# 学 位 論 文 の 要 旨

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主論文の題名

Lymphaticovenular anastomoses training model for multiple stages of lymphedema by using efferent lymphatic plexus of the mesenteric lymph node of rats

主論文の要旨

Background

Regarding with Lymphaticovenular anastomosis (LVA) training models, only few including both various sizes of lymphatic vessels and lymphatic dissection. We report the establishment of a novel LVA training model using the rat efferent lymphatic plexus of the mesenteric lymph node.

Materials and methods

Lymphatic vessels in the efferent lymphatic plexus of the mesenteric lymph node and mesenteric veins of 10 male Wistar rats were used for LVA using 12-0 nylon suture in an end-to-end fashion. Postoperative patency was evaluated with indigo carmine blue. Diameters of lymphatic vessels in the plexus and recipient veins were measured.

Results

The mean number of lymphatic vessels included in efferent lymphatic plexus of the mesenteric lymph nodes was 7.5 (range, 5 – 11) and the mean diameter of the lymphatic vessels was 0.34 mm (range, 0.1 – 1.2 mm). The mean diameter of lymphatic vessels used for LVA was 0.46 mm (range, 0.25 –0.7 mm). The mean diameter of the recipient veins was 0.49 mm (range, 0.35 – 0.7 mm). The postoperative patency rate after LVA was 100% (10/10).

Conclusion

We reported the establishment of LVA model involving the use of the efferent lymphatic plexus of the mesenteric lymph node and mesenteric veins in rats.