

# SIGVARIS

L I F E F O R L E G S

## **Library on all Scientific Articles on Compression Therapy 12/2008**

Reference List Book “Compression Therapy of the  
Extremities” by Partsch, Rabe, Stemmer



- Chapter 1      Introduction**
- Chapter 2      Historical Overview**
- Chapter 3      Anatomy**
- Chapter 4      Venous Return**
- Chapter 5      The Basis of Compression**

**Downie SP, Raynor SM, Firmin DN, Wood NB, Thom SA, Hughes AD et al.** Effects of elastic compression stockings on wall shear stress in deep and superficial veins of the calf. *Am J Physiol Heart Circ Physiol* 2008; 294(5):H2112-20.

Stemmer Chapter: 5, 9

Number of references/number of self citations: 32/1

Type of publication: experimental trial

Language: en

Language of abstract: en

**Ghosh S, Mukhopadhyay A, Sikka M, Nagla KS.** Pressure mapping and performance of the compression bandage/garment for venous leg ulcer treatment. *J Tissue Viability* 2008; 17(3):82-94.

Stemmer Chapter: 5

Number of references/number of self citations: 8/1

Type of publication: experimental study

Language: en

Language of abstract: en

**Partsch B, Partsch H.** Which pressure do we need to compress the great saphenous vein on the thigh? *Dermatol Surg* 2008; 34:1726-8.

Stemmer Chapter: 5

Number of references/number of self citations: 3/2

Type of publication: experimental study

Language: en

Language of abstract: en

**Partsch H, Mosti G.** Thigh compression. *Phlebology* 2008; 23(6):252-8.

Stemmer Chapter: 5

Number of references/number of self citations: 22/8

Type of publication: experimental study

Language: en

Language of abstract: en

## **Chapter 6 Mobilisation**

## **Chapter 7 Compression Using Mechanical Devices**

**Clark M.** Controversies and opinions: why evaluate limb compression interventions as if they were pressure-redistributing support surfaces? *J Tissue Viability* 2008; 17(1):34-5.

Stemmer Chapter: 7

Number of references/number of self citations: 3/0

Type of publication: commentary

Language: en

Language of abstract: en

**Edwards JZ, Pulido PA, Ezzet KA, Copp SN, Walker RH, Colwell CW, Jr.** Portable Compression Device and Low-Molecular-Weight Heparin Compared With Low-Molecular-Weight Heparin for Thromboprophylaxis After Total Joint Arthroplasty. *J Arthroplasty* 2008.

Stemmer Chapter: 7

Number of references/number of self citations: 25/0

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Filip JR, Dillon RS.** Treatment of end-stage "trash feet" with the end-diastolic pneumatic boot. *Angiology* 2008; 59(2):214-19.

Stemmer Chapter: 7

Number of references/number of self citations: 34/4

Type of publication: retrospective study

Language: en

Language of abstract: en

**Froimson M, Murray T, Fazekas A.** Venous Thromboembolic Disease Reduction with a Portable Pneumatic Compression Device. *J Arthroplasty* 2008.

Stemmer Chapter: 7

Number of references/number of self citations: 22/0

Type of publication: retrospective, non randomized comparative trial

Language: en

Language of abstract: en

**Harfouche JN, Theys S, Hanson P, Schoevaerds JC, Sturbois X.** Venous tonus enhancement after a short cycle of intermittent pneumatic compression. *Phlebology* 2008; 23(2):58-63.

Stemmer Chapter: 7

Number of references/number of self citations: 34/1

Type of publication: experimental study

Language: en

Language of abstract: en

**Kavros SJ, Delis KT, Turner NS, Voll AE, Liedl DA, Gloviczki P et al.**

Improving limb salvage in critical ischemia with intermittent pneumatic compression: a controlled study with 18-month follow-up. *J Vasc Surg* 2008; 47(3):543-9.

