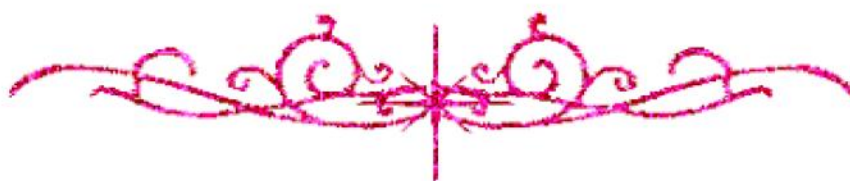


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شبكة المعلومات الجامعية

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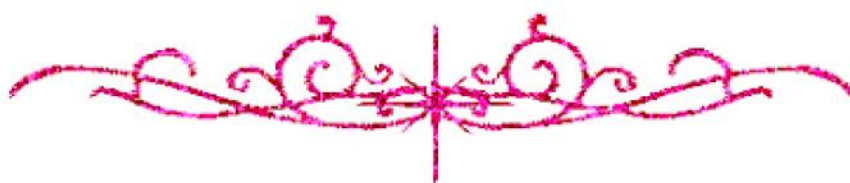
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# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





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# 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



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# بعض الوثائق الأصلية تالفة





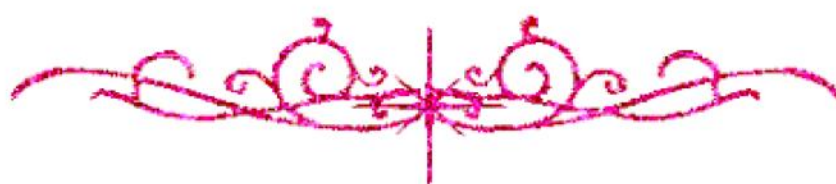
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**بالرسالة صفحات  
لم ترد بالأصل**



B17743

# Serum transferrin receptors in newborns, healthy children, and children with iron deficiency anemia

Thesis submitted in the partial Fulfillment of the  
Requirements for Degree of Master in Pediatric

By

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**FACULTY OF MEDICINE  
MINIA UNIVERSITY**

**2003**

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

(وما يكفر من نعمة فمن الله ثم إذا مسكم الضر

فإليه تجثرون)

سورة النحل آية ٣٥

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## LIST OF ABBREVIATIONS

|                |   |  |
|----------------|---|--|
| ACD            | : | Anemia of chronic diseases.                |
| CLL            | : | Chronic lymphocytic leukemia.              |
| DCT_1          | : | Divalent Cation Transporter_1.             |
| 2,3DPG         | : | 2,3 diphosphoglycerate.                    |
| ELISA          | : | Enzyme linked immunosorbent assay.         |
| EP             | : | Erythrocyte Protoporphyrin.                |
| EPO            | : | Erythropoietin.                            |
| Fig.           | : | Figure.                                    |
| Fl             | : | Femto-liter.                               |
| FRP            | : | Ferritin repressor protein.                |
| HB conc.       | : | Hemoglobin concentration.                  |
| HIV.           | : | Human immunodeficiency virus.              |
| ID             | : | Iron deficiency.                           |
| IDA            | : | Iron deficiency anemia.                    |
| IDE            | : | Iron-deficient erythropoiesis.             |
| IFN - $\alpha$ | : | Interferon- $\alpha$ .                     |
| IL-2           | : | Interleuken-2.                             |
| IRE            | : | Iron responsive elements.                  |
| IRE-BPs        | : | Iron-regulatory element binding proteins.  |
| IRF            | : | Iron regulatory factor.                    |
| IRMA           | : | Immunoradiometric assay.                   |
| IRP            | : | Iron regulatory proteins.                  |
| Kb             | : | Kilobase.                                  |
| M.C.H.C. (%)   | : | Mean corpuscular hemoglobin concentration. |
| M.C.V          | : | Mean corpuscular volume.                   |
| Mabs           | : | Monoclonal antibodies.                     |
| m-RNA          | : | Messenger-Ribonucleic acid.                |



|             |   |                                    |
|-------------|---|------------------------------------|
| NK          | : | Natural killer cells.              |
| NO          | : | Nitric oxide.                      |
| P.C.V       | : | Packed cell volume.                |
| Plat.count  | : | Platelet counts.                   |
| PSM         | : | Prostate-specific membrane.        |
| Ratio       | : | STfRs / S.F.                       |
| R.B.C.      | : | Red blood cell counts.             |
| RDW         | : | Red-cell distribution width .      |
| Retic.      | : | Reticulocytic count.               |
| RHuEPO      | : | Recombinant human erythropoietin.  |
| RIA         | : | Radioimmunoassay.                  |
| S.F         | : | Serum ferritin.                    |
| S.I         | : | Serum iron.                        |
| SD          | : | Standard deviation.                |
| Sig.        | : | Significant.                       |
| STfRs       | : | Serum transferrin receptors.       |
| STfRs index | : | STfRs / log ferritin.              |
| TfR         | : | Transferrin receptor.              |
| TfR2        | : | Second transferrin receptor.       |
| TfR-F Index | : | STfR/log ferritin index.           |
| TIBC        | : | Total iron binding capacity.       |
| TMB         | : | Tetramethylbenzidine .             |
| TS          | : | Transferrin saturation.            |
| UIBC        | : | Unsaturated iron binding capacity. |
| UTRs        | : | Untranslated regions.              |

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# **INTRODUCTION & AIM OF THE WORK**