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Study of factors contributing to Persistent thrombocytopenia following Liver transplantation

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Thrombocytopenia is one of the common features of advanced liver cirrhosis. Liver transplantation is the only treatment for end stage liver disease, but even after transplantation thrombocytopenia is frequent. The aim of this study was to monitor platelets count and to identify factors contributing to persistence of thrombocytopenia following liver transplantation. The study included 36 patients who underwent LDLT in Ain Shams Center of Organ Transplantation (ASCOT) in one year (2013). Preoperative platelet count was recorded. Following transplantation, platelets count was recorded daily for the first two weeks, then at one month, 3 months, 6 months and 12 months. Splenic size and portal venous blood flow was measured at the same intervals by Doppler ultrasound. Thrombopoietin was measured before surgery then at 2 weeks and 6 months following transplantation. Persistent thrombocytopenia was defined as a platelet count less than $150 \times 10^9/L$ at one year post-transplantation. At the end of the study, 56% of patients had persistent thrombocytopenia at 1 year. Factors that showed significant correlation with persistent thrombocytopenia were lower preoperative platelet count, lower preoperative portal vein flow velocity, greater preoperative spleen size, higher GRWR and longer operative time. Highest sensitivity was found for preoperative portal flow velocity and highest specificity was to GRWR. HCV recurrence, rejection episodes, CMV infection, biliary and vascular complications post operative were not independent factors for persistent thrombocytopenia.

Biography

Tari George is currently working as an Assistant Lecturer in Ain Shams University in the department of Gastroenterology and Hepatology. Graduated from faculty of medicine, Ain Shams University in 2006 with honors, she worked as a resident in Ain Shams University hospitals till 2012 then promoted to Assistant lecturer in the same university in 2013. She completed her Master's degree in 2011 with honors with a research on the "Hemostatic changes in liver cirrhosis". She completed 2 parts of the MRCP certificate in Internal medicine, and completed first part of the MD and a thesis on "Factors affecting platelet count after liver transplantation", and preparing for the final part of the MD. She took part in the endoscopy training in association with Hull University in UK and is currently in the Ain Shams University center for endoscopy.

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