

## Publicaties

### Proefschriften:

Theeven, P  
 Functional added-value of microprocessor-controlled knee joints  
 In daily life performance in MFCL-2 amputees.  
 Adelante Volwassenen Revalidatie, Hoensbroek  
 Beoogde datum oktober 2012  
 University Maastricht, Onderzoekschool CAPHRI  
 Promotoren: Prof.dr. PRG Brink, Prof.dr. R. Smeets  
 Co-promotoren: Dr. HAM Seelen, **Dr. B. Hemmen**

### Artikelen:

Wiertz CMH, Vints WAJ, Maas GJCM, Rasquin SMC, van Horn YY, Dremmen MPM, **Hemmen B**, Verbunt JA. COVID-19: patient characteristics in the first phase of post-intensive care rehabilitation. Arch Rehabil Res Clin Transl. 2021 Feb 4:100108. doi: 10.1016/j.arrct.2021.100108. Epub ahead of print. PMID: 33558860; PMCID: PMC7859717.

Wijnen BFM, **Hemmen B**, Bouman AIE, van de Meent H, Ambergen T, Brink PRG, Seelen HAM, Evers SMAA. Cost-effectiveness of an integrated 'fast track' rehabilitation service for multi-trauma patients: A non-randomized clinical trial in the Netherlands. PLoS One. 2019 Mar 22;14(3):e0213980. doi: 10.1371/journal.pone.0213980. PMID: 30901353; PMCID: PMC6430380

Ten Haaf D, **Hemmen B**, van de Meent H, Bovend'Eerdt TJH. The Magnitude and Time Course of Muscle Cross-section Decrease in Intensive Care Unit Patients. Am J Phys Med Rehabil. 2017 Sep;96(9):634-638. doi: 10.1097/PHM.0000000000000711. PMID: 28151763.

Bouman AI, **Hemmen B**, Evers SM, van de Meent H, Ambergen T, Vos PE, Brink PR, Seelen HA. Effects of an Integrated 'Fast Track' Rehabilitation Service for Multi-Trauma Patients: A Non-Randomized Clinical Trial in the Netherlands. PLoS One. 2017 Jan 11;12(1):e0170047. doi: 10.1371/journal.pone.0170047. PMID: 28076441; PMCID: PMC5226800.

Alwadi , T. Bovendeert, Hemmen B.

Level of functioning of multi-trauma patients at ICU and the orthopaedic ward. Bachelor Thesis. 2014. University of Maastricht, Faculty of Health, Medicine and Life Sciences (specialisation Medicine).

Theeven PJ, **Hemmen B**, Brink PR, Smeets RJ, Seelen HA. Measures and procedures utilized to determine the added value of microprocessor-controlled prosthetic knee joints: a systematic review. *BMC Musculoskelet Disord*. 2013 Nov 27;14:333. doi: 10.1186/1471-2474-14-333. PMID: 24279314; PMCID: PMC3890588.

Theeven PJ, **Hemmen B**, Geers RP, Smeets RJ, Brink PR, Seelen HA. Influence of advanced prosthetic knee joints on perceived performance and everyday life activity level of low-functional persons with a transfemoral amputation or knee disarticulation. *J Rehabil Med*. 2012 May;44(5):454-61. doi: 10.2340/16501977-0969. PMID: 22549656. (impact factor 1,367).

### **Hemmen, Bea**

'Early rehabilitation of multi-trauma patient'  
*J Rehabil Med* 2013; 45: 947

Ans IE Bouman, **Bea Hemmen**, Silvia MAA Evers, Henk van de Meent, Pieter E Vos, Peter RG Brink, Henk AM Seelen

Cost-effectiveness of an Integrated Fast-track Rehabilitation Service for Multi-trauma Patients: a multi-centre non-randomised clinical trial  
*Eur J Trauma Emerg Surg* (2013) 39 (Suppl 1):51

Engels JJ, **Hemmen B**, Bie de R.

