

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكترونى والميكروفيلم

جامعة عين شمس التوثيق الإلكتروني والميكروفيلم قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY



Effect of genetic polymorphism on clinical efficacy of Tacrolimus in adult living donor-liver transplant patients

Thesis

Submitted for Partial Fulfillment of Master Degree in Tropical Medicine

By

Abobakr Kamal Eldin Ali

M.B.B.CH

Faculty of Medicine - Ain Shams University

Under Supervision of

Prof. Amal Tohamy Abd El-Moez

Professor of Tropical Medicine Faculty of Medicine - Ain Shams University

Dr. Safaa Ragab Tawfic Askar

Lecturer of Tropical Medicine Faculty of Medicine - Ain Shams University

Dr. Azza El-Sayed Mansy

Lecturer of Clinical Pharmacy Faculty of Pharmacy, Menoufiya University

> Faculty of Medicine Ain Shams University 2021



سورة البقرة الآية: ٣٢

Acknowledgment

First and foremost, I feel always indebted to AUAH, the Most Kind and Most Merciful.

I'd like to express my respectful thanks and profound gratitude to **Prof. Dr. Amal Tohamy**Abd El-Moez, Professor of Tropical Medicine,
Faculty of Medicine-Ain Shams University, for her keen guidance, kind supervision, valuable advice and continuous encouragement, which made possible the completion of this work.

I am also delighted to express my deepest gratitude and thanks to **Dr. Safaa Ragab Tawfie**Askar, Lecturer of Tropical Medicine, Faculty of Medicine - Ain Shams University, for her kind care, continuous supervision, valuable instructions, constant help and great assistance throughout this work.

I am deeply thankful to **Dr. Azza El-Sayed**Mansy, Lecturer of Clinical Pharmacy, Faculty of
Pharmacy, Menoufiya University, for her great help,
active participation and guidance.

I would like to express my hearty thanks to all my family for their support till this work was completed.

Last but not least my sincere thanks and appreciation to all patients participated in this study.

Abobakr Kamal Eldin Ali

Tist of Contents

Title	Page No.
List of Tables	i
List of Figures	ii
Introduction	1
Aim of the Work	4
Review of Literature:	
Liver Transplantation	5
Pharmacogenomics	49
Patients and Methods	
Results	67
Discussion	73
Summary	76
Conclusion	
Recommendations	80
References	
Arabic Summary	

Tist of Tables

Table N	lo. Title	Page No.
Table 1:	Indications of liver transplantation	10
Table 2:	Exceptions to MELD score	17
Table 3:	Contraindications to liver transplantation	n20
Table 4:	Candidate single-nucleotide polymory related to the pharmacodynamics pathw calcineurin inhibitors with quality of ev of existing data and level of recommend	vays of idence
Table 5:	Summary of tacrolimus genotype de randomized controlled trials	
Table 6:	Demographic, baseline clinical character and genotype characteristics of the standard transfer and transfer a	studied
Table 7:	Correlation between different genotype CYP3A5, and clinical parameters of effications safety of tacrolimus using Fischer exact teather than the control of t	acy and
Table 8:	Comparison between genotypes reg biochemical markers of response and sar	, e

Tist of Figures

Fig. No.	Title	Page No.
_	Indications of LDLT in Egypt. LDLT, donor liver transplantation	_
(Genetic modification of the P-glycopalso plays an important role in the CNIs. Modifications of the ABCB1 geassociated with reduced or improved	PK of ne are renal
-	function	61
Figure 3:	Frequency distribution of CYP3A5 gen	otypes
j	in the studied cohort	70