

# **Presentation and Outcome of Egyptian Patients with Primary Budd Chiari Syndrome (BCS) Related to Behçet's Disease (BD)**

*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 Contents*

| Title                                             | Page No. |
|---------------------------------------------------|----------|
| Protocol of Thesis                                |          |
| List of Tables .....                              | 5        |
| List of Figures .....                             | 9        |
| List of Abbreviations .....                       | 12       |
| Introduction .....                                | 1        |
| Aim of the Work.....                              | 4        |
| Review of Literature                              |          |
| • Budd–Chiari Syndrome (BCS) .....                | 5        |
| • Behçet’s Disease (BD).....                      | 43       |
| • Budd Chiari Syndrome and Behçet's Disease ..... | 77       |
| Patients and Methods .....                        | 90       |
| Results .....                                     | 99       |
| Discussion .....                                  | 133      |
| Summary .....                                     | 144      |
| Conclusion.....                                   | 148      |
| Recommendations .....                             | 149      |
| References .....                                  | 150      |
| Arabic Summary                                    |          |

## *List of Tables*

| Table No.          | Title                                                                                                                                                      | Page No. |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Table (1):</b>  | Estimates of incidence of Budd–Chiari syndrome .....                                                                                                       | 6        |
| <b>Table (2):</b>  | Approximate prevalence of major risk factors in patients with primary BCS<br>Prevalence (%) Europe China.....                                              | 9        |
| <b>Table (3):</b>  | Proposed workup for investigating underlying risk factors of Budd–Chiari syndrome .....                                                                    | 10       |
| <b>Table (4):</b>  | Proportion of patients with JACK2-V617F mutation in unselected patients with BCS in non-European countries or Turkey. ....                                 | 17       |
| <b>Table (5):</b>  | Proportion of patients with factor V Leiden mutation in unselected patients with BCS in non-European countries or Turkey, ranked by increasing order ..... | 18       |
| <b>Table (6):</b>  | Characteristics at presentation in Western patients with BCS/HVOTO.....                                                                                    | 19       |
| <b>Table (7):</b>  | Clinical Manifestations of Behçet’s Disease.....                                                                                                           | 62       |
| <b>Table (8):</b>  | The older and newer criteria for the diagnosis of Behçet’s Disease.....                                                                                    | 64       |
| <b>Table (9):</b>  | International Criteria for Behçet’s Disease<br>Point score system: scoring $\geq 4$ indicates Behçet’s diagnosis .....                                     | 65       |
| <b>Table (10):</b> | Various forms of vascular involvement in Behçet's disease .....                                                                                            | 79       |
| <b>Table (11):</b> | Characteristic features of Budd Chiari syndrome due to BD useful to differentiate from that due to non-BD causes .....                                     | 86       |
| <b>Table (12):</b> | Behçet’s disease diagnosis according to International Criteria for Behçet's Disease .....                                                                  | 91       |
| <b>Table (13):</b> | Grade of esophageal varices (Three-size classification .....                                                                                               | 95       |

## *List of Tables (Cont...)*

| Table No.          | Title                                                                                                                                                                 | Page No. |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Table (14):</b> | Baveno scoring system for portal hypertensive gastropathy (PHG).....                                                                                                  | 95       |
| <b>Table (15):</b> | (Rotterdam) Murad's BCS prognostic classification.....                                                                                                                | 96       |
| <b>Table (16):</b> | Child-Pugh scoring system .....                                                                                                                                       | 97       |
| <b>Table (17):</b> | Gender distribution among BCS with BD patients (Group II: n=39).....                                                                                                  | 100      |
| <b>Table (18):</b> | Disease characteristics of BCS with BD patients (Group II: n=39).....                                                                                                 | 102      |
| <b>Table (19):</b> | Classification of BCS with BD patients (Group II: n=39) according to the onset of the disease.....                                                                    | 104      |
| <b>Table (20):</b> | Etiology of BCS with BD patients (Group II: n=39) .....                                                                                                               | 105      |
| <b>Table (21):</b> | Frequency of different clinical data in the BCS with BD patients (Group II: n=39).....                                                                                | 106      |
| <b>Table (22):</b> | Laboratory data of BCS with BD patients (Group II: n=39) (n=39).....                                                                                                  | 108      |
| <b>Table (23):</b> | Baseline radiological criteria of BCS with BD patients (Group II: n=39) using duplex U/S .....                                                                        | 109      |
| <b>Table (24):</b> | Baseline relevant endoscopic findings of BCS with BD patients (Group II: n=39).....                                                                                   | 110      |
| <b>Table (25):</b> | Presence of other endoscopic findings among the BCS with BD patients (Group II: n=39).....                                                                            | 112      |
| <b>Table (26):</b> | Management modalities used in the treatment of the BCS with BD patients (Group II: n=39).....                                                                         | 113      |
| <b>Table (27):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding Age and Gender distribution among the studied patients ..... | 114      |