Stemmer Chapter: 7

Number of references/number of self citations: 40/9

Type of publication: retrospective comparative trial

Language: en

Language of abstract: en

**Lachiewicz PF, Soileau ES.** Mechanical calf compression and aspirin prophylaxis for total knee arthroplasty. *Clin Orthop Relat Res* 2007;464:61-4.

Stemmer Chapter: 7

Number of references/number of self citations: 20/3

Type of publication: retrospective study

Language: en

Language of abstract: en

**Morris RJ.** Intermittent pneumatic compression - systems and applications. *J.Med.Eng Technol*, 2008;32(3):179-88

Stemmer Chapter: 7

Number of references/number of self citations: 98/5

Type of publication: review

Language: en

Language of abstract: en

**Nelson EA, Mani R, Vowden K.** Intermittent pneumatic compression for treating venous leg ulcers. *Cochrane Database Syst Rev* 2008;(2):CD001899.

Stemmer Chapter: 7

Number of references/number of self citations: 45/0

Type of publication: Cochrane review

Language: en

Language of abstract: en

**O'Donnell MJ, McRae S, Kahn SR, Julian JA, Kearon C, Mackinnon B**

**et al.** Evaluation of a venous-return assist device to treat severe post-thrombotic syndrome (VENOPTS). A randomized controlled trial. *Thromb Haemost* 2008; 99(3):623-629.

Stemmer Chapter: 7

Number of references/number of self citations: 17/9

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Partsch H.** Intermittent pneumatic compression in immobile patients.

Int Wound J 2008; 5(3):389-97.

Stemmer Chapter: 7

Number of references/number of self citations: 42/4

Type of publication: review

Language: en

Language of abstract: en

**Pitto RP, Young S.** Foot pumps without graduated compression stockings

for prevention of deep-vein thrombosis in total joint replacement: efficacy, safety and patient compliance : A comparative, prospective clinical trial. Int Orthop 2008; 32(3):331-336.

Stemmer Chapter: 7

Number of references/number of self citations: 19/2

Type of publication: comparative, prospective clinical trial

Language: en

Language of abstract: en

**Rabe E, Partsch H, Jünger M, Abel M, Achhammer I, Becker F et al.**

Guidelines for clinical studies with compression devices in patients with venous disorders of the lower limb. Eur J Vasc Endovasc Surg 2008; 35(4):494-500.

Stemmer Chapter: 7, 8, 9

Number of references/number of self citations: 20/3

Type of publication: consensus document

Language: en

Language of abstract: en

**Rawat A, Huynh TT, Peden EK, Kougias P, Lin PH.** Primary Prophylaxis

of Venous Thromboembolism in Surgical Patients. Vasc Endovascular Surg 2008.

Stemmer Chapter: 7, 9, 10

Number of references/number of self citations: 71/0

Type of publication: review

Language: en

Language of abstract: en

## **Chapter 8      Bandages**

**Anderson I.** Compression bandaging in patients with venous insufficiency.

Nurs Stand 2008; 23(10):49-55.

Stemmer Chapter: 8

Number of references/number of self citations: 23/3

Type of publication: review

Language: en

Language of abstract: en

**Annells M, O'Neill J, Flowers C.** Compression bandaging for venous leg ulcers: the essentialness of a willing patient. *J Clin Nurs* 2008; 17(3):350-59.

Stemmer Chapter: 8

Number of references/number of self citations: 21/0

Type of publication: survey

Language: en

Language of abstract: en

**Benigni JP, Uhl JF, Cornu-Thenard A, Blin E.** Compression bandages: influence of techniques of use on their clinical efficiency and tolerance. *Int Angiol* 2008; 27(1):68-73.

Stemmer Chapter: 8

Number of references/number of self citations: 7/0

Type of publication: experimental study

Language: en

Language of abstract: en

**Castonguay G.** Short-stretch or four-layer compression bandages: an overview of the literature. *Ostomy Wound Manage* 2008; 54(3):50-5.

