

References for Pathways Winter 2019-2020

DUTCH BEST PRACTICE LYMPHEDEMA GUIDELINES

– by Dr. Robert Damstra

References

1. Damstra RJ, Halk A-B. The Dutch lymphedema guidelines based on the International Classification of Functioning, Disability, and Health and the chronic care model. *Journal of Vascular Surgery: Venous and Lymphatic Disorders*. 2017 Sep;5(5):756–65.
2. Stucki G, Cieza A, Ewert T, Kostanjsek N, Chatterji S, Ustün TB. Application of the International Classification of Functioning, Disability and Health (ICF) in clinical practice. *Disabil Rehabil*. 2002 Mar 20;24(5):281–2.
3. WHO. newsletter WHO-FIC 2011 on ICF. 2011 Aug 7;1–12.
4. Wagner EH. Chronic Disease Management: What Will It Take To Improve Care for Chronic Illness? effective clinical practice. 1998;20(1):2–4.
5. Rundall TG, Shortell SM, Wang MC, Casalino L, Bodenheimer T, Gillies RR, et al. As good as it gets? Chronic care management in nine leading US physician organisations. *BMJ*. 2002 Oct 26;325(7370):958–61.
6. Presser E. Kaiser Permanente – California: A Model for Integrated Care for the Ill and Injured. 2015 May 11;1–7.
7. Barletta V, Profili F, Gini R, Grilli L, Rampichini C, Matarrese D, et al. Impact of Chronic Care Model on diabetes care in Tuscany: a controlled before-after study. *Eur J Public Health*. Oxford University Press; 2017 Feb 1;27(1):8–13.
8. NIVEL. Ontwikkelingen zorg chronisch zieken 2012. 2012 Oct 30:1–102.
9. Huber M, Knottnerus JA, Green L, van der Horst H, Jadad AR, Kromhout D, et al. How should we define health? *BMJ*. 2011;343:d4163.
10. Tambour M, Holt M, Speyer A, Christensen R, Gram B. Manual lymphatic drainage adds no further volume reduction to Complete Decongestive Therapy on breast cancer-related lymphoedema: a multicentre, randomised, single-blind trial. *Br J Cancer*. Nature Publishing Group; 2018 Oct 24;36(12 Suppl):1–1222.
11. Devoogdt N, De Groef A, Hendrickx A, DAMSTRA R, Christiaansen A, Geraerts I, et al. Lymphoedema Functioning, Disability and Health Questionnaire for Lower Limb Lymphoedema (Lymph-ICF-LL): reliability and validity. *Physical therapy*. 2014 May;94(5):705–21.
12. Devoogdt N, Van Kampen M, Geraerts I, Coremans T, Christiaens M-R. Lymphoedema Functioning, Disability and Health Questionnaire (Lymph-ICF): Reliability and Validity. *Physical therapy*. 2011 Apr 14;91(6):944–57.

Robert J. Damstra works since 1992 as dermatologist at the Nij Smellinghe hospital Drachten (Netherlands) in a team with 6 dermatologists, 2 surgeons and many paramedical specialists.

In 2009 he obtained his PhD with the thesis “diagnostic and therapeutical aspects of lymphedema” at Maastricht University (Prof. Dr. P. Steijlen).

In 2005 he founded the Dutch expert center for lympho-vascular diseases (ECL) which expanded to a center with annual 500 new tertiary referrals, an outpatient clinic which thousands of patients, a clinical department for 12 patients providing both interdisciplinary diagnostics, operative and conservative treatments. He was chair of the first (2003) and second (2014) Dutch guideline working group on lymphedema. In 2023 the third guideline is planned.

In 2015 the ECL Drachten is recognized by the ministry of health as national expert center for primary and pediatric lymphedema. The ECL became member of the European Reference Network (ERN) in the VASERN-group (See www.vascern.eu). He is chair of the primary and pediatric working group (PPL-WG). Together with expert centers all over Europe they cooperate to enhance crossborder healthcare, improve quality of care and provide information for patients in Europe. Multicenter research is planned.