## *List of Tables (Cont...)*

| Table No.          | Title                                                                                                                                                                                 | Page No. |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Table (28):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding types of presentation among the studied patients.....                        | 115      |
| <b>Table (29):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the clinical data among the studied patients.....                            | 116      |
| <b>Table (30):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the laboratory data among the studied patients.....                          | 119      |
| <b>Table (31):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the radiological data among the studied patients using duplex (U/S).....     | 122      |
| <b>Table (32):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the Endoscopic findings.....                                                 | 124      |
| <b>Table (33):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the management modalities used in the treatment of the studied patients..... | 125      |
| <b>Table (34):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the patency of the stent.....                                                | 126      |

## *List of Tables (Cont...)*

| Table No.          | Title                                                                                                                                                    | Page No. |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Table (35):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the most commonly used prognostic indices ..... | 128      |
| <b>Table (36):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the prevalence of HCC .....                     | 129      |
| <b>Table (37):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the mortality .....                             | 130      |
| <b>Table (38):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the survival .....                              | 131      |

## *List of Figures*

| Fig. No.          | Title                                                                                                                                                                                                     | Page No. |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Fig. (1):</b>  | Occlusion of upper part of IVC .....                                                                                                                                                                      | 26       |
| <b>Fig. (2):</b>  | CT in a 28-year-old female with idiopathic acute Budd-Chiari syndrome demonstrates hepatomegaly with diffuse patchy enhancement due to hepatic congestion and necrosis .....                              | 28       |
| <b>Fig. (3):</b>  | A 42-year-old female patient with chronic Budd-Chiari syndrome demonstrates large enhancing regenerative nodule as well as ascites and lack of hepatic opacification due to congestion and necrosis ..... | 29       |
| <b>Fig. (4):</b>  | Short segment obstruction in inferior vena cava.....                                                                                                                                                      | 31       |
| <b>Fig. (5):</b>  | Collateral veins in Budd-Chiari syndrome.....                                                                                                                                                             | 31       |
| <b>Fig. (6):</b>  | Proposed algorithm for management of patients with Budd–Chiari syndrome (BCS)/hepatic venous outflow tract obstruction (HVOTO). .....                                                                     | 42       |
| <b>Fig. (7):</b>  | Multiple oral ulcers.....                                                                                                                                                                                 | 50       |
| <b>Fig. (8):</b>  | Genital ulcers and erythema nodosum in a female patient .....                                                                                                                                             | 53       |
| <b>Fig. (9):</b>  | Oral and genital ulcers in a 28 year old female patient. ....                                                                                                                                             | 54       |
| <b>Fig. (10):</b> | Deep scrotal ulcer and extragenital ulcer on the thigh in a male patient. ....                                                                                                                            | 55       |
| <b>Fig. (11):</b> | Erythema nodosum.....                                                                                                                                                                                     | 56       |
| <b>Fig. (12):</b> | Papulopustular lesions. ....                                                                                                                                                                              | 57       |
| <b>Fig. (13):</b> | Positive pathergy test.....                                                                                                                                                                               | 58       |
| <b>Fig. (14):</b> | Vascular associations. ....                                                                                                                                                                               | 80       |
| <b>Fig. (15):</b> | Classification of the studied <b>271</b> patients according to the etiology .....                                                                                                                         | 99       |
| <b>Fig. (16):</b> | Gender distribution among BCS with BD patients.....                                                                                                                                                       | 101      |