Stemmer Chapter: 8

Number of references/number of self citations: 25/0

Type of publication: review

Language: en

Language of abstract: en

**Clarke-Moloney M, Keane N, Kavanagh E.** Changes in leg ulcer management practice following training in an Irish community setting. *J Wound Care* 2008; 17(3):116, 118-21.

Stemmer Chapter: 8

Number of references/number of self citations: 14/1

Type of publication: survey

Language: en

Language of abstract: en

**Damstra RJ, Brouwer ER, Partsch H.** Controlled, comparative study of relation between volume changes and interface pressure under short-stretch bandages in leg lymphedema patients. *Dermatol Surg* 2008; 34(6):773-8.

Stemmer Chapter: 8

Number of references/number of self citations: 10/3

Type of publication: experimental controlled comparative trial

Language: en

Language of abstract: en

**Flour M.** Creative compression treatment in challenging situations.

Int J Low Extrem Wounds 2008; 7(2):68-74.

Stemmer Chapter: 8

Number of references/number of self citations: 16/0

Type of publication: review

Language: en

Language of abstract: en

**Kecelj LN, Pavlovic MD, Lunder T.** A short review of diagnosis and compression therapy of chronic venous insufficiency. Acta Dermatovenerol Alp Panonica Adriat 2008; 17(1):17-21.

Stemmer Chapter: 8, 10

Number of references/number of self citations: 18/1

Type of publication: retrospective study

Language: en

Language of abstract: en

**Moffatt C.** Variability of pressure provided by sustained compression. Int

Wound J 2008; 5(2):259-265.

Stemmer Chapter: 8

Number of references/number of self citations: 30/3

Type of publication: review

Language: en

Language of abstract: en

**Moffatt CJ, Edwards L, Collier M, Treadwell T, Miller M, Shafer L et al.**

A randomised controlled 8-week crossover clinical evaluation of the 3M Coban 2 Layer Compression System versus Profore to evaluate the product performance in patients with venous leg ulcers. Int Wound J 2008; 5(2):267-279.

Stemmer Chapter: 8

Number of references/number of self citations: 43/3

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Mosti G, Mattaliano V, Partsch H.** Inelastic compression increases venous ejection fraction more than elastic bandages in patients with superficial venous reflux. Phlebology 2008; 23(6):287-94.

Stemmer Chapter: 8

Number of references/number of self citations: 24/9

Type of publication: experimental study

Language: en

Language of abstract: en

**Mudge E, Ivins N, Simmonds W, Price P.** Adherence to a 2-layer compression system for chronic venous ulceration. *Br J Nurs* 2007; 16(20):S4, S6, S8.

Stemmer Chapter: 8

Number of references/number of self citations: 13/1

Type of publication: observational study

Language: en

Language of abstract: en

**Partsch H, Clark M, Mosti G, Steinlechner E, Schuren J, Abel M et al.** Classification of compression bandages: practical aspects. *Dermatol Surg* 2008; 34(5):600-609.

Stemmer Chapter: 8

Number of references/number of self citations: 20/7

Type of publication: consensus document

Language: en

Language of abstract: en

**Rabe E, Partsch H, Jünger M, Abel M, Achhammer I, Becker F et al.** Guidelines for clinical studies with compression devices in patients with venous disorders of the lower limb. *Eur J Vasc Endovasc Surg* 2008; 35(4):494-500.

Stemmer Chapter: 7, 8, 9

Number of references/number of self citations: 20/3

Type of publication: consensus document

Language: en

Language of abstract: en

**Roumen-Klappe EM, den Heijer M, van Rossum J, Wollersheim H, van d, V, Thien T et al.** Multilayer compression bandaging in the acute phase of deep-vein thrombosis has no effect on the development of the post-thrombotic syndrome. *J Thromb Thrombolysis* 2008.

Stemmer Chapter: 8, 9

Number of references/number of self citations: 16/1

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

## Chapter 9 Compression Stockings

**Amsler F, Blättler W.** Compression therapy for occupational leg symptoms and chronic venous disorders - a meta-analysis of randomised controlled trials. *Eur J Vasc Endovasc Surg* 2008; 35(3):366-72.

