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مسئولية عن محتوى هذه الرسالة.

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Intestinal Ultrasound in Diagnosis and Follow up of Patients with Crohns Disease

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سببنا انك لا تعلم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

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List of Abbreviations

Abb.	Full term
ADA	<i>Anti-drug antibodies</i>
ATI	<i>Antibodies to infliximab</i>
CD.....	<i>Crohn's disease</i>
CEUS	<i>Contrast-enhanced US</i>
CRP.....	<i>C-reactive protein</i>
CT	<i>Computed tomograph</i>
EC	<i>Entocort</i>
EIM.....	<i>Extraintestinal manifestations</i>
FDA	<i>Food and Drug Administration</i>
GI	<i>Gastrointestinal tract</i>
GIUS.....	<i>Gastrointestinal ultrasonography</i>
GWAS	<i>Genome-extensive association studies</i>
HMSA	<i>Homogeneous mobility-shift assay</i>
IBD	<i>Inflammatory bowel disease</i>
IBUS	<i>International Bowel Ultrasound Group</i>
IECs	<i>Intestinal epithelial cells</i>
IELs	<i>Intraepithelial lymphocytes</i>
IKK α	<i>Inhibitor of NF-κB kinase-α</i>
JAK	<i>Janus kinase</i>
MRE.....	<i>Magnetic resonance enterography</i>
NK	<i>Natural killer</i>

List of Abbreviations *(Cont...)*

Abb.	Full term
<i>ACD</i>	<i>Anemia of chronic disorder</i>
<i>ADM</i>	<i>Adalimumab</i>
<i>ALT</i>	<i>Alanine transaminase</i>
<i>APCs</i>	<i>Antigen presenting cells</i>
<i>ASCA-IgA</i>	<i>Anti-Saccharomyces Cerevisiae antibody – Immunoglobulin A</i>
<i>ASCA-IgG</i>	<i>Anti-Saccharomyces Cerevisiae antibody – Immunoglobulin G</i>
<i>AST</i>	<i>Aspartate aminotransferase</i>
<i>ATG16 L1</i>	<i>Autophagy Related 16 Like 1</i>
<i>BWT</i>	<i>Bowel wall thickness</i>
<i>CBS1</i>	<i>Cystationnine –B-synthase Domain 1</i>
<i>CEUS</i>	<i>Contrast – enhanced ultra sonography</i>
<i>CTE</i>	<i>Computerized Tomographic Enterography</i>
<i>DBE</i>	<i>Double ballon enteroscopy</i>
<i>ESR</i>	<i>Erythrocyte sedimentation rate</i>
<i>FC....FCalpro...</i>	<i>Fecal-calprotectin</i>
<i>HMSA</i>	<i>Homogenous mobility –Shift assay</i>
<i>IBS</i>	<i>Irritable Bowel Syndrome</i>
<i>IFN-Y</i>	<i>Interferon – Gamma</i>
<i>IFx</i>	<i>Infliximab</i>
<i>IgA</i>	<i>Immunoglobulin A</i>
<i>IgG</i>	<i>Immunoglobulin G</i>
<i>IKKa</i>	<i>Inhibitor of nuclear issue –KB kinase –Alpha</i>

List of Abbreviations *(Cont...)*

Abb.	Full term
<i>IL1 B.....</i>	<i>Interleukin -1-Beta</i>
<i>IL4</i>	<i>Interleukin 4</i>
<i>IL6</i>	<i>Interleukin 6</i>
<i>IL10</i>	<i>Interleukin 10</i>
<i>IL12 RB1</i>	<i>Interleukin -12- Receptor subunit Beta-1</i>
<i>IL12</i>	<i>Interleukin 12</i>
<i>IL17</i>	<i>Interleukin 17</i>
<i>IL18</i>	<i>Interleukin 18</i>
<i>IL21</i>	<i>Interleukin 21</i>
<i>IL22</i>	<i>Interleukin 22</i>
<i>IL23</i>	<i>Interleukin 23</i>
<i>IL23R.....</i>	<i>Interleukin 23 Receptor</i>
<i>IL23-Th17</i>	<i>Interleukin-23 / T-helper 17 pathway</i>
<i>ILC1s</i>	<i>Group 1 innate lymphoid cells</i>
<i>ILC2s</i>	<i>Group 2 innate lymphoid cells</i>
<i>ILC3s</i>	<i>Group 3 innate lymphoid cells</i>
<i>IRE-1α</i>	<i>Inositol Requiring enzyme -1- Alpha</i>
<i>IRGM</i>	<i>Immunity Related GTPase M</i>
<i>JAK2.....</i>	<i>Janus Kinase 2</i>
<i>LRRK2.....</i>	<i>Leucine Rich Repeat Kinase 2</i>
<i>MADCAM1</i>	<i>Mucosal vascular Addressin cell Adhesion Molecule 1</i>
<i>MCHC.....</i>	<i>Mean corpuscular hemoglobin concentration</i>
<i>MCV.....</i>	<i>Mean corpuscular volume</i>

List of Abbreviations *(Cont...)*

Abb.	Full term
<i>MHz</i>	<i>Mega-Hertz</i>
<i>MRE</i>	<i>Magnetic Resonance Enterography</i>
<i>MRI</i>	<i>Magnetic Resonance Imaging</i>
<i>NADPH</i>	<i>Nicotinamide Adenine Dinucleotide Phosphate Hydrogen</i>
<i>NF-KB</i>	<i>Nuclear factor-κB</i>
<i>NKG2D</i>	<i>Natural killer Group 2D</i>
<i>NLR</i>	<i>Neutrophils / lymphocytes ratio</i>
<i>NOD2</i>	<i>Nucleotide Binding Oligomerization Domain Containing 2</i>
<i>NSAIDs</i>	<i>Non-steroidal anti-inflammatory drugs</i>
<i>P-ANCA</i>	<i>Perinuclear Neutrophil antibodies</i>
<i>PCR</i>	<i>Polymerase chain reaction</i>
<i>PD</i>	<i>Pharmacodynamic</i>
<i>PK</i>	<i>Pharmacokinetic</i>
<i>PNR</i>	<i>Primary non-response</i>
<i>PRF</i>	<i>Pulse repetition Frequency</i>
<i>PRP</i>	<i>Platelet-Rich Plasma</i>
<i>PSC</i>	<i>Primary sclerosing cholangitis</i>
<i>PT</i>	<i>Prothrombin time</i>
<i>PTT</i>	<i>Partial Thromboplastin Time</i>
<i>QOL</i>	<i>Quality of life</i>
<i>RBCs</i>	<i>Red blood cells</i>
<i>RCCO</i>	<i>European Crohn's and Colitis Organization</i>