



**Section on Women's Health**  
American Physical Therapy Association

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**LYMPHEDEMA ROUNDTABLE**

COMBINED SECTIONS MEETING 2004  
Opryland, TN  
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7 pages

# *Tribute*

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## **DISCUSSION TOPICS**

- 1. Insurance/Reimbursement Issues**
  - **Physical Therapy Interventions**
  - **Bandages**
  - **Garments**
  
- 2. Outcome Measurements**
  - **Limb Girth**
  - **Volume**
  - **Functional Measurements**
  
- 3. Upper Extremity vs. Lower Extremity Lymphedema**

## LYMPHEDEMA REFERENCES

### CSM 2004

1. Leduc O. Leduc A. Rehabilitation protocol in upper limb lymphedema. *Annali Italiani di Chirurgia*. 73(5):479-84, 2002 Sep-Oct.
2. Piso DU. Eckardt A. Liebermann A. Gutenbrunner C. Schafer P. Gehrke A. Early rehabilitation of head-neck edema after curative surgery for orofacial tumors. *American Journal of Physical Medicine & Rehabilitation*. 80(4):261-9, 2001 Apr.
3. Megens AM. Harris SR. Kim-Sing C. McKenzie DC. Measurement of upper extremity volume in women after axillary dissection for breast cancer. *Archives of Physical Medicine & Rehabilitation*. 82(12):1639-44, 2001 Dec.
4. Fialka-Moser V. Crevenna R. Korpan M. Quittan M. Cancer rehabilitation: particularly with aspects on physical impairments. *Journal of Rehabilitation Medicine*. 35(4):153-62, 2003 Jul.
5. Multilayer bandaging followed by compression hosiery was more effective than hosiery alone in reducing lymphoedema of the limb. *Evidence-Based Nursing*. 4(1):19, January 2001.
6. The tissue trauma team: a multidisciplinary approach to wound and oedema management. *Primary Intention*. 9(1):23-6, 2001 Feb.
7. Carati CJ. Anderson SN. Gannon BJ. Piller NB. Treatment of postmastectomy lymphedema with low-level laser therapy: a double blind, placebo-controlled trial. *Cancer*. 98(6):1114-22, 2003 Sep 15.
8. Oswald TM. Lineaweaver W. Limited segmental resection of symptomatic lower-extremity lymphodystrophic tissue in high-risk patients. *Southern Medical Journal*. 96(7):689-91, 2003 Jul.
9. Woods M. The experience of manual lymph drainage as an aspect of treatment for lymphoedema. *International Journal of Palliative Nursing*. 9(8):336-42; discussion 342, 2003 Aug. Elvarex compression garments in the management of lymphoedema. *British Journal of Nursing*. 12(15):925-6, 928-9, 2003 Aug 14-Sep 10.
10. Brorson, Hakan M.D.. Svensson, Henry M.D., Ph.D.. Liposuction Combined with Controlled Compression Therapy Reduces Arm Lymphedema More Effectively than Controlled Compression Therapy Alone. *Plastic & Reconstructive Surgery*. 102(4):1058-1067, September 1998.
11. Liao SF. Huang MS. Chou YH. Wei TS. Successful complex decongestive physiotherapy for lymphedema and lymphocutaneous reflux of the female external genitalia after radiation therapy. *Journal of the Formosan Medical Association*. 102(6):404-6, 2003 Jun.
12. Kessler T. de Bruin E. Brunner F. Vienne P. Kissling R. Effect of manual lymph drainage after hindfoot operations. *Physiotherapy Research International*. 8(2):101-10, 2003.
13. Koshima I. Nanba Y. Tsutsui T. Takahashi Y. Itoh S. Long-term follow-up after lymphaticovenular anastomosis for lymphedema in the leg. *Journal of Reconstructive Microsurgery*. 19(4):209-15, 2003 May.
14. Ryan M. Stainton MC. Jaconelli C. Watts S. MacKenzie P. Mansberg T. The experience of lower limb lymphedema for women after treatment for gynecologic cancer. *Oncology Nursing Forum*. Online. 30(3):417-23, 2003 May-Jun.

