



HEALTH AND REHABILITATION SCIENCES
RESEARCH INSTITUTE
ANNUAL REPORT
1 AUGUST 2008 - 31 JULY 2009

**HEALTH AND REHABILITATION
SCIENCES RESEARCH INSTITUTE**

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(1 AUGUST 2008 - 31 JULY 2009)

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I. FOREWORD BY THE PRO VICE CHANCELLOR (RESEARCH AND INNOVATION)



I am particularly delighted to provide the Foreword to this year's Annual Reports. Research and Innovation at the University of Ulster continues to grow and to make major contributions to the economic, social and cultural wellbeing of Northern Ireland and beyond. This past year has seen us climb to a position where we are in the top third of research institutions in the country and are, again, amongst the top performers in the UK in translating our research and research expertise into significant economic benefit. In reading the annual reports from University of Ulster Research Institutes I am confident that you will find the research undertaken at Ulster to have more than fulfilled expectations over the past year.

The University's reputation for high quality research was independently confirmed through the results of the most recent Research Assessment Exercise. The overall performance places Ulster in the top third of the UK institutions with three Units in the top three and eleven in the top twenty as measured against peers. This is our best ever performance and confirms our strategy on quality, selectivity and supporting environment. Our exceptional performance in the RAE has boosted our efforts to attract high-calibre research staff to work alongside our existing internationally strong teams, in attracting external research and other income and in completing work that has led to highly prestigious papers, books and other key performance outputs.

We are now in a very strong and confident position as we prepare for the next national assessment due in 2013. This year we produced a new Research Strategy to provide us with an appropriate quality framework that will support our future submission to the newly designed Research Excellence Framework (REF). The new approach to assessment through the REF will present many challenges, particularly in relation to the new Impact category and in the administrative structures. We embark upon this process with great confidence and expectation having evidenced another very strong performance in the translation of our research expertise into economic, social and cultural benefits. There continues to be a very strong flow of research findings coming out of our research activities this year, many as new disclosures, adding to our intellectual property portfolio. We continue to exploit this asset through knowledge and technology transfer activities managed through our Office of Innovation.

University of Ulster research teams were awarded grants totalling over £29M for the academic year 2008/9, up almost £18M on the previous year. During the same period Research Capital funding totalled £8M and the University's Research Council income was approximately £3M. A particularly pleasing aspect of our grant income profile shows that grants were awarded to each of our six faculties and across all four campuses, highlighting research excellence throughout the University.

Cross border research projects funded by the Department for Employment and Learning (DEL) under its Cross Border R&D Funding Programme accounted for the substantial increase in research funding from previous years with five Ulster research teams awarded grants totalling £7.7M to conduct collaborative research projects with sister universities in the Republic of Ireland.

I am, of course, delighted but not surprised at this superb performance since external funders of research only allocate funding where they are confident that quality exists and Ulster's recent research activity is evidence of that quality. It is, however, particularly pleasing to record such a level of funding during a period when there has been significant pressure on the economy in general and finance in particular. It is gratifying that funders have confidence in the quality of our work and are assured that it will reap benefits in the future.

In addition to the annual allocation of DEL postgraduate studentships of £4.91M, this year, the University received just over £1.41M in support of 78 new and continuing DEL funded PhD studentships to be held in research areas that have specific relevance to the Northern Ireland economy; thus allowing further development of R&D talent essential for innovation in business and the public sector. This funding enables Ulster to support 272 full-time research students with a further 123 full-time awards supported from a range of other sources of funding.

The University, through its research and outreach activity, makes a significant contribution on the local and world stages. Our staff inform both policy development at regional and national level and are leaders in gaining understanding of the many global challenges facing us in today's world.

I trust that you will enjoy reading the Report and I commend it to you as evidence that research at the University of Ulster ranks highly amongst UK institutions.



Professor ND Black
Pro Vice Chancellor (Research & Innovation)

2. FOREWORD BY THE RESEARCH INSTITUTE DIRECTOR



This annual report describes in detail the research activities and outputs from the Health and Rehabilitation Sciences Research Institute (RI), School of Health Sciences. The school offers undergraduate and postgraduate courses in the professional areas of Clinical Physiology, Occupational Therapy, Podiatry, Physiotherapy, Radiography and Speech and Language Therapy.

The mission of the RI is to conduct high quality translational research, to develop the evidence base, in order to improve clinical practice and quality of life for users of health and social services and the general public. The research is mainly led by Allied Health Professionals from Physiotherapy, Occupational Therapy, and Clinical Science engaged in clinical areas, for example, musculoskeletal disorders, neurological and, respiratory diseases.

The most significant event of the year for us was the release HEFCE Research Assessment Exercise 2008. Health and rehabilitation sciences research at Ulster has shown a marked improvement on all of the main indicators in the 2008 Research Assessment Exercise indicating outputs of international quality in the majority of work submitted. This work was assessed to be “International quality in terms of originality, significance and rigour”. In this assessment, 14 staff were submitted for assessment, a significant increase on the 8 entered in RAE 2001. Significant improvements were also reported on the amount of research income, the number of successful postgraduate research students and our research infrastructure, with significant investment in the new Centre for Rehabilitation Research. There were some areas where we need to improve. Namely, there was a body of work which was recognised nationally in terms of originality, significance and rigour. Also, we had no activity that was judged to be world-leading in terms of originality, significance and rigour (4*). Subsequent to the Research Assessment Exercise there has been a need to review our research strengths and sustainability of our research activities. The intention of the review is to ensure that we improve on the quality and quantity of our research activities and outputs, as well as engaging with other centres of excellence.

There have been a number of eminent scholars engaged with the Research Institute throughout the year. Professor Jeff Basford, Mayo Clinic, has continued to collaborate, mentor and support researchers; Professor David Baxter, University of Otago has visited and collaborated on the APEP and B2A trial; Professor Dan Bader, Queen Mary University, Professor Courtney Lyder, University of Virginia have provided advice on ultrasound in wound tissue changes; Dr Charlotte Hager-Ross, University of Umeå has consolidated the Erasmus international exchange programme and continues to collaborate on Virtual Reality research; Professor Katie Lorig, Stanford University School of Medicine collaborated on projects on self-management in respiratory disease; Professor Nanette Mutrie, Exercise and Sport Psychology at the University of Strathclyde, collaborating on a Wellcome Trust grant application; Professor Alan Neville, University of Wolverhampton collaborated on the analysis of complex data relating to respiratory research; Dr Jörg Wulf, University of Kiel, has maintained links on the development of patient specific customised implants.

Our challenge for the future is to increase the capacity and capability of research active Allied Health Professionals. We look forward to seeing greater research income and outputs from across the spectrum of Allied Health Professionals alongside greater impact of our research at a national and international level.

Dr John Winder, December 2009.

A handwritten signature in black ink that reads "John Winder". The signature is written in a cursive style.

Dr John Winder
Director of Health and Rehabilitation Sciences Research Institute

3. RESEARCH STAFF

Surname	Forename	Title	Position
Core Members			
Bradley	Judy	Dr.	Reader in Rehabilitation Sciences
Lennon-Fraser	Sheila	Dr.	Senior Lecturer in Rehabilitation Sciences
Lowe-Strong	Andrea	Dr.	Senior Lecturer in Rehabilitation Sciences
McDonough	Suzanne	Prof.	Professor of Health and Rehabilitation
O'Neill	Brenda	Dr.	Lecturer Physiotherapy
Porter-Armstrong	Alison	Dr.	Senior Lecturer in Rehabilitation Sciences
Walsh	Deirdre	Prof.	Professor of Rehabilitation Research
Winder	John	Dr.	Director of Health and Rehabilitation Sciences Research Institute
Associate Members			
Crosbie	Jacqui	Dr.	Lecturer in Physiotherapy
Gardner	Evie	Ms.	Lecturer in Health Statistics
Gracey	Jackie	Dr.	Lecturer in Physiotherapy
Harte	Annette	Dr.	Lecturer in Physiotherapy
Hughes	Ciara	Dr.	Lecturer in Clinical Physiology
Kerr	Daniel	Dr.	Lecturer in Physiotherapy
Liddle	Dianne	Dr.	Lecturer in Health and Rehabilitation Sciences
McVeigh	Joseph	Dr.	Lecturer in Physiotherapy
Moran	Fidelma	Dr.	Lecturer in Physiotherapy
Stinson	May	Dr.	Lecturer in Occupational Therapy
Contract Research Staff			
Bleakley	Chris	Dr.	Physiotherapist
Eastwood	Kathy	Miss	Research Associate in Neurological Rehabilitation
Gillespie	Seaneen	Miss	Research Associate in Neurological Rehabilitation
Millar	Alexandra	Mrs.	Research Associate in Neurological Rehabilitation