Stemmer Chapter: 9

Number of references/number of self citations: 28/1

Type of publication: meta analysis

Language: en

Language of abstract: en

**Aschwanden M, Jeanneret C, Koller MT, Thalhammer C, Bucher HC, Jaeger KA.** Effect of prolonged treatment with compression stockings to prevent post-thrombotic sequelae: a randomized controlled trial. *J Vasc Surg* 2008; 47(5):1015-21.

Stemmer Chapter: 9

Number of references/number of self citations: 26/0

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Boutros IR, Landham PR, Brown RR, Gosali HS.** The use of graduated compression stockings in association with fondaparinux in surgery of the hip: a multicentre, multinational, randomised, open-label, parallel-group comparative study. *J Bone Joint Surg Br* 2008; 90(11):1535-6.

Stemmer Chapter: 9

Number of references/number of self citations: 0/0

Type of publication: letter

Language: en

Language of abstract: en

**Camporese G, Bernardi E, Prandoni P, Noventa F, Verlato F, Simioni P et al.** Low-molecular-weight heparin versus compression stockings for thromboprophylaxis after knee arthroscopy: a randomized trial. *Ann Intern Med* 2008; 149(2):73-82.

Stemmer Chapter: 9

Number of references/number of self citations: 71/4

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Downie SP, Raynor SM, Firmin DN, Wood NB, Thom SA, Hughes AD et al.** Effects of elastic compression stockings on wall shear stress in deep and superficial veins of the calf. *Am J Physiol Heart Circ Physiol* 2008; 294(5):H2112-20.  
Stemmer Chapter: 5, 9  
Number of references/number of self citations: 32/1  
Type of publication: experimental trial  
Language: en  
Language of abstract: en

**Hagan MJ, Lambert SM.** A randomised crossover study of low-ankle-pressure graduated-compression tights in reducing flight-induced ankle oedema. *Med J Aust* 2008; 188(2):81-4.  
Stemmer Chapter: 9  
Number of references/number of self citations: 21/0  
Type of publication: randomized crossover study  
Language: en  
Language of abstract: en

**Kahn SR, Shrier I, Julian JA, Ducruet T, Arsenault L, Miron MJ et al.** Determinants and time course of the postthrombotic syndrome after acute deep venous thrombosis. *Ann Intern Med* 2008; 149(10):698-707.  
Stemmer Chapter: 9  
Number of references/number of self citations: 27/4  
Type of publication: prospective cohort study  
Language: en  
Language of abstract: en

**Hirai M, Iwata H, Ishibashi H, Ota T, Nakamura H.** Interface pressure and stiffness of various elastic stockings during posture changes and exercise. *Vascular* 2008; 16(2):95-100.  
Stemmer Chapter: 9  
Number of references/number of self citations: 15/1  
Type of publication: experimental study  
Language: en  
Language of abstract: en

**Liu R, Lao TT, Kwok YL, Li Y, Ying MT.** Effects of graduated compression stockings with different pressure profiles on lower-limb venous structures and haemodynamics. *Adv Ther* 2008.  
Stemmer Chapter: 9  
Number of references/number of self citations: 25/3  
Type of publication: experimental study  
Language: en  
Language of abstract: en

**Nootheti PK, Cadag KM, Magpantay A, Goldman MP.** Efficacy of Graduated Compression Stockings for an Additional 3 Weeks after Sclerotherapy Treatment of Reticular and Telangiectatic Leg Veins. *Dermatol Surg* 2009; 35(1):53-8.

Stemmer Chapter: 9

Number of references/number of self citations: 12/6

Type of publication: prospective study

Language: en

Language of abstract: en

**Parker MJ.** Compression stockings: We need to look critically at evidence for universal use. *BMJ* 2008; 336(7654):1148.

