

Updated 2010 July 10

Norma MacIntyre

NAME Norma Jean MacIntyre

EDUCATIONAL BACKGROUND

Degrees and Diplomas

- | | |
|------|--|
| 1999 | PhD, (Cell Biology & Metabolism), Medical Sciences, McMaster University, Hamilton, Ontario, Canada, Supervisor: Dr. C. Webber (<i>Focus: Radial Bone Apparent Trabecular Structure and Risk For Osteoporotic Wrist Fracture</i>) |
| 1994 | MSc, Anatomy and Cell Biology, University of Western Ontario, London, Ontario, Canada, Supervisor: Dr. P. Merrifield (<i>Focus: Mammalian Muscle Development</i>) |
| 1985 | BSc, Physical Therapy, University of Toronto, Toronto, Ontario, Canada |

Qualifications, Licensures and Certifications

College of Physiotherapists of Ontario (registrant), Ontario, Canada

Canadian Physiotherapy Association, Membership, Canada

Other Specialized Training

- | | |
|-------------|--|
| 2001 - 2003 | Postdoctorate, Patellofemoral Joint Biomechanics, Mechanical Engineering - Human Mobility Research Centre, Queen's University, Kingston, Ontario, Canada |
| 1999 - 2000 | Postdoctorate, Rheumatology, Medicine, McMaster University, Hamilton, Ontario, Canada |

CURRENT STATUS

- | | |
|-------------|--|
| 2007 - 2013 | Assistant Professor, School of Rehabilitation Science, Health Sciences, McMaster University |
| 2009 - 2010 | Assistant Professor (Associate Member), Kinesiology, Science, McMaster University |
| 2007 - date | Assistant Professor (Adjunct), School of Rehabilitation Therapy, Faculty of Health Sciences, Queen's University, Kingston, ON Canada |

PROFESSIONAL ORGANIZATIONS

- | | |
|----------------|---|
| 2007 - present | Networks of Centres of Excellence, Canadian Arthritis Network, Network Investigator |
|----------------|---|

- 2007 - present Arthritis Health Professions Association, Member (Research Committee Member 2009-date)
- 2002 - present Association of Rheumatology Health Professionals, Member (Committee On Education: Planning Subcommittee Member (Representing Physiotherapists and International Members) 2007 – 2009)
- 1996 - present The American Society for Bone and Mineral Research, Member
- 1985 - present Ontario Physiotherapy Association (OPA), Orthopaedic Division, Member, Member
- 2005 - 2009 Osteoarthritis Research Society International (OARSI), Member

EMPLOYMENT HISTORY

University Appointments

- 2007 - 2013 Assistant Professor, School of Rehabilitation Science, Faculty of Health Sciences, McMaster University
- 2009 - 2010 Assistant Professor (Associate Member), Kinesiology, Faculty of Science, McMaster University
- 2008 - 2009 Assistant Professor (Associate Member), Kinesiology, Faculty of Social Sciences, McMaster University
- 2007 - 2011 Assistant Professor (Adjunct), School of Rehabilitation Therapy, Faculty of Health Sciences, Queen's University, Kingston, ON Canada
- 2003 - 2007 Assistant Professor, School of Rehabilitation Therapy, Faculty of Health Sciences, Queen's University
- 2000 - 2003 Assistant Professor (Part-Time), School of Rehabilitation Science, Faculty of Health Sciences, McMaster University

Research

- 1996 - 1999 Research Assistant. Motor Teaching Strategies Lab (Dr. H. Larin), McMaster University, Rehabilitation Sciences, Hamilton, Ontario, Canada

Academic

- 2007 - 2013 Assistant Professor (Tenure-Track), School of Rehabilitation Science, Faculty of Health Sciences, McMaster University
- 2003 - 2006 Assistant Professor (Tenure-Track), Queen's University, School of Rehabilitation Therapy, Kingston, Ontario, Canada
- 2000 - 2001 Clinical Lecturer, McMaster University, Rehabilitation Sciences, MSc (Physiotherapy) Program, Hamilton, Ontario, Canada

- 1996 - 2000 Sessional Instructor, McMaster University, Rehabilitation Sciences, BHSc (Physiotherapy) Program, Hamilton, Ontario, Canada
- 1994 - 1998 Teaching Assistant, McMaster University, Rehabilitation Sciences, BHSc (Physiotherapy) Program Units I, II, III, V, VI, Hamilton, Ontario, Canada
- 1992 - 1994 Teaching Assistant, Gross Anatomy, University of Western Ontario, Anatomy and Cell Biology, London, Ontario, Canada
- 1992 Private Tutor, Neuroanatomy, University of Western Ontario, Anatomy and Cell Biology, London, Ontario

Administrative

- 2003 - present Scientific Committee Member (Resource Subcommittee Member 2004-2006; Board of Directors (Elected) 2005-2007), Human Mobility Research Centre, Queen's University, Kingston, Ontario, Canada
- 2009 - 2010 Chair, Admissions Committee of the MSc (OT) and MSc (PT) Programs, McMaster University, Rehabilitation Sciences, Hamilton, Ontario, Canada
- 2008 - 2009 Vice Chair, Admissions Committee of the MSc (OT) and MSc (PT) Programs, McMaster University, Rehabilitation Sciences, Hamilton, Ontario, Canada

