

Literatur zum Artikel

Chirurgie des sekundären Lymphödems im Stresstest von Evidenz, Konsens und Hype

1. Johnston MG, Elias R (1987) The regulation of lymphatic pumping. *Lymphology* 20: 215–218
2. Jorgensen MG, Toyserkani NM, Sorensen JA (2017) The effect of prophylactic lymphovenous anastomosis and shunts for preventing cancer-related lymphedema: a systematic review and meta-analysis. *Microsurgery*. doi: 10.1002/micr.30180 [Epub ahead of print]
3. Olszewski WL (2003) Pathophysiological aspects of lymphedema of human limbs: I. Lymph protein composition. *Lymphatic Res Biol* 1: 235–243
4. Olszewski WL (2012) The pathophysiology of lymphedema – 2012. *Handchir Mikrochir Plast Chir* 44: 322–328
5. Olszewski WL, Jamal S, Manokaran G, et al (1998) Lymph cytokines in obstructive lymphedema: a sign of chronic inflammatory reaction. *Lymphology* 31: 126–131
6. Scaffidi M, Vulpiani MC, Vetrano M, et al (2012) Early rehabilitation reduces the onset of complications in the upper limb following breast cancer surgery. *Eur J Phys Rehabil Med* 48: 601–611
7. Yen TW, Laud PW, Sparapani RA, et al (2015) An algorithm to identify the development of lymphedema after breast cancer treatment. *J Cancer Surviv* 9: 161–171
8. Zhu YQ, Xie YH, Liu FH, et al (2014) Systemic analysis on risk factors for breast cancer related lymphedema. *Asian Pac J Cancer Prev* 15: 6535–6541
9. Szczesny G, Olszewski WL (2003) The pathomechanism of posttraumatic edema of the lower limbs: II – changes in the lymphatic system. *J Trauma* 55: 350–354
10. Johnston MG (1987) Interaction of inflammatory mediators with the lymphatic vessel. *Pathol Immunopathol Res* 6: 177–189
11. S2k-Leitlinie „Diagnostik und Therapie des Lymphödems“ AWMF Reg.-Nr. 058-001. awmf.org
12. Moffatt CJ, Franks PJ, Doherty DC, et al (2003) Lymphoedema: an underestimated health problem. *QJM* 96: 731–738
13. Borup Christensen S, Lundgren E (1989) Sequelae of axillary dissection vs. axillary sampling with or without irradiation for breast cancer. A randomized trial. *Acta Chir Scand* 155: 515–519
14. Hirche C, Mohr Z, Kneif S, et al (2010) The role of nodal staging in breast cancer. Past, present and future. *Minerva Chir* 2010; 65: 537–546
15. Langer I, Guller U, Berclaz G, et al (2007) Morbidity of sentinel lymph node biopsy (SLN) alone versus SLN and completion axillary lymph node dissection after breast cancer surgery: a prospective Swiss multicenter study on 659 patients. *Ann Surg* 245: 452–461
16. Ozcinar B, Guler SA, Kocaman N, et al (2012) Breast cancer related lymphedema in patients with different loco-regional treatments. *Breast* 21: 361–365
17. De Groef A, Van Kampen M, Tieto E, et al (2016) Arm lymphoedema and upper limb impairments in sentinel node-negative breast cancer patients: a one year follow-up study. *Breast* 29: 102–108
18. Hirche C, Murawa D, Mohr Z, et al (2010) ICG fluorescence-guided sentinel node biopsy for axillary nodal staging in breast cancer. *Breast cancer Res Treat* 121: 373–378
19. Mohr Z, Hirche C, Gretschel S, Bembenek A (2011) Risikofaktoren für Lymphfisteln nach ilioinguinaler Lymphadenektomie im Rahmen einer isolierten Extremitätenperfusion und deren potenzielle klinische Relevanz. *Zentralbl Chir* 136: 386–390
20. Todo Y, Yamazaki H, Takeshita S, et al (2015) Close relationship between removal of circumflex iliac nodes to distal external iliac nodes and postoperative lower-extremity lymphedema in uterine corpus malignant tumors. *Gynecol Oncol* 139: 160–164
21. Yamazaki H, Todo Y, Takeshita S, et al (2015) Relationship between removal of circumflex iliac nodes distal to the external iliac nodes and postoperative lower-extremity lymphedema in uterine cervical cancer. *Gynecol Oncol* 139: 295–299
22. Földi M (1980) Lymphödem des Arms nach Mastektomie. *Fortschr Med* 98: 672–678
23. Zimmermann A, Wozniowski M, Szklarska A, et al (2012) Efficacy of manual lymphatic drainage in preventing secondary lymphedema after breast cancer surgery. *Lymphology* 45: 103–112
24. Baumeister RG, Mayo W, Notohamiprodjo M, et al (2016) Microsurgical lymphatic vessel transplantation. *J Reconstr Microsurg* 32: 34–41
25. Chang DW (2012) Lymphaticovenular bypass surgery for lymphedema management in breast cancer patients. *Handchir Mikrochir Plast Chir* 44: 343–347
26. Cheng MH, Chen SC, Henry SL, et al (2013) Vascularized groin lymph node flap transfer for postmastectomy upper limb lymphedema: flap anatomy, recipient sites, and outcomes. *Plast Reconstr Surg* 131: 1286–1298
27. Garza RM, Chang DW (2018) Lymphovenous bypass for the treatment of lymphedema. *J Surg Oncol* 118: 743–749
28. Nguyen AT, Chang EI, Suami H, et al (2015) An algorithmic approach to simultaneous vascularized lymph node transfer with microvascular breast reconstruction. *Ann Surg Oncol* 22: 2919–2924
29. Saaristo AM, Niemi TS, Viitanen TP, et al (2012) Microvascular breast reconstruction and lymph node transfer for postmastectomy lymphedema patients. *Ann Surg* 255: 468–473
30. Campisi C, Boccardo F (2003) Vein graft interposition in treating peripheral lymphoedemas. *Handchir Mikrochir Plast Chir* 35: 221–224
31. O'Brien BMC, Mellow CG, Khazanchi RK, et al (1990) Long-term results after microlymphaticovenous anastomoses for the treatment of obstructive lymphedema. *Plast Reconstr Surg* 85: 562–572
32. Hirche C, Engel H, Seidenstücker K, et al (2019) Rekonstruktive Mikrochirurgie des sekundären Lymphödems: Konsensus der Deutschsprachigen Arbeitsgemeinschaft für Mikrochirurgie der peripheren Nerven und Gefäße (DAM) zur Indikation, Diagnostik und Therapie mittels Lymphovenöser Anastomosen (LVA) und vaskularisierter Lymphknotentransplantation (VLKT). *Handchir Mikrochir Plast Chir* 2019 (akzeptiert)
33. Brorson H (2012) From lymph to fat: liposuction as a treatment for complete reduction of lymphedema. *Int J Lower Extrem Wounds* 11: 10–19
34. Brorson H (2016) Liposuction in lymphedema treatment. *J Reconstr Microsurg* 32: 56–65
35. Mihara M, Hara H, Araki J, et al (2012) Indocyanine green (ICG) lymphography is superior to lymphoscintigraphy for diagnostic imaging of early lymphedema of the upper limbs. *PLoS One* 7: e38182
36. Xiong L, Engel H, Gazyakan E, et al (2014) Current techniques for lymphatic imaging: State of the art and future perspectives. *Eur J Surg Oncol* 40: 270–276
37. Yamamoto T, Narushima M, Yoshimatsu H, et al (2014) Dynamic Indocyanine Green (ICG) lymphography for breast cancer-related arm lymphedema. *Ann Plast Surg* 73: 706–709
38. Yamamoto T, Yamamoto N, Doi K, et al (2011) Indocyanine green-enhanced lymphography for upper extremity lymphedema: a novel severity staging system using dermal backflow patterns. *Plast Reconstr Surg* 128: 941–947
39. Devoogdt N, De Groef A, Hendrickx A, et al (2014) Lymphoedema functioning, disability and health questionnaire for lower limb lymphoedema (lymph-ICF-LL): reliability and validity. *Phys Ther* 94: 705–721
40. <https://de.wikipedia.org/wiki/Supermikrochirurgie>
41. Badash I, Gould DJ, Patel KM (2018) Supermicrosurgery: history, applications, training and the future. *Frontiers Surg* 5: 23
42. Gustafsson J, Chu SY, Chan WH, et al (2018) Correlation between quantity of transferred lymph nodes and outcome in vascularized submental lymph node flap transfer for lower limb lymphedema. *Plast Reconstr Surg* 142: 1056–1063
43. Basta MN, Gao LL, Wu LC (2014) Operative treatment of peripheral lymphedema: a systematic meta-analysis of the efficacy and safety of lymphovenous microsurgery and tissue transplantation. *Plast Reconstr Surg* 133: 905–913