15. Micke O. Bruns F. Mucke R. Schafer U. Glatzel M. DeVries AF. Schonekaes K. Kisters K. Buntzel J. Selenium in the treatment of radiation-associated secondary lymphedema. *International Journal of Radiation Oncology, Biology, Physics*. 56(1):40-9, 2003 May 1.
16. Yamamoto Y. Horiuchi K. Sasaki S. Sekido M. Furukawa H. Oyama A. Yajima K. Sugihara T. Follow-up study of upper limb lymphedema patients treated by microsurgical lymphaticovenous implantation (MLVI) combined with compression therapy. *Microsurgery*. 23(1):21-6, 2003
17. Donachy JE. Christian EL. Physical therapy intervention following surgical treatment of carpal tunnel syndrome in an individual with a history of postmastectomy lymphedema. *Physical Therapy*. 82(10):1009-16, 2002 Oct.
18. Szuba A. Razavi M. Rockson SG. Diagnosis and treatment of concomitant venous obstruction in patients with secondary lymphedema. *Journal of Vascular & Interventional Radiology*. 13(8):799-803, 2002 Aug.
19. Weiss JM. Spray BJ. The effect of complete decongestive therapy on the quality of life of patients with peripheral lymphedema.[see comment]. *Lymphology*. 35(2):46-58, 2002 Jun.
20. Board J. Harlow W. Lymphoedema 3: the available treatments for lymphoedema. *British Journal of Nursing*. 11(7):438-50, 2002 Apr 11-24.
21. Kriederman B. Myloyde T. Bernas M. Lee-Donaldson L. Preciado S. Lynch M. Stea B. Summers P. Witte C. Witte M. Limb volume reduction after physical treatment by compression and/or massage in a rodent model of peripheral lymphedema. *Lymphology*. 35(1):23-7, 2002 Mar.
22. Cornish BH. Thomas BJ. Ward LC. Hirst C. Bunce IH. A new technique for the quantification of peripheral edema with application in both unilateral and bilateral cases. *Angiology*. 53(1):41-7, 2002 Jan-Feb.
23. Howard SB. Krishnagiri S. The use of manual edema mobilization for the reduction of persistent edema in the upper limb. [Review] [62 refs] *Journal of Hand Therapy*. 14(4):291-301, 2001 Oct-Dec.
24. Rymal C. Lymphedema management in patients with lymphoma. [Review] [77 refs] *Nursing Clinics of North America*. 36(4):709-34, vi, 2001 Dec.
25. Miranda F Jr. Perez MC. Castiglioni ML. Juliano Y. Amorim JE. Nakano LC. de Barros N Jr. Lustre WG. Burihan E. Effect of sequential intermittent pneumatic compression on both leg lymphedema volume and on lymph transport as semi-quantitatively evaluated by lymphoscintigraphy. *Lymphology*. 34(3):135-41, 2001 Sep.
26. Cohen SR. Payne DK. Tunkel RS. Lymphedema: strategies for management. [Review] [53 refs] *Cancer*. 92(4 Suppl):980-7, 2001 Aug 15.
27. de Godoy JM. Torres CA. Godoy MF. Self-drainage lymphatic technique. *Angiology*. 52(8):573-4, 2001 Aug.
28. Campisi C. Boccardo F. Zilli A. Maccio A. Napoli F. The use of vein grafts in the treatment of peripheral lymphedemas: long-term results. *Microsurgery*. 21(4):143-7, 2001.
29. Campisi C. Boccardo F. Zilli A. Maccio A. Napoli F. Long-term results after lymphatic-venous anastomoses for the treatment of obstructive lymphedema. *Microsurgery*. 21(4):135-9, 2001.