A NEW PARADIGM FOR DIAGNOSIS & TREATMENT OF EDEMAS

– by Heather Hettrick and Robyn Bjork

References

1. Mortimer PS, Rockson SG. New developments in clinical aspects of lymphatic disease. *The Journal of clinical investigation.* 2014 Mar 3;124(3):915-21.
2. Bjork R, and Hettrick H. Endothelial glycocalyx layer and interdependence of lymphatic and integumentary systems. *Wounds International.* 2018; Vol 9 Issue 2:50-55.
3. Levick JR, Michel CC. Microvascular fluid exchange and the revised Starling principle. *Cardiovascular research.* 2010 Mar 3;87(2):198-210.
4. Reitsma, S., Slaaf, D.W., Vink, H., Van Zandvoort, M.A. and Oude Egbrink, M.G., 2007. The endothelial glycocalyx: composition, functions, and visualization. *Pflügers Archiv-European Journal of Physiology,* 454(3), pp.345-359.
5. Weinbaum, S., Tarbell, J.M. and Damiano, E.R., 2007. The structure and function of the endothelial glycocalyx layer. *Annu. Rev. Biomed. Eng.,* 9, pp.121-167.
6. Woodcock, T.E. and Woodcock, T.M., 2012. Revised Starling equation and the glycocalyx model of transvascular fluid exchange: an improved paradigm for prescribing intravenous fluid therapy. *British journal of anaesthesia,* 108(3), pp.384-394.
7. Bjork R, and Hettrick H. Emerging Paradigms Integrating the Lymphatic and Integumentary Systems: Clinical Implications. *Wound Care and Hyperbaric Medicine.* 2018; Vol 9 Issue 2:15-21.
8. Scelsi R, Scelsi L, Cortinovis R, Poggi P. Morphological changes of dermal blood and lymphatic vessels in chronic venous insufficiency of the leg. *International angiology: a journal of the International Union of Angiology.* 1994; 13(4):308-311.
9. Földi M, Földi E, Strößenreuther R, Kubik S, editors. Földi's textbook of lymphology: for physicians and lymphedema therapists. Elsevier Health Sciences; 2012 Feb 21.
10. Carlson A. Lymphedema and subclinical lymphostasis (microlymphedema) facilitate cutaneous infection, inflammatory dermatoses, and neoplasia: A locus minoris resistentiae. *Clinics in Dermatology.* 2014;32: 599-615.
11. Shoman H, Ellahham S. Lymphedema: a mini-review on the pathophysiology, diagnosis and treatment. *Vasc Dis Ther.* 2017;2(3):1-2. doi: 10.15761/VDT.1000124
12. Ruocco E, Puca RV, Brunetti G, et al. Lymphedematous areas: Privileged sites for tumors, infections, and immune disorders. *Int J Dermatol.* 2007;46:662.
13. Ruocco V, Schwartz RA, Ruocco E. Lymphedema: An immunologically vulnerable site for development of neoplasms. *J Am Acad Dermatol.* 2002;47:124-127.
14. Ridner SH. Pathophysiology of lymphedema. *Semin Oncol Nurs.* 2013;29:4-11.
15. Bjork R, Ehmann S. STRIDE Professional Guide to Compression Garment Selection for the Lower Extremity. *Journal of Wound Care.* 2019 Jun 1;28(Sup6a):1-44.
16. Bjork R, Hettrick H. Emerging Paradigms Integrating the Lymphatic and Integumentary Systems: Clinical Implications. *Wound Care and Hyperbaric Medicine.* 2018;9(2):17-23.
17. Framework L. Best practice for the management of lymphoedema. International consensus. London: MEP Ltd. 2006:3-52.
18. Greene A. Diagnosis and Management of Obesity-Induced Lymphedema. *Plastic Recon Surgery.* 2016 July;138(1):111e-118e.
19. Greenhowe J, Stephen C, McClymont L, Munnoch DA. Breast oedema following free flap breast reconstruction. *The Breast.* 2017 Aug 1;34:73-6.
20. Rockson S. Diseases of the Lymphatic Circulation in Vascular Medicine: A Companion to Braunwald's Heart Disease, 2nd Edition. Elsevier;2013:697-708.
21. Mortimer P, Rockson S. New developments in clinical aspects of lymphatic disease. *J Clin Invest.* 2014 Mar;124(3):915-21.

22. Wang W, Keast DH. Prevalence and characteristics of lymphoedema at a wound-care clinic. *Journal of wound care*. 2016 Apr 1;25(Sup4):S11-5.
23. Keast DH, Moffatt C, Janmohammad J. Lymphedema IMpact and PRevalence INTernational (LIMPRINT) study: the Canadian data. *Lymphatic Research and Biology*. 2019 Mar 10