Multi-trauma patients at ICU and the orthopaedic ward: development of an ADL-task and muscle strength checklist. Bachelor Thesis. 2011. University of Maastricht, Faculty of Health, Medicine and Life Sciences (specialisation Movement Sciences).

Theeven P, **Hemmen B**, Rings F, Meys G, Brink P, Smeets R, Seelen H. Functional added value of microprocessor-controlled knee joints in daily life performance

of Medicare Functional Classification Level-2 amputees. *J Rehabil Med.* 2011 Oct;43(10):906-15. doi: 10.2340/16501977-0861. PMID: 21947182.

Theeven P, **Hemmen B**, Stevens C, Ilmer E, Brink P, Seelen H. Feasibility of a new concept for measuring actual functional performance in daily life of transfemoral amputees. *J Rehabil Med.* 2010 Sep;42(8):744-51. doi: 10.2340/16501977-0591. PMID: 20809056.

### **Hemmen B.**

Een schoen met twee tongen.

Lekenpublicatie in PAS info. 2010.

Hallet P, Kosar S, **Hemmen B**, Brink PRG, Seelen HAM.

Early indicators for discharge destination after hospital stay in multiple trauma patients in Limburg: a retrospective analysis.

Revalidata 2009

Kosar S, Seelen HA, **Hemmen B**, Evers SM, Brink PR. Cost-effectiveness of an integrated 'fast track' rehabilitation service for multi-trauma patients involving dedicated early rehabilitation intervention programs: design of a prospective, multi-centre, non-randomised clinical trial. *J Trauma Manag Outcomes.* 2009 Jan 30;3:1. doi: 10.1186/1752-2897-3-1. PMID: 19183451; PMCID: PMC2646689.

Kosar S, Seelen HAM, **Hemmen B**, Evers SMAA, Brink PRG.

Cost-effectiveness of an integrated 'fast track' rehabilitation service for multi- trauma patients involving dedicated early rehabilitation intervention programs: design of a prospective, multi-centre, non-randomised clinical trial.

Nederlands Tijdschrift voor Traumatologie, 2009

Kosar S, **Hemmen B**, Brink PRG, van der Meent H, Vos P, Hallet P, Seelen HAM.

Evaluation of a supported fast-track multi-trauma rehabilitation service: a feasibility study.

Proceedings 10th European Congress of Trauma & Emergency 2009 Antalya, Turkije

Seelen HAM, **Hemmen B**, Schmeets AJ, Evers SMAA, Ament AJHA.

Costs and effects of a prosthesis with an elektronically stance and swing phase controlled knee joint.

Technol Disabil 21 2009

Seelen HAM, **Hemmen B**, Schmeets AJ, Ament AJHA, Evers SMAA.

Costs and effects of a prosthesis with an elektronically stance and swing phase controlled knee joint.

Orthopaedie Technik Quarterly vol IV 2009

Theeven P, **Hemmen B**, Geers R, Balk S, Rings F, Brink P, Seelen H.

Evaluation of daily performance in upper leg amputees using electronically and non-electronically controlled prosthetic knee hinges.

Proceedings XXII Congress of the International Society for Biomechanics, Cape Town South Africa, July 5-9, 2009.

Haare van JHG

Real-time patient-specific evaluation of dynamic deep tissue stresses in residual limbs of transtibial amputees: a pilot study. Undergraduate Thesis. 2008. SRL/UM/Faculteit Gezondheidswetenschappen

**Hemmen B** and Seelen HAM.

Effects of Movement Imagery and EMG-triggered feedback on arm-hand function in stroke patients in the sub-acute phase.

Clinical Rehabilitation 2008

Meilink A, **Hemmen B**, Seelen HA, Kwakkel G. Impact of EMG-triggered neuromuscular stimulation of the wrist and finger extensors of the paretic hand after stroke: a systematic review of the literature. Clin Rehabil. 2008 Apr;22(4):291-305. doi: 10.1177/0269215507083368. PMID: 18390973.

Pol RA, Geers RPJ, **Hemmen B**, Seelen HAM.

Test-retest reliability of physical performance measurement in persons with a unilateral transfemoral amputation during activities of daily living.