4. RESEARCH STUDENTS | AUGUST 2008 - 31 JULY 2009

Name	Adams, Catherine
Title of Project	Sensor and imaging technologies in pressure ulceration: Exploring use and application
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Blaney, Janine
Title of Project	The role of exercise in non-pharmacological management of cancer related fatigue
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Donnelly, Caroline
Title of Project	The role of exercise in non-pharmacological management of cancer related fatigue
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Earley, Denise
Title of Project	Pulmonary rehabilitation in chronic obstructive pulmonary disease
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Harbinson, Ian
Title of Project	Efficacy and optimum dose of acupuncture in acute low back pain
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Hunter, Ruth
Title of Project	An investigation of the hypoalgesic effects of acupuncture
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Kerr, Fiona
Title of Project	Defining a pulmonary exacerbation in adults with Cystic Fibrosis
Grant Source	CAST Award
Country of Origin	Northern Ireland

Name	Kent, Lisa
Title of Project	Is the Life Shirt a useful clinical end point for clinical trials in cystic fibrosis?
Grant Source	Department for Employment and Learning, VIVOMETRICS Inc, USA
Country of Origin	Northern Ireland

Name	Mageean, Donna
Title of Project	Group exercise therapy for mobility & balance in people with multiple sclerosis: a randomised controlled trial
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Martin, Susan
Title of Project	Fit2Fly?- development of a new flight assessment system for respiratory disease
Grant Source	Research and Development Office of the DHSSPS in NI
Country of Origin	Northern Ireland

Name	McCullough, Carey
Title of Project	Complementary and alternative medicine for the management of insomnia
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	McFadden, Sonya
Title of Project	Radiation dose optimisation in paediatric interventional cardiology
Grant Source	University of Ulster (member of staff)
Country of Origin	Northern Ireland

Name	McManus, Brenda
Title of Project	Obstructive sleep apnoea (OSA) in Northern Ireland
Grant Source	Research and Development Office of the DHSSPS in NI
Country of Origin	Northern Ireland

Name	Mitchell, Sarah
Title of Project	Electrophysiological markers of auditory processing disorders and the effects of remediation
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Mooney, Roy
Title of Project	Radiological protection of patients in clinical radiology
Grant Source	Self -Funded
Country of Origin	Northern Ireland

Name	O'Connor, Sean
Title of Project	Monitoring of free-living activity in low back pain using accelerometers
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Pedlow, Katy
Title of Project	Modified constraint-induced movement therapy (mCIMT) for upper limb following acquired brain injury
Grant Source	Department for Employment and Learning
Country of Origin	Northern Ireland

Name	Shaw, Julia
Title of Project	A double blind, prospective, randomised, controlled clinical trial to evaluate the effect of a topical phenytoin dressing, on healing in diabetic foot ulcers
Grant Source	Self Funded
Country of Origin	Northern Ireland

Name	Wilson, Iseult
Title of Project	The correlation between abdominal surgery and low back pain
Grant Source	University of Ulster (member of staff)
Country of Origin	Northern Ireland

5. RESEARCH PUBLICATIONS

Bleakley

Journal Publications

Bleakley, C.M., Glasgow, P., Webb, M., Minion, D. 2009. 'An unusual case of bilateral myositis ossificans in a young athlete, *British Medical Journal Case Reports*, doi:10.1136/bcr.07.2008.0381.

Baxter, G.D., **Bleakley, C.M.**, McDonough, S.M. 2008. 'Clinical effectiveness of laser acupuncture: A systematic review', *Journal of Acupuncture and Meridian Studies*, vol. 1, no. 2, pp. 65-82.

Bradley

Journal Publications

Kent, L., **O'Neill, B.**, Davidson, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** 2009. 'Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests', *Respiratory Physiology & Neurobiology*, vol. 167, no. 2, pp. 162-167.

Brown, V., Elborn, J.S., **Bradley, J.**, Ennis, M. 2009. 'Dysregulated apoptosis and NF[κ]B expression in COPD subjects', *Respiratory Research*, vol. 10, no. 24, doi:10.1186/1465-9921-10-24.

Earley, D., **Bradley, J.**, **O'Neill, B.**, MacMahon, J. 2008. 'Is education useful in chronic obstructive pulmonary disease?' *Journal of the Association of Chartered Physiotherapists in Respiratory Care*, vol. 40, pp. 31-43.

Kent, L., **Bradley, J.M.**, France, M., Doring, G., Carryn, S., Bradbury, I., Rendall, J., Jones, A., Elborn, J.S. 2008. 'Temocillin in cystic fibrosis: A retrospective pilot study', *Journal of Cystic Fibrosis*, vol. 7, no. 6, pp. 551-554, doi: 10.1016/j.jcf.2008.05.07.

Treacy, K., Elborn, J.S., Rendall, J., **Bradley, J.M.** 2008. 'Copying letters to cystic fibrosis (CF) patients: Letter content and patient perceptions of benefit', *Journal of Cystic Fibrosis*, vol. 7, no. 6, pp. 511 - 514

O'Neill, B., Elborn, J.S., MacMahon, J., **Bradley, J.M.** 2008. 'Pulmonary rehabilitation and follow on services: a Northern Ireland survey', *Chronic Respiratory Disease*, vol. 5, no. 3, pp. 149-154, doi: 10.1177/1479972308091825

Courtney, J.M., Kelly, M.G., Watt, L., Garske, L., **Bradley, J.M.**, Ennis, M., Elborn, J.S. 2008. 'Quality of life and inflammation in exacerbations of bronchiectasis', *Chronic Respiratory Disease*, vol. 5, no. 3, pp. 161-168, doi: 10.1177/1479972308091823

Moran, F., **Bradley, J.M.**, Piper, A.J. 2009. 'Non-invasive ventilation for cystic fibrosis', *Cochrane Database of Systematic Reviews*, Issue 1. Art. No.: CD002769. DOI: 10.1002/14651858.CD002769.pub3.

Bradley, J.M., **Moran, F.** 2009. 'Physical training for cystic fibrosis', *Cochrane Database of Systematic Reviews* Issue 2, 2009. Art. No.: CD002768. DOI: 10.1002/14651858.CD002768.pub2.

Crosbie

Journal Publications

Stewart, E.H., **Crosbie, J.H.** 2009. 'Aerobic fitness in people with Parkinson's Disease: A review of the evidence', *Physiotherapy Ireland*, vol. 30, no. 2, pp. 21-26.

Gardner

Journal Publications

Cowan, S., McKenna, J., **McCrum-Gardner, E.**, Johnson, M. I., Sluka, K., **Walsh, D. M.** 2009. 'An investigation of the hypoalgesic effects of TENS delivered by a glove electrode', *Journal of Pain*, vol. 10, no. 7, pp. 694-701.

Jenkins, J., McCall, E., **Gardner, E.**, Casson, K., Dolk, A. 2009. 'Socioeconomic inequalities in neonatal intensive care admission rates', *Archives of Disease in Childhood, Foetal and Neonatal Edition*, vol. 94, no. 6, pp. 423-428, doi: 10.1136/adc.2008.146464

Gracey

Journal Publications

Liddle, S.D., Baxter, G.D., **Gracey, J.H.** 2009. 'Physiotherapists' use of advice and exercise for the management of chronic low back pain: a national survey, *Manual Therapy*, vol. 14, no. 2, pp. 189-196, doi: 10.1016/j.math.2008.01.02.

Hughes

Journal Publications

D'Helft, C.I., McFadden, S.L., McGee, A., Rainford, L., **Hughes, C.**, **Winder, R. J.**, Brennan, P.C. 2009. 'Potential Irish diagnostic reference levels for cardiac interventional examinations', *British Journal of Radiology*, vol. 82, pp. 296-302.

Curry, S.V., Donaghy, K., **Hughes, C.M.** 2008. 'The effectiveness of aromatherapy massage of improving psychosocial well-being of carers of patients with advanced progressive cancer: A pilot randomised controlled clinical trial', *International Journal of Clinical Aromatherapy*, vol. 5, no. 2, pp. 9-16.

