



# **Evaluation of Imaging-Guided Peritoneal Biopsy in Diagnosis of Ascites of Undetermined Origin**

## *Thesis*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ

سَبَّحَانَكَ لَا أَعْلَمُ لَنَا  
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ  
الْعَلِيمُ الْعَظِيمُ

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## List of Abbreviations

| <i>Abbr.</i>  | <i>Full-term</i>                                       |
|---------------|--|
| <b>ADA</b>    | : Adenosine deaminase                                  |
| <b>ADH</b>    | : Anti-diuretic hormone                                |
| <b>AFB</b>    | : Acid-Fast Bacillus                                   |
| <b>AFP</b>    | : Alfa fetoprotein                                     |
| <b>AIDS</b>   | : Acquired Immunodeficiency Syndrome                   |
| <b>ALP</b>    | : Alkaline phosphatase                                 |
| <b>ALT</b>    | : Alanine transaminase                                 |
| <b>aPTT</b>   | : Activated partial thromboplastin time                |
| <b>ASG</b>    | : Ascites Study Group                                  |
| <b>AST</b>    | : Aspartate transaminase                               |
| <b>BCG</b>    | : Bacillus of Calmette and Guérin                      |
| <b>BCM</b>    | : Benign cystic mesothelioma                           |
| <b>BCS</b>    | : Budd Chiari Syndrome                                 |
| <b>BMI</b>    | : Body Mass Index                                      |
| <b>BUN</b>    | : Blood Urea Nitrogen                                  |
| <b>CA125</b>  | : Cancer Antigen 125                                   |
| <b>CA15.3</b> | : Cancer Antigen 15.3                                  |
| <b>CA19.9</b> | : Cancer Antigen 19.9                                  |
| <b>CAPD</b>   | : Cutaneous ambulatory peritoneal dialysis             |
| <b>CD3</b>    | : Cluster of differentiation 3                         |
| <b>CEA</b>    | : Carcino-embryonic antigen                            |
| <b>CGD</b>    | : Chronic granulomatous disease                        |
| <b>CHF</b>    | : Congestive heart failure                             |
| <b>CNB</b>    | : Core Needle Biopsy                                   |
| <b>CT</b>     | : Computed tomography                                  |
| <b>DM</b>     | : Diabetes mellitus                                    |
| <b>DNA</b>    | : Deoxyribonucleic acid (Double stranded Nucleic Acid) |
| <b>DPL</b>    | : Diffuse peritoneal leiomyomatosis                    |

|                                |  |
|--------------------------------|--|
| <b>DSRCT</b>                   | : Peritoneal sarcomatosis from desmoplastic small round cell tumor |
| <b>EASL</b>                    | : European Association for the Study of the Liver                  |
| <b>ECA</b>                     | : Egyptian Club of Ascites   |
| <b>ELISA</b>                   | : Enzyme-Linked Immunosorbant assay                                |
| <b>EpCAM</b>                   | : Epithelial cell adhesion molecule                                |
| <b>EPTB</b>                    | : Extra-pulmonary TB   |
| <b>ESR</b>                     | : Erythrocyte sedimentation rate                                   |
| <b>EUS</b>                     | : Endoscopic ultrasound  |
| <b>FDG</b>                     | : Flu-deoxy-glucose  |
| <b>FFA</b>                     | : Free fatty acids   |
| <b>FMF</b>                     | : Familial Mediterranean fever                                     |
| <b>FNAB</b>                    | : Fine needle aspiration biopsy                                    |
| <b>FNAC</b>                    | : Fine needle aspiration cytology                                  |
| <b>HB</b>                      | : Hemoglobin   |
| <b>HBV</b>                     | : Hepatitis B virus  |
| <b>HBs Ag</b>                  | : Hepatitis B surface antigen                                      |
| <b>HBc Ab</b>                  | : Hepatitis B core antibody  |
| <b>HCC</b>                     | : Hepatocellular carcinoma   |
| <b>HCV</b>                     | : Hepatitis C virus  |
| <b>HFLs</b>                    | : Hepatic focal lesions  |
| <b>HIV</b>                     | : Human immunodeficiency virus                                     |
| <b>HMGB1</b>                   | : High Mobility Group BOX-1  |
| <b>HTN</b>                     | : Hypertension   |
| <b>IFN-<math>\gamma</math></b> | : Interferon- $\gamma$   |
| <b>IGPCB</b>                   | : Imaging guided percutaneous core needle biopsy                   |
| <b>IGRA</b>                    | : Interferon gamma release assay                                   |
| <b>INR</b>                     | : International normalized ratio                                   |
| <b>IV</b>                      | : Intravenous  |
| <b>IVC</b>                     | : Inferior vena cava   |
| <b>LAG</b>                     | : Lymphangiography   |
| <b>LDH</b>                     | : Lactate dehydrogenase  |

