

# Curriculum Vitae Dr Wim Dankaerts

## PERSONALIA

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Wim Dankaerts (°30-08-1966)

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## ACADEMIC QUALIFICATIONS

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| 1990 | <b>Diploma in Physical Therapy</b><br>University of Leuven (K.U.Leuven), Belgium (high distinction)   |
| 1995 | <b>Postgraduate Diploma Manipulative Physiotherapy</b><br>Curtin University of Technology, Perth, Western Australia (distinction)   |
| 2005 | <b>Doctor of Philosophy</b><br>Curtin University of Technology, Perth, Western Australia<br>Thesis title: Towards the validation of a mechanism based classification system for non-specific chronic low back pain patients with motor control impairment |

## AWARDS

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MPAA Brian Edwards Prize (1995): 'in recognition of achievement of the highest mark in Clinical Practice on completion of the Graduate Diploma of Manipulative Therapy at Curtin University, Western Australia

International Postgraduate Research Scholarship (2001-2005): provided by the Australian Department of Educational and Youth Affairs (DEYTA) to undertake Doctoral Degree at Curtin University of Technology, Perth, WA

Head of School of Physiotherapy Scholarship (2001-2005): granted by Curtin University of Technology Vice Chancellor, Prof. Lance Twomey

Elsevier Australia Book Prize (2004): awarded for Master or Doctoral student publishing the best article in a Scientific Journal

Vice Chancellor's Prize (2005): awarded in recognition for outstanding PhD

## WORKING EXPERIENCE

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### Clinical

- 1990-1991 Portland Rehabilitation & Sport Medicine, Portland OR, USA.  
Function: Physical Therapist
- 1992-1994 ANPACO, Rotselaar, Belgium.  
Function: Physical Therapist
- 1996-2001 Musculoskeletal physiotherapist in private practice (owner), in Tienen, Belgium
- 2002-2005 Musculoskeletal Physiotherapist @ Body-logic Physiotherapy, Perth WA  
(Private Practice Clinic of Dr Peter O'Sullivan)
- 2006-now Musculoskeletal Physiotherapist (owner); private practice (Tienen, Belgium)

### Academic

- 1996-2001 Lecturer at Postgraduate Program in Manual Therapy (PAVOMT) at Department of Rehabilitation Sciences and Physiotherapy, Faculty of Medicine, Ghent University, Belgium
- 1999-now Lecturer in Spinal Musculoskeletal Physiotherapy at Department of Rehabilitation Sciences and Physiotherapy, Faculty of Medicine, Ghent University Belgium
- 2002-now Adjunct Senior Lecturer for Manual Concepts ([www.manualconcepts.com](http://www.manualconcepts.com))
- 2002-2005 Lecturer at Masters of Manipulative Therapy Program Curtin University of Technology, Perth WA
- 2003 Clinical Co-ordinator Masters of Manipulative Therapy Program Curtin University of Technology, Perth WA
- 2006-now Lecturer in Spinal Musculoskeletal Physiotherapy at the Department of Rehabilitation Sciences, Faculty of Medicine, Ghent University, Belgium
- 2006-now Adjunct Senior Research Fellow, School of Physiotherapy, Curtin University of Technology, Perth WA

## PUBLICATIONS IN PEER REVIEWED JOURNALS

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Fidel C, Martin L, **Dankaerts W**, et al - Cervical Spine Sensitizing Maneuvers During the Slump Test, in: *The Journal of Manual & Manipulative Therapy*, Vol. 4 No 1 (1996), 16-21

Danneels L, Vanderstraeten G, Cambier D, Witvrouw E, Bourgois J, **Dankaerts W**, De Cuyper H - The effects of three different training modalities on the cross-sectional area of the lumbar multifidus, *Brit.J.Sports Med*, 2001, 35, 186-191

Burnett A, Cornelius M, **Dankaerts W**, O'Sullivan P - Spinal Kinematics and Trunk Muscle Activity in Cyclists - A Comparison Between Healthy Controls and Non-Specific Chronic Low Back Pain Subjects – a pilot study, *Manual Therapy*, 2004 [impact factor: 0.948]

**Dankaerts W**, O'Sullivan P, et al - Reliability of EMG measurements for trunk muscles during maximal and sub-maximal voluntary isometric contractions in healthy controls and CLBP patients' in *Journal of Electromyography and Kinesiology*, 2004. [impact factor: 1.352]

