



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية

@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل



Immunotherapy: Basic Concepts and Applications

CAYCUP

Essay
Submitted for the partial fulfillment of
M.Sc. Degree
In

CLINICAL & CHEMICAL PATHOLOGY

By

Marwa Mohammed Mokhtar Ameen
M.B.B.Ch.

Under the supervision of

Prof. Dr. Hala Fathy Sheba
Professor of Clinical & Chemical Pathology
Faculty of Medicine
Cairo University

Dr. Maha Saleh Madbolly
Consultant of Clinical Pathology
National Cancer Institute
Cairo University

Cairo University
2011

بسم الله الرحمن الرحيم

(قالوا سبحانك لا علم لنا إلا ما علمتنا

إنك انت العليم الحكيم)

صدق الله العظيم

Dedication

I dedicate this work to my family, my husband, and my daughters, whom without their sincere emotional support, this work would have never been completed.

Acknowledgment

In these few lines, I would like to thank **ALLAH** the almighty, for granting me:

Teachers

First I would like to express my deepest gratitude and appreciation to Professor Dr. Hala Fathy Sheba, Professor of clinical & chemical pathology, Faculty of medicine, Cairo university, for her sincere help, guidance and keen supervision.

I would like to express my deep gratefulness to Dr. Maha Saleh Madbolly, Consultant of clinical & chemical pathology, National cancer institute, Cairo university, for his endless efforts, continuous support, and meticulous supervision, guidance throughout the whole work and for his indispensable help. I am really grateful.

I would also like to thank all my professors, colleagues & staff of clinical pathology, National cancer institute, Cairo university for their assistance and kind care.

Abstract

Immunotherapy refers to treatment strategies based upon modulating the immune system either by activation or suppression to achieve a prophylactic or therapeutic goal. Strategies that enhance the immune response include active and passive ones. The active includes vaccination and adjuvants, adoptive T cell therapy, mAb therapy, NK cell therapy as well as cytokine therapy. While passive immunotherapy includes antibody replacement therapy.

Strategies that diminish the immune response, on the other hand, include anti-inflammatory agents (steroids and NSAIDs) as well as immunosuppressive measures for RA, bronchial asthma and graft rejection.

Strategies that alter the immune response include pre-emptive measures as Rh Ig therapy and antibiotic therapy, as well as modification of ongoing diseases by cytokines and allergy desensitization.

Finally, immunotherapy also includes targeted therapy that targets one type of cell or antigen without injuring other cells. This review highlights the different modalities of immunotherapy with special concern on cancer.

- **Keywords:** Immunotherapy, Activation, Suppression, Cancer vaccines, Targeted therapy.