## *List of Figures (cont...)*

| Fig. No.          | Title                                                                                                                                                                 | Page No. |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Fig. (17):</b> | Classification of patients according to the onset of the disease. ....                                                                                                | 104      |
| <b>Fig. (18):</b> | Frequency of different symptoms in BCS with BD patients. ....                                                                                                         | 107      |
| <b>Fig. (19):</b> | Frequency of different signs in BCS with BD patients. ....                                                                                                            | 107      |
| <b>Fig. (20):</b> | Grades of esophageal varices among BCS with BD patients ....                                                                                                          | 110      |
| <b>Fig. (21):</b> | Types of Fundal varices among BCS with BD patients ....                                                                                                               | 111      |
| <b>Fig. (22):</b> | Degrees of PHG varices among BCS with BD patients ....                                                                                                                | 111      |
| <b>Fig. (23):</b> | Management modalities used in the treatment of the BSC with BD (group II).....                                                                                        | 113      |
| <b>Fig. (24):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding Age and Gender distribution among the studied patients ..... | 115      |
| <b>Fig. (25):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding oral ulcers.....                                             | 117      |
| <b>Fig. (26):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding genital ulcers .....                                         | 118      |
| <b>Fig. (27):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding prominent veins .....                                        | 118      |
| <b>Fig. (28):</b> | Comparison between BCS patients without BD (Group I) and those with BD (Group II) regarding level of ESR. ....                                                        | 120      |
| <b>Fig. (29):</b> | Comparison between BCS patients without BD (Group I) and those with BD (Group II) regarding level of AST. ....                                                        | 120      |

## *List of Figures (cont...)*

| Fig. No.          | Title                                                                                                                                                                                  | Page No. |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Fig. (30):</b> | Comparison between BCS patients without BD (Group I) and those with BD (Group II) regarding level of serum albumin. ....                                                               | 121      |
| <b>Fig. (31):</b> | Intra-hepatic collaterals among the two groups. ....                                                                                                                                   | 123      |
| <b>Fig. (32):</b> | Comparison between BCS patients without BD (Group I) and those with BD (Group II) regarding pattern of vascular affection.....                                                         | 123      |
| <b>Fig. (33):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the management modalities used in the treatment of the studied patients. .... | 125      |
| <b>Fig. (34):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding one year shunt patency and five years shunt patency. ....                     | 127      |
| <b>Fig. (35):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the Rotterdam class. ....                                                     | 129      |
| <b>Fig. (36):</b> | Comparison between BCS patients without BD (Group I: n=232) and those with BD (Group II: n=39) regarding the prevalence of HCC. ....                                                   | 130      |
| <b>Fig. (37):</b> | Summary in algorithm for the management and outcome of BCS patients with BD. ....                                                                                                      | 132      |