Kerr

Journal Publications

Yuan, J., Purepong, P., Hunter, R.F., **Kerr, D.P.**, Park, J., Bradbury, I., **McDonough, S.M.** 2008. 'Different frequencies of acupuncture treatment for chronic low back pain: An assessor-blinded pilot randomised controlled trial', *Complementary Therapies in Medicine*, vol. 17, no. 3, pp. 131-140, doi: 10.1016/j.ctim.2008.10.003

Kennedy, S., Baxter, **G.D.**, **Kerr, D.P.**, Bradbury, I., Park, J., McDonough, S.M. 2008. 'Acupuncture for acute non-specific low back pain: A pilot randomised non penetrating sham controlled trial', *Complementary Therapies in Medicine*, vol. 16, pp. 139-146.

Wilson, I.M., **Kerr, D.P.**, **Lennon, S.** 2009. 'Differences in low back pain management for people with a stoma: a survey', *Gastrointestinal Nursing* vol. 6, no. 10, pp. 22-27

Yuan, J., Purepong, N., **Kerr, D.P.**, Park, J., Bradbury, I., **McDonough, S.M.** 2008. 'Effectiveness of acupuncture for low back pain: A systematic review', *Spine*, vol. 33, no. 23, E887-E900

Yuan, J., **Kerr, D.P.**, Park, J., Liu, X.H., **McDonough, S.M.** 2008. 'Treatment regimens of acupuncture for low back pain - a systematic review, *Complementary Therapies in Medicine*, vol. 16, no. 5, pp. 295-304., doi: 10.1016/j.ctim.2008.04.006

Lennon

Journal Publications

Kollen, B.J., **Lennon, S.**, Lyons, B., Wheatley-Smith, L., Scheper, M., Burke, J., Halfens, J., Geurts, A., Kwakkel, G. 2009. 'The effectiveness of the Bobath Concept in stroke rehabilitation: what is the evidence?' *Stroke*, doi:10.1161/STROKEAHA.108.533828

Wilson, I.M., **Kerr, D.P., Lennon, S.** 2009. 'Differences in low back pain management for people with a stoma: a survey', *Gastrointestinal Nursing*, vol. 6, no. 10, pp.22-27

Tyson, S.F., Connell, L.A., Busse, M.E., **Lennon, S.** 2009. 'What is Bobath? A survey of UK stroke physiotherapists' perceptions of the content of the Bobath Concept to treat postural control and mobility problems after stroke', *Disability and Rehabilitation*, vol. 31, no. 6, pp. 448-457, doi:10.1080/09638280802103621.

Tyson, S.F., Connell, L.A., Busse, M.E., **Lennon, S.** 2009. 'What treatment packages do UK physiotherapists use to treat postural control and mobility problems after stroke?', *Disability and Rehabilitation*, vol. 31, no. 18, pp.1494 -1500, doi:10.1080/09638280802627686

Book Editor

Lennon, S., Stokes, M. (eds.) 2009. *Pocketbook of Neurological Physiotherapy*, Churchill Livingstone: London, ISBN 00433068542.

Invited Book Chapter

Lennon, S., Bassile, C. 2009. 'Guiding Principles for neurological physiotherapy' in Lennon, S., Stokes, M. (eds.) 2009. *Pocketbook of Neurological Physiotherapy*, Churchill Livingstone: London, chapter 8.

Liddle

Journal Publications

Liddle, S.D., Baxter, G.D., **Gracey, J.H.** 2009. 'Physiotherapists' use of advice and exercise for the management of chronic low back pain: a national survey, *Manual Therapy*, vol. 14, no. 2, pp. 189-196, doi: 10.1016/j.math.2008.01.02.

Lowe-Strong

Journal Publications

Irvine, H., Hoy, K., Part, C., **Lowe-Strong, A.S.** 2009. 'Psychosocial adjustment to Multiple Sclerosis: exploration of identity redefinition', *Disability and Rehabilitation*, vol. 31, no. 8, pp. 599-606.

Blaney, B.E., **Lowe-Strong, A.** 2009. 'The impact of fatigue on communication in Multiple Sclerosis the insiders' perspective' *Disability and Rehabilitation*, vol. 31, no. 3, pp.170-180.

McClurg, D., **Lowe-Strong, A.**, Ashe, R., 2009. 'Pelvic floor training for lower urinary tract dysfunction in MS', *Nursing Times*, vol. 105, no. 7, pp. 45-47.

McClurg D., Ashe, R., **Lowe-Strong, A.** 2008. 'The benefits of pelvic floor muscle training in people with multiple sclerosis and lower urinary tract dysfunction', *Association of Chartered Physiotherapists in Women's Health*, vol. 103, pp. 21-28.

McBride, O., Dunwoody, L., **Lowe-Strong, A.**, Kennedy, S.M. 2008. 'Examining adversarial growth in illness: the factor structure of the Silver Lining Questionnaire' (SLQ-38) *Psychology and Health*, vol. 23, no. 6, pp. 661-678, doi: 10.1080/14768320701356540

Journal Publications

Hurley, D.A., O'Donoghue, G., Tully, M.A., Moffett, J.K., van Mechelen, W., Daly, L., Boreham, C.A., **McDonough, S.M.** 2009. 'A walking programme and a supervised exercise class versus usual physiotherapy for chronic low back pain: a single-blinded randomised controlled trial (The Supervised Walking In comparison to Fitness Training for Back Pain (SWIFT) Trial)', *BMC Musculoskeletal Disorders*, vol. 2, no. 10, p.79, doi: 10.1186/147-2474-10-79.

Baxter, G.D., **Bleakley, C.M., McDonough, S.M.** 2008. 'Clinical effectiveness of laser acupuncture: A systematic review', *Journal of Acupuncture and Meridian Studies*, vol. 1, no. 2, pp. 65-82.

McGaughey, H., Dhamija, S., Oliver, L., **Porter-Armstrong, A., McDonough, S.** 2009. 'Pulsed electromagnetic energy in management of chronic wounds: A systematic review', *Physical Therapy Reviews*, vol. 14, no. 2, pp. 132-146, doi: 10.1179/174328809X435231

Yuan, J., Purepong, P., Hunter, R.F., **Kerr, D.P.,** Park, J., Bradbury, I., **McDonough, S.M.** 2008. 'Different frequencies of acupuncture treatment for chronic low back pain: An assessor-blinded pilot randomised controlled trial', *Complementary Therapies in Medicine*, vol. 17, no. 3, pp. 131-140, doi: 10.1016/j.ctim.2008.10.003

Dhamija, S., Oliver, L., **Porter-Armstrong, A., McDonough, S.** 2009. 'Pulsed electromagnetic energy (PEME): A systematic review', *Physical Therapy Reviews*, vol. 14, no. 2, pp. 132-146, doi: 10.1179/174328809x43523

Sandlund, M., **McDonough, S.M.,** Hager-Ross, C. 2009. 'Interactive computer play in rehabilitation of children with sensorimotor disorder: a systematic review' *Developmental Medicine and Child Neurology*, vol. 51, no. 3, pp. 173-9.

Yuan, J., Purepong, N., **Kerr, D.P.,** Park, J., Bradbury, I. **McDonough, S.M.** 2008. 'Effectiveness of acupuncture for low back pain: A systematic review', *Spine*, vol. 33, no. 23, E887-E900

Yuan, J., **Kerr, D.P.,** Park, J., Liu, X.H., **McDonough, S.M.** 2008. 'Treatment regimens of acupuncture for low back pain - a systematic review', *Complementary Therapies in Medicine*, vol. 16, no. 5, pp. 295-304., doi: 10.1016/j.ctim.2008.04.006

Journal Publications

McVeigh, J.G., McGaughey, H., Hall, M., Kane, P. 2008. 'The effectiveness of hydrotherapy in the management of fibromyalgia syndrome: a systematic review', *Rheumatology International*, vol. 29, no.1, pp. 119-130, doi:10.1007/s00296-008-0674-9.

Journal Publications

Moran, F., Bradley, J.M., Piper, A.J. 2009. 'Non-invasive ventilation for cystic fibrosis', *Cochrane Database of Systematic Reviews*, Issue 1. Art. No.: CD002769. DOI: 10.1002/14651858.CD002769.pub3.

