



Faculty of Health
Subject Group Report
Rehabilitation Sciences
September 2010

Introduction

The purpose of the Rehabilitation Sciences group is to provide a wide ranging portfolio of courses for health professionals working in the NHS and the wider community. The Rehabilitation Sciences group was formed in May 2009 following the addition of Occupational Science and Occupational Therapy to Physiotherapy, Sports Therapy and the Centre for Community Neurological Studies.

Each professional area offers education in their specialist area and the courses are outlined below:

Physiotherapy:

BSc (Hons) Physiotherapy
MSc Physiotherapy (pre-reg)

Sports Therapy:

BSc(Hons) Sports and Exercise Therapy
MSc Sports Therapy

Occupational Science and Occupational Therapy:

MSc Occupational Therapy (pre reg)
MSc Occupational Science (post reg)
MSc occupational Therapy (post reg)

Centre for Community Neurological Studies:

MSc Programme offering masters level study in
Epilepsy, Parkinson's Disease, Multiple Sclerosis and Stroke Care
Professional Diploma programme offering courses in
Epilepsy, Stroke Care, Multiple Sclerosis and Parkinson's Disease
University Certificate in Epilepsy Practice

The following report encompasses the group's activities over the year.

Review of the Aims and Objectives 2009/10

Objective 1

To develop additional clinical and volunteering opportunities across the Sports Therapy and Pre Registration Physiotherapy courses including contributing to the 2012 and 2018 Olympics.

Review

This objective has been met. Additional practice opportunities for both undergraduate and post-graduate Sports Therapy students have been developed through clinics at Leeds University and at the University's Headingley campus. Volunteering opportunities have also been further developed and all first year Physiotherapy students now undertake a one week volunteer placement. Other volunteering opportunities have been provided for sports therapy students either through placement modules or at large sporting events such as the Great North Run.

Objective 2

To develop the first level assessment and feedback (FLAP) philosophy across all pre-registration courses and consider how this can be adapted for the CCNS courses to minimise attrition. In addition, within all CCNS courses e-activities and Elluminate has been introduced to facilitate individual introductions and group activities to encourage group working and sharing of ideas.

Review

This objective has been met. First year assessment and feedback has been a focus over the past year. Greater use of formative feedback during the first year of our undergraduate and pre-registration programmes has been well received by students.

Objective 3

To consider how third stream funding can be maximised within the group including a review of the potential demands for short courses for post registration health professionals in the area.

Review

This objective has been met. A number of new initiatives have been introduced to develop third stream funding. As a result income from third stream activities has increased.

Objective 4

To continue to develop new knowledge within our areas of expertise through the fostering and sustaining of a culture that engages all academic staff in research and/or scholarly activity.

Review

This objective has been met.

Objective 5

To plan and work towards the successful approval of the following pre-registration courses in November 2010, BSc (Hons) Physiotherapy, MSc Physiotherapy and MSc Occupational Therapy, engaging with the SHA, professional bodies, service users and clinical colleagues.

Review

This objective has been met. The BSc (Hons) Physiotherapy was approved in July 2010 and Work is well underway in preparation for the reapproval of the MSc Physiotherapy and MSc Occupational Therapy.

Objective 6

To continue to use the expertise within the group to develop opportunities for the implementation of technology enhanced learning (TEL) in all modules within the group.

Review

This objective has been met. Increased use of TEL has been apparent across all courses. Dr David Punt was awarded the Faculty 'TEL Us More' Prize for the M level module Understanding & Evaluating the Evidence. "Elluminate" has been used to facilitate on line discussion in a number of modules.

