

CASE REPORT

doi: 10.5555/medarch.2023.77.314-318

MED ARCH. 2023; 77(4): 314-318

RECEIVED: JUN 12, 2023

ACCEPTED: AUG 04, 2023

¹Departments of General Surgery King Fahd University Hospital, Dammam, Saudi Arabia

²College of Medicine, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

Corresponding author: Arwa Hanafie M. Ibrahim (M885), Department of General Surgery, King Fahd University Hospital, Dammam, Saudi Arabia. E-mail: arwa.ibrahim95@hotmail.com, ORCID ID: <http://www.ovid.org/0000-0000-0000-0000>

Giant Sclerosing Hepatic Hemangioma Presenting as Bornman-Terblanche-Blumgart Syndrome: a Case Report and Review of the Literature

Arwa H. Ibrahim¹, Dhuha N. Boumarah¹, Arwa A. AlGhamdi², Shadi A. Alshammary^{1,2}

ABSTRACT

Background: Hepatic hemangioma represents the most frequent benign tumor originating from the liver. When the tumor exceeds 10 cm, and in some studies 4 or 5 cm, it is considered giant, which accounts for 10% of all hemangiomas arising from the liver. Histologically, Sclerosing hepatic hemangioma, in particular, is an exceedingly rare subtype of hemangioma. Clinically Bornman-Terblanche-Blumgart syndrome is a very rare complication of hepatic hemangioma. **Objective:** The aim of this case presentation was to contribute to the literature by documenting a case of giant sclerosing hemangioma diagnosed in a 36-year-old female presenting with Bornman-Terblanche-Blumgart syndrome, along with a brief review of the literature. **Case report:** The current paper documents two rare clinical and histological features of hepatic hemangioma. Bornman-Terblanche-Blumgart syndrome is complicated a giant hepatic hemangioma found histologically to be sclerosing in nature. Knowledge about the uncommon complications of liver hemangioma permits the implementation of appropriate interventions in a timely manner and, in turn, can enhance the patient's quality of life and minimize rates of associated mortality.

Keywords: Giant Sclerosing Hepatic Hemangioma.

1. BACKGROUND

Hepatic hemangioma represents the most frequent benign tumor originating from the liver. It is formed by clusters of vascular malformations and drives its blood supply from the hepatic artery (1, 2). The prevalence of liver hemangioma has been estimated to reach 20% in autopsy studies (3). When the tumor exceeds 10 cm, and in some studies 4 or 5 cm, it is considered giant, accounting for 10% of all hemangiomas arising from the liver (2, 4, 5). These lesions are usually asymptomatic and present in a solitary pattern (5). Sclerosing hepatic hemangioma, in particular, is an exceedingly rare subtype of hemangioma characterized by the presence of degenerative changes histologically (6). To date, few reports have been published to comprehensively address the clinical features of this uncommon condition.

Bornman-Terblanche-Blumgart syndrome, a triad of abdominal pain and fever with unremarkable laboratory values, is a rare complication of hepatic hemangioma. These syndromic clinical features are recognized as a valid indicator of an ongoing inflammatory process within the hemangioma cavity (7). Although rare, the entity remains clinically significant as it possesses several diagnostic challenges and mandates surgical intervention (8). Herein, we contribute to the literature by documenting a case of giant sclerosing hemangioma diagnosed in a 36-year-old female presenting with Bornman-Terblanche-Blumgart syndrome, along with a brief review of the literature.

2. OBJECTIVE

The aim of this case presentation was to contribute to the literature by documenting a case of giant sclerosing hemangioma diagnosed in a 36-year-old female presenting with Bornman-Terblanche-Blumgart syndrome, along with a brief review of the literature. The present case was reported in accordance with the SCARE guidelines (9).

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Blumgart

William R. Jarnagin



Blumgart:

Blumgart's Surgery of the Liver, Pancreas and Biliary Tract E-Book William R. Jarnagin, 2016-10-10 Extensively revised with new illustrations new clinical photos this classic text remains the most comprehensive and up to date resource on surgery of the hepatobiliary and pancreatic region Dr William Jarnagin and his team of internationally recognized surgeons continue the Blumgart's tradition of excellence bringing you the latest advances in diagnostic and surgical techniques You'll find updates on the newest minimally invasive surgeries new interventional diagnostic techniques and complete coverage of all relevant diseases including those seen in the tropics Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform your clinical decision making Covers exactly what you need to know balancing basic science with information on clinical practice Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in a single comprehensive reference Covers the most recent non surgical therapies for pancreatic cancer microwave ablation and other emerging technologies Brings you up to date with recent developments in transplantation minimally invasive surgery percutaneous devices pre and post care blood transfusion and surgical techniques for the spleen Features an extensively revised art and illustration program with new anatomical line drawings including hundreds now in color more than 750 new clinical photos more schematic diagrams that summarize information and new graphs and algorithms throughout

Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 2-Volume Set - E-Book William R. Jarnagin, 2022-09-13 Balancing basic science with information on everyday clinical practice Blumgart's Surgery of the Liver Biliary Tract and Pancreas 7th Edition provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care In two convenient volumes Dr William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know including advances in diagnostic and surgical techniques minimally invasive surgeries new interventional diagnostic techniques and all relevant diseases This comprehensive practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time curtail costs and reduce overall recovery time for your patients Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in one highly regarded authoritative reference Covers all surgical approaches both open and minimally invasive Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform clinical decision making Contains 161 chapters with updated references and additional figures more than 1 500 illustrations in all The imaging section has been reorganized to reflect a disease based approach Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases perioperative management interventional techniques minimally invasive surgery and robotics and therapeutic advances for malignant disease Features a section dedicated entirely to operative technique plus a new historical chapter authored by Professor Jacques Belghitti

Hepatobiliary and Pancreatic Surgery Historical Perspective *Comparison of the modified Blumgart mattress vs. interrupted suture pancreaticojejunostomy in minimally invasive pancreaticoduodenectomy* Sung Hoon Choi, Kristine Kuchta, Pierce Paterakos, Aram Rojas, Syed Abbas Mehdi, Mark S. Talamonti, Melissa E. Hogg, 2023-08-09 Aim The modified Blumgart mattress BM and conventional interrupted suture IS methods are currently the most widely adopted pancreaticojejunostomy PJ techniques utilized during minimally invasive pancreaticoduodenectomy MIPD This study aimed to evaluate the postoperative outcomes between the two PJ techniques using robotic and laparoscopic approaches Methods This was a retrospective study involving patients who underwent robotic or laparoscopic pancreaticoduodenectomy PD performed by two surgeons from two institutions Surgical outcomes of the patients were compared according to the PJ techniques of robotic BM Rob BM robotic IS Rob IS and laparoscopic IS Lap IS which were further analyzed among patients who had a soft pancreas and small pancreatic duct while those with pancreatic ductal adenocarcinoma were excluded from the study Results A total of 230 patients underwent MIPD with 63 Rob BM 48 Rob IS and 119 Lap IS for PJ Within the study population clinically relevant postoperative pancreatic fistula CR POPF rates were comparable between Rob BM and Rob IS 6.3% vs 10.4% P 0.283 and between Rob IS and Lap IS 10.4% vs 7.6% P 0.661 Comparing patients with soft pancreas and small pancreatic duct CR POPF rates were not statistically different among the groups 16.0% Rob BM vs 10.5% Rob IS P 0.055 and 10.5% Rob IS vs 10.1% Lap IS P 0.543 In the multivariable analysis for risk factors of POPF soft pancreatic textures and periampullary pathology other than pancreatic cancer were found to be risk factors Conclusion POPF rates after MIPD were not different according to the PJ methods of BM and IS when performed by skilled surgeons **Blumgart's Video Atlas: Liver, Biliary & Pancreatic Surgery E-Book** Carlos Corvera, 2020-01-10 During his years at Memorial Sloan Kettering Cancer Center Dr Leslie H Blumgart developed an extensive video library of high quality narrated and captioned video of his personal techniques used to train surgeons worldwide These videos present history radiologic evidence and operative procedures from major and minor resectional procedures to biliary and pancreatic anastomotic techniques Blumgart's Video Atlas Liver Biliary Pancreatic Surgery 2nd Edition compiles these outstanding videos along with laparoscopic alternatives to these landmark surgeries from Dr Carlos U Corvera into one outstanding multimedia resource that brings you fully up to date with innovative and advanced techniques in hepatobiliary and pancreatic surgery Covers diseases of the liver biliary tract and pancreas both in print and on more than 120 videos Offers step by step discussion of open surgical procedures by world renowned surgeon Dr Les Blumgart allowing you to see clearly how an expert handles a difficult case Includes an expanded number of minimally invasive laparoscopic techniques for the management of liver disease and pancreatic tumors contributed by Dr Carlos Corvera Features a new chapter on laparoscopic hepatectomy techniques as well as several new videos that showcase totally laparoscopic approaches to major hepatectomy and the benefits of a hand assisted laparoscopic approach Details recent advances in laparoscopic liver and pancreatic surgery modifications to open right hepatectomy a

bottom up approach right hepatectomy for donor liver transplant and management of rare complications of gallstones disease Includes both conceptual and imaging anatomy in print including new cadaver dissections allowing you to better understand surgeries preoperatively and consider the impact of anatomy and disease on the surgical procedure

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web followed when building the content of sets and the practice the steps outlined below are appropriate for the sets and how those sets fit into the total time frame of a training session will be suggested four usrpt sets for four sessions and two sets per session for the remainder if the swimmers are judged to be adapting well increase

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web usrpt set per session 9 years four sessions per week emphasizing fun and technique two usrpt sets for two sessions and one for each of the other two sessions 10 years five sessions per week emphasizing skills technique and fun two usrpt sets for two sessions and one for each of the other three sessions

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