O'Sullivan P, **Dankaerts W**, Burnett A, Straker L, Bargon G, Moloney N, Perry M, Tsang S, Lumbopelvic kinematics and trunk muscle activity during sitting on stable and unstable surfaces, *JOSPT*, 36, Jan. 2006, p19-25 [impact factor: 1.036]

**Dankaerts W**, O'Sullivan P, et al. - The inter-examiner reliability of a classification method for Non Specific Chronic Low Back Pain patients with motor control impairment - *Manual Therapy*, 11(2006), 28-39 [impact factor: 1.767]

**Dankaerts W**, O'Sullivan P, Burnett A and Straker L, Differences in Sitting Postures are Associated with Non-Specific Chronic Low Back Pain Disorders when Patients are Sub-Classified, *Spine*, 31(6): 698-704, March 15, 2006 [impact factor: 2.676]

O'Sullivan, P, **Dankaerts, W**, Burnett, A, Chen, D. Booth, R, Carlsen, C, Schultz, A, Evaluation of the Flexion Relaxation Phenomenon of the Trunk Muscles in Sitting, *Spine*, 31(17):2009-16, August 1, 2006 [impact factor: 2.676]

**Dankaerts W**, O'Sullivan P, Burnett A and Straker L, Altered Patterns of Superficial Trunk Muscle Activation During Sitting in Non-Specific Chronic Low Back Pain Patients - Importance of Sub-Classification, *Spine*, 31(17): 2017- 23, August 1, 2006 [impact factor: 2.676]

**Dankaerts W**, O'Sullivan P, Burnett A and Straker, The use of a mechanism-based classification system to evaluate and direct management of a patient with non-specific chronic low back pain and motor control impairment - a case report, *Manual Therapy*, (in press; available online 31 July 2006) [impact factor: 1.767]

O' Sullivan P, **Dankaerts W**, Burnett A, Farrell G, Naylor C, O'Sullivan K. Jefford E, Effect of Different Upright Sitting Postures on Spinal-Pelvic Curvature and Trunk Muscle Activation in a Pain-Free Population, *Spine* (accepted for publication) [impact factor: 2.676]

## **P**UBLICATIONS OF ABSTRACTS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

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**Dankaerts W** and Danneels L, Surface EMG – Activity of the Lateral Chest Wall, Abdominal and back Musculature During Cycling: Healthy Normals Versus Patients with Chronic Low Back Pain - In: Proceedings of the 7<sup>th</sup> Scientific Conference of The IFOMT, 2000, p138-142

**Dankaerts W**, Moolaert P et al, Palpation of the Brachial Plexus and its Peripheral Nerves: Clinical Validity and Palpation Techniques. In: Proceedings of the 7<sup>th</sup> Scientific Conference of The IFOMT, 2000, p48

Devreese A, **Dankaerts W** et al - Can testicle pain be related to LBP/SIJ dysfunction? In: Proceedings of the 7<sup>th</sup> Scientific Conference of The IFOMT, 2000, p51

**Dankaerts W**, O'Sullivan P, et al - What proceeds RCTs? - A New Model for Clinical Research Into NSCLBP - In: Proceedings of the 8<sup>th</sup> Scientific Conference of The IFOMT, Cape Town, SA, 2004

**Dankaerts W**, Burnett A, O'Sullivan P, Cornelius M - Motor Control impairment, a mechanism for back pain in cyclists? - In: Proceedings of the 8<sup>th</sup> Scientific Conference of The IFOMT, Cape Town, SA, 2004

**Dankaerts W**, O'Sullivan P, et al - EMG of Trunk Muscles in Clinical Research- Do we have to reconsider normalisation? In: Proceedings of the 8<sup>th</sup> Scientific Conference of The IFOMT, Cape Town, SA, 2004

Cornelius M, Burnett A, **Dankaerts W**, O'Sullivan P - Spinal kinematics and trunk muscle activity in cyclists: A comparison between normals and subjects with non-specific chronic back pain related to cycling. Australian Conference of Science and Medicine in Sport. Canberra, ACT, 2003

Cornelius M, Burnett A, **Dankaerts W**, O'Sullivan P - Spinal kinematics and trunk muscle activity in cyclists: A comparison between normals and subjects with non-specific chronic back pain related to cycling. Women in Research, 10<sup>th</sup> Anniversary Conference, Rockhampton, Queensland. 2003.