Staffing

Rehabilitation Science: academic staff:

Ana Aragon, Associate Lecturer
Jamie Bell, Senior Lecturer
Ian Blackburn, Associate Senior Lecturer
Phil Commons, Associate Lecturer
Jane Cronin-Davies, Principal Lecturer
Kate Grafton, Senior Lecturer
Karen Hodgson Associate Senior Lecturer
Gareth Jones, Associate Lecturer
Liz Mackay, Subject Group Leader
Angela Murphy, Associate lecturer
Gill Phillips, Senior Lecturer
David Punt, Reader
Kate Randerson, Senior Lecturer
Kate Rudd, Associate Lecturer
Paul Sharples, Principal Lecturer
Charikleia Sinani, Senior Lecturer
Miranda Thew, Senior Lecturer
Kate Thompson, Lecturer
Debbie Windley, Senior Lecturer
Mick Young, Senior Lecturer
Heather Gregory (part time)
Sue Higgins (part time)
Ann Holland (part time)
Rowena Wright (part time)

Rehabilitation Science Principal Learning Officer:

Julie Blythe

Administrative Staff:

Diane Jacklin, BSc (Hons) and MSc Physiotherapy
Christopher Kitchen, MSc Occupational Therapy
Constance Mulrain, BSc (Hons) and MSc Sports Therapy
Claire Allwood, CCNS
Tracey Crow, CCNS

Group Activities

The Rehabilitation Sciences group comprises of staff involved in the delivery of courses and other activity in the areas of Physiotherapy; Occupational Therapy and Occupational Science; Sports Therapy and Neurological studies.

The 2009-10 academic year has seen continued success of the group in providing a high quality student experience. A highlight of the past year was that the BSc (Hons) Physiotherapy course run was ranked top of the National Student Survey for Physiotherapy across the UK. This ranking is a direct measure of how highly physiotherapy students perceive the quality of their learning experience at Leeds Met.

Assessment learning and teaching

The group has been active in developing and enhancing ALT activities and has engaged in a variety of activities across the faculty including:

Kate Grafton has contributed to the new ALT Personal Tutor Booklet as part of her Teacher Fellow role. Kate has also taken part in the Faculty's HEA Enhancement Academy (Reflection in Health) project by facilitating a workshop on 'Elluminate' web conferencing and presented back activity and progress to the university wide steering group. As one of the Faculty Coaches for the PCGHE Kate has had a role in peer observation and review of the taught element of the course and also had input into the evaluation process of the new course.

Technology enhanced learning is a feature that has developed across course and modules, notably David Punt was awarded the Faculty 'TEL Us More' Prize for the M level module Understanding & Evaluating the Evidence.

The CCNS has developed the use of Elluminate, assignment submission, online discussions etc. across all modules.

Volunteering

Volunteering is considered a valuable aspect of the student experience and a number of volunteering opportunities have been undertaken by students across courses.

Kate Randerson – Accompanied 10 Year 2 BSc (Hons) Sports and Exercise Therapy students to the Great North Run to support the Runners of St Gemma's Hospice.

Kate Randerson and Gareth Jones – Supervised MSc Sports Therapy students at Carnegie rowing event (for Try assist Rugby League Charity) to provide inter and post event massage).

Other students still volunteer for SNAPS and a current first year for Banardoes.

Dr. Charikleia Sinani and Liz Mackay with other colleagues from the Faculties of Health and Carnegie of Sport and Education have secured funding to involve students across all courses in volunteering. At the moment more than 20 students have volunteered across Faculties.

Placements

Students on the MSc Occupational Therapy (Pre-registration) course do well in exploring partnerships for placements within the Leeds area. For their role-emerging placement, students have contributed significantly to service developments and have proposed a number of sustainable projects with an occupational perspective e.g. Leeds Library, SNAPS, Refugee and Asylum seekers services.

We have arranged new practice placements for Physiotherapy and Sports Therapy students with Burnley FC and hospices for palliative care.

Staff development

Staff engage in a variety of staff development opportunities which have included on going PhD studies, PGCHE, attendance at Clinical courses, conferences and in-house activities in relation to ALT, recruitment and selection and updating for exam board chairs and course leaders.

Jane Cronin-Davis completed her PhD in March, 2010.

Jamie Bell completed his PGCHE.

Kate Thompson is awaiting ethical approval for a cohort study for her MSc in Rehabilitation studies which she hopes to complete by the end of January 2011.

