

**Laparoscopic incisional hernia repair by lightweight polypropylene mesh with resorbable coating. Technical notes, preliminary results**

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**Abstract**

Laparoscopic repair of ventral hernias has gained popularity, since many studies have reported encouraging results. The choice of the mesh and fixation methods are crucial issues in preventing complications and recurrence. 30 laparoscopic ventral hernia repair performed consecutively in 28 patients (11 males, 17 females) for different kinds of incisional hernias from February 2011 to June 2012 were prospectively evaluated. All patients received total laparoscopic incisional hernia repair by the use of the new lightweight polypropylene mesh with resorbable coating (Physiomesh™, Ethicon Endo-Surgery, Johnson & Johnson, Inc.). No major postoperative complications were reported. Two recurrences were diagnosed after 5 months from the first repair. Both patients received laparoscopic repair by the same kind of mesh. Lightweight polypropylene mesh with resorbable coating, with its properties of easy positioning and bio-compatibility, represents an innovation in laparoscopic incisional hernia repair, and should be considered for clinical intra-operative as well as long term evaluations.

**Key words:** incisional hernia, laparoscopy, polypropylene mesh

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