we have read this research and have examined the students in its context and in our opinion, it is adequate as research for the degree of Bachelor of Medical Laboratories Techniques.

Member

Member

**Chairman**

# Dedication

*To those who are not matched by anyone in the universe, to whom God has commanded us to honor them, to those who have made a great deal, and have given what cannot be returned, to your these words, our dear mothers and fathers, we dedicate this research to your; You have been my best supporter*

*throughout my academic*

## *Acknowledgements*

*Praise be to Almighty God, pray and peace be upon his Prophet Mohammed and upon his Household, for helping me in completing this work.*

*It is a pleasure to express deep appreciation to our advisor in the Department of Medical Laboratory Techniques ----- for his guidance, encouragement, and invaluable advice, and for supplying us with new articles and extensive help throughout the whole study period.*

We offer our deepest thanks to **Prof. Dr. Hassan Shakir Majdi**, the University's president for his help in all four years and he never saved an effort to help us and other students.

**Also to Assist. Prof. Dr. Zahraa Haleem Alkayim**, the Dean of the Faculty of Medical and Health Sciences Techniques at Al-Mustaqbal University who has gone above and beyond to assist us and others, We are grateful to her.

We would like to thank Assistant **Prof Dr. Ahmed . A AlKhafagi**, the head of the Department of Medical Laboratories Techniques at Al- MustaqbalUniversity, for his help; he never saved an effort to help us and others.

*We offer our thanks to all staff members of Medical laboratories Techniques department - Al-Mustaqbal University College of Health and Medical Techniques for their cooperation*

## **Abstract**

The abstract must include the following parts:

1. Background and aims
2. Methods
3. Results
4. Conclusions and recommendations

Example:

Renal transplantation complications are one of the most common problems that face patients with renal transplants. Studies have shown that complications of renal transplant often happen as a result of graft dysfunction, anti-rejection medication and complications due to the procedure. Therefore, in this study, we aimed to identify common complications of renal transplantation. A total of 30 Patients (postoperative) suffering from complications were included in this cross-sectional study. The study was conducted from November 20, 2023, to April 22, 2024. The result showed, that out of the 30 patients, nearly half 43.3% were aged between 16-27. The greatest percentage 70 % of cases were male and more than half of them 53 % were married. Regarding the duration of the transplantation, 86.7% of the study participants were between 1-4 years. Excessive hair growth and acne were the most common complications of renal transplantation among study participants with a percentage of 76.7% and 53.3% respectively. In conclusion, patients with renal transplantation in Hilla City face various complications after transplantation and most of the complications are related to anti-rejection medications.

Note: abstract should be approximately 250-300 words

## **List of content**

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خلاصه بالعربي

Cover page in Arabic language

## Chapters of Research

1-Chapter one: **Introduction**,  
importance of the study, and specific Objectives.

Note: not more than two pages (350-400words)

2-Chapter two: **Literature review**

Note: not more than four pages (1000-1500 words)

3-Chapter three: **Methods**

( write down what you have written in the proposal but in past tense(

Example: study will be conducted ———> study was conducted

**Methods:**

Write about :

1. Patients and Methods if the sample of the study is patients,
  2. Subjects and Methods if the sample of the study is not patients (healthy person)
  3. Materials and Methods if the sample of the study is materials not human.
- A- Design of the study: The research design refers to the overall strategy that you choose to integrate the different components of the study logically, thereby, ensuring you will effectively address the research problem; Note that your research problem determines the type of design you should use. example of research design include (descriptive, case-control, case study, cohort, cross-sectional, experimental.... etc).

B- Formal arrangement: Is a formal paper taken from the College / to the place or setting where the data of the study is to be collected.

C- Sampling and sample size:

In research terms, a sample is a group of people, objects, or items that are taken from a larger population for measurement. The sample should be representative of the population to ensure that we can generalize the findings from the research sample to the population as a whole. This should include population, inclusion, and exclusion criteria, estimation of sample size. Types of sample (specified or random sample).

D- Setting of the study:

Is the place where the researcher conducts the study or the data is collected. It might be a hospital, health care centre, university or public place like a cafeteria, sports centre or shopping centre.

E- Duration of the study: It starts from the start till the completion of the study. The duration of the data collection can also be written but it is optional.

F- Method and tool of data collection:

What type of instruments was used to collect the data.

For example, if the data is going to be collected through a questionnaire format, the questionnaire will be filled by the study participants (self-report method) or by the researcher through a checklist tool (direct observation method), or by directing the questions to the participants (interview). The source of the questionnaire should also be declared whether it is developed by the researcher or it is standardised that has been used before.

G- Ethical considerations: The submitted project must receive formal approval from the undergraduate research committee and for collecting the data an informed consent must be signed by the study participant.

H- Statistical analysis:

What type of software program has been used to analyse the data example (SPSS) and which descriptive statistical analysis parameters have been used (frequency, percentage, mean, standard deviation, or odds ratio).

#### 4-Chapter four: Results

Example:

Table 1 demonstrates that out of the 30 patients, nearly half 43.3 % were aged between 16-27. The greatest percentage 70 % of cases were male and more of than half of them 53 % were married.

Table 1 : Socio Demographical Characteristics Of Study Participants.

<u>Socio demographical characters</u>	<u>Frequency(n=30)</u>	<u>Percentage (%)</u>
Age group 16-26	13	43.3
27-37	8	26.7
38-48	6	20.0
49-60	3	10.0
Sex Male	21	70.0
Female	9	30.0

#### 5-Chapter five: Discussion

The purpose of the discussion is to interpret and describe the significance of your findings in light of what was already known about the research problem being investigated.

In this chapter:

- 1- Compare or support the significance of your results with those from other studies about the same problem that you have studied in your research: Are they consistent? If not, discuss possible reasons for the difference.
- 2- It should be not more than two pages (500- 600 words)

#### 6-Chapter six: Conclusion and Recommendations

Note: not more than one page (200 -300 words)

#### 7-References:

Not more than two pages, number of references (15-20 references) Year of published reference must be 2000 and above.

**8-Appendix:** Include questionnaire and formal arrangement.

**9- Abstract:** In Arabic language

10-Cover page in Arabic language



وزارة التعليم العالي والبحث العلمي  
جامعة المستقبل الاهلية  
كلية التقنيات الصحية والطبية  
قسم تقنيات المختبرات الطبية



## دراسة العلاقة بين اضطراب الغدة الدرقية والفشل الكلوي المزمن

بحث مقدم

الى قسم تقنيات المختبرات الطبية - جامعة المستقبل الاهلية

كجزء من متطلبات الحصول على درجة البكالوريوس في تقنيات المختبرات الطبية

من قبل الطلبة

حسنين ليث شعران  
محمد المنتظر هادي رشاد  
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ايات طالب عباس  
نور احمد قاسم

المشرف

م.م. هديل لؤي كريم

1445 هـ

2024 م