30. Stanton AW. Svensson WE. Mellor RH. Peters AM. Levick JR. Mortimer PS. Differences in lymph drainage between swollen and non-swollen regions in arms with breast-cancer-related lymphoedema. *Clinical Science*. 101(2):131-40, 2001 Aug.
31. Imran, Danish F.R.C.S.. Mandal, Anirban M.S., F.R.C.S.Ed.. MEASUREMENT OF LYMPHEDEMA USING A SIMPLE DEVICE. *Plastic & Reconstructive Surgery*. 113(1):456-457, January 2004.
32. Dulak, Sally Beattie RN, CNS, MS. Can Diuretics Help Relieve Lymphedema? *RN*. 65(12):72, December 2002.
33. How Lymphedema Complicates Wound Care. *RN*. 64(7):73, July 2001.
34. Davis, Bonnie S. DNS, RN, CS. Lymphedema After Breast Cancer Treatment: Earlier detection and treatment have improved chances of survival. Therefore, screening for lymphedema is an essential part of nursing practice. *AJN, American Journal of Nursing*. 101(4):24AAAA-24DDDD, April 2001.
35. Focus on oncology nursing. Post-treatment lymphedema common in breast Ca patients. *Oncology News International*. 12(1):11, 27, 2003 Jan.
36. Williams AF. Vadgama A. Franks PJ. Mortimer PS. A randomized controlled crossover study of manual lymphatic drainage therapy in women with breast cancer-related lymphoedema. *European Journal of Cancer Care*. 11(4):254-61, 2002 Dec.
37. Chau N. Harris SR. Practices and opinions of physiotherapists treating patients with breast cancer-related lymphedema. *Physiotherapy Canada*. 54(3):156-63, 2002 Summer.
38. Ryan M. Stainton MC. Jaconelli C. Watts S. MacKenzie P. Mansberg T. The experience of lower limb lymphedema for women after treatment for gynecologic cancer. *Oncology Nursing Forum*. 30(3):417-23, 2003 May-Jun.
39. Zuther J. Traditional massage therapy in the treatment and management of lymphedema. *Massage Today*. 2(6):1, 24, 2002 Jun.
40. Neith K. Unwrapping lymphedema: defining and treating a debilitating side effect of treatment. *Mamm*. 2A(2):Special Series No. 5: 18-21, 2002 Summer.
41. Ridner SH. Breast cancer lymphedema: pathophysiology and risk reduction guidelines. *Oncology Nursing Forum*. 29(9):1285-93, 2002 Oct.
42. Henkel G. Lymphedema: awareness increasing, but lack of diagnostic guidelines, treatment controversies, & shortage of therapists impede progress. *Oncology Times*. 24(2):58-60, 62-3, 2002 Feb.
43. Cheville AL. Gergich N. Lymphedema prevention for the acute care therapist. *Acute Care Perspectives*. 11(1):26-9, 31, 2002 Spring.
44. Kanakura Y. Niwa K. Kometani K. Nakazawa K. Yamaguchi Y. Ishikawa H. Watanabe A. Tokunaga Y. Effectiveness of acupuncture and moxibustion treatment for lymphedema following intrapelvic lymph node dissection: a preliminary report. *American Journal of Chinese Medicine*. 30(1):37-43, 2002.
45. Aldridge RL Jr.. Clift J. Effect of manual lymphatic drainage on edema and function in a patient with postmastectomy lymphedema. *Journal of the Section on Women's Health*. 26(1):25-9, 33, 2002 Mar.
46. Sitzia J. Sobrido L. Harlow W. Manual lymphatic drainage compared with simple lymphatic drainage in the treatment of post-mastectomy lymphoedema: a pilot randomised trial. *Physiotherapy*. 88(2):99-107, 2002 Feb.