44. Dayan JH, Dayan E, Smith ML (2015) Reverse lymphatic mapping: a new technique for maximizing safety in vascularized lymph node transfer. *Plast Reconstr Surg* 135: 277–285
45. Pasko JL, Garreau J, Carl A, et al (2015) Axillary reverse lymphatic mapping reduces patient perceived incidence of lymphedema after axillary dissection in breast cancer. *Am J Surg* 209: 890–895
46. Demiri E, Dionysiou D, Tsimponis A, et al (2018) Donor-site lymphedema following lymph node transfer for breast cancer-related lymphedema: a systematic review of the literature. *Lymphat Res Biol* 16: 2–8
47. Viitanen TP, Maki MT, Seppanen MP, et al (2012) Donor-site lymphatic function after microvascular lymph node transfer. *Plast Reconstr Surg* 130: 1246–1253
48. Coriddi M, Skoracki R, Eiferman D (2017) Vascularized jejunal mesenteric lymph node transfer for treatment of extremity lymphedema. *Microsurgery* 37: 177–178
49. Coriddi M, Wee C, Meyerson J, et al (2017) Vascularized jejunal mesenteric lymph node transfer: a novel surgical treatment for extremity lymphedema. *J Am Coll Surg* 225: 650–657
50. Gilbert A, O'Brien BMCC, Vorrath JW, et al (1976) Lymphaticovenous anastomosis by microvascular technique. *Br J Plast Surg* 29: 355–360
51. Nielubowicz J, Olszewski W (1968) Surgical lymphaticovenous shunts in patients with secondary lymphoedema. *Br J Surg* 55: 440–442
52. Becker C, Assouad J, Riquet M, et al (2006) Postmastectomy lymphedema: long-term results following microsurgical lymph node transplantation. *Ann Surg* 243: 313–315
53. Yamamoto T, Koshima I (2014) A prospective analysis of 100 consecutive lymphovenous bypass cases for treatment of extremity lymphedema. *Plast Reconstr Surg* 133: 887e–888e
54. Engel H, Lin CY, Huang JJ, et al (2018) Outcomes of lymphedema microsurgery for breast cancer-related lymphedema with or without microvascular breast reconstruction. *Ann Surg* 268: 1076–1083