Clinical

- 1992 - 1999 Casual Part-time Orthopaedic Physiotherapist, Community Rehab Services, Kincardine, Ontario, Canada
- 1990 - 1991 Associate Physiotherapist, The Physiotherapy Centre of Southwestern Ontario, London, Ontario
- 1989 - 1990 Non-rotating Orthopaedic Physiotherapist, Victoria Hospital, London, Ontario
- 1988 - 1989 Staff Physiotherapist, Wingham and District Hospital, Wingham, Ontario
- 1987 - 1988 Sole Charge Physiotherapist, Palmerston and District Hospital, Palmerston, Ontario
- 1985 - 1987 Staff Physiotherapist, Listowel Memorial Hospital, Listowel, Ontario

Consulting

- 1996 Physiotherapist, Work Recovery Centre, Hamilton, Ontario, Canada

Training

- 2001 - 2003 Postdoctoral Fellowship (funded by TAS/CIHR Health Research Partnership Fund), Queen's University, Mechanical Engineering, Human Mobility Research Centre, Kingston, Ontario, Canada
- 1999 - 2000 Postdoctoral Fellowship (funded by Canadian Arthritis Network), McMaster University, Medicine, Rheumatology Division, Hamilton, Ontario, Canada

1994 - 1999 PhD Graduate Student, McMaster University, Health Sciences, Faculty of Graduate Studies, Hamilton, Ontario, Canada

1991 - 1994 MSc Graduate Student, University of Western Ontario, Anatomy and Cell Biology, Faculty of Graduate Studies, London, Ontario, Canada

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Editorial Boards

2007 - 2010 Associate Editor, Physiotherapy Canada, The official journal of the Canadian Physiotherapy Association

Grant & Personnel Committees

2007 - 2008 Ministry of Training, Colleges and Universities Ontario Graduate Scholarship Program Academic Selection Panel, Member

Journal Referee

2009 - present Clinical Rheumatology (2 manuscripts); Medical Engineering and Physics (1 manuscript)
2008 - present Clinical Journal of Sports Medicine (1 manuscript); Bone (1 manuscript)
2007 - present Archives of Physical Medicine and Rehabilitation (3 manuscripts); Physical Therapy (3 manuscripts)
2006 - present Osteoporosis International (4 manuscripts); Journal of Orthopaedic Research (3 manuscripts)
2003 - 2007 Physiotherapy Canada (3 manuscripts)

External Grant Reviews

2007 External reviewer, CIHR Operating Grant application (Pharmaceutical Sciences Committee - 1 grant)
2007 External reviewer, NSERC Discovery Grant application (1 grant)
2007 External review/evaluation, Report prepared by WorkSafeBC Evidence Based Practice Group submitted to Policy & Research Division

Peer Review Activities

2010 Abstract Referee (Research Methodology category), Annual Scientific Meeting of the American College of Rheumatology/Association of Rheumatology Health Professionals
2009 - present Abstract and Grant Referee: As Research Committee member, Arthritis Health Professional Association
2008 - 2009 Poster Judge: Canadian Arthritis Network Annual Scientific Conference; Adjudicator of trainee poster presentation competitions

- 2007 - 2009 Planning Committee: American Association of Rheumatology Health Professionals Committee on Education - Program Subcommittee Member. [Develop, implement and evaluate the leadership development workshops and scientific content for the annual scientific meeting in San Francisco, CA October 24-28, 2008 and in Philadelphia, PA October 16-21, 2009.]
- 2006 Abstract Referee for World Confederation for Physical Therapy [18 abstracts reviewed]
- 2005 Planning Committee: 8th Annual Meeting for Faculty of Health Sciences Research Trainees, Queen's University [126 abstracts submitted for poster/podium presentation, 20 poster presentations judged]

AREAS OF INTEREST

Research

Development of assessment tools and evaluation of interventions to optimize bone and joint competence

Teaching

Problem based physiotherapy education in assessment and management of musculoskeletal conditions; Skeletal health and disease; Rheumatology, Evidence based practice.

HONOURS AND AWARDS

- 2010 Visiting Lectureship, Department of Kinesiology, University of Saskatchewan, Saskatoon, Saskatchewan (March 29 – 31, 2010)
- 2001 - 2003 Arthritis Society/CIHR Health Research Partnership Fund Postdoctoral Fellowship
- 1999 Alice L. Jee Memorial Award (Young Investigator Award, Department of Radiology, University of Utah)
- 1999 The Anne Hall Memorial Prize
- 1996 - 1999 Father Sean O'Sullivan Research Centre Studentship Award
- 1997 - 1998 Ontario Graduate Scholarship
- 1997 The Anne Hall Memorial Prize
- 1994 - 1995 McMaster University Centennial Entrance Scholarship
- 1994 - 1995 Ontario Graduate Scholarship
- 1991 - 1993 University of Western Ontario Special University Scholarship

COURSES TAUGHT

Undergraduate Teaching

Bachelor of Health Sciences (Hons.)

2008 Jul - 2010 Jun Supervisor, Thesis, 4A09, (4 student projects)
2008 Jul - 2009 Jun Inquiry Supervisor, 3H03, course (2 student projects)

Graduate Teaching

Masters of Science, Physiotherapy

2009 Jul - 2010 Jun Tutor, Problem Based Tutorials, Unit V, PT 721
2009 Jul - 2010 Jun Chronic Diseases Stream Co-Coordinator
2007 Jul - 2010 Jun Chair, Integrated Physiotherapy Practice, Unit VI,
2007 Jul - 2010 Jun Co-ordinator (Instructor), Problem Based Tutorials, Unit VI, PT 731
2006 Jul - 2009 Jun Rheumatic Diseases/Chronic Diseases Stream Coordinator
2006 Jul - 2008 Jun Co-ordinator (Instructor), Clinical Skills Laboratory, Unit VI, PT 732