## *List of Abbreviations*

| <b>Abb.</b>        | <b>Full term</b>                                            |
|--------------------|-------------------------------------------------------------|
| <i>A</i> .....     | <i>Aorta</i>                                                |
| <i>AASLD</i> ..... | <i>American Association for the Study of Liver Diseases</i> |
| <i>ALB</i> .....   | <i>Albumin</i>                                              |
| <i>ALT</i> .....   | <i>Alanine aminotransferase</i>                             |
| <i>AOPPs</i> ..... | <i>Advanced oxidation protein products</i>                  |
| <i>APCs</i> .....  | <i>Antigen-presenting cells</i>                             |
| <i>APS</i> .....   | <i>Antiphospholipid syndrome</i>                            |
| <i>AST</i> .....   | <i>Aspartate aminotransferase</i>                           |
| <i>ATIII</i> ..... | <i>Antithrombin III</i>                                     |
| <i>AV</i> .....    | <i>Azygos vein</i>                                          |
| <i>BCS</i> .....   | <i>Budd-Chiari syndrome</i>                                 |
| <i>BCSG</i> .....  | <i>Budd-Chiari Study Group</i>                              |
| <i>BD</i> .....    | <i>Behcet's disease</i>                                     |
| <i>BIL D</i> ..... | <i>Direct Bilirubin</i>                                     |
| <i>BIL T</i> ..... | <i>Total Bilirubin</i>                                      |
| <i>BUN</i> .....   | <i>Blood urea nitrogen</i>                                  |
| <i>CALR</i> .....  | <i>Calreticulin gene</i>                                    |
| <i>CD</i> .....    | <i>Cluster differentiation</i>                              |
| <i>CPVL</i> .....  | <i>Carboxypeptidase, vitellogenic like</i>                  |
| <i>CRP</i> .....   | <i>C-reactive protein</i>                                   |
| <i>CT</i> .....    | <i>Computed Tomography</i>                                  |
| <i>CVST</i> .....  | <i>Cerebral venous sinus thrombosis</i>                     |
| <i>DVT</i> .....   | <i>Deep venous thrombosis</i>                               |
| <i>eNOS</i> .....  | <i>Endothelial nitric oxide synthetase</i>                  |
| <i>ESR</i> .....   | <i>Erythrocyte sedimentation rate</i>                       |
| <i>EULAR</i> ..... | <i>European League Against Rheumatism</i>                   |
| <i>EV</i> .....    | <i>Eosophageal varices</i>                                  |
| <i>FVLM</i> .....  | <i>Factor V leiden mutation</i>                             |

## *List of Abbreviations (cont...)*

| Abb.                  | Full term                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>GE1</i> .....      | <i>Gastroesophageal varices type I</i>                                                            |
| <i>GE2</i> .....      | <i>Gastroesophageal varices type II</i>                                                           |
| <i>GERD</i> .....     | <i>Gastroesophageal reflux disease</i>                                                            |
| <i>GI</i> .....       | <i>Gastrointestinal</i>                                                                           |
| <i>GIMAP</i> .....    | <i>GTPase of the immunity-associated protein</i>                                                  |
| <i>GIT</i> .....      | <i>Gastrointestinal</i>                                                                           |
| <i>HBG</i> .....      | <i>Hemoglobin</i>                                                                                 |
| <i>HCC</i> .....      | <i>Hepatocellular carcinoma</i>                                                                   |
| <i>HIV</i> .....      | <i>Human immunodeficiency virus</i>                                                               |
| <i>HLA</i> .....      | <i>Human Leucocytic antigen</i>                                                                   |
| <i>HSP</i> .....      | <i>Heat shock protein</i>                                                                         |
| <i>HSP</i> .....      | <i>Heat-shock proteins</i>                                                                        |
| <i>HV</i> .....       | <i>Hepatic vein</i>                                                                               |
| <i>HVOTO</i> .....    | <i>Hepatic venous outflow tract obstruction</i>                                                   |
| <i>IBD</i> .....      | <i>Inflammatory bowel disease</i>                                                                 |
| <i>ICAM-1</i> .....   | <i>Intercellular adhesion molecule-1</i>                                                          |
| <i>IL</i> .....       | <i>Interleukin</i>                                                                                |
| <i>INR</i> .....      | <i>International normalization ratio</i>                                                          |
| <i>IRHV</i> .....     | <i>Inferior right hepatic vein</i>                                                                |
| <i>ISG</i> .....      | <i>International Study Group</i>                                                                  |
| <i>ITR-ICBD</i> ..... | <i>International Team for the Revision of the<br/>International Criteria for Behçet's Disease</i> |
| <i>IVC</i> .....      | <i>Inferior vena cava</i>                                                                         |
| <i>JAK2</i> .....     | <i>Janus Kinase 2</i>                                                                             |
| <i>LEVT</i> .....     | <i>Lower extremity vein thrombosis</i>                                                            |
| <i>LFTs</i> .....     | <i>Liver function tests</i>                                                                       |
| <i>LIPV</i> .....     | <i>Left inferior phrenic vein</i>                                                                 |
| <i>LL</i> .....       | <i>Lower limb</i>                                                                                 |
| <i>LRV</i> .....      | <i>Left renal vein</i>                                                                            |
| <i>LT</i> .....       | <i>Liver transplantation</i>                                                                      |