Kate also commenced the PGCHE and is due to complete the award by the end of September 2010.

Phil Commons is nearing completion of her PhD. She has also participated in a one day course on Upper Limb Tendinopathy, attended a study day at the CSP Headquarters of ADAPT (Special Interest Group) and presented a paper at the Annual study Day of MIMDT practitioners in Birmingham.

A number of The Rehabilitation Sciences group have completed 3 day First Aid course to support the delivery of Sports Therapy.

Clinics

Clinic developments have continued, particularly to provide practice experience for Sports Therapy students. Ian Blackburn established the massage clinic for the MSc Sports Therapy students at Carnegie for non elite sports performers to receive sports massage treatments.

Jamie Bell has been actively involved in the development of physiotherapy clinics at One Medicare and Leeds University. A Sports performance clinic has been opened at Leeds University. Sports Therapy students provide an assessment and treatment service for sports students under the close supervision of the academic staff.

Partnerships

Partnership working continues to enhance the activities of the group and the student experience.

Links have been established with charity organisations including: Hemihelp, Riding of the Disabled (RDA) and Disabled Living. This has allowed students to engage in a number of research activities but also volunteering and access to free workshops.

Students from the BSc (Hons) Sports Therapy course joined forces with students on the BSc (Hons) Sports Coaching to provide live analysis for all Bradford City home games, gaining invaluable experience in sporting analysis and strengthening the University's partnership with the football club. We also have two students in our current level two involved with piloting of player welfare software system Leeds United.

Our partnership with the West Yorkshire Multiple Sclerosis Therapy Centre continued to flourish. In addition to members of the Centre contributing to teaching in the Faculty, members also participated in student research projects and Rowena Wright (Ass Senior Lecturer) is now employed by the Centre to provide a physiotherapy service for the members.

Other

Dr. Charikleia Sinani, Dr. David Moore (Innovation North), John Reaney, Helen Smith (Disability, and Andrea Gorra (Faculty of Business and Law) ran a workshop in the Staff Development Festival which reviewed the work of the disability research group and how it

might help improve our ALT practice at Leeds Met.

Dr. Sinani was also invited to deliver a workshop, titled 'Children with Developmental Co-ordination Disorder (DCD) and its relationship to sport and Physical Education' at the Disabled Living conference, held in Coventry in March 2010.

Paul Sharples has contributed to the review of University regulations in the areas of Mitigation and Cheating Plagiarism and Unfair Practice. He has also been involved in delivery of training for Chairs of boards of examiners with colleagues from Registry.

Phil Commons helped to organise and participated in a Homeless Awareness Day at Leeds Met, and attended a one day conference on Disability in the Developing World at Manchester University.

The group hosted, developed and contributed to a 2 day International Sports Medicine, Science and Performance conference, in July 2010.

Group International Activities

Rehabilitation Sciences was once again successful in securing PMI2 British Council funding for Malaysia Placements. Two Occupational Therapy and 6 Physiotherapy students undertook placements with our partner Pantai Rehab in Penang & Kuala Lumpur.

MSc Physiotherapy elective placements have also been undertaken at several international locations, 3 in the USA (California, New York and Denver) and 2 in Canada (via University of British Columbia and Toronto).

Several Physiotherapy graduates have taken the opportunity to undertake internships, perceptorships and volunteering placements with our partners in Tanzania, Malaysia and Nepal and further funding has been received to continue with these programmes for another year.

An MSc Physiotherapy graduate is doing an internship in Tanzania for internationalisation. Three international students (2 Canadian and one American) successfully completed the MSc Physiotherapy (pre reg) course with eligibility to apply for registration in their own country.

Course Development

MSc Occupational Therapy: Is due for re-approval in November 2010 and work is underway in preparation for this.

MSc Occupational Science and MSc Occupational Therapy: These two courses are to be combined into as part of the overall review of the Faculty CPD framework.

BSc Physiotherapy: Was reapproved in July 2010 with no conditions. The course was highly regarded by the panel and was awarded 6 commendations.

