

# How to relieve the pain effectively after laparoscopic cholecystectomy?

December 22 2009

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Fibrin sealant has been an extremely effective and widely used adjunct to surgical procedures to control diffuse slow bleeding over large surfaces. In addition, fibrin sealant has been used as a carrier for other compounds. Thus, it has been used to release medicines slowly at a fixed site and is therefore effective for a long time.

A study led by Jian-Zhu Fu from the Department of General Surgery, Beijing Tongren Hospital, Capital Medical University, has recently been published on December 14, 2009 in the *World Journal of Gastroenterology*.

Pain after LC includes three components, visceral, parietal, and shoulder pain. This study concluded that implanting fibrin sealant combined with ropivacaine in the [gallbladder](#) bed is effective in controlling both visceral and shoulder pain after LC.

**More information:** Fu JZ, Li J, Yu ZL. Effect of implanting fibrin sealant with ropivacaine on pain after laparoscopic cholecystectomy. *World J Gastroenterol* 2009; 15(46): 5851-5854, [www.wjgnet.com/1007-9327/15/5851.asp](http://www.wjgnet.com/1007-9327/15/5851.asp)

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