ORIGINAL SCIENTIFIC REPORT



Cost-Effective Surgical Management of Liver Disease Amidst a Financial Crisis

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Published online: 25 February 2016 © Société Internationale de Chirurgie 2016

Abstract

Background Intraoperative use of specialized equipment and disposables contributes to the increasing cost of modern liver surgery. As a response to the recent severe financial crisis in our country we have employed a highly standardized protocol of liver resection that minimizes intraoperative and postoperative costs. Our goal is to evaluate cost-effectiveness of this protocol.

Study design: We evaluated retrospectively all patients who underwent open hepatic resections for 4 years. All resections were performed by the same surgical team under selective hepatic vascular exclusion, i.e., occlusion of the hepatoduodenal ligament and the major hepatic veins, occasionally combined with extrahepatic ligation of the ipsilateral portal vein. Sharp parenchymal transection was performed with a scalpel and hemostasis was achieved with sutures without the use of energy devices. In each case we performed a detailed analysis of costs and surgical outcomes.

Results Our cohort included 146 patients (median age 63 years). 113 patients were operated for primary or metastatic malignancies and 33 for benign lesions. Operating time was $121 \pm 21 \text{ min (mean} \pm \text{SD)}$, estimated blood loss was $310 \pm 159 \text{ ml}$ (mean $\pm \text{SD}$), and hospital stay was $7 \pm 5 \text{ days}$ (mean $\pm \text{SD}$). Six patients required admission in the ICU postoperatively. 90-day mortality was 2.74 %, and 8.9 % of patients developed grade III/IV postoperative complications (Clavien–Dindo classification). Total in-hospital cost excluding physician fees was $6987.63 \pm 3838.51 \text{ USD}$ (mean $\pm \text{SD}$).

Conclusions Our analysis suggests that, under pressing economic conditions, the proposed surgical protocol can significantly lessen the financial burden of liver surgery without compromising patient outcomes.

Introduction

Liver resection has been the basic curative treatment for the majority of hepatobiliary malignant and occasionally benign tumors. Advances in surgical techniques and perioperative management have led to an important drop in mortality rates to less than 5 % in major specialized centers. [1]. The application of minimally invasive techniques, including laparoscopic and robotic hepatectomies has been gaining ground and major case series are reporting improvements in postoperative morbidity and length of stay, but on a higher cost [2, 3]. Even in the open approach for resection of hepatic lesions, intraoperative use of specialized equipment and disposables contributes to increased costs. The financial impact of modern liver surgery raises obstacles in its application in countries that struggle financially and apply health budget cuts.



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