Masters of Science, Rehabilitation Science

2009 Dec Examiner, PhD (RS) Transfer
2009 Oct Examiner, Thesis, MSc (RS)
2008 Nov Examiner, PhD (RS) Transfer
2008 Jul Examiner, PhD (RS) Transfer
2007 Dec Examiner, Thesis, MSc (RS)
2007 Jul Examiner, PhD (RS) Transfer
2007 Jul - 2008 Jun Faculty Advisor, MSc (RS) 730 Scholarly Paper
2006 Jul - 2007 Jun Examiner, RS 730, Second Reader of Scholarly Paper

Masters of Science, Medical Sciences

2009 Sep Examiner, Thesis, MSc (Medical Sciences), McMaster University, (Michelle Marcinow)
2007 Sep Examiner, Thesis, MSc (Medical Sciences), McMaster University, (Nisha Sivagurunathan)
2007 Jun Examiner, Thesis, MSc (Medical Sciences), McMaster University, (Annie Doan)

McMaster teaching outside FHS

2009 Aug - 2009 Nov Examiner, Comprehensive, (Tara Kajaks) Kinesiology, Faculty of Science

Other

Faculty of Health Sciences

2007 Nov Invited Speaker (Performance-based assessment of functional risk for vertebral fracture), Continuing Health Sciences Education Course "Managing Vertebral Fractures."

Additional Teaching

2008 Jul - 2009 Jun	Examiner, OSCE (Observed Structured Clinical Examination - remedial), PT 622
2008 Jul - 2010 Jun	Instructor, PT 722 Clinical Labs Course V, Assessment and Management of Rheumatoid Arthritis (2 labs)
2006 Jul - 2007 Jun	Examiner, OSCE (Observed Structured Clinical Examination), PT 722
2006 Jul - 2007 Jun	Instructor, PT 613 Professional Issues Course III, Biomechanics of Gait in the Elderly (1 lecture)
2007 Mar	Examiner, Thesis, MSc (Computing), Queen's University, (Theodorus Potma)
1999 Jan	Lecturer, Educational Workshop (Osteoporosis Update) Sponsored by the Ontario Physiotherapy Association. Talk title: The role of physical activity in the management of postmenopausal osteoporosis.

SUPERVISORSHIPS

Supervisory Committees

Masters of Science, Physiotherapy

2009	Co-Supervisor (with Dr. S. Lineker), PT 713 REBP VI Project, Christina Hallett C, Jake Tumber, Nalin Fernando, Maggie Hul
2009	Co-Supervisor (with Dr. K. Beattie), PT 713 REBP VI Project, Jennifer Coombs, Diana Horobetz, Alexis Petric, Mara Pimm

Rehabilitation Sciences

2010 Jul – present	Supervisor, Thesis, PhD(RS), Amanda Lorbergs
2009 Jul - present	Supervisor, Thesis, MSc(RS), Allison Bonnyman
2009 Jul – present	Member, Supervisory, Committee, PhD(RS), Heather Linley
2008 Jul - present	Co-supervisor, Thesis, MSc(RS), Adalberto Loyola-Sanchez
2008 Jul - present	Member, Supervisory, Committee, PhD(RS), Saurabh Mehta
2008 Jul - present	Member, Supervisory, Committee, PhD(RS), Mosharef Mir
2006 Jul - 2008 Jun	Member, Supervisory Committee, MSc(RS), Prajyot Kumpta

Medical Sciences

2007 Jul - 2009 Jun	Member, Supervisory, Committee, MSc (Med Sci), Michelle Marcinow
---------------------	--

Other

2009 Jul – 2010 May	Supervisor, Postdoctoral Fellow, McMaster University (Kristina Calder)
2008 Jul – 2009 Mar	Co-Supervisor, Postdoctoral Fellow, McMaster University (Katarzyna Gdela)

- 2005 Jul - 2008 Jan Co-supervisor (Primary), Thesis, MSc(Mechanical Engineering), Queen's University (Meghan Crookshank)
- 2003 Jul – 2005 Sep Co-supervisor (Primary), Thesis, MSc(Rehabilitation Science), Queen's University (EKB (Brooke) McKnight)

RESEARCH FUNDING

Grants Peer Reviewed (Primary Investigator's name is the first name listed)

