

# **THE EFFECT OF HAEMODIALYSIS MEMBRANES ON SOME OF THE LEUCOCYTIC FUNCTION**

## **THESIS**

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*By*

**Yasser Ahmed Negm**

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*Supervised By*

**Prof. Dr. Farida Ahmed Farid**

Professor of Paediatrics & Paediatric Nephrology  
The Head of the Paediatric Dialysis Unit  
Ain Shams University

**Asst. Prof. Mohammed Salah El-Deen Faheem**

Assistant Professor of Paediatrics & Paediatric Nephrology  
Ain Shams University

**Dr. Hanaa Mohammed El-Sayed Afifi**

Lecturer of Clinical Pathology  
Ain Shams University

**AIN SHAMS UNIVERSITY**

**Faculty of Medicine**

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*To my small, magnificent world ....*  
*By whom, and for whom .. I survive ....*  
*My great father, Prof. Dr. Ahmed Negm*  
*My great mother, Leila Negm*  
*My compassionate wife .... Ghada*  
*My beloved sisters.... Dalia & Dina*  
*My little angel .... Palma*



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## **LIST OF ABBREVIATIONS**

|               |                                                        |
|---------------|--------------------------------------------------------|
| <b>AB</b>     | <b>Antibody</b>                                        |
| <b>ACTH</b>   | <b>Adrenocorticotrophic hormone</b>                    |
| <b>Ag</b>     | <b>Antigen</b>                                         |
| <b>APC</b>    | <b>Antigen presenting cell(s)</b>                      |
| <b>CD</b>     | <b>Cell determinant</b>                                |
| <b>CRF</b>    | <b>Chronic renal failure</b>                           |
| <b>ESRD</b>   | <b>End-stage renal disease</b>                         |
| <b>GIP</b>    | <b>Granulocyte inhibitory peptide</b>                  |
| <b>GM-CSF</b> | <b>Granulocyte monocyte colony stimulating factor.</b> |
| <b>HD</b>     | <b>Haemodialysis</b>                                   |
| <b>HLA</b>    | <b>Human leucocytic antigen</b>                        |
| <b>HMPS</b>   | <b>Hexose monophosphate shunt</b>                      |
| <b>5-HT</b>   | <b>5-Hydroxy Tryptamine (serotonin)</b>                |
| <b>IFN</b>    | <b>Interferon(s)</b>                                   |
| <b>Ig</b>     | <b>Immunoglobulin(s)</b>                               |
| <b>IL</b>     | <b>Interleukin(s)</b>                                  |
| <b>IL1Ra</b>  | <b>Interleukin-1 receptor antagonist</b>               |
| <b>LIF</b>    | <b>Leukaemia inhibitory factor</b>                     |
| <b>MCP-1</b>  | <b>Monocyte chemotactic peptide-1</b>                  |
| <b>MHC</b>    | <b>Major histocompatibility complex</b>                |
| <b>NK</b>     | <b>Natural killer</b>                                  |
| <b>PAF</b>    | <b>Platelet activating factor</b>                      |

|        |                                         |
|--------|-----------------------------------------|
| PBMC   | Peripheral blood mononuclear cells      |
| PDE    | Peritoneal dialysis effluent            |
| PDF    | Peritoneal dialysis fluid(s)            |
| PG     | Prostaglandin(s)                        |
| PMNL   | Polymorphonuclear leucocytes            |
| PTH    | Parathyroid hormone                     |
| RES    | Reticuloendothelial system              |
| TGF    | Transforming growth factor              |
| TNF    | Tumour necrosis factor                  |
| TNF-SR | Tumour necrosis factor surface receptor |
| WBC    | White blood cell(s)                     |

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