MSc Physiotherapy: Is due for re-approval in November 2010 and work is underway in preparation for this.

MSc Sports Therapy: Two new option modules have been developed this year in the areas of rehabilitation and musculoskeletal anatomy.

Centre for Community Neurological Studies:

At the moment we have a number of new modules developed across the centre.

For the MSc Stroke two modules were developed; Diagnosis and Assessment, Management of Stroke.

Research and Scholarly Activity

David Punt completed a Yorkshire Enterprise Fellowship Award (£40,000) developing a collision avoidance system for a powered wheelchair and is continuing related work supported by a second grant from the Posture and Mobility Group (£5,000).

David Punt served for a 3rd successive year on the Yorkshire and Humber Regional Committee for the NIHR's Research for Patient Benefit programme.

David Punt continues to serve on Council for the Society for Research in Rehabilitation and will host the 2-day summer meeting of the Society at Leeds Metropolitan University in 2012.

The end of course conference shared with the MSc Physiotherapy (Pre-registration) students was a great success again this year. Both the occupational therapy and physiotherapy students presented papers and posters related to their research projects, practice placement experiences and international placements. It was well attended and highly evaluated by their guests, academic staff and Senior Managers of the University.

Dr. Charikleia Sinani's research activities include international and national conference presentations, successful and unsuccessful grant submissions, submitted research papers in peer reviewed articles and membership/ representation to national (e.g. NPRN) and international research groups (e.g. International Society for research into DCD, www.ifr/dcd.org.uk) and collaborations with charity organisations. She was invited to deliver a workshop in the 18th International Congress of Physical Education and Sport (I.C.P.E.S.), Komotini, Greece.

Jane Cronin-Davis completed her PhD in March, 2010: Occupational therapy practice with male patients diagnosed with personality disorder in forensic settings: a qualitative study of the views and perceptions of patients, managers and occupational therapists. The research is now completed and being written up for publication. This research was a survey of graduates (n=30) from the MSc Occupational Therapy (Pre-registration) course and examined their experiences of the course at Leeds Metropolitan University. Initial data analysis indicates that the students valued their experiences and emphasised how problem-based learning had contributed to their ability to make the transition from student to practitioner.

Publications

Benham A, Phillips G, Johnson MI. "An experimental study on the self-report of acupuncture needle sensation during deep needling with bi-directional rotation" *Acupunct Med* 2010;28:16-20.

Cahill, A. & Punt, D. 2009, "The relationship between errorless learning and consistent movement patterns", *Journal of Sports Sciences*, vol. 27, no. 4, p. S114-S115.

Cronin-Davis, J. Butler, A. & Mayers, C (2009). Interpretative Phenomenological Analysis and Occupational Therapy: comparable research companions. *British Journal of Occupational Therapy*, 72(8), 332-338.

Kemp, F. & Punt, D. 2009, "Explicit information disrupts motor learning after stroke: an attentional hypothesis?", *Clinical Rehabilitation*, vol. 23, no. 8, p. 759.

Murphy A (2010) Occupational Profile: An interview with Gavin Pitt. *Journal of Occupational Science*, 17(1), 60 -62.

Murphy A. (2010) Occupational Profile: An Interview with Gavin Pitt *Journal of Occupational Science* 17 (1) pp. 60 -62.

Silva, A. G., Punt, T. D., & Johnson, M. I. 2010, "Reliability and validity of head posture assessment by observation and a four-category scale", *Man.Ther.*

Silva, A. G., Sharples P., & Johnson, M. I. 2010, "Studies comparing surrogate measures for head posture in individuals with and without neck pain" *Physical Therapy Reviews* 2010 vol. 15, no. 1, p12-22.

Sinani, C. Hill, E., & Sugden, D.A. (submitted) Gestural production in different samples of children with DCD and typically developing children. *Research in Developmental Disabilities. Special Issue in Developmental Coordination Disorder.*

- Sinani, C. (2010). Physical Education and children with hemiplegia. Workbook for parents and professionals. London: Hemihelp.