- 2011 - 2013 MacIntyre, Norma (PI), Bhandari, Mohit, The design and planning of a randomized controlled trial to compare two methods of administering low intensity therapeutic ultrasound on pain, physical function and cartilage repair in patients with mild and moderate knee osteoarthritis., Grant, Canadian Institutes of Health Research (CIHR): Randomized Controlled Trial Mentorship Program, \$160,000.00
- 2009 - 2012 MacDermid, Joy & Grewal, Ruby (Co-PI), MacIntyre, Norma, Richardson, Julie, Identification of Risk of Adverse Activity Transition Following A Distal Radius Fracture, Grant, Canadian Institutes of Health Research (CIHR), \$241,618.00
- 2010-2011 Webber, Colin & MacIntyre, Norma (Co-PI), Bone properties, body composition, posture and balance in postmenopausal women with osteoporotic vertebral fractures before and after a 6 month water exercise program. A feasibility study. Grant, Hamilton Health Sciences Radiology Research Committee \$20,000
- 2006 - 2011 MacIntyre, Norma, Novel methods to assess bone quality in vivo and determine critical factors associated with bone and joint health, Grant, Canadian Foundation for Innovation (CFI): Infrastructure Operating Funds, \$16,320.00
- 2005 - 2011 MacIntyre, Norma, Identification of noninvasive measures of apparent bone that predict risk of fracture, Grant, Natural Sciences and Engineering Research Council of Canada (NSERC), \$110,000.00
- 2009 - 2010 Beattie, Karen, Bobba Raj, Cividino Alf, Larche Maggie, MacIntyre Norma, Shabort Inge, The sensitivity of the GALS (Gait, Arms, Legs, Spine) examination for detecting inflammatory arthritis in primary care, Grant, Canadian Initiative for Outcomes in Rheumatology Care (CIORA), \$50,705.74
- 2006 - 2010 Brouwer, Brenda & Garland, Jayne (Co-PIs), Bryant Dianne, Connelly Denise, MacIntyre Norma, Maly Monica, Minnes Patricia, Pelland Lucie, Client-centred 'tune-ups': do they enhance community reintegration and mobility in stroke survivors? Grant, Heart and Stroke Foundation (ON), Stroke Rehabilitation Special Competition, \$680,734.00
- 2004 - 2009 D Pichora & RE Ellis (Co-PIs), Abolmaesumi Purang, Bryant Timothy J, Fenton Paul, MacIntyre Norma, Petit Yvan, Rudan John, Sellens Richard, Stewart James, Yach Jeff, Optimizing fracture management with information technology: Planning, treatment and assessment outcomes., Grant, Canadian Institutes of Health Research: New Emerging Team, \$1,477,945.00

- 2007 - 2008 MacIntyre, Norma, Galea Victoria, Wessel Jean, Hand impairments, dexterity and function of persons with osteoarthritis or rheumatoid arthritis of the hand - a model of disability, Grant, American Society of Hand Therapists (ASHT), \$5,000.00
- 2005 - 2006 MacIntyre, Norma, Assessment of knee motion pre- and post-anterior cruciate ligament reconstruction using a novel MRI based method: A pilot study, Grant, Queen's University Advisory Research Committee, \$5,000.00
- 2005 - 2006 Leroux, Alan, & Pelland, Lucie, (Co-PI), MacIntyre Norma, McKinley Patricia, Contrasting stair descent performance in healthy young and older adults: A task dynamic approach to study age-related changes in adaptive coordination of movement., Grant, FRSQ (Fonds de la Recherche en Sante du Quebec) - REPAR, \$20,000.00
- 2004 - 2005 MacIntyre, Norma, Novel methods to assess bone quality in vivo and determine critical factors associated with bone and joint health, Grant, Canadian Foundation for Innovation (CFI): New Opportunities Fund, \$136,000.00
- 2003 - 2004 MacIntyre, Norma, Culham Elsie, Wilson David, Diagnosis of Patellofemoral Pain Syndrome due to patellar maltracking using a cluster of clinical tests., Grant, Physiotherapy Foundation of Canada (PFC): Alun Morgan Memorial Research Fund in Orthopaedic Physiotherapy, \$5,000.00

Grants (Primary Investigator's name is the first name listed)

- 2007 Feb - 2009 Jan MacIntyre, Norma, Internally Sponsored Research Funds, Grant, McMaster University (MAC), Research - Start-up, \$20,000.00
- 2007 Oct - 2008 Sep MacIntyre, Norma, Clinical utility of a standardized musculoskeletal assessment in the management of individuals with osteoporosis (Bone Safety Evaluation), Grant, MECK Research Inc. \$20,000.00

LIFETIME PUBLICATIONS (Principal Author is the first name and when the first author is a trainee, the last name on the entry is the Senior Author)

Peer Reviewed Journal Articles

1. Calder K, Inglis D, **MacIntyre NJ**. Comparison of pQCT-based measures of radial bone geometry and apparent trabecular bone structure using manufacturer and in-house developed algorithms. Journal of Clinical Densitometry. In press
2. Loyola-Sanchez A, Richardson J, **MacIntyre NJ**. Effectiveness of therapeutic ultrasound in knee osteoarthritis: A systematic review and meta-analysis. Osteoarthritis and Cartilage. In press
3. Stratford PW, Kennedy DM, Maly MR, **MacIntyre NJ**. Is the relationship between self-report and performance measures constant over time? Physical Therapy 2010; In press.
4. **MacIntyre NJ**, Wessel J, MacDermid J, Galea V. Assessment of grip strength of individual digits in persons with osteoarthritis of the hand. Hand Therapy. 2010;15;39-44. DOI:10.1258/HT.2010.010010.

