



# Quality of Life in Type 1 Diabetic Children: Relationship to Microvascular Complications and Insulin Treatment Satisfaction

*Thesis*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سبحانك لا علم لنا  
إلا ما علمتنا إنك أنت  
العليم العظيم

صدق الله العظيم

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♥♥♥ **Hend Helmy Abd El Ghaffar**



*Dedication*

*To my lovely family  
&  
To all children  
participated in the study  
and their families*

**Thank you**

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# List of Abbreviations

Abbrev.	Full term
°C	The degree Celsius.
A.O.D	Age of onset of disease.
Abs	Antibodies.
ACE	Angiotensin I-converting enzyme.
AGE	Advanced glycation end products.
AKI	Acute kidney injury.
ALE	Advanced oxidized lipid end products.
AMPK	AMP-activated protein kinase.
ANOVA	Analysis of variance.
AOPP	Advanced oxidation protein products.
ATP	Adenosine triphosphate.
AUC	Area under the curve.
BG	Blood glucose.
BGM	Blood glucose monitoring.
BMI	Body mass index.
BMIP	Body mass index percentile.
BSA	Bovine serum albumin.
CAN	Cardiovascular autonomic neuropathy.
CARDS	Computerized Automated Reminder Diabetes System.
CD4+	Cluster of differentiation 4 (T-helper cells).
CD8+	Cluster of differentiation 8 (cytotoxic T-lymphocytes).
CI	Confidence interval.
ClinROs	Clinician-reported outcomes.
Cm	Centimeter.
CMV	Cytomegalovirus.
CRC	Colorectal carcinoma.
CSII	Continuous subcutaneous insulin infusion.
CSR	Child self-reports.
D.D	Disease duration.
Daxx	Death-associated protein 6.
DBP	Diastolic blood pressure.
DCCT	Diabetes Control and Complications Trial.
DCGM-37	Disabkids Chronic Generic Measure-37.
DDT	Dichlorodiphenyltrichloroethane.
DEMPU	Diabetes Endocrine and Metabolism Pediatric Unit.
D-HRQOL	Diabetes specific health related quality of life.
DiaPep277	Hsp60 derived peptide 277.