Sturt, R., Lovatt, J., & Punt, D. 2009, "Caloric vestibular stimulation effects are selective for asymmetrical motor activities in patients with spatial neglect", *Clinical Rehabilitation*, vol. 23, no. 8, p. 758.

Thew, M, Edwards M., Molineux, M., Baptiste, S., (Eds) (in press). *Emerging Practice for Occupational Therapists*, Oxford: Blackwell-Wiley.

Windley, D. (2009) Strategies for sensory processing disorders In Curtin, M., Molineux, M. & Supyk-Mellson, J. (Eds) *Occupational Therapy and Physical Dysfunction. Enabling Occupation* 6th ed. London, Churchill Livingstone Elsevier pp 637-651.

Windley, D. & Chapman, M. Support workers perception of their role, training and support needs. *British Journal of Learning Disabilities* In Press.

Conference Presentations

Cronin-Davis, J. & Lang, M. (2010). *Promising practice: the evidence-based benefits of occupational therapy with men diagnosed with personality disorder diagnosis*. Paper presented at the 10th Annual International Association of Forensic Mental Health Services Conference, Vancouver, Canada.

Cronin-Davis, J. (2009). *Flirting with methodologies: IPA an obvious choice*. Paper presented at the York St John University Researcher Conference, York, UK.

Cronin-Davis, J. (2009). *Comparatively speaking*. Paper presented at the 10th National Forensic Occupational Therapy Conference, Newcastle upon Tyne, UK.

Cronin-Davis, J (2009). *A key profession: stand up and be counted!* Invited keynote paper Kent and Medway NHS and Social Care Trust, Occupational Therapy Conference, Ashford Kent.

Lang, M. & Cronin-Davis, J. (2010). *From theory to practice: why occupational science can underpin occupational therapy practice in forensic settings*. Paper presented at the 10th Annual International Association of Forensic Mental Health Services Conference, Vancouver, Canada.

Mackay E (2009). What is possible when nothing seems available: rehabilitation of the patient with pusher syndrome. South Yorkshire ACPIN. Sheffield, UK.

Mackay E (2010). Clinical Decision Making, Locomotion and assessment strategies. North West ACPIN, Preston, Uk

Murphy A., Baker C., Henshall S. (2010) Developing a Community MS Team. How to Deliver an Effective Community Rehabilitation Service for People with Neurological Conditions, Annual Day Conference. The Leeds National Demonstration Centre in Rehabilitation. Leeds Community Healthcare NHS Trust; Leeds teaching Hospitals Trust; University of Leeds.

Murphy A., (2010. *Setting up a service for people with Multiple Sclerosis.*) National centre for Rehabilitation Conference, Leeds UK.

Sanchez X, Lambert PH, Jones G, Llewellyn DJ. (2010) Efficacy of pre-ascent climbing route visual inspection in indoor sport climbing. Scandinavian Journal of Medicine and Science in Sports.

Sinani, C. (March, 2010). Physical Education for Children with Hemiplegia. Invited Speaker. Disabled Living and Liverpool John Moores University, Coventry, Uk (Invited Speaker).

Sinani, C. (May, 2010). Identification and assessment of children with movement difficulties (Developmental Coordination Disorder). *18th International Congress of Physical Education and Sport, Komotini, Greece* (Invited Speaker).

Thew M., (2009) *Growing Allied Health Professions for the Future*. Keynote address at AHP Annual Conference, Leeds Partnerships (NHS) Trust, November, 2009, Leeds.

Thew M., (2009) *Contemporary Occupational Therapy Practice*. Paper presented at the Occupational Therapy Conference NHS Leeds.