5. **MacIntyre NJ**, Stavness C, Adachi JD. The Safe Functional Motion test is reliable for assessment of movement patterns in individuals with low bone mass. *Clinical Rheumatology*. 2010;29: 143-150. DOI:10.1007/s10067-009-1297-6.
6. McWalter EJ, **MacIntyre NJ**, Cibere J, Wilson DR. A single measure of patellar kinematics is an inadequate surrogate marker for patterns of three-dimensional kinematics in healthy knees. *Knee*. 2010;17:135-140. DOI:10.1016/j.knee.2009.08.001.
7. **MacIntyre NJ**, Wessel J. Construct validity of the AIMS-2 upper limb function scales as a measure of disability in individuals with osteoarthritis of the hand. *Clinical Rheumatology*. 2009;28:573-578.
8. MacDermid JC, Grewal R, **MacIntyre NJ**. Using an evidence-based approach to measure outcomes in clinical practice. *Hand Clinics*. 2009;25:97-111.
9. **MacIntyre NJ**, McKnight EKB, Day AG, Wilson DR. Consistency of patellar spin, tilt and lateral translation side-to-side and over a 1 year period in healthy young males. *Journal of Biomechanics*. 2008;41:3094-3096.
10. McWalter EJ, Cibere J, **MacIntyre NJ**, Nicolaou S, Schulzer M, Wilson DR. Relationship between varus/valgus alignment and patellar kinematics in individuals with knee osteoarthritis. *Journal of Bone and Joint Surgery [American]*. 2007;89:2723-2731.
11. **MacIntyre NJ**, Hill NA, Fellows RA, Ellis RE, Wilson DR. Patellofemoral joint kinematics in individuals with and without Patellofemoral Pain Syndrome. *Journal of Bone and Joint Surgery [American]*. 2006;88(12):2596-2606.
12. Fellows RA, Hill NA, **MacIntyre NJ**, Harrison MM, Ellis RE, Wilson DR. Repeatability of a novel technique for in vivo measurement of three-dimensional patellar tracking using magnetic resonance imaging. *Journal of Magnetic Resonance Imaging*. 2005;22:145-153.
13. Fellows RA, Hill NA, Gill HS, **MacIntyre NJ**, Harrison MM, Ellis, RE, Wilson DR. Magnetic resonance imaging for in vivo assessment of three-dimensional patellar tracking. *Journal of Biomechanics*. 2005;38:1643-1652.
14. Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Accurate assessment of patellar tracking using fiducial and intensity-based fluoroscopic techniques. *Medical Image Analysis*. 2004;8:343-351.
15. Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Accuracy of a fluoroscopy technique for assessing patellar tracking. *Lecture Notes in Computer Science*. 2003;2878:319-326.
16. **MacIntyre NJ**, Adachi JD, Webber CE. In vivo measurement of apparent trabecular bone structure of the radius in women with low bone density discriminates patients with recent wrist fracture from those without fracture. *Journal of Clinical Densitometry*. 2003;6(1):35-43.
17. **MacIntyre NJ**, Bhandari M, Blimkie CJ, Adachi JD, Webber CE. Effect of altered physical loading on bone and muscle in the forearm. *Canadian Journal of Physiology and Pharmacology*. 2001;79(12):1015-1022.
18. **MacIntyre NJ**, Adachi JD, Webber CE. Trabecular structure in normal aging. *Bone Depeche* 2000;6(2):39-41.

19. **MacIntyre NJ**, Adachi JD, Webber CE. In vivo detection of structural differences between dominant and nondominant radii using peripheral quantitative computed tomography. *Journal of Clinical Densitometry*. 1999;2(4):409-418.
20. **MacIntyre NJ**, Adachi JD, Webber CE. Gender differences in normal age-dependent patterns of radial bone structure and density: A cross-sectional study using peripheral quantitative computed tomography. *Journal of Clinical Densitometry*. 1999;2(2):163-173.
21. **MacIntyre NJ**, Muller ME, Adachi JD, Webber CE. The non-invasive measurement of trabecular bone structure. *Current Topics in Radiology*. 1998;1:19-33.
22. **MacIntyre NJ**, McComas AJ. Non-conscious choice in cutaneous backward masking. *Neuroreport*. 1995;7:1513-1516.

Peer Reviewed Abstract Contributions to Books

1. Gordon CL, **MacIntyre NJ**, Webber CE. Bone mass and structure deficits in the non-fractured radius of patients with colles' fracture. *Current Research in Osteoporosis and Bone Mineral Measurement IV*. 1996:28. (poster).

Peer Reviewed Journal Abstracts (trainees)

1. Hallett C, Tumber J, Fernando N, Hul M, Lineker S, **MacIntyre NJ**. Knowledge of best practice guidelines for management of rheumatoid arthritis among physiotherapy students in a problem-based curriculum. *Arthritis and Rheumatism*. 2009;60(Suppl 10):S697 (poster).
2. Recknor C, Grant S, Recknor J, **MacIntyre NJ**. Novel Safe Functional Motion Test can discriminate risk for vertebral fracture in men and women. *Journal of Bone and Mineral Research*. 2009;24(Suppl 1):Available at <http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx?aid=156eb195-3c39-4b81-995c-093970106af7>. Accessed on October 2, 2009. (poster).
3. **MacIntyre NJ**, Wang Y, Brouwer B. Longitudinal assessment of tibial bone mass and geometry in subacute stroke survivors. *Journal of Bone and Mineral Research*. 2009;24(Suppl 1):Available at <http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx?aid=64b2b99c-7579-4d27-ba76-7ae19de5635d>. Accessed on October 2, 2009. (poster).
4. MacIntyre NJ, Stavness C, Adachi JD. Reliability and validity of a modified version of the safe functional motion test-short form for assessing movement patterns in individuals with low bone mass. *Osteoporosis International*. 2009;20(Suppl 2):221. (poster).
5. Grant S, Recknor C, MacIntyre NJ. Validity of the strength and flexibility domains comprising a novel performance-based measure of functional risk for osteoporotic fracture. *Osteoporosis International*. 2009;20(Suppl 2):226. (poster).
6. Recknor C, Grant S, MacIntyre NJ. A novel performance-based measure of functional risk for osteoporotic fracture has excellent reliability and good convergent construct validity. *Osteoporosis International*. 2009;20(Suppl 2):226-227. (poster).
7. Wessel J, MacDermid J, MacIntyre NJ, Galea V. The relationship between impairment, dexterity, and self-reported disability of persons with osteoarthritis of the hand. *Journal of Hand Therapy*. 2008;21:423-424. (oral).