47. McGovern K. Management of lymphoedema in palliative care. *Nursing & Residential Care*. 3(4):152, 154-6, 186-7, 2001 Apr.
48. Howard SB. Krishnagiri S. The use of manual edema mobilization for the reduction of persistent edema in the upper limb. *Journal of Hand Therapy*. 14(4):291-301, 2001 Oct-Dec.
49. Maclaren J. Factfile. Tissue viability: lymphoedema. *Professional Nurse*. 17(2):93-4, 2001 Oct.
50. Johansson K. Ingvar C. Albertsson M. Ekdahl C. Arm lymphoedema, shoulder mobility and muscle strength after breast cancer treatment -- a prospective 2-year study. *Advances in Physiotherapy*. 3(2):55-66, 2001.
51. Wozniewski M. Jasinski R. Pilch U. Dabrowska G. Complex physical therapy for lymphoedema of the limbs. *Physiotherapy*. 87(5):252-6, 2001 May.
52. Daroczy J. Antiseptic efficacy of local disinfecting povidone-iodine (Betadine) therapy in chronic wounds of lymphedematous patients. *Dermatology*. 204 Suppl 1:75-8, 2002.
53. Sitzia J. Harlow W. Lymphoedema 4: research priorities in lymphoedema care. *British Journal of Nursing*. 11(8):531-41, 2002 Apr 25-May 8.
54. Caban ME. Trends in the evaluation of lymphedema. *Lymphology*. 35(1):28-38, 2002 Mar.
55. Kriederman B. Myloyde T. Bernas M. Lee-Donaldson L. Preciado S. Lynch M. Stea B. Summers P. Witte C. Witte M. Limb volume reduction after physical treatment by compression and/or massage in a rodent model of peripheral lymphedema.[erratum appears in Lymphology 2002 Jun;35(2):96]. *Lymphology*. 35(1):23-7, 2002 Mar.
56. Cornish BH. Thomas BJ. Ward LC. Hirst C. Bunce IH. A new technique for the quantification of peripheral edema with application in both unilateral and bilateral cases. *Angiology*. 53(1):41-7, 2002 Jan-Feb.
57. Mardini, Samir. Chen, Hung-Chi. Chana, Jag. Radical Excision of Lymphedema of the Lower Extremity with Preservation of the Cutaneous Blood Supply Using Microscopic Dissection of the Skin Perforators: A New Method. *Journal of Reconstructive Microsurgery*. 19(7):498-499, 2003.
58. Johnston RV. Anderson JN. Walker BL. Is physiotherapy an effective treatment for lymphoedema secondary to cancer treatment?. *Medical Journal of Australia*. 178(5):236-7, 2003 Mar 3.
59. Tiwari A. Cheng KS. Button M. Myint F. Hamilton G. Differential diagnosis, investigation, and current treatment of lower limb lymphedema. [Review] [114 refs] *Archives of Surgery*. 138(2):152-61, 2003 Feb.
60. McKenzie DC. Kalda AL. Effect of upper extremity exercise on secondary lymphedema in breast cancer patients: a pilot study. *Journal of Clinical Oncology*. 21(3):463-6, 2003 Feb 1.
61. Box RC. Reul-Hirche HM. Bullock-Saxton JE. Furnival CM. Physiotherapy after breast cancer surgery: results of a randomised controlled study to minimise lymphoedema. *Breast Cancer Research & Treatment*. 75(1):51-64, 2002 Sep.
62. Sander AP. Hajer NM. Hemenway K. Miller AC. Upper-extremity volume measurements in women with lymphedema: a comparison of measurements obtained via water displacement with geometrically determined volume. *Physical Therapy*. 82(12):1201-12, 2002 Dec.

63. Szuba A. Achalu R. Rockson SG. Decongestive lymphatic therapy for patients with breast carcinoma-associated lymphedema. A randomized, prospective study of a role for adjunctive intermittent pneumatic compression. *Cancer*. 95(11):2260-7, 2002 Dec 1.
64. de Godoy JM. Batigalia F. Godoy Mde F. Preliminary evaluation of a new, more simplified physiotherapy technique for lymphatic drainage. *Lymphology*. 35(2):91-3, 2002 Jun.
65. Weiss JM. Spray BJ. The effect of complete decongestive therapy on the quality of life of patients with peripheral lymphedema.[see comment]. *Lymphology*. 35(2):46-58, 2002 Jun.
66. Yamamoto Y. Horiuchi K. Sasaki S. Sekido M. Furukawa H. Oyama A. Yajima K. Sugihara T. Follow-up study of upper limb lymphedema patients treated by microsurgical lymphaticovenous implantation (MLVI) combined with compression therapy. *Microsurgery*. 23(1):21-6, 2003.

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