Burnett A, Ranson C, **Dankaerts W**, O'Sullivan P - An Overview of Methods for Evidence Based Practice in Spinal Rehabilitation. Presented @ AAEAS, 2004

Perry M, O'Sullivan P, **Dankaerts W** et al – Lumbo-pelvic Kinematics and Trunk Muscle Activity during Static and Dynamic Sitting, New Zealand Society of Physiotherapists Conference, Christchurch, New Zealand , 2004

**Dankaerts W**, O'Sullivan P, et al - Towards laboratory validation of a novel classification system for non-specific chronic low back pain patients with impairments in spinal control - 5<sup>th</sup> Interdisciplinary World Congress on Low Back and Pelvic Pain Melbourne, Australia, 2004

**Dankaerts W**, O'Sullivan P, et al. - Towards clinical validation of a novel classification system for non-specific chronic low back pain patients with impairments in spinal control - 5<sup>th</sup> Interdisciplinary World Congress on Low Back and Pelvic Pain Melbourne, Australia, 2004

Perry M, O'Sullivan P, **Dankaerts W** et al – Lumbo-pelvic Kinematics and Trunk Muscle Activity during Static and Dynamic Sitting -5<sup>th</sup> Interdisciplinary World Congress on Low Back and Pelvic Pain Melbourne, Australia, 2004

**Dankaerts W**, O'Sullivan P, Burnett A, Straker L, Skouen J. Can clinicians classify non-specific chronic low back pain patients with motor control impairment? Kinetic Control & MACP 2<sup>nd</sup> International Conference on Movement Dysfunction, Edinburgh, 2005

**Dankaerts W**, O'Sullivan P, Burnett A, Straker L, Identification of a sub-group of non-specific chronic low back pain patients presenting high levels of co-contraction in trunk muscles during sitting. Kinetic Control & MACP 2<sup>nd</sup> International Conference on Movement Dysfunction, Edinburgh, 2005

**Dankaerts W**, O'Sullivan P, Burnett A, Straker L – Do chronic low back pain patients sit differently from no-low back pain controls? Is sub-classification important? Kinetic Control & MACP 2<sup>nd</sup> International Conference on Movement Dysfunction, Edinburgh, 2005

O' Sullivan P, **Dankaerts W**, Burnett A, Farrell G, Naylor C, O'Sullivan K, Jefford E - Effect of Different Upright Sitting Postures on Spinal-Pelvic Curvature and Trunk Muscle Activation in a Pain-Free Population, Kinetic Control & MACP 2<sup>nd</sup> International Conference on Movement Dysfunction, Edinburgh, UK, 2005

O'Sullivan P, **Dankaerts W**, Burnett A, Chen D, Booth R, Carlsen C, Schultz A - Evaluation of the Flexion Relaxation Phenomenon of the Trunk Muscles in Sitting. Kinetic Control & MACP 2<sup>nd</sup> International Conference on Movement Dysfunction, Edinburgh, UK, 2005

O'Sullivan P, **Dankaerts W**, Burnett A, et al – How you sit upright...does it matter? Emirates Physiotherapy (Physio 2006) Conference Dubai, UAE, 2006

**Dankaerts W**, O'Sullivan P, Burnett A and Straker L, Identification of Sub-groups of Non-Specific Chronic Low Back Pain Patients presenting with high levels of co-contraction in trunk muscles during sitting, *International Society for Study of the Lumbar Spine Conference*, Bergen, Norway, 13-17th June 2006. (Poster)

**Dankaerts W**, O'Sullivan P, Burnett A and Straker L, Discriminating healthy controls and two sub-groups of non-specific chronic low back pain patients using trunk muscle activation and lumbo-sacral kinematics of postures and movements – a statistical classification model, *International Society for Study of the Lumbar Spine Conference*, Bergen, Norway, 13-17th June 2006. (Poster)

## **PUBLISHED NON PEER REVIEWED**

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**Dankaerts W**, Moolaert P, Palpation of the Brachial Plexus and its Peripheral Nerves: Clinical Validity and Palpatory techniques, in: *Fysische Therapie*, 2, 1999 (in Dutch)