Stemmer Chapter: 9

Number of references/number of self citations: 4/0

Type of publication: letter

Language: en

Language of abstract: en

**Partsch B, Partsch H.** Compression stockings for treating venous leg ulcers: measurement of interface pressure under a new ulcer kit. *Phlebology* 2008; 23(1):40-46.

Stemmer Chapter: 9

Number of references/number of self citations: 27/10

Type of publication: experimental study

Language: en

Language of abstract: en

**Phillips SM, Gallagher M, Buchan H.** Use graduated compression stockings postoperatively to prevent deep vein thrombosis. *BMJ* 2008; 336(7650):943-4.

Stemmer Chapter: 9

Number of references/number of self citations: 9/0

Type of publication: review

Language: en

Language of abstract: en

**Rabe E, Partsch H, Jünger M, Abel M, Achhammer I, Becker F et al.** Guidelines for clinical studies with compression devices in patients with venous disorders of the lower limb. *Eur J Vasc Endovasc Surg* 2008; 35(4):494-500.

Stemmer Chapter: 7, 8, 9

Number of references/number of self citations: 20/3

Type of publication: consensus document

Language: en

Language of abstract: en

**Rawat A, Huynh TT, Peden EK, Kougias P, Lin PH.** Primary Prophylaxis of Venous Thromboembolism in Surgical Patients. *Vasc Endovascular Surg* 2008.

Stemmer Chapter: 7, 9, 10

Number of references/number of self citations: 71/0

Type of publication: review

Language: en

Language of abstract: en

**Roumen-Klappe EM, den Heijer M, van Rossum J, Wollersheim H, van d, V, Thien T et al.** Multilayer compression bandaging in the acute phase of deep-vein thrombosis has no effect on the development of the post-thrombotic syndrome. *J Thromb Thrombolysis* 2008.

Stemmer Chapter: 8, 9

Number of references/number of self citations: 16/1

Type of publication: randomized controlled trial

Language: en

Language of abstract: en

**Tsukano Y, Sakanashi Y, Takeshita J.** Compression characteristics of graduated compression stockings used for prevention of venous thromboembolism. *Masui* 2007; 56(11):1347-1352.

Stemmer Chapter: 9

Number of references/number of self citations: 10/0

Type of publication: experimental study

Language: jap

Language of abstract: jap, en

**van der Wegen-Franken CP, Mulder P, Tank B, Neumann HA.** Variation in the dynamic stiffness index of different types of medical elastic compression stockings. *Phlebology* 2008; 23(2):77-84.

Stemmer Chapter: 9

Number of references/number of self citations: 19/1

Type of publication: experimental study

Language: en

Language of abstract: en

**Walker L, Lamont S.** The use of antiembolic stockings. Part 1: a literature review. *Br J Nurs* 2007; 16(22):1408-1412.

Stemmer Chapter: 9

Number of references/number of self citations: 34/0

Type of publication: review

Language: en

Language of abstract: en

**Walker L, Lamont S.** The use of antiembolic stockings. part 2: a clinical audit. Br J Nurs 2008; 17(1):32-36.

Stemmer Chapter: 9

Number of references/number of self citations: 11/0

Type of publication: survey

Language: en

Language of abstract: en

**Wienert V, Gerlach H, Gallenkemper G, Kahle B, Marshall M, Rabe E et al.** Medical compression stocking (MCS). J Dtsch Dermatol Ges 2008; 6(5):410-5.

Stemmer Chapter: 9

Number of references/number of self citations: 43/0

Type of publication: guideline

Language: en

Language of abstract: en

**Wittkowsky AK, Nutescu EA, Devine EB.** Compression stockings to prevent post-thrombotic syndrome: a role for anticoagulation clinics? J Thromb Thrombolysis 2007; .

Stemmer Chapter: 9

Number of references/number of self citations: 10/0

Type of publication: survey

Language: en

Language of abstract: en

## **Chapter 10    Compression and Mobilization Strategies**

**Kecelj LN, Pavlovic MD, Lunder T.** A short review of diagnosis and compression therapy of chronic venous insufficiency. Acta Dermatovenerol Alp Panonica Adriat 2008; 17(1):17-21.