Bradley, J.M., Moran, F. 2009. 'Physical training for cystic fibrosis', *Cochrane Database of Systematic Reviews* Issue 2, 2009. Art. No.: CD002768. DOI: 10.1002/14651858.CD002768.pub2.

Journal Publications

Kent, L., **O'Neill, B.**, Davidson, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** 2009. 'Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests', *Respiratory Physiology & Neurobiology*, vol. 167, no. 2, pp. 162-167.

Earley, D., **Bradley, J., O'Neill, B.**, MacMahon, J. 2008. 'Is education useful in chronic obstructive pulmonary disease?' *Journal of the Association of Chartered Physiotherapists in Respiratory Care*, vol. 40, pp. 31-43.

O'Neill, B., Elborn, J.S., MacMahon, J., **Bradley, J.M.** 2008. 'Pulmonary rehabilitation and follow on services: a Northern Ireland survey', *Chronic Respiratory Disease*, vol. 5, no. 3, pp. 149-154, doi: 10.1177/1479972308091825

Journal Publications

Harte, D., Gordon, J., Shaw, M., **Stinson, M., Porter-Armstrong, A.** 2009. 'The use of pressure and silicone in hypertrophic scar management in burns patients: a pilot randomised controlled trial', *Journal of Burn Care & Research*. vol. 30, no. 4, pp. 632-642, doi: 10.1097/BCR.0b013e3181ac01a3.

McGaughey, H., Dhamija, S., Oliver, L., **Porter-Armstrong, A., McDonough, S.** 2009. 'Pulsed electromagnetic energy in management of chronic wounds: A systematic review', *Physical Therapy Reviews*, vol. 14, no. 2, pp. 132-146, doi: 10.1179/174328809X435231

Drysdale, J., Quigg, J., **Porter-Armstrong, A.** 2008. 'The effectiveness of community living skills training in improving functional ability of children with moderate intellectual disabilities', *Scandinavian Journal of Occupational Therapy*, vol. 15, no. 4, pp. 247-255.

Bannigan, K., Boniface, G., Nicol, M., **Porter-Armstrong, A.**, Scudds, R., Doherty, P. 2009. 'The nature and value of research priority setting in healthcare: Case study of the POTTER project', *Journal of Management and Marketing in Healthcare*, vol. 2, no. 3, pp. 293-304.

Harte, D., Gordon, J., Shaw, M., **Stinson, M., Porter-Armstrong, A.** 2009. 'The use of pressure and silicone in hypertrophic scar management in burns patients: a pilot randomised controlled trial', *Journal of Burn Care & Research*. vol. 30, no. 4, pp. 632-642, doi: 10.1097/BCR.0b013e3181ac01a3.

Invited Book Chapter:

Stinson, M., Crawford, S. 2009. 'Optimal positioning: Wheelchair seating comfort and pressure mapping', in Soderback, I. (ed). *International Handbook of Occupational Therapy Interventions*. New York: Springer, pp. 83-90.

Walsh

DeSantana, J.M., **Walsh, D.M.**, Vance, C., Rakel, B.A., Sluka, K.A. 2008. 'Effectiveness of transcutaneous electrical nerve stimulation for treatment of hyperalgesia and pain', *Current Rheumatology Reports*, vol. 10, no. 6, pp. 492-499.

Cowan, S., McKenna, J., **McCrum-Gardner, E.**, Johnson, M.I., Sluka, K.A., **Walsh, D. M.** 2009. 'An investigation of the hypoalgesic effects of TENS delivered by a glove electrode', *Journal of Pain*, vol. 10, no. 7, pp. 694-701.

Walsh, D.M., Howe, T.E., Johnson, M.I., Sluka, K.A. 2009. 'Transcutaneous electrical nerve stimulation for acute pain', *Cochrane Database of Systematic Reviews*, issue 2. art. No.: CD006142. DOI: 10.1002/14651858.CD006142.pub2.

Invited Book Chapter:

Walsh, D.M., Basford, J.R. 2009. 'Transcutaneous Electrical Nerve Stimulation', in Smith H.S. (ed) 2009. *Current Therapy in Pain*, Elsevier, Philadelphia, pp. 541-546.

Winder

D'Helft, C.I., Mc Fadden, S.L., McGee, A., Rainford, L., **Hughes, C., Winder, R. J.**, Brennan, P.C. 2009. 'Potential Irish diagnostic reference levels for cardiac interventional examinations', *British Journal of Radiology*, vol. 82, pp. 296-302.

6. RESEARCH FUNDING (grants awarded 1 August 2008 - 31 July 2009)

Staff Name(s)	Title of Award	Funding Body	Value
Bradley, Dr JM O'Neill, Dr BM	Education in pulmonary rehabilitation development and evaluation of a delivery package	Belfast HSS Trust	£15,000
McDonough, Prof SM Duffy, Dr OM Hasson, Dr F Keeney, Mrs SR Kelly, Dr GP Lagan, Dr KM McKenna, Prof HP, Ward, Dr M	A study to identify research priorities for the therapy professions in Ireland	Health Research Board	£52,840
Lennon-Fraser, Dr S, Glenfield, Mrs P, Jones, Dr F	Stepping Out: Promoting Self Management for Stroke Survivors in the community	N.I. Chest, Heart & Stroke Association	£40,168
Porter-Armstrong, Dr A	Innovation Leaders Proposal	R&D Office - Innovation Leaders 2009	£10,804
Bleakley, Dr C, McDonough, Prof SM	Cold Water Immersion (Cryotherapy) for preventing and treating muscle soreness after exercise.	R&D Office HPSS DIS - Cochrane Fellowships	£35,834
Bradley, Dr JM, O'Neill, Dr BM	Innovation Leaders Proposal	R&D Office - Innovation Leaders 2009	£9,720
Wilson, Ms I, Kerr, Dr DP, Lennon-Fraser, Dr S	Factors that influence back pain in people with a stoma	The Ileostomy and Internal Pouch Support Group	£5,691
Lowe-Strong, Dr AS, McClurg, Mrs D	Feasibility of Abdominal massage for the alleviation of the symptoms of constipation in people with multiple sclerosis.	Multiple Sclerosis Trust	£1,200
Lennon-Fraser, Dr S	Research fellowship to the National Stroke Research Institute, Melbourne, Australia	Trauma & Rehabilitation Recognised Research Group	£1,200

7. INDICATORS OF ESTEEM

KEYNOTE RESEARCH PAPERS OR INVITED ADDRESSES RELATED TO HONOURS OR AWARDS GIVEN TO AN INDIVIDUAL IN RECOGNITION OF HIS/HER RESEARCH

Bleakley

Rehabilitation and Therapy Research Society 5th Annual Conference-‘Winner of Best Abstract’ University College Cork, May 2009

Acupuncture and Meridian Studies Awards Committee-presented with ‘Travel Award’, in recognition of distinguished excellence in the field of Acupuncture and Meridian studies, SAMS 2008.

Bradley

Kent, L., **O’Neill, B.**, Davison, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** ‘Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests’ Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK. (Best abstract submission)

O’Neill

Kent, L., **O’Neill, B.**, Davison, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** ‘Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests’ Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK. (Best abstract submission)

McDonough

Rehabilitation and Therapy Research Society 5th Annual Conference-Winner of Best Abstract’ University College Cork, May 2009

1st IEEE International Conference in Games and Virtual Worlds for Serious Applications- best paper, Coventry, 23rd -24th March 2009

Society for Back Pain Research Secretaries Award 2008: Hurley, D.A., Brady, L., O’Brien, E., McDonough, S., Baxter G.D., Heneghan, C., ‘Subjective and objective evaluation of the physical activity profiles of people with low back pain and age-matched controls over 7 consecutive days’ (paper presented to SBPR Annual Meeting 2008, Keele)

Association of American Publishers 2008 PROSE Award- (Category Nursing and Allied Health) for the textbook ‘*Complementary Therapies for Physical Therapy*’ Elsevier: New York (contribution, two chapters on acupuncture).

Porter-Armstrong

Lillian Bradley Award for best oral presentation- Adams, C., Moorhead, A., Stinson, M., Porter-Armstrong, A., Gardner, E., Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. ‘Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?’ Trauma and Rehabilitation Research Away Day, 27th February 2009, Newcastle, Northern Ireland.

