

**EVALUATION OF SAFE AND ACCURATE MODALITIES
FOR THE PREDICTION OF OESOPHAGEAL VARICES IN HCV
CIRRHOTIC PATIENTS**

Submitted By

Mohamed Ahmed Hashish

M.B.B.Ch., Faculty of Medicine, Ain Shams University, 2003

Master of internal Medicine, Faculty of Medicine, Ain Shams University, 2008

A Thesis Submitted in Partial Fulfillment
Of
The Requirement for the Doctor of Philosophy Degree
In
Environmental Sciences

Department of Environmental Medical Sciences
Institute of Environmental Studies and Research
Ain Shams University

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APPROVAL SHEET

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This thesis Towards a Doctor of Philosophy Degree in
Environmental Sciences Has been Approved by:

Name

Signature

1-Prof. Dr. Mostafa Hassan Ragab

Prof. of Environmental Medicine, Department of
Environmental Medical Science
Institute of Environmental Studies & Research
Ain Shams University

2-Prof. Dr. Hala Ibrahim Awad Allah

Prof. of Environmental Medicine & Community
Head of Department of Environmental Medical Sciences
Institute of Environmental Studies & Research
Ain Shams University

3-Prof. Dr. Wael Safwat Mohamed Abdel Baky

Prof. of Gastroenterology and Hepatology
Theodor Bilharz Research Institute

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1-Prof. Dr. Mostafa Hassan Ragab

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Institute of Environmental Studies & Research
Ain Shams University

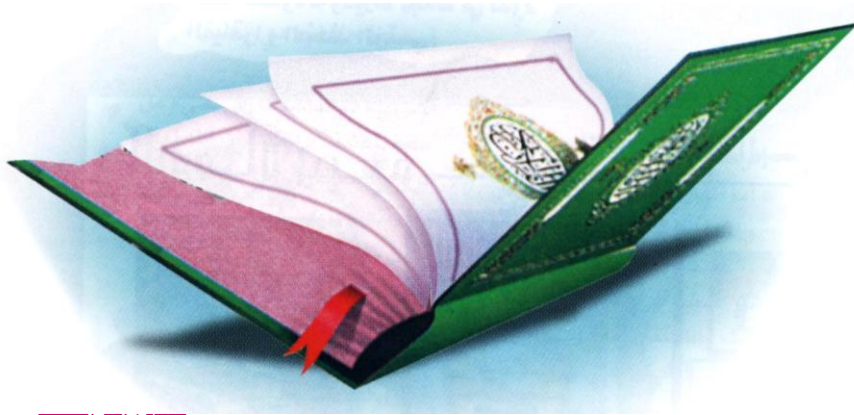
2-Prof. Dr. Hossam Eldeen Abdel Aziz Mahmoud

Prof. of internal medicine gastroenterology hepatology and endoscopy
Department of internal medicine – faculty of medicine
Ain Shams University

2019

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَقُلْ اَعْمَلُوا فَسَيَرَى اللَّهُ
عَمَلَكُمْ وَرَسُولُهُ وَالْمُؤْمِنُونَ



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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List of Abbreviations

Abb.	Full term
<i>AFP</i>	<i>Alpha-fetoprotein</i>
<i>ALT</i>	<i>Alanine aminotransferase</i>
<i>APRI</i>	<i>Aspartate Aminotransferase to Platelet Ratio Index</i>
<i>AST</i>	<i>Aspartate aminotransferase</i>
<i>AUC</i>	<i>Area under curve</i>
<i>BMI</i>	<i>Body mass index</i>
<i>BMI</i>	<i>Body mass index</i>
<i>CT</i>	<i>Computed tomography</i>
<i>CT</i>	<i>Computerized tomography</i>
<i>cTTE</i>	<i>Contrast-enhanced transthoracic echocardiography</i>
<i>DM</i>	<i>Diabetes mellitus</i>
<i>e NOS</i>	<i>Endothelial nitric oxide synthase</i>
<i>EDHS</i>	<i>Egyptian Demographic Health Survey</i>
<i>EGD</i>	<i>Adipocyte-Specific Secretory Factor</i>
<i>ET-1</i>	<i>Endothelin-1</i>
<i>F</i>	<i>Volume of blood flowing through the system</i>
<i>FIB-4 Index</i>	<i>Fibrosis-4 Index</i>
<i>GGT</i>	<i>Gamma-glutamyltransferase</i>
<i>GI</i>	<i>Gastrointestinal</i>
<i>HCC</i>	<i>Hepatocellular carcinoma</i>
<i>HCV</i>	<i>Hepatitis C virus</i>
<i>HCV</i>	<i>Hepatitis C virus</i>
<i>HVPG</i>	<i>Hepatic venous pressure gradient</i>
<i>HVPG</i>	<i>Hepatic venous pressure gradient</i>
<i>I</i>	<i>Current</i>
<i>ICG</i>	<i>Indocyanine green</i>
<i>IDU</i>	<i>Esophagogastroduodenoscopy</i>
<i>IGV</i>	<i>Isolated gastric varices</i>
<i>IMC</i>	<i>Inferior mesenteric vein</i>
<i>INR</i>	<i>International normalized ratio</i>
<i>IPVDs</i>	<i>Intrapulmonary vascular dilatations</i>

List of Abbreviations cont...

Abb.	Full term
<i>IVC</i>	<i>Inferior vena cava</i>
<i>Kpa</i>	<i>Kilopascal</i>
<i>LC</i>	<i>Liver cirrhosis</i>
<i>MELD score</i>	<i>Model for End-Stage Liver Disease</i>
<i>mm Hg</i>	<i>Millimeter of mercury</i>
<i>MRE</i>	<i>Magnetic resonance elastography</i>
<i>NASH</i>	<i>Nonalcoholic steatohepatitis</i>
<i>NIAAA</i>	<i>National Institute on Alcohol Abuse and Alcoholism</i>
<i>NO</i>	<i>Nitric oxide</i>
<i>Ov</i>	<i>Esophageal varices</i>
<i>P</i>	<i>Pressure gradient</i>
<i>PAT</i>	<i>Parenteral-antischistosomal-therapy</i>
<i>R</i>	<i>Resistance</i>
<i>ROC curve</i>	<i>Receiver operating characteristic curve</i>
<i>SVC</i>	<i>Superior vena cava</i>
<i>TIPS</i>	<i>Transjugular intrahepatic portosystemic shunt</i>
<i>TLC</i>	<i>Total leukocyte count</i>
<i>US</i>	<i>United states</i>
<i>V</i>	<i>Voltage</i>
<i>WHVP</i>	<i>Wedge hepatic vein pressure</i>
<i>WHVP</i>	<i>Wedge hepatic venous pressure</i>