Witvrouw E, Danneels L, **Dankaerts W**, et al - Indications for Exercise in Sacro-iliac Dysfunction, in: *Vlaams Tijdschrift voor Sportgeneeskunde & - Wetenschappen*, 83, 2000 (in Dutch)

## **UNPUBLISHED**

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Dankaerts W. - Anterior Knee Pain after Anterior Cruciate Ligament Reconstruction (unpublished thesis for 'licentiate' in Physical Therapy, Catholic University Leuven, Belgium) (1990) (in Dutch)

Dankaerts W. - Towards the validation of a mechanism based classification system for non-specific chronic low back pain patients with motor control impairment (unpublished doctoral thesis, Curtin University of Technology, Perth, WA) (2005)

## **RECENTLY CO-SUPERVISED MASTERS RESEARCH PROJECTS (2003-now)**

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Masters of Manipulative Physiotherapy Curtin University of Technology

2003 - Trunk EMG and kinematics during static and dynamic sitting.

Perry M, Bargon G, Maloney N, Tsang S

2003 - Evaluation of the flexion relaxation phenomenon of the trunk muscles in sitting.

Chen D, Booth R, Carlsen C, Schultz A

2004 - Effect of Different Upright Sitting Postures on Spinal-Pelvic Curvature and Trunk Muscle Activation in a Pain-Free Population

Farrell G, Jefford E, Naylor C, O'Sullivan K

## **REVIEWER FOR INTERNATIONAL JOURNALS**

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Manual Therapy

## **INVITED SPEAKER - NATIONAL (BELGIUM)**

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1998 New Advances in Exercise to Rehabilitate Spinal Stabilization: University of Ghent (IPVK), Belgium

1998 Upper Quarter Neural Tissue Dysfunction: Clinical Reasoning, Differentiation and Management, Free University Brussels (VUB), Belgium

1998 Dynamic Scapulo-thoracic Stability: importance with Shoulder Instability. University Ghent (IPVK), Belgium

1999 Lumbar Instability – UZK Ghent, Belgium

1999 Upper Quarter Neural Tissue Dysfunction: Evaluation and Treatment, UZK Tienen, Belgium

2000 Stabilization, the key to efficient Back Schooling? National Congress, Eurokine, Leuven, Belgium

2000 New advances in Spinal Stabilization. 1<sup>st</sup> Manual Therapy Forum, Brussels, Belgium

2000 Neural Tissue Upper Quarter Dysfunction: evaluation and treatment, Achilleus, Herentals, Belgium

2000 Nerve Trunk Pain – clinical examination and treatment, NFDLK Symposium, Evidence Based Physiotherapy, UCL, Brussels, Belgium

2001 Stabilisation training for Non-Specific CLBP patients? - National Physio Congress, Ghent, Belgium

2006 Evidence into practice/ validation of a classification system for NSCLP patients motor control dysfunction, University Ghent (Kinesitherapie Ghent & IPVK-Kine Club), Belgium

## **INVITED SPEAKER/ KEYNOTE SPEAKER - INTERNATIONAL**

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- 2005 Invited Speaker, Geraldton, Western Australia
- 2005 Invited Speaker, Albany, Western Australia
- 2005 Invited Speaker, Hobart, Tasmania, Australia
- 2005 Keynote speaker @ International Private Practitioners Association (IPPA, subgroup WCPT) - International Conference Melbourne (<http://www.ippaworld.org/conference>)
- 2005 Invited Speaker @ The Spine – World Congress on Manual Therapy, Italian Physiotherapy Associations Annual Congress, Rome (7-9/10/2006)
- 2006 Keynote speaker @ Annual Scientific Conference, Physical Therapy Association of the Republic of China (Taiwan), Taipei, Taiwan (25-26/03/06)
- 2006 Keynote speaker @ Emirates Physiotherapy (Physio 2006) Conference Dubai, UAE (<http://www.physio-dubai.com>) (29/04 – 01/05/2006)

## **LECTURING EXPERIENCE - INTERNATIONAL**

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Invitations from National Physiotherapy and Manual Therapy Associations to conduct clinical workshops – Australia, Brasil, Taiwan, Dubai, South Africa, Netherlands, Sweden, Scotland, United Kingdom, Ireland, Switzerland, Germany, Saudi Arabia.

## **MEMBERSHIP**

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Australian Physiotherapy Association (APA) since 1997  
Musculoskeletal Physiotherapy Australia (MPA) since 1997