## *List of Abbreviations (cont...)*

| <b>Abb.</b>           | <b>Full term</b>                                                 |
|-----------------------|------------------------------------------------------------------|
| <i>MAGIC syndrome</i> | <i>Mouth and genital ulcers with inflamed cartilage syndrome</i> |
| <i>MEFV</i> .....     | <i>Mediterranean fever gene</i>                                  |
| <i>MELD</i> .....     | <i>Model for End-Stage Liver Disease</i>                         |
| <i>MHC</i> .....      | <i>Major histocompatibility complex</i>                          |
| <i>MPL</i> .....      | <i>Myeloproliferative leukemia virus oncogene</i>                |
| <i>MPN</i> .....      | <i>Myeloproliferative neoplasms</i>                              |
| <i>MRA</i> .....      | <i>Magnetic resonance angiography</i>                            |
| <i>MRI</i> .....      | <i>Magnetic resonance imaging</i>                                |
| <i>MTHFRD</i> .....   | <i>Methylene tetrahydrofolate reductase deficiency</i>           |
| <i>NA</i> .....       | <i>Not Applicable</i>                                            |
| <i>Nd:YAG</i> .....   | <i>Neodymium-doped yttrium aluminum garnet</i>                   |
| <i>PAI</i> .....      | <i>Pulmonary artery involvement</i>                              |
| <i>PFAPA</i> .....    | <i>Periodic fever aphthous ulcers, pharyngitis, adenopathy</i>   |
| <i>PGM</i> .....      | <i>Prothrombin gene mutation</i>                                 |
| <i>PHG</i> .....      | <i>Portal hypertensive gastropathy</i>                           |
| <i>PINK1</i> .....    | <i>PTEN Induced putative kinase 1</i>                            |
| <i>pmi</i> .....      | <i>Per million</i>                                               |
| <i>PSORS1C1</i> ..... | <i>Psoriasis susceptibility 1 candidate 1</i>                    |
| <i>PT</i> .....       | <i>Prothrombin</i>                                               |
| <i>PTT</i> .....      | <i>Partial thromboplastin time</i>                               |
| <i>PV</i> .....       | <i>Portal vein</i>                                               |
| <i>RAS</i> .....      | <i>Recurrent aphthous stomatitis</i>                             |
| <i>RUQ</i> .....      | <i>Right upper quadrant</i>                                      |
| <i>S.K</i> .....      | <i>Serum potassium level</i>                                     |
| <i>S.Na</i> .....     | <i>Serum sodium level</i>                                        |
| <i>SAAG</i> .....     | <i>Serum ascites albumin gradient</i>                            |
| <i>SMV</i> .....      | <i>Superior mesenteric vein</i>                                  |

## *List of Abbreviations (cont...)*

| <b>Abb.</b>                          | <b>Full term</b>                                     |
|--------------------------------------|------------------------------------------------------|
| <i>SPSS</i> .....                    | <i>Statistical Package for Social Science</i>        |
| <i>SV</i> .....                      | <i>Splenic vein</i>                                  |
| <i>TIPS</i> .....                    | <i>Transjugular intrahepatic portosystemic shunt</i> |
| <i>TLRs</i> .....                    | <i>Toll like receptors</i>                           |
| <i>TNF-<math>\alpha</math></i> ..... | <i>Tumor necrosis factor-<math>\alpha</math></i>     |
| <i>U/S</i> .....                     | <i>Ultrasound</i>                                    |
| <i>VCI</i> .....                     | <i>Vena cava inferior</i>                            |
| <i>VT</i> .....                      | <i>Vein thrombosis</i>                               |
| <i>WBC</i> .....                     | <i>White blood cells</i>                             |