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MEETING ABSTRACT

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The extraperitoneal prosthetic repair of abdominal wall defects in the elderly

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Background

One of the most debated topics in the surgery of the abdominal wall hernias is the type and location of the prosthesis and even the employment of prosthetic materials for some authors is an object of discussion [1,2]. The aim of this work is to present the experience of a specialized center in abdominal wall surgery, showing the results of open extraperitoneal prosthetic repair of the abdominal wall defects in the elderly.

Matherials and methods

We retrospectively analyzed the 75 patients >65 years old admitted to our Center with a diagnosis of Incisional, Epigastric, Umbilical, Lumbar, and Spigelian hernia between January 1994 and January 2009. They were 38 males and 37 females. The diagnosis was: umbilical hernias in 6 patients, epigastric hernias in 9 patients, Spigelian hernias in 4 patients and incisional hernias in 57 patients. The comorbidities and the dimension of the defects are summarised in Figure 1 Table 1. In 42 patients we used a double-layered polipropilene mesh, in 27 a simple plug and in 4 cases a mono-layered polipropilene mesh and in 2 cases a dual-mesh. In 37 cases the mesh was placed in preperitoneal position, in 37 in premuscolar and in 2 cases in intraperitoneal. In 53 cases the surgical procedure was completed under local anaesthesia, in 22 (all incisional hernias) under general anaesthesia, no patients under spinal anaesthesia.

Results

We observed in group 6 under local anaesthesia intraoperative minor complications. Four patients referred little intraoperative pain and one medium pain. In 33 cases the

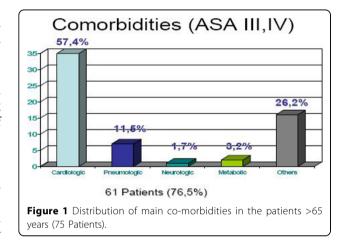


Table 1 Distribution of patients in relation to hernia's defect (size in cm.)

Size of hernias defect	< 5 cm	5-10 cm	>10 cm
N of Patients	40	25	10

patient was discharged within 24 hours (Day Surgery). We observed no postoperative complications. In our follow-up (12-180 months) we found 3 recurrences among the incisional hernias (5,2%), Figure 2 and 3.

Conclusions

The open extraperitoneal approach by using a polipropilene double layer mesh is in our experience the preferred technique; it almost always permits surgical repair to be carried out under local anaesthesia very often in Day Surgery [3], giving excellent long-term results and minor complications.

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Figure 2 Epigastric Incisional hernias

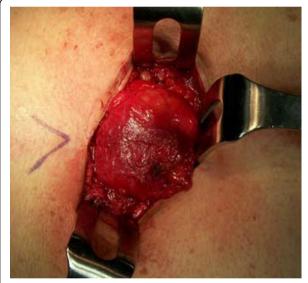


Figure 3 Extraperitoneal repair with double-layered Polipropilene mesh

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