8. MacIntyre NJ, Inglis D. Comparison of pQCT-based measures of radial bone geometry and apparent trabecular structure using different algorithms. *Journal of Bone and Mineral Research* 2007;22(Suppl 1):S301. (poster).
9. Abdulkareem JS, Muller ME, Inglis D, Gordon CL, Adachi JD, Webber CE, MacIntyre NJ. Measures of distal radial bone geometry predict fracture load. *Osteoporosis International* 2006;17(Suppl 2):S155. (poster).
10. McWalter EJ, MacIntyre NJ, Cibere J, Wilson DR. Does patellar alignment predict patellar kinematics? *ORS Transactions* 2006;31:0165. (www.ors.org/web/Transactions/52/0165.PDF) (oral).
11. McKnight B, Wilson DR, MacIntyre NJ. Two normative patterns of patellar tilt and lateral translation are observed in physically active young males. *ORS Transactions*. 2006;31:0534. (www.ors.org/web/Transactions/52/0534.PDF) (poster).
12. MacIntyre NJ, Inglis D, Adachi JD, Webber CE. Is there a relationship between apparent trabecular bone structure as measured by peripheral quantitative computed tomography and disease severity in patients recently diagnosed with rheumatoid arthritis? *Clinical and Experimental Rheumatology* 2005;23(Suppl 6):745. (poster).
13. Hill NA, Fellows RA, MacIntyre NJ, Harrison MM, Ellis RE, Wilson DR. The effect of high tibial osteotomy on three-dimensional patellar tracking: An in vivo study using magnetic resonance imaging. *ORS Transactions* 2005;30: 0481. (www.ors.org/web/Transactions/51/0481.PDF) (poster).
14. MacIntyre NJ, Pardy S, Ade L, Culham E, Wilson DR. Clinical assessments of patellar alignment in the relaxed extended knee do not reflect patellar kinematics during loaded knee flexion. *ORS Transactions* 2005;30:0486. (www.ors.org/web/Transactions/51/0486.PDF) (poster).
15. McWalter EJ, MacIntyre NJ, Cibere J, Wilson DR. Can patterns of patellar kinematics be determined from one angle of knee flexion? *Osteoarthritis and Cartilage* 2005;13(Suppl A):S114 (poster).
16. MacIntyre NJ, Hill NA, Fellows RA, Ellis RE, Wilson DR. A noninvasive MRI based method for assessing patellofemoral joint kinematics detects differences between healthy and symptomatic knees. *Arthritis Research and Therapy*. 2004;6(Suppl 3):100. (poster).
17. Hill NA, Fellows RA, MacIntyre NJ, Tang TSY, Harrison MM, Ellis RE, Wilson DR. The effect of high tibial osteotomy on three-dimensional patellar tracking. *Proc Intl Soc Magn Reson Med*, 2004;11:2591 (e-poster).
18. Fellows RA, Hill NA, MacIntyre NJ, Harrison MM, Ellis RE, Wilson DR. Repeatability of a magnetic resonance imaging-based method for measuring three-dimensional patellar kinematics in loaded flexion. *Proc Intl Soc Magn Reson Med*, 2004;11:416 (poster).
19. MacIntyre NJ, Hill NA, Fellows RA, Orchard S, Tang TSY, Ellis RE, Culham E, Wilson DR. Abnormal patellar tracking in individuals with patellofemoral pain syndrome. *ORS Transactions* 2004;29:0081. (<http://www.ors.org/web/Transactions/50/0081.PDF>) (oral).
20. Fellows RA, Hill NA, MacIntyre NJ, Harrison MM, Ellis RE, Wilson DR. Repeatability of a magnetic resonance imaging-based method for measuring three-dimensional patellar kinematics in loaded flexion. *ORS Transactions* 2004;29:0083. (<http://www.ors.org/web/Transactions/50/0083.PDF>) (oral).
21. Tang TSY, MacIntyre NJ, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Hardware-assisted 2D/3D intensity-based registration for assessing patellar tracking. *Medical Image Computing and Computer-Assisted Intervention – MICCAI PT 2, Proceedings* 2004;3217:1095-1096.