|                          |  |
|--------------------------|--|
| <b>LMWH</b>              | : Low molecular weight heparin                 |
| <b>LN<sub>s</sub></b>    | : Lymph nodes                                  |
| <b>LVP</b>               | : Large volume paracentesis                    |
| <b>MCT</b>               | : Medium chain triglycerides                   |
| <b>MELD</b>              | : Model for end stage liver disease            |
| <b>MRI</b>               | : Magnetic resonance imaging                   |
| <b>MTB</b>               | : Mycobacterium tuberculosis                   |
| <b>NAAT<sub>s</sub></b>  | : Nucleic acid amplification tests             |
| <b>NADPH</b>             | : Nicotinamide adenine dinucleotide phosphate  |
| <b>NO</b>                | : Nitric oxide                                 |
| <b>NPV</b>               | : Negative peridective value                   |
| <b>NSAID<sub>s</sub></b> | : Non-steroidal anti-inflammatory drugs        |
| <b>PC</b>                | : Peritoneal carcinomatosis                    |
| <b>PCI</b>               | : Peritoneal Cancer Index                      |
| <b>PCR</b>               | : Polymerase chain reaction                    |
| <b>PET</b>               | : Positron emission tomography                 |
| <b>PG<sub>s</sub></b>    | : Prostaglandins                               |
| <b>PICD</b>              | : Paracentesis induced circulatory dysfunction |
| <b>PPCD</b>              | : Post-paracentesis circulatory dysfunction    |
| <b>PPD</b>               | : Purified protein derivative                  |
| <b>PPV</b>               | : Positive peridective value                   |
| <b>PT</b>                | : Prothrombin time                             |
| <b>PTFE</b>              | : Poly-tetra fluoro-ethylene                   |
| <b>PVS</b>               | : Peritoneo-venous shunt                       |
| <b>PVT</b>               | : Portal vein thrombosis                       |
| <b>QFN-G-IT</b>          | : QuantiFERON-TB Gold In-Tube assay            |
| <b>QFN-Gold</b>          | : QuantiFERON-TB Gold assay                    |
| <b>RBC<sub>s</sub></b>   | : Red blood cells                              |
| <b>RES</b>               | : Reticulo-endothelial system                  |
| <b>SAAG</b>              | : Serum ascites albumin gradient               |
| <b>SBP</b>               | : Spontaneous bacterial peritonitis            |
| <b>SD</b>                | : Standard deviation                           |

|                     |  |
|---------------------|--|
| <b><i>SFLs</i></b>  | <b><i>: Splenic focal lesions</i></b>                          |
| <b><i>SLE</i></b>   | <b><i>: Systemic lupus erythematosus</i></b>                   |
| <b><i>SPSS</i></b>  | <b><i>: Statistical Package for Social Sciences</i></b>        |
| <b><i>TGs</i></b>   | <b><i>: Triglycerides</i></b>                                  |
| <b><i>TIPS</i></b>  | <b><i>: Trans-jugular intrahepatic portosystemic shunt</i></b> |
| <b><i>TNF</i></b>   | <b><i>: Tumor necrosis factor</i></b>                          |
| <b><i>TP</i></b>    | <b><i>: Total proteins</i></b>                                 |
| <b><i>TST</i></b>   | <b><i>: Tuberculin skin testing</i></b>                        |
| <b><i>TV US</i></b> | <b><i>: Trans-vaginal ultrasound</i></b>                       |
| <b><i>US</i></b>    | <b><i>: Ultrasound</i></b>                                     |
| <b><i>USPCB</i></b> | <b><i>: Ultrasound guided percutaneous core biopsy</i></b>     |
| <b><i>VEGF</i></b>  | <b><i>: Vascular endothelial growth factor</i></b>             |
| <b><i>WHO</i></b>   | <b><i>: World Health Organization</i></b>                      |



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