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List of Abbreviations

ALT	Alanine aminotransferase.
AST	Aspartate aminotransferase.
BIA	Bioelectrical impedance analysis.
BMI	Body mass index.
BUN	Blood urea nitrogen.
CDC	Centers for Disease Control and Prevention.
CHEO	Children's Hospital of Eastern Ontario.
CRP	C reactive protein.
CT	Computerized Tomography
Dcytb	Duodenal cytochrome B.
DEXA	Dual-Energy X-ray Absorptiometry.
DMT1	Divalent metal transporter 1.
FDA	Food and Drug Administration.
FTC	Federal Trade Commission.
hs- CRP	High sensitivity C reactive protein.
ID	Iron deficiency.
IDA	Iron deficiency anemia.
IOTF	The International Obesity Task Force.
MRI	Magnetic resonance imaging
NCHS	The National Center for Health Statistics.
NHANES	National Health and Nutrition Examination Surveys.
SDS	Standard deviations score.
sTfR	Soluble transferring receptor.
TS	Transferrin saturation.
VA	Veterans Affairs.
WHO	World Health Organization.
WHR	Waist circumference and Waist-to hip ratio.

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Introduction





Aim of the Work





Review of Literature





Chapter (1)

Childhood Obesity





Chapter (2)

Human Iron Metabolism





Chapter (3)

Iron Status in Obese Children and Adolescents and its Relation to BMI





Chapter (4)

Hepcidin





Subjects and Methods

