COUSIN SURGERY

EARLY RESULTS OF COMPARISON OF POLYPROPYLENE MESH AND 75% RESORBABLE MESH (MONOFILAMENT POLYPROPYLENE AND POLY-L-LACTIC ACID (PLLA) MESH) FOR LAPAROSCOPIC TOTAL EXTRAPERITONEAL (TEP) INGUINAL HERNIA REPAIR

Polypropylene (PP) patches are the most frequently preferred products.

However, **chronic pain** and **feel of a foreign object** are among the **adverse effects** of this kind of patch after the surgery.

Experimental studies showed that patches which are combined with **poly-L-lactic acid (PLLA)** are a good alternative to non-absorbent patches because of **less inflammation response, biocompatible nature** and lower relapse potential.

In this study, we aimed to **compare the differences between the use of PP patch and PLLA patch regarding early period clinic results** after a unilateral hernia repair surgery carried out with the method of laparoscopic total extraperitoneal.

Retrospective study

Agca et al., 2019, North clinical Istanbul

1 center

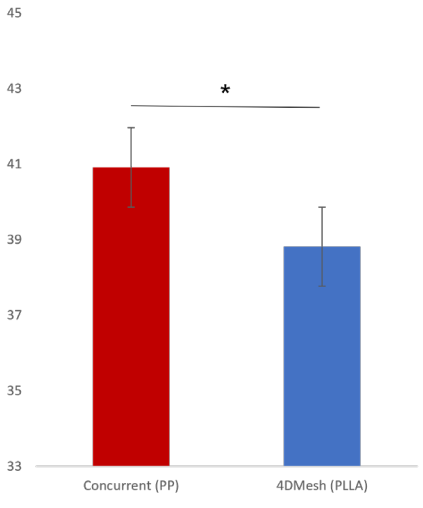
469 patients
PP Mesh n=211
PLLA Mesh n=258

Follow up duration:
18 months

♂ 426 ♀ 43

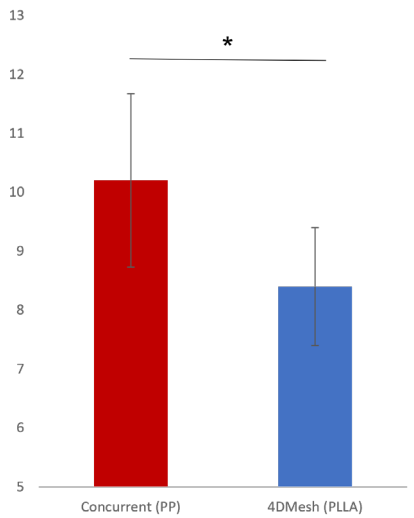
RESULTS

Mean operative time (in minutes)



* Significative difference between the two groups P<0,05

Time to return to work (in days)



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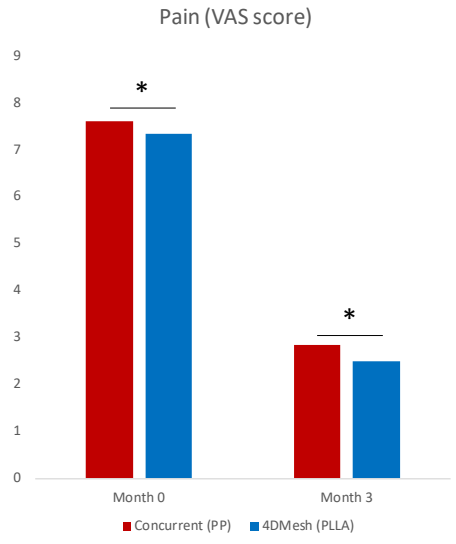

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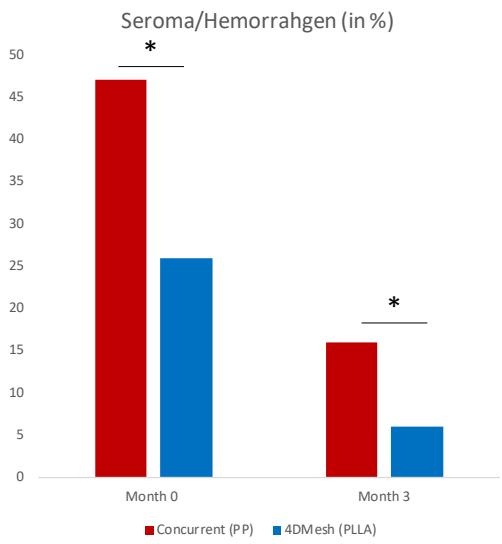

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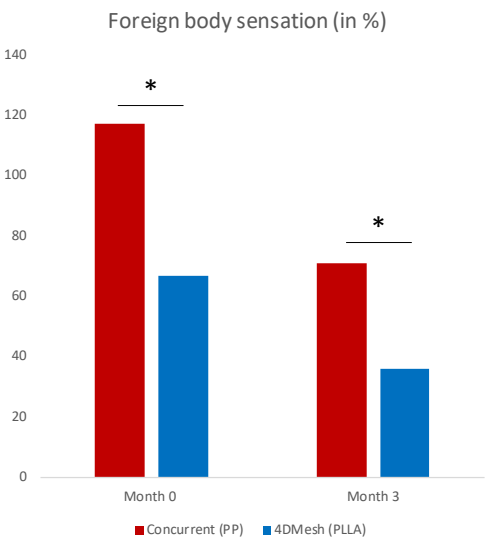

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CONCLUSION

The PLLA patch (**4DMesh**, Cousin Biotech) used in the TEP method is thought to be herniated patch that can be safely used because of its ease of application and less postoperative complication rates and more rapid return to work.

ADVANTAGES OF 4DMESH® (PLLA) COMPARED TO POLYPROPYLENE MESH

- Causes less pain
- Less seroma development and foreign object feel
- Gets people back to work faster
- Less postoperative complication rates

TAPP/TEP

Flap		4DMESH RABA	Pre-cut mesh with flap 11 x 14
Precut		4DMESH 1215	Oval mesh 12 x 15
		4DMESH 1317	Oval mesh 13 x 17
		4DMESH 1216	Pre-cut mesh 12 x 16,5
		4DMESH 1717	Mesh 17 x 17
Anatomical		4DMESH PRSR	Right pre-shaped mesh 10,5 x 14
		4DMESH PRSL	Left pre-shaped mesh 10,5 x 14
		4DMESH PRLR	Right pre-shaped mesh 12 x 15
		4DMESH PRLL	Left pre-shaped mesh 12 x 15
		4DMESH PRXR	Right pre-shaped mesh 12 x 17
		4DMESH PRXL	Left pre-shaped mesh 12 x 17

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