

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

رَبِّ أَوْزَعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي

أَنْعَمْتَ عَلَيَّ وَعَلَىٰ وَالِدَيَّ وَأَنْ أَعْمَلَ

صَالِحًا تَرْضَاهُ وَأَدْخِلْنِي بِرَحْمَتِكَ فِي

عِبَادِكَ الصَّالِحِينَ

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Relation of Serum Insulin Like Growth Factor- 1 With Cognitive Performance in Type 1 Diabetic Children

**Thesis Submitted for fulfillment of Ph.D in childhood studies
(Child Health and Nutrition)
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لدى الأطفال المصابين بداء السكري النوع الأول

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(صحة وتغذية الطفل)

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Contents

| | pages |
|---|--------------|
| Introduction | 1 |
| Aim of the Work..... | 4 |
| Review of Literature..... | 5 |
| Type 1 Diabetes mellitus | 5 |
| Cognition and type 1 diabetes mellitus..... | 34 |
| Insulin like Growth Factor 1..... | 55 |
| Subjects and Methods..... | 72 |
| Results..... | 90 |
| Discussion | 127 |
| Summary and Conclusion..... | 139 |
| Recommendations... .. | 146 |
| References..... | 147 |
| Arabic Summary..... | - |

List of Abbreviations

| | |
|---------|--|
| CKD | Chronic kidney disease |
| CRI | Chronic renal insufficiency |
| CSII | Continuous subcutaneous insulin infusion |
| DKA | Diabetic ketoacidosis |
| ESRD | End Stage Renal Disease |
| GFR | Glomerular filtration rate |
| GH | Growth Hormone |
| HAZ | Height for age Z score |
| HbA1c | Glycosylated haemoglobin |
| IGF-1 | Insulin-like growth factor 1 |
| IGFBP-3 | Insulin-like growth factor Binding protein-3 |
| IQ | Intelligent Quotient |
| MHC | Major complex of histocompatibility |
| NPSLE | Neuropsychiatric systemic lupus erythematosus |
| RDA | Recommended daily allowance |
| SCD | Sickle cell disease |
| T1DM | Type 1 diabetes mellitus |
| WAZ | Weight for age Z score |
| WHO | World Health Organization |
| WISC-R | The Arabic version of the Revised Wechsler Intelligence Scale for Children |
| ZBMI | Z score of body mass index |

List of Figures

| Fig.No. | Title | Pages |
|----------------|---|--------------|
| 1 | Incidence and prevalence of type 1 diabetes mellitus in children around the world. | 6 |
| 2 | Model of the pathogenesis and natural history of type 1 diabetes. | 8 |
| 3 | Possible mechanisms for virus induced diabetes. | 10 |
| 4 | The principles of Multiple daily injection (MDI) regimen of insulin. | 29 |
| 5 | Insulin pump. | 31 |
| 6 | Socioeconomic status and cognition in children. | 40 |
| 7 | Possible mechanistic contributors to cognitive dysfunction seen in diabetes mellitus. | 48 |
| 8 | Resemblance between insulin and insulin like growth factor I (IGF-I) receptors. | 57 |
| 9 | A Schematic illustration of the GH/ IGF-I axis. | 62 |
| 10 | Sex distribution in patients and controls. | 90 |
| 11 | Comparison between the two studied groups regarding weight. | 92 |
| 12 | Comparison between the two studied groups regarding WAZ. | 92 |
| 13 | Comparison between the two studied groups regarding BMI. | 93 |
| 14 | Comparison between the two studied groups regarding ZBMI. | 93 |

| Fig.No. | Title | Pages |
|----------------|--|--------------|
| 15 | Comparison between the two studied groups regarding GH. | 95 |
| 16 | Comparison between the two studied groups regarding IGF-1. | 95 |
| 17 | Comparison between the two studied groups regarding IQ subtests. | 98 |
| 18 | Comparison between the two studied groups regarding IQ. | 98 |
| 19 | Comparison between the two studied groups regarding auditory vigilance test scores. | 100 |
| 20 | Comparison between the two studied groups regarding figural memory test scores. | 102 |
| 21 | Comparison between the two studied groups regarding Internalizing score. | 104 |
| 22 | Comparison between the two studied groups regarding zinc intake. | 106 |
| 23 | Comparison between group I and group II regarding disease duration and number of hypoglycemic attacks. | 109 |
| 24 | Correlation between attention and number of DKA attacks among patients. | 124 |
| 25 | Correlation between total score and number of DKA attacks among patients. | 124 |
| 26 | Correlation between total score and number of DKA attacks among patients. | 125 |

List of tables

| Tab.No. | Title | pages |
|----------------|--|--------------|
| 1 | Criteria for the diagnosis of diabetes. | 13 |
| 2 | Complications of type 1 diabetes. | 17 |
| 3 | Types of insulin preparations and suggested action profiles. | 30 |
| 4 | Classification of Intelligence by IQ Range. | 53 |
| 5 | Factors affecting IGF-1 levels. | 63 |
| 6 | Age and sex of patients and Controls. | 90 |
| 7 | Anthropometric parameters of Patients and controls. | 91 |
| 8 | Comparison between patients and controls as regards GH, IGF1 and IGFBP3. | 94 |
| 9 | Comparison between patients and controls concerning their IQ. | 96 |
| 10 | Comparison between patients and controls concerning their auditory vigilance test scores. | 99 |
| 11 | Comparison between patients and controls concerning their Figural memory test scores. | 101 |
| 12 | Comparison between patients and controls concerning their Pediatric Symptom Checklist scores. | 103 |
| 13 | Comparison between patients and controls as regards caloric intake. | 104 |
| 14 | Comparison between patients and controls as regards zinc intake. | 105 |
| 15 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) as regards age. | 106 |
| 16 | Anthropometric parameters of type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II). | 107 |

| Tab.No. | Title | pages |
|----------------|---|--------------|
| 17 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) as regards metabolic control. | 108 |
| 18 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) as regards GH, IGF1 and IGFBP3. | 110 |
| 19 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) concerning their IQ. | 111 |
| 20 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) concerning their auditory vigilance test scores. | 113 |
| 21 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) concerning their Figural memory test scores. | 114 |
| 22 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) concerning their Pediatric Symptom Checklist scores. | 115 |
| 23 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) as regards caloric intake. | 116 |
| 24 | Comparison between type 1 diabetic patients with HbA1c < 8% (group I) and type 1 diabetic patients with HbA1c \geq 8% (group II) as regards zinc intake. | 116 |

| Tab.No. | Title | pages |
|----------------|--|--------------|
| 25 | Correlation between GH, IGF-1 and IGFBP-3 and metabolic control of type I diabetes among patients. | 117 |
| 26 | Correlation between GH, IGF-1 and IGFBP-3 and IQ among patients. | 118 |
| 27 | Correlation between GH, IGF-1 and IGFBP-3 and auditory vigilance test among patients. | 119 |
| 28 | Correlation between GH, IGF-1 and IGFBP-3 and figural memory test among patients. | 119 |
| 29 | Correlation between metabolic control and IQ scores among patients. | 120 |
| 30 | Correlation between metabolic control and auditory vigilance test scores among patients. | 121 |
| 31 | Correlation between metabolic control and Figural memory test scores among patients | 122 |
| 32 | Correlation between metabolic control and Pediatric Symptom Checklist scores among patients. | 123 |
| 33 | Correlation between zinc intake and IQ scores among patients. | 126 |