Revalidata 2008

Rutten MCH

Ontwikkeling van een protocol voor valpreventie en het wegnemen van angst om te vallen bij mensen met een beenamputatie. Undergraduate Thesis. 2008. SRL/UM/Faculteit

Gezondheidswetenschappen

Theeven P, **Hemmen B**, Meijs G, Rings F, Brink P, Seelen HAM.

Effects of electronically controlled prosthetic knee hinges on performance of common daily activities.

European Congress on Physical Medicine and Rehabilitation (ESPRM), Brugge, June 2008

**Hemmen B**, Stevens C, Schraven P, Rings F, Balk S, Seelen H.

Participation Circuit: a new tool to evaluate functional performance in unilateral transfemoral amputees.

12<sup>th</sup> World Congress of Internal Society for Prosthetics and Orthotics, Vancouver, Canada, July 2007

De Bruijn-Reijnen JAW, **Hemmen B**, Seelen HAM.

‘Movement Imagery’ bij patiënten met een subacuut CVA: meten van levendigheid van bewegingsvoorstelling.

Revalidata 132, 2006, 3

M.G.H. Heinemans, **B. Hemmen**, H.A.M. Seelen

Kwaliteit van lopen en traplopen met een bovenbeenprothese met C leg kniescharnier

Book of abstracts KNGF congress, Den Haag, November 2004

**Hemmen B**, Tinga A, Moennekens M, Bakx W, Seelen HAM.

Langetermijneffecten van ‘EMG-triggered’ feedback op de arm-handfunctie van patiënten met een cerebrovasculair accident.

Ned TijdschrGeneesk **147**(24), 2003, 1200

**Hemmen B**, Tinga A, Seelen HAM

Effects of EMG-triggered feedback on arm-hand function in stroke patients.

2. long term effects, Interim report, februari 2002

1. short term effects, Interim report, februari 2001

**Hemmen B**, Archer CW, Bentley G, Caravia L, Fisher J and Dowson D.

Biologische en biomechanische aspecten van het herstel van kraakbeendefecten met implantatie van biomateriaal met chondrocyten.

Ned. Tijdschr. voor Geneesk. **39**, 1994, 1979.

**Hemmen B**, Archer CW, Bentley G.

A Twelve Weeks Follow-Up Study of the Repair of Rabbit Articular Cartilage Defects with Carbon-Fibre Plugs.

Bone. **13** ( part 1 ), 1992.

**Hemmen B**, Archer CW, Bentley G.

The Effect of Storage Under Low-Temperature Tissue Culture Conditions on Human Articular Cartilage.

J. Bone Jt. Surg. **73B** Suppl. 1, 1991, 58.

**Hemmen B**, Archer CW, Bentley G.

Repair of Articular Cartilage Defects with Carbon Fibre Plugs Loaded with Chondrocytes.

37th Trans. Orthop. Res. Soc. USA, **16**, 1991, 278.

Hoofdstukken in boeken:

**Hemmen B**, van Santen S, Horn van Y

Post Intensive Care Syndrome. In: Handboek Volwassenenrevalidatie. Editors: Geertzen

JHB, Rietman JS en Vanderstraeten G. Groningen; 2021. *In press*.

**Hemmen B**, Brink PRG.

Multitrauma. In: Acute Medical Rehabilitation Textbook. A new approach to understanding Physical and Rehabilitation Medicine. Editors: H.J. Stam (chief), H.M. Buyruk, J.L. Melvin and G. Stucki. Bodrum; 2012

**Hemmen B**, Bakker MK, Essen van AJ, Golea Vasluiian E, Maathuis CGB.

Reader to Post graduate Course 'Prosthetics of the Upper Extremity', May 2011 (2 chapters).

**Hemmen B**

Vroege revalidatie van multi-traumapatienten op de Intensive Care.

Bijdrage Reader Bij en nascholingscursus Traumarevalidatie.30-31 mei 2013. p. 31-50.

Wenckebach instituut, UMCG, Groningen. ISBN 978-90-75823-85-1.