22. Hill NA, Fellows RA, Gill HS, MacIntyre NJ, Leclaire SC, Tang TSY, Harrison MM, Ellis RE, Wilson DR. A novel magnetic resonance imaging based method accurately assesses three-dimensional joint motion in vivo. Proc Intl Soc Magn Reson Med, 2003;11:1527 (poster).
23. Fellows RA, Hill NA, Gill HS, MacIntyre NJ, Leclaire SC, Tang TSY, Harrison MM, Ellis RE, Wilson DR. Accuracy of a magnetic resonance imaging based method for assessing three-dimensional patellar tracking in vivo. ORS Transactions 2003;28:0121. (www.ors.org/web/Transactions/49/0121.PDF) (oral).
24. MacIntyre NJ, Radcliffe T, Ellis RE. Validation of a new x-ray based method of detecting osteoporosis. ORS Transactions 2003;28:1056. (www.ors.org/web/Transactions/49/1056.PDF) (poster).
25. MacIntyre NJ, Tang TSY, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Accuracy of a fluoroscopy imaging technique for assessing patellar tracking. ORS Transactions 2003;28:1251. (www.ors.org/web/Transactions/49/1251.PDF) (poster).
26. MacIntyre NJ, CE Webber, JD Adachi. Relation between disease activity and apparent trabecular texture at the wrist in individuals with Rheumatoid Arthritis. Journal of Bone and Mineral Research 2002;17(Suppl 1):232. (poster).
27. Larin HL, MacIntyre NJ, Webber CE, Beaumont L. Estimates of muscle strength in healthy preschool children and the relation with regional bone mineral density. Developmental Medicine and Child Neurology. 2001;34(Suppl 88):35. (poster).
28. MacIntyre NJ, Adachi JD, Webber CE. Assessment of apparent trabecular bone porosity at the distal radius in women matched for bone density discriminates individuals with recent wrist fractures from those without fracture. Journal of Bone and Mineral Research. 2000;15(Suppl 1):184. (oral).
29. MacIntyre NJ, Adachi JD, Webber CE. An evaluation of in vivo distal radius bone structure measurements. Journal of Bone and Mineral Research 1999;14(Suppl 1):431. (poster).
30. Larin HL, MacIntyre NJ, Webber CE. Measurement of Bone Mineral Density in Preschool Children with Spastic Diplegia: A Reliability Study. Developmental Medicine and Child Neurology. 1998;40(Suppl 78):33. (poster).
31. MacIntyre NJ, Adachi JD, Webber CE. Peripheral quantitative computed tomography measurements of normal human bone mass and structure. Journal of Bone and Mineral Research. 1997;12(Suppl 1):262. (poster).
32. Gordon CL, Webber CE, MacIntyre NJ, Muller ME, Christoforou N. In vivo assessment of trabecular bone structure. Journal of Bone and Mineral Research. 1996;11(Suppl 1):473. (poster).
33. Merrifield PA, MacIntyre NJ, Hanington A. Myogenic potential of mouse myoblast cell lines in vitro and in vivo. Journal of Molecular Biology and Cell. 1992;3:255. (poster).

Other Peer Reviewed Publications

1. Loyola-Sanchez A, Richardson J, MacIntyre NJ. Effectiveness of therapeutic ultrasound in knee osteoarthritis: A systematic review. Proceedings of the 2009 Canadian Arthritis Network Annual Scientific Meeting. Vancouver BC (poster).

2. Calder K, Galea V, Wessel J, MacDermid JC, **MacIntyre NJ**. Muscle co-activation patterns during a hand dexterity task in women with hand osteoarthritis. Proceedings of the 2009 Canadian Arthritis Network Annual Scientific Meeting. Vancouver BC (poster).
3. MacDermid J, Wessel J, **MacIntyre NJ**, Galea V. Disability in hand osteoarthritis: Testing the ICF hand core set. Proceedings of the 2009 Canadian Arthritis Network Annual Scientific Meeting. Vancouver BC (poster).
4. **MacIntyre NJ**, Stavness C, Adachi JD. The modified Safe Functional Motion Test-Short Form is reliable for assessment of movement patterns in individuals with low bone mass. Proceedings of the Canadian Physiotherapy Association Congress Calgary, AL 2009. (oral).
5. **MacIntyre NJ**, Rombough R, Brouwer B. Muscle cross-sectional area of the tibial 66% site is not a surrogate measure of gastrocnemius muscle force production. International pQCT User's Meeting Proceedings. Montreal, Qc 2008:4 (oral).
6. Garcia-Redrigez S, Crookshank MCM, **MacIntyre NJ**, Harrison MM, Smith EL, Sellens R, Ploeg H. Structural properties of trabecular cores from femoral heads. Proceedings of the North America Conference on Biomechanics 2008;455. (www.x-cdtech.com/nacob/Abstracts/455.pdf) (oral).
7. McWalter EJ, **MacIntyre NJ**, Cibere J, Wilson DR. Can patterns of patellar kinematics be determined from one angle of knee flexion? Proceedings of the 2005 Canadian Arthritis Network Annual Scientific Meeting. Ottawa, ON (award poster).
8. McKnight B, MacIntyre NJ, Wilson DR. Between limb differences are observed in normal patterns of patellar motion in young physically active males. Proceedings of the 8th Annual Meeting for Faculty of Health Sciences Research Trainees, Queen's University, Kingston, ON 2005 (award poster).
9. **MacIntyre NJ**, McKnight B, Hill NA, Culham E, Ellis RE, Wilson DR. Abnormal patellar kinematics are detected in a subgroup of individuals with Patellofemoral Pain Syndrome using a novel MRI-based method. Proceedings of the 11th Meeting of the Combined Orthopaedic Associations, Sydney, Australia. 2004 (poster).
10. Hill NA, Fellows RA, **MacIntyre NJ**, Tang TSY, Harrison MM, Ellis RE, Wilson DR. The effect of closing wedge high tibial osteotomy on three-dimensional patellar tracking. Proceedings of the 11th Meeting of the Combined Orthopaedic Associations, Sydney, Australia. 2004 (oral).
11. Tang TSY, Bethune C, **MacIntyre NJ**, Stewart AJ, Ellis RE. Hardware-assisted 2D/3D intensity-based registration. Proceedings of the 4th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery. Chicago, IL 2004 (poster).
12. Hoy F, Bardana D, Birchard J, **MacIntyre NJ**. Medial hamstring muscle strength decrease after anterior cruciate ligament reconstruction using semitendinosus autografts. Proceedings of the 7th Annual Meeting for Faculty of Health Sciences Research Trainees, Kingston, ON 2004 (poster).
13. Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Fluoroscopy-based method accurately assesses three-dimensional kinematics of the patellofemoral joint. Proceedings of the Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB 2003 (oral).
14. Hill NA, Fellows RA, Gill HS, **MacIntyre NJ**, LeClaire SC, Tang TSY, Harrison MM, Ellis RE, Wilson DR. Magnetic resonance imaging based method accurately assesses three-dimensional patellar tracking in vivo. Proceedings of the Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB 2003 (oral).

15. Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson, DR, Ellis RE. Comparison of a fluoroscopy-based method with RSA for the assessment of patellar tracking. Proceedings of 3rd Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery. Marbella, Spain 2003 (poster).
16. Elias JJ, Wilson DR, Adamson R, **MacIntyre NJ**, Cosgarea AJ. Experimental validation of a computational model of the patellofemoral joint. Proceedings of IV World Congress of Biomechanics. Calgary, AB 2002 (award oral).
17. Larin H, **MacIntyre NJ**, Webber CE, Beaumont L. Estimating muscle strength and the relation with bone mineral density in preschool children. Proceedings of Pre-American Society for Bone and Mineral Research Meeting on Pediatric Bone, Hamilton, ON 2000 (poster).
18. Larin H, **MacIntyre NJ**, Beaumont L, Sternin Y, Webber CE. Normative values of regional bone mineral density and whole body composition in preschool children. Proceedings of Pre-American Society for Bone and Mineral Research Meeting on Pediatric Bone, Hamilton, ON 2000 (poster).
19. **MacIntyre NJ**, Bhandari M, Blimkie JB, Adachi JD, Webber CE. Response of healthy nonweightbearing bone to alterations in mechanical loading. Proceedings of the 29th Hard Tissue Workshop. 1999 (poster presentation - August 9th, selected for podium presentation - August 11th.).
20. Larin H, **MacIntyre NJ**, Webber CE. Measurement of bone mineral density in preschool children with spastic diplegia: a reliability study. Proceedings of the 13th World Confederation for Physical Therapy Congress on Physical Therapy. Yokohama, Japan. 1999 (poster).
21. **MacIntyre NJ**, Adachi JD, Webber CE. In vivo distal radius bone structure measurements. Proceedings of Sun Valley Workshop pQCT User Meeting. Sun Valley, ID 1999 (oral).
22. **MacIntyre NJ**, Adachi JD, Webber CE. In vivo distal radius bone structure measurements. Proceedings of the 29th Hard Tissue Workshop. Sun Valley, ID 1999 (poster presentation - August 9th selected for podium presentation - August 11th).
23. **MacIntyre NJ**, Bhandari M, Blimkie JB, Adachi JD, Webber CE. Response of healthy nonweightbearing bone to alterations in mechanical loading. Proceedings of the Sun Valley pQCT User Meeting. Sun Valley, ID 1999 (poster).
24. **MacIntyre NJ**, Bhandari M, Adachi JD, Webber CE. In vivo measurements of bone mass and structure in individuals with recent wrist fractures. Proceedings of the Sun Valley Workshop on QCT and Absorptiometry. Sun Valley, ID 1997 (oral).
25. **MacIntyre NJ**, Bhandari M, Adachi JD, Webber CE. In vivo measurements of bone mass and structure in individuals with recent wrist fractures. Proceedings of the Hard Tissue Workshop. Sun Valley, ID 1997 (poster).
26. **MacIntyre NJ**, Webber CE, Adachi JD. Peripheral quantitative computed tomography measurements of normal bone mass. Second Regional Symposium on Skeletal Biology and Metabolic Bone Disease. London, ON 1997 (poster).
27. Larin H, **MacIntyre NJ**. Construct validity of the motor teaching strategies coding instrument: Studies of NDT experience. Proceedings of the 1997 Ontario Physiotherapy Association Conference, Mississauga, ON (oral).

Non Peer Reviewed Journal Articles

1. MacIntyre NJ. Assessment of bone density and risk for osteoporotic fracture in postmenopausal women. Canadian Physiotherapy Association Women's Health Division Newsletter. Winter 2008.

Other Peer Reviewed Publications

Unpublished Documents (Abstracts Compiled and Distributed on Site)

2. Hoy F, Bardana D, Birchard J, **MacIntyre NJ**. Medial hamstring muscle strength decreased after anterior cruciate ligament reconstruction using semitendinosus autografts. Rehabilitation Therapy Clinical Education/Fieldwork Workshop, Kingston, ON 2004-06-14 (award poster).
3. **MacIntyre NJ**, Bhandari M, Blimkie JB, Adachi JD, Webber CE. Response of healthy nonweightbearing bone to alterations in mechanical loading: 6 month data. 10th Annual Department of Radiology Research Day, Hamilton Health Sciences Corporation, McMaster Site, Hamilton, ON 1998-11-18 (oral).
4. **MacIntyre NJ**, Bhandari M, Adachi JD, Webber CE. Cortical bone mineral content and trabecular bone density are lower in individuals with recent wrist fractures compared to controls. St. Joseph's Health Care System Research Day Poster Symposium. Hamilton, ON 1997-11-13 (poster).

Submitted for Peer Reviewed Publication

Contribution to Book

1. MacIntyre NJ, Wessel J. Assessment of hand osteoarthritis. In: American Society of Hand Therapists (ed) Assessment of Clinical Outcomes for the Hand/Wrist. American Society of Hand Therapists:Chicago. In Process

Journal Article

1. Calder K, Galea V, Wessel J, MacDermid JC, **MacIntyre NJ**. Muscle activation during hand dexterity tasks in women with hand osteoarthritis and control subjects. Journal of Hand Therapy (JHT-D-10-00027) Under revision
2. Recknor C, Grant S, **MacIntyre NJ**, Recknor J. Safe Functional Motion test predicts prevalent osteoporotic fractures and injurious falls. Arthritis Care and Research (ACR-10-0329) Under review
3. Beattie K, **MacIntyre NJ**, Pierobon J, Coombs J