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Randomized Controlled Trial

Metalloproteinase expression after desflurane preconditioning in hepatectomies. A randomized clinical trial.

Desflurane preconditioning in hepatectomies.

Abstract

BACKGROUND

Hepatectomy with inflow occlusion results in ischemia-reperfusion injury; however, pharmacological preconditioning can prevent such injury and optimize the postoperative recovery of hepatectomized patients. The normal inflammatory response after a hepatectomy involves increased expression of metalloproteinases, which may signal pathologic hepatic tissue reformation.

AIM

To investigate the effect of desflurane preconditioning on these inflammatory indices in patients with inflow occlusion undergoing hepatectomy.

METHODS

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The goal of the investigator's study was to investigate the effect of **desflurane preconditioning** in patients undergoing elective hepatectomy of at least two segments. Patients were **randomized** 1:1 to receive pharmacological **preconditioning** (**Desflurane** Group, Group D) or not (Control Group, Group C).

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The results of our study showed better postoperative hepatic and renal function test with **desflurane** than sevoflurane at equivalent dose of 1 MAC in living donors undergoing right hepatectomy, but further study is required to evaluate **clinical** importance.

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Arkadopoulos N, Kostopanagiotou G, Theodoraki K, et al. Ischemic **preconditioning** confers antiapoptotic protection during major **hepatectomies** performed under combined inflow and outflow exclusion of the liver. **A randomized clinical trial**. World Journal of Surgery. 2009; 33 (9):1909–1915.