BARRIER FUNCTION OF THE SKIN

Essay

Submitted in partial fulfillment of M.S. degree in dermatology and Venereology

By

Nancy Abdel Aziz Mahmoud
(M. B. B. ch)

SUPERVISORS

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بسم الله الرحمن الرحيم

قالوا سبحانك لا علم لنا إلا
ما علمتنا إنك أنت العليم
الحكيم

سورة البقرة – الآية ٣٢

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Dedication

To my Father and Mother

To my father *Dr. Abdel aziz Mahmoud* who dedicated his life to his family and gave me his wisdom, experience and guidance .which led me all through and made me such an ambitious person. I'm deeply indebted to him.

To my mother *Dr. Ragaa Sad Mohammed* who saved no effort to support me. She has always been the symbol of kindness and devotion beyond words can describe.

To my Husband

To my husband *Dr. Hatem Mohammed Abdalla* to whom I owe so much. He offered me all the help and encouragement one can give. His concern and understanding were behind this work.

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Nancy Abdel Aziz Mahmoud

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List of abrreviations

D: Desmosome.

EL: Epidermal lipids.

ICS: Intercellular space.

SC: Stratum corneum.

SG: Stratum granulosum.

TEWL: Transepidermal water loss.

TGase.: Transglutaminase.

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