INVITED PRESENTATION

Bleakley

Invited Presentation

'Acute ankle sprains', Society of Chiropractors and Podiatrists Northern Ireland Branch Annual Conference, 20th March 2009, Antrim, Northern Ireland

'Cryotherapy where is the evidence', Association of Chartered Physiotherapists in Sports Medicine (ACPSM) Annual Conference, 13th-14th November 2008, Belfast, Northern Ireland

Bradley

Keynote Speaker

Management of the well CF Patients', 32nd European Cystic Fibrosis Conference, '10th -13th June 2008, Brest, France

Lennon

Keynote Speaker

'The importance of evidence-based practice and the Bobath Concept', IBITA, September 2009, Harleem, The Netherlands.

'National clinical guidelines for stroke; key messages for physiotherapists', AGILE National Congress, October 2008, Reading, England.

Invited Presentation

'Interprofessional in-service training gait specific training within Bobath therapy: a randomised controlled trial', September 2008, Ulster Hospital, Belfast.

McDonough

Keynote Speaker

'Research Priorities for the Therapy Professions', Rehabilitation and Therapy Research Society 5th Annual Conference, May 2009, University College Cork.

Invited Presentation

'Does acupuncture relieve musculoskeletal pain', 57th Annual Conference Irish Gerontology Society, 25th-26th Sept 2009, Belfast, N. Ireland.

'Can acupuncture research guide your practice in low back pain', Irish Medical Acupuncture Society Annual Meeting, 28th March 2009, Dublin, Ireland.

'Multi-disciplinary Management of Back Pain', Our Ladies Hospice Department of Education and Research, 27th February 2009, Dublin, Ireland.

'Laser and Pain', 1st Congress of International Society for Electrophysical Agents, 8th-9th February 2009, Las Vegas, USA.

Keynote Speaker

'The Innovation Experience: Aboard the Starship Enterprise! Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009. University College Cork, Ireland.

Invited Presentation

Clinical Efficacy of TENS (presented as part of a workshop entitled 'Non-pharmacological Treatments for Pain: Current Evidence' with K. Sluka, A. Wright & M. Bement). International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow: UK.

Current Evidence in Pain Management using TENS: Collaboration between Iowa and Ulster. June 2009: Carver College of Medicine, University of Iowa, US.

NAMED AUTHOR ON NATIONAL/ INTERNATIONAL RESEARCH PRESENTATION

Bleakley C.M., O'Connor, S., Tully, M.A., Roche, L.G., MacAuley, D.C., **McDonough, S.M.** 'Standard versus accelerated rehabilitation after acute ankle sprain: A randomised controlled trial', 4th International Ankle Symposium; 16th-18th July 2009, Sydney, Australia.

Bleakley C.M., O'Connor, S., Tully, M.A., Roche, L.G., MacAuley, D.C., McDonough, S.M. 'PRICE in the management of acute ankle injuries: A randomised controlled trial'. Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009, University College Cork, Ireland

Baxter, G.D, **Bleakley, C.M., McDonough, S. M.** 'Clinical effectiveness of laser acupuncture: A systematic review, 5th Symposium on Acupuncture and Meridian Studies, 4th -5th October 2008, Seoul, Korea.

Earley, D., **O'Neill, B.**, MacMahon, J., **Bradley, J.M.** 2008. 'Assessing the benefit of education in pulmonary rehabilitation: the development of a questionnaire' *Thorax*, vol. 63, suppl. vii, A92.

Kent, L., **Bradley, J.M., O'Neill, B.**, Derchak, P.A., Elborn, J.S. 'Assessment of night-time cough during IV antibiotic therapy using the LifeShirt: A pilot study', Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK.

Kent, L., **O'Neill, B.**, Davison, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** 'Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests' Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK.

Earley, D., **O'Neill, B.**, MacMahon, J., **Bradley, J.M.** 2008. 'Assessing the benefit of education in pulmonary rehabilitation: the development of a questionnaire'. Association Chartered Physiotherapists in Respiratory Care Conference, December 2008

Bradley, J.M., Kent, L., **O'Neill, B.,** Boyle, L., Nevill, A.M., Derchak, A., Elborn, J.S. 'Cardiorespiratory responses to exercise during intravenous antibiotic therapy in cystic fibrosis: assessment using the LifeShirt', *Thorax*, no.63 (suppl vii):A97-A98, British Thoracic Society Winter Meeting, 3rd-5th December 2008, London, UK.

Kent, L., **Bradley, J.M., O'Neill, B.,** Davison, G.W., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Validity and reliability of ventilation measured by the Lifeshirt: a potential outcome measure for clinical trials', *Thorax*, no.63 (suppl vii):A126-A127, British Thoracic Society Winter Meeting, 3rd-5th December 2008, London, UK.

Kent, L., **Bradley, J.M., O'Neill, B.,** Davison, G.W., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Validity and repeatability of ventilation measured by the LifeShirt: a potential outcome measure for CF trials', *Pediatric Pulmonology*; no. 43 (suppl 31):S449, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Kent, L., **Bradley, J.M., O'Neill, B.,** Derchak, P.A., Elborn, J.S. 'Assessment of night-time cough during IV antibiotic therapy using the LifeShirt: A pilot study', *Pediatric Pulmonology*, no. 43 (suppl 31):S450, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Bradley JM, Kent, L., **O'Neill, B.,** Boyle, L., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Cardiorespiratory responses to exercise during intravenous antibiotic therapy in CF: assessment using the LifeShirt', *Pediatric Pulmonology*, no. 43 (suppl 31):S461, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Crosbie

Crosbie, J.H., Lennon, S., McGoldrick, M.C., McNeill, M.D.J, Burke, J.W., **McDonough, S.M.** 'Virtual reality in the rehabilitation of the upper limb after hemiplegic stroke: a randomised pilot study', 7th ICDVRAT with ArtAbilitation, 8th - 11th Sept 2008, Maia, Portugal.

Crosbie, J.H., McGoldrick, M.C., **Lennon, S.,** Ma, M., McNeill, M.D.J., **McDonough, S.M.** 'Healthy user testing of a bilateral upper limb virtual reality system for use in stroke rehabilitation', Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009. University College Cork, Ireland

Gardner

Porter-Armstrong, A., Stinson, M., Moorhead, A., **Adams, C., McCrum-Gardner, E.,** Deegan, S., Donnelly, J., Nixon, J., Bader, D., Lyder, C., Blair, P. 'Ultrasound imaging: A useful technique in seating assessment?' 25th International Seating Symposium, 12th-14th March 2009, Florida, USA.

Adams, C., Moorhead, A., **Stinson, M., Porter-Armstrong, A., Gardner, E.,** Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?' Trauma and Rehabilitation Research Away Day, 27th February 2009, Newcastle, Northern Ireland.

Taggart, L., Taylor, D., **Gardner, E.** 2008. 'An exploration of the discriminatory power of an emotional well-being teacher's checklist for young people with ID', *Journal of Intellectual Disability Research*, vol. 52, pp. 728-728.

Adams, C., Moorhead, A., **Stinson, M., Porter-Armstrong, A., Gardner, E.,** Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?' Eleventh Annual European Pressure Ulcer Advisory Meeting, 3rd-6th September 2008, Bruges, Belgium.

Adams, C., Moorhead, A., Stinson, M., Porter-Armstrong, A., Gardner, E., Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 2008. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?', *European Pressure Ulcer Advisory Panel Review*, vol. 9, no. 2, p. 51.

Gracey

Donnelly, C., **Lowe-Strong, A.**, Rankin, J., Campbell, A., Allen, J., **Gracey, J.** 'The Role of Exercise in Cancer Rehabilitation Across the UK: A Survey of Physiotherapists in Oncology and Palliative Care'. *Supportive Care in Cancer* no. 24:327, International MASCC/ISOO Symposium *Supportive Care in Cancer*, 25th-27th June 2009, Rome, Italy.

Blaney, J., **Lowe-Strong A.**, Rankin, J., Campbell, A., Allen, J., **Gracey, J.** 'Cancer-related fatigue: Experiences from the experienced', *Supportive Care in Cancer*, no. 17: 890, International MASCC/ISOO Symposium *Supportive Care in Cancer*, 25th-27th June 2009, Rome, Italy.

Gracey, J., Galvin, J. 'The use of pilates in the management of low back pain: a survey of current practice' Society for Back Pain Research, 6th-7th November 2008, Keele University.