Other Scholarly Activity

Grant Applications

Punt, T.D. (co-applicant) Identifying the neural substrate of postural instability and gait disturbance in Parkinson's Disease with resting state functional magnetic resonance imaging, *Michael J Fox Foundation*, £500,000. *Outcome: Unsuccessful.*

Punt, T.D. (lead applicant) 'To tell or not to tell?' – optimising motor learning after stroke, *Physiotherapy Research Foundation* - £80,000. *Outcome: Unsuccessful.*

Engagement Funding Bid (£4,900). Title: Leeds Met, Boccia and Community – a partnership for Sport and Health. Names of applicants: Dr. Charikleia Sinani (PI), Pauline Fitzgerald and Liz Mackay (Faculty of Health), Dr. Bissas Athanassios and Dr. Chris Low (Carnegie Faculty of Sport and Education), Chris Fitzgerald (English Boccia Association), Helen Dowden and Benita Powrie (Managers Children's Community Physiotherapy and Occupational Therapy Teams). *Outcome: Successful.*

Physiotherapy Research Foundation (PRF) (£110,000, Scheme A). Title: Is Bimanual Training for Children with Hemiplegia: A feasibility study. Names of applicants: Dr. Charikleia Sinani (PI), Prof. Bipin Bhakta (Faculty of Medicine and Health, University of Leeds), Prof. Mark Mon-Williams (Department of Psychology, University of Leeds), Dr. Sarah Astill (Centre for Sport and Exercise Sciences, Institute of Membrane and Systems Biology, Faculty of

Biological Sciences, University of Leeds) *Outcome: Unsuccessful.*

Posture and Mobility Group (£5,000). Title: Exploring the relationship between postural stability and manual performance in children with DCD. Dr. Charikleia Sinani (PI) in collaboration with Prof. Mark Mon-Williams (Department of Psychology, University of Leeds) and Dr. Richard Wilkie (Department of Psychology, University of Leeds). *Outcome: Unsuccessful.*

(£450,000 submitted to the Efficacy and Mechanism Evaluation Program or EME, NIHR), Title: Using specific bimanual functionally directed training to improve bimanual hand-arm function in children with spastic hemiplegia. Applicants: Prof. Bipin Bhakta (PI) (Faculty of Medicine and Health, University of Leeds), Prof. David Sugden (School of Education, Leeds University), Prof. Mark Mon-Williams (Department of Psychology, University of Leeds), Dr. Charikleia Sinani (Leeds Metropolitan University). *Outcome: Unsuccessful.*

Taught courses

Liz Mackay taught a three week course on the rehabilitation of the individual with movement dysfunction in collaboration with BBTA at Northwick Park Hospital, March and June 2010.

Peer reviewing

David Punt completed reviews for the:

journals: *Cortex, Neurorehabilitation and Neural Repair, Physiotherapy, Journal of Experimental Psychology: Human Perception and Performance;*

funding bodies: *Alzheimer's Society, Northern Ireland Chest Heart and Stroke (with Kate Grafton), Stroke Association, Parkinson's Disease Society and the European Commission (FP7).*

Charikleia Sinani:

Journal Reviewer for Developmental Medicine and Child Neurology and Physiotherapy.
Grant Reviewer for NIHR schemes: Program Grants for Applied Research (PGfAR), Research for Patient Benefit Scheme (RfPB), Scottish Executive Health Department (HSRC), PRF.

External Examining

David Punt – MSc Neurorehabilitation – Brunel University

Liz Mackay – MSC Neurorehabilitation – Sheffield Hallam University

Objectives for 2010/11

Objective 1

To successfully reapprove MSc Physiotherapy and Occupational Therapy pre-registration courses, engaging with the SHA, professional bodies, service users and clinical colleagues.

Objective 2

To maintain and grow student numbers with specific emphasis on increasing recruitment of overseas students.

Objective 3

To explore further third stream funding within the group, building on prior experiences and successes.

Objective 4

To share good practice in assessment learning and teaching, including technology enhanced learning (TEL), within the group, faculty and wider university.

Objective 5

To continue to develop new knowledge within our areas of expertise through the fostering and sustaining of a culture that engages all academic staff in research and/or scholarly activity.

Objective 6

To develop further practice opportunities for Sports Therapy and Physiotherapy students in collaboration with colleagues in University sport.