Stemmer Chapter: 8, 10

Number of references/number of self citations: 18/1

Type of publication: retrospective study

Language: en

Language of abstract: en

**Kerchner K, Fleischer A, Yosipovitch G.** Lower extremity lymphedema. Update : Pathophysiology, diagnosis and treatment guidelines.

J Am Acad Dermatol 2008;59(2):324-31

Stemmer Chapter: 10

Number of references/number of self citations: 34/1

Type of publication: review

Language: en

Language of abstract: en

**Lee JT, Kalani MA.** Treating superficial venous thrombophlebitis.

J Natl Compr Canc Netw 2008; 6(8):760-5.

Stemmer Chapter: 10

Number of references/number of self citations: 22/0

Type of publication: review

Language: en

Language of abstract: en

**Marston W.** Evaluation and treatment of leg ulcers associated with chronic venous insufficiency. Clin Plast Surg 2007; 34(4):717-30.

Stemmer Chapter: 10

Number of references/number of self citations: 41/2

Type of publication: review

Language: en

Language of abstract: en

**Partsch,H.; Flour,M.; Coleridge,Smith P.** Indications for compression therapy in venous and lymphatic disease. Consensus based on experimental data and scientific evidence. Under the auspices of the IUP. Int.Angiol. 2008;27(3):193-219

Stemmer Chapter: 10

Number of references/number of self citations: 174/0

Type of publication: consensus document

Language: en

Language of abstract: en

**Rawat A, Huynh TT, Peden EK, Kougias P, Lin PH.** Primary Prophylaxis of Venous Thromboembolism in Surgical Patients. Vasc Endovascular Surg 2008.

Stemmer Chapter: 7, 9, 10

Number of references/number of self citations: 71/0

Type of publication: review

Language: en

Language of abstract: en

**Taradaj J, Franek A, Dolibog P, Cierpka L, Blaszcak E.** The impact of the sonotherapy and compression therapy on enhancement of healing venous leg ulcers after surgical treatment. Pol Merkur Lekarski 2007; 23(138):426-429.

Stemmer Chapter: 10

Number of references/number of self citations: 24/3

Type of publication: randomized controlled trial

Language: pol

Language of abstract: pol, en

**Tick LW, Kramer MH, Rosendaal FR, Faber WR, Doggen CJ.** Risk factors for post-thrombotic syndrome in patients with a first deep venous thrombosis. *J Thromb Haemost* 2008; 6(12):2075-81.  
 Stemmer Chapter: 10  
 Number of references/number of self citations: 30/3  
 Type of publication: prospective follow up study  
 Language: en  
 Language of abstract: en

## **Arbeiten ohne Abstracts**

**Armstrong DG.** Addition of surgical correction to compression therapy reduced recurrences in chronic venous leg ulceration. *ACP J Club* 2007; 147(3):73.

**Bolton L.** Compression in venous ulcer management. *J Wound Ostomy Continence Nurs* 2008; 35(1):40-9.

**Crowther M, Pai M.** Addition of graduated compression stockings to fondaparinux did not reduce risk for venous thromboembolism after hip surgery. *ACP J Club* 2008; 148(1):21.

**Johnston J, Davis MM.** When sequential-compression devices cause falls. *Am J Nurs* 2008; 108(4):37-8.

**Mandeville K, Bicknell C, Greenstein D.** Thromboembolic deterrent stockings application needs regular checks. *J Vasc Nurs* 2007; 25(4):75.

**Meaume S.** [Evaluation and treatments of hard-to-heal venous leg ulcers]. *Soins* 2008;(722):37-1.

**Richardson W, Apelgren K, Earle D, Fanelli R.** Guidelines for deep venous thrombosis prophylaxis during laparoscopic surgery. *Surg Endosc* 2007; 21(12):2331-2334.