Lennon

Lennon, S., Wheatley-Smith, L., Harpur, W.M., Fullerton, K., Power, M., Wiggam, I. 'Gait specific training within Bobath therapy: a randomized controlled trial in acute stroke: a randomized controlled trial', *Cerebrovascular Diseases*, vol. 27 (suppl 6): 240-241, 18th Annual European Stroke Congress, 16-19th May 2009, Stockholm, Sweden.

Lennon, S., Wheatley-Smith, L. 'The content of gait re-education for acute stroke within a randomized controlled trial of Bobath therapy', *Cerebrovascular Diseases* vol. 27 (suppl 6): 241. European Stroke Congress, 18th Annual European Stroke Congress, 16-19th May 2009, Stockholm, Sweden.

Crosbie, J.H., McGoldrick, M.C., **Lennon, S.**, Ma, M., McNeill, M.D.J., **McDonough, S.M.** 'Healthy user testing of a bilateral upper limb virtual reality system for use in stroke rehabilitation', Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009. University College Cork, Ireland

Jalon, E.G.G., **Lennon, S.**, Hannan, J., Murphy, S., **Lowe-Strong, A.**, 'Energy Conservation for the Management of MS-Related Fatigue: An Exploratory Randomised Controlled Trial', The Society for Research in Rehabilitation Winter Meeting, 3rd February 2009, Derby, UK.

Connell, L.A., Tyson, S.F., Busse, M., **Lennon, S.** 'What is Bobath? A survey of UK stroke physiotherapists' Chartered Society of Physiotherapy National Congress, 18th October 2008, Manchester, England.

Hancock, N., **Lennon, S.**, FitzPatrick, C. 'National clinical guidelines for stroke: key messages for physiotherapists', Chartered Society of Physiotherapy National Congress, 18th October 2008, Manchester, England.

Crosbie, J.H., **Lennon, S.**, McGoldrick, M.C., McNeill, M.D.J., Burke, J.W., **McDonough, S.M.** 'Virtual reality in the rehabilitation of the upper limb after hemiplegic stroke: a randomised pilot study', 7th ICDVRAT with ArtAbilitation, 8th - 11th Sept 2008, Maia, Portugal.

Liddle

Hunter, R., Baxter, G.D., Bradbury, I., Delitto, A., Dhamija, S., Glasgow, P., Gormley, G., Hurley, D., **Liddle, S.D.**, **McDonough, S.M.**, Park, J., **Walsh, D.M.** 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study', *Alternative Therapies*, no. 15, is. 3, S108, North American Research Conference on Complementary and Integrative Medicine, 12th-15th May 2009, Minneapolis, USA.

Hunter, R.F., **McDonough, S.M.**, **Liddle, S.D.**, **Walsh, D.M.**, Dhamija, S. 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study', Rehabilitation and Therapy Research Society 5th Annual Meeting, 8th May 2009, Cork, Ireland.

Liddle, S.D., Sinclair, M., Brown, H.A., Nicholl, P., Wallace, J.G. 'User acceptability of an integrated low back pain assessment tool', Physiotherapy Research Society, 6th-7th May 2009, Glasgow Caledonian University, Scotland.

Liddle, S.D., Sinclair, M., Brown, H.A., Nicholl, P., Wallace, J.G. 'User acceptability of an integrated low back pain assessment tool, Royal College of Nursing: International Nursing Research Conference, 24th-27th March 2009, Cardiff, Wales.

Liddle, S.D., Sinclair, M., Brown, H.A., Nicholl, P., Wallace, J.G. 'User acceptability of an integrated low back pain assessment tool', Trauma and Rehabilitation RRG, February 2009, N.Ireland.

Hunter, R.F., **McDonough, S.M., Liddle, S.D., Walsh, D.M.**, Glasgow, P., Gormley, G., Hurley, D., Delitto, A., Park, J., Bradbury, I., Baxter G.D., Dhamija, S. 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study', 10th Annual Meeting of the Northern Ireland Primary Care Research Forum, 10th December 2008, Belfast, UK.

Lowe-Strong

Donnelly, C., **Lowe-Strong, A.**, Rankin, J., Campbell, A., Allen, J., **Gracey, J.** 'The Role of Exercise in Cancer Rehabilitation across the UK: A Survey of Physiotherapists in Oncology and Palliative Care'. *Supportive Care in Cancer*, no. 24:327, International MASCC/ISOO Symposium Supportive Care in Cancer, 25th-27th June 2009, Rome, Italy.

Blaney, J., **Lowe-Strong A.**, Rankin, J., Campbell, A., Allen, J., Gracey, J. 'Cancer-related fatigue: Experiences from the experienced', *Supportive Care in Cancer*, no. 17: 890, International MASCC/ISOO Symposium Supportive Care in Cancer, 25th-27th June 2009, Rome, Italy.

Jalon, E.G.G., **Lennon, S.**, Hannan, J., Murphy, S., **Lowe-Strong, A.**, 'Energy Conservation for the Management of MS-Related Fatigue: An Exploratory Randomised Controlled Trial', The Society for Research in Rehabilitation, 3rd February 2009, Derby, UK.

McClurg, D., Ashe, R., **Lowe-Strong, A.** 'The benefits of pelvic floor muscle training in people with multiple sclerosis', The Royal College of Nursing Research Conference, 25th-26th March 2009, Cardiff, Wales.

McClurg, D., Ashe, R., **Lowe-Strong, A.** 'Can pelvic floor muscle training make a difference to people with multiple sclerosis?' Association of Chartered Physiotherapists in Womens Health, 20th -21st September 2008, Solihull, UK.

McClurg, D., **Lowe-Strong, A.**, Hagen, S. 'Self catheterisation for people with MS. Enhancing self care', Social Dimensions of Health Institute Conference, 15th -17th September 2008, Scotland, UK.

McDonough

Baxter, G.D., **Bleakley, C.M., McDonough, S. M.** 'Clinical effectiveness of laser acupuncture: A systematic review'. 5th Symposium on Acupuncture and Meridian Studies, 4th -5th October 2008: Seoul, Korea.

Toye, L., Graham, M., McCann, S., Murphy, S., **McDonough, S.**, Bunting, B., Dunne, H., **Porter-Armstrong, A.** 'The psychometric evaluation of an Irish inpatient satisfaction questionnaire', The British Psychological Society Annual Conference, 1st-3rd April 2009, Brighton, UK.

Hunter, R., Baxter, G.D., Bradbury, I., Delitto, A., Dhamija, S., Glasgow, P., Gormley, G., Hurley, D., **Liddle, S.D., McDonough, S.M., Park, J., Walsh, D.M.** 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study, *Alternative Therapies*, no. 15, 3, S108.

Crosbie, J.H., Lennon, S., McGoldrick, M.C., McNeill, M.D.J, Burke, J.W., **McDonough, S.M.** ‘Virtual reality in the rehabilitation of the upper limb after hemiplegic stroke: a randomised pilot study’, 7th ICDVRAT with ArtAbilitation, 8th - 11th Sept 2008, Maia, Portugal.

McCann, S., Patterson, C., Hunter, R.H., **McDonough, S.M.** ‘A qualitative investigation of participants’ experiences of an RCT of auricular acupuncture and exercise for people with chronic low back pain’, North American Research Conference on Complementary and Integrative Medicine, 12th-15th May 2009, Minneapolis, USA.

McDonough, S.M., Yuan, J., Park, J. ‘Development and testing of an auricular acupuncture protocol for a clinical trial in chronic low back pain’, North American Conference on Complementary and Integrative Medicine, North American Research Conference on Complementary and Integrative Medicine, 12th-15th May 2009, Minneapolis, USA.

Bleakley C.M., O’Connor, S., Tully, M.A., Roche, L.G., MacAuley, D.C., McDonough, S.M. ‘PRICE in the management of acute ankle injuries: A randomised controlled trial’. Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009. University College Cork, Ireland

Crosbie, J.H., McGoldrick, M.C., **Lennon, S.,** Ma, M., McNeill, M.D.J., **McDonough, S.M.** ‘Healthy user testing of a bilateral upper limb virtual reality system for use in stroke rehabilitation’, Rehabilitation and Therapy Research Society 5th Annual Conference; 8th May 2009. University College Cork, Ireland

Hunter, R.F., **McDonough, S.M., Liddle, S.D., Walsh, D.M.,** Dhamija, S. ‘Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study’, Rehabilitation and Therapy Research Society 5th Annual Meeting, 8th May 2009, Cork, Ireland.

Burke, J., McNeill, M.D.J., Charles, D., **Crosbie, J., McDonough, S.M.** ‘Environment, Cultural Heritage, Health, Smart buildings, V-commerce and Education’ 1st IEEE International Conference in Games and Virtual Worlds for Serious Applications- best paper, Coventry, 23rd -24th March 2009

Hendricks, P., Hale, L., Baxter, G.D., Milosavjevic, S., Hurley-Osing, D., **McDonough, S.M.** ‘The role of physical activity in functional recovery in a low back pain cohort: a longitudinal analysis’, Rehabilitation and Disability Research Theme: Connecting for the future, 4-5th December 2008, University of Otago, New Zealand.

Hurley, D.A., Brady, L., O’Brien, E., **McDonough, S.M.,** Baxter, G.D., Heneghan, C. ‘Subjective and objective evaluation of the physical activity profiles of people with low back pain and age-matched controls over 7-days’, Society for Back Pain Research, 6th-7th November 2008, Keele University.

McDonough, S.M., Bleakley, C.M., Baxter, G.D. ‘Laser acupuncture: a systematic review’, The Fourth Symposium on Acupuncture and Meridian Studies, 4th-5th Oct 2008, Seoul, Korea.

Crosbie, J., Lennon, S., McGoldrick, C., McNeill, **McDonough, S.M.** ‘Virtual reality in the rehabilitation of the upper limb after hemiplegic stroke: a randomised pilot study’, International Conference on Disability, Virtual Reality and Assistive Technologies (ICDVRAT), Maia & Porto, Portugal, Sept 2008.

Burke, J.W., Morrow, P.J., McNeill, M.D.J, **McDonough, S.M.,** Charles, D.K. ‘Vision Based Games for Upper-Limb Stroke Rehabilitation’, International Machine Vision and Image Processing Conference (IMVIP), 3rd-5th September 2008, Portrush, N. Ireland.

Walsh, D.M., Scudds, R.A., Baxter, G.D., McDonough, S.M., Scudds, R.J. ‘Transcutaneous Electrical Nerve Stimulation for the treatment of pain in physiotherapy practice, An international comparison of usage and perceived effectiveness’. International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

Hunter, R.F., **Bleakley, C.M., Walsh, D.M., McDonough, S.** 'The hypoalgesic effects of manual and electroacupuncture on experimentally-induced pain in humans: a systematic review', International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

McVeigh

McToal, M., **McVeigh, J.G.** 'The impact of fatigue on patients with fibromyalgia syndrome: a survey'. Pain and Movement Official Satellite Symposium of the 12th World Congress on Pain, Pain Mind and Movement, 13th-15th August, 2008, Royal College of Physicians: Dublin, Ireland.

Moran

Moran, F.M., Bradley, J.M., Piper, A.J., Hewitt, O., McCrum-Gardiner, E.E., Elborn, J.S. 2008. 'Non-invasive ventilation: a useful airway clearance adjunct in patients with severe bronchiectasis', *Irish Journal of Medical Science*, no. 77, suppl 13.

Moran, F. 2008. 'NIV for sputum clearance'. Allied Health Professionals British Thoracic Society Winter Meeting, 3rd-5th December 2008, London, UK

O'Neill

Earley, D., **O'Neill, B.,** MacMahon, J., **Bradley, J.M.** 2008. 'Assessing the benefit of education in pulmonary rehabilitation: the development of a questionnaire' *Thorax*, vol. 63, suppl. vii, A92.

Kent, L., **Bradley, J.M., O'Neill, B.,** Derchak, P.A., Elborn, J.S. 'Assessment of night-time cough during IV antibiotic therapy using the LifeShirt: A pilot study', Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK.

Kent, L., **O'Neill, B.,** Davison, G., Nevill, A., Elborn, J.S., **Bradley, J.M.** 'Validity and reliability of cardiorespiratory measurements recorded by the LifeShirt during exercise tests' Association of Chartered Physiotherapists in Respiratory Care, 5th December 2008, London, UK.

Earley, D., **O'Neill, B.,** MacMahon, J., **Bradley, J.M.** 2008. 'Assessing the benefit of education in pulmonary rehabilitation: the development of a questionnaire'. Association Chartered Physiotherapists in Respiratory Care Conference, December 2008

Bradley, J.M., Kent, L., **O'Neill, B.,** Boyle, L., Nevill, A.M., Derchak, A., Elborn, J.S. 'Cardiorespiratory responses to exercise during intravenous antibiotic therapy in cystic fibrosis: assessment using the LifeShirt', *Thorax*, no. 63 (suppl vii): A97- A98, British Thoracic Society Winter Meeting, 3rd-5th December 2008, London, UK.

Kent, L., **Bradley, J.M., O'Neill, B.,** Davison, G.W., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Validity and reliability of ventilation measured by the Lifeshirt: a potential outcome measure for clinical trials', *Thorax*, no.63 (suppl vii): A126- A127, British Thoracic Society Winter Meeting, 3rd-5th December 2008, London, UK.

Kent, L., **Bradley, J.M., O'Neill, B.,** Davison, G.W., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Validity and repeatability of ventilation measured by the LifeShirt: a potential outcome measure for CF trials', *Pediatric Pulmonology*; no. 43 (suppl 31): S449, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Kent, L., **Bradley, J.M., O'Neill, B.,** Derchak, P.A., Elborn, J.S. 'Assessment of night-time cough during IV antibiotic therapy using the LifeShirt: A pilot study', *Pediatric Pulmonology*, no. 43 (suppl 31): S450, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Bradley JM, Kent, L., **O'Neill, B.**, Boyle, L., Nevill, A.M., Derchak, P.A., Elborn, J.S. 'Cardiorespiratory responses to exercise during intravenous antibiotic therapy in CF: assessment using the LifeShirt', *Pediatric Pulmonology*, no. 43 (suppl 31): S461, 22nd Annual North American Cystic Fibrosis Conference, 23rd-26th, October 2008, Orlando, USA.

Porter- Armstrong

Harte, D., Gordon, J., Shaw, M., **Stinson, M.D., Porter-Armstrong, A.** 'The Use of pressure and silicone in Hypertrophic scar management in burns patients: a pilot randomised controlled trial', 42nd British Burn Association Annual Meeting, 3rd April 2009, Belfast, N. Ireland.

Toye, L., Graham, M., McCann, S., Murphy, S., **Mc Donough, S.**, Bunting, B., Dunne, H., **Porter-Armstrong, A.** 'The psychometric evaluation of an Irish inpatient satisfaction questionnaire', The British Psychological Society Annual Conference, 1st-3rd April 2009, Brighton, UK.

Wright, C., **Casey, J., Porter-Armstrong, A.** 'Establishing Best Practice in Children's Seating Assessment', 25th International Seating Symposium, 12th-14th March 2009, Florida: USA.

Porter-Armstrong, A., Adams, C., **Stinson, M.**, Moorhead, A., **Gardner, E.**, Donnelly, J., McElroy, S., McDonald, S., Deegan, S., Brannigan, P., Bader, D., Nixon, J., Lyder, C., Blair, P. 'Ultrasound imaging: A useful technique in seating assessment?' 25th International Seating Symposium, 12th-14th March 2009, Florida, USA.

Adams, C., Moorhead, A., **Stinson, M., Porter-Armstrong, A., Gardner, E.**, Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?' Eleventh Annual EPUAP Meeting, 3rd-6th September 2008, Bruges, Belgium.

Adams, C., Moorhead, A., **Stinson, M., Porter-Armstrong, A., Gardner, E.**, Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 2008. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?', *European Pressure Ulcer Advisory Panel Review*, vol. 9, no. 2, p. 51.

Stinson

Adams, C., Moorhead, A., **Stinson, M., Porter-Armstrong, A., Gardner, E.**, Donnelly, J., Deegan, S., Nixon, J., Bader, D., Lyder, C. 'Repeatability of high frequency ultrasound scanning in pressure ulcer prevention: can it be achieved?' Eleventh Annual EPUAP Meeting, 3rd-6th September 2008, Bruges, Belgium.

Porter-Armstrong, A., Adams, C., **Stinson, M.**, Moorhead, A., **Gardner, E.**, Donnelly, J., McElroy, S., McDonald, S., Deegan, S., Brannigan, P., Bader, D., Nixon, J., Lyder, C., Blair, P. 'Ultrasound imaging: A useful technique in seating assessment?' 25th International Seating Symposium, 12th-14th March 2009, Florida, USA.

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Vance, C.G., Rakel, B.A., Blodgett, N.P., DeSantana, J.M., Amendola, A., **Walsh, D.M.,** Frey-Law, L.A., Sluka, K.A. 'Effects of high and low frequency TENS on knee osteoarthritis pain', International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

Rakel, B.A., Adams, H.J., Cooper, N.A., Dannen, D.R., Granquist, M.J., Messer, B.R., Miller, C.A., Mitschelen, A.C., Ruggle, R.C., Vance, C.G., Frey Law, L.A., **Walsh, D.M.,** Sluka, K.A. 'Increasing TENS intensity produces greater analgesia when compared to a new placebo that allows true investigator blinding', International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

Walsh, D.M., Scudds, R.A., Baxter, G.D., McDonough, S.M., Scudds, R.J. 'Transcutaneous Electrical Nerve Stimulation for the treatment of pain in physiotherapy practice, An international comparison of usage and perceived effectiveness'. International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

McKenna, J., Cowan, S., Gardner, E., Hunter, R.F., Johnson, M.I., Sluka K.A., **Walsh, D.M.** 'A comparison of the hypoalgesic effects of TENS using two different electrodes', International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

Hunter, R.F., Bleakley, C.M., Walsh, D.M., McDonough, S. 'The hypoalgesic effects of manual and electroacupuncture on experimentally-induced pain in humans: a systematic review', International Association for the Study of Pain, 12th World Congress on Pain, 17th-22nd August 2008, Glasgow, UK.

Blodgett, N.P., Rakel, B.A., Vance, C.G., Amendola, A., **Walsh, D.,** Sluka, K. 'The relationship between pain and physical function in older adults with knee osteoarthritis', Gerontological Society of America's 61st Annual Scientific Meeting. 21st-25th November 2008, Maryland: Washington DC, USA.

Hunter, R.F., **McDonough, S.M., Liddle, S.D., Walsh, D.M.,** Glasgow, P., Gormley, G., Hurley, D., Delitto, A., Park, J., Bradbury, I., Baxter G.D., Dhamija, S. 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study', 10th Annual Meeting of the Northern Ireland Primary Care Research Forum, 10th December 2008, Belfast, UK.

Hunter, R.F., **McDonough, S.M., Liddle, S.D., Walsh, D.M.,** Dhamija, S. 'Exercise and manual auricular acupuncture for people with chronic low back pain: a feasibility study', Rehabilitation and Therapy Research Society 5th Annual Meeting, 8th May 2009, Cork, Ireland.

J. Wulf, T. Golz, L. C. Busch, Winder, R.J. Hoch, J. Rechnergesteuerte konstruktion individueller silikonimplantate zur rekonstruktion der trichterbrust. Deutsche Gesellschaft der Plastischen, Rekonstruktiven, und Asthetischen Chirurgen, 2nd – 4th October 2008, Stuttgart, Germany

IMPACT OF RESEARCH ON GOVERNMENT POLICY

Lennon

National Physiotherapy Representative on the Intercollegiate Working Party for Stroke (IWPS) at the Royal College of Physicians (RCP, London)

CHAIRING OR MEMBERSHIP OF DISTINGUISHED COMMITTEES RELATED TO RESEARCH

Bradley

Co. Lead: Northern Ireland Clinical Research Network (Respiratory Health)
Member: Research Committee British Lung Foundation
Member: Research Advisory Committee CF Trust
Member: OPMS Research Committee Belfast Trust
Lead: Work Package European Centres of Reference Network for Cystic Fibrosis” (ECORN-CF). Patients and health Professions (ECORN project)
Invited member: Clinical Academic Training working group, NI R&D office

Crosbie

Member: Allied Health Professions Research Forum NI

Gracey

Executive Committee: Trauma & Rehabilitation Recognised Research Group of the Research & Development Office (NI)
Member: Cancer Recognised Research Group

Hughes

Member: International Society for Complementary Medicine Research
Member: Trauma and Rehabilitation Recognised Research Group
Member: Cancer Recognised Research Group

Lennon

Joint Clinical Lead: Northern Ireland Clinical Research Network (Stroke)
Chair: Neurological Rehabilitation subgroup of the Trauma & Rehabilitation Recognised Research Group of the Research & Development Office (NI)
Northern Ireland representative on the National Physiotherapy Research Network (NPRN)

Liddle

Executive Committee: Trauma & Rehabilitation Recognised Research Group of the Research & Development Office (NI)
Executive Committee: Physiotherapy Research Society (UK CSP)

Lowe-Strong

Member: Trauma and Rehabilitation Recognised Research Group
Member: Cancer Recognised Research Group

McDonough

Vice Chair of the Scientific Panel, Chartered Society of Physiotherapy

Moran

Member: Northern Ireland Critical Research Network (Critical care)
Member: Regional Physiotherapy Acute Respiratory Interest Group

O'Neill

Member: Northern Ireland Clinical Research Network (Respiratory Health)
Management Committee
Member: Association Chartered Physiotherapists in Respiratory Care Committee

Porter-Armstrong

Member: Scientific Committee European Seating Symposium
Member: Research & Development Board, College of Occupational Therapists, London
Member: Research Awards Panel, College of Occupational Therapists, London
Member/PI: the Trauma and Rehabilitation Recognised Research Group & Wound Healing sub-group.
Member: European Pressure Ulcer Advisory Panel

Walsh

Member: Scientific Panel, Chartered Society of Physiotherapy

Winder

Member: Trauma and Rehabilitation Recognised Research Group
Member: Cancer Recognised Research Group

SERVICE ON, OR INVITATIONS TO JOIN, GOVERNMENT, NATIONAL OR INTERNATIONAL BODIES OR PROFESSIONAL ADVISORY BODIES, RELEVANT TO RESEARCH

Bleakley

Invitation from the Association of Chartered Physiotherapists in Sports Medicine UK (ACPSM) to coordinate the development of 'Clinical guidelines for the use of PRICE on the management of acute soft tissue injury'. (guidelines due for publication 2010)

Bradley

Co. Lead Northern Ireland Clinical Research Network (Respiratory Health)
Member: Research Committee British Lung Foundation
Member: Research Advisory Committee CF Trust

Lennon

Member: UK Stroke Research Network Operational Steering Group
Northern Ireland Representative: National Physiotherapy Research Network (CSP, London)

McDonough

Invited member: Clinical Academic Training working group, NI R&D office
Invited member: Clinical management group for NI Primary Care Research Member: Network to represent the Allied Health Professions.
Member: International Society for Electrophysical Agents
Member: International Society for Physiotherapy Journal Editors

McVeigh

Member: Office of Research Ethics Committee (ORECNI)
Member: CSP Research and Clinical Effectiveness Committee
Member: The International Society of Physiotherapy Journal Editors

Porter-Armstrong

Reviewer of Health Technology Assessment Commissioning Vignettes.
Learning Sets Facilitator, Public Health Agency HSC Research and Development Office Belfast.

Winder

Member: Cancer Recognised Research Group
Member/PI: the Trauma and Rehabilitation Recognised Research Group

EDITORIAL ACTIVITIES (Including, for example, membership of the editorial boards of journals)

Bradley

Editor: *Association Chartered Physiotherapists in Respiratory Care*

Kerr

Editorial board: *Physical Therapy Reviews*
Editorial board: *International Journal of Therapy and Rehabilitation*

Lennon

Editorial Board: *Disability & Rehabilitation*
Editorial Board: *Physical Therapy Reviews*
Editorial Board: *Physiotherapy Research International*

Liddle

Editorial Consultant: *American College of Physicians Information and Education*

Lowe-Strong

Editorial Board: *International Journal of Therapy and Rehabilitation*

McDonough

Assistant Editor in Chief: *Physical Therapy Reviews*

O'Neill

Editor: *Journal of the Association Chartered Physiotherapists in Respiratory Care*

Porter-Armstrong

Editorial Board: *British Journal of Occupational Therapy*

Editorial Board: *Physical Therapy Reviews*

Editorial Board: *Quality in Ageing*

Walsh

Editorial Board: *Physical Therapy Reviews*

Winder

Editorial Board: *British Journal of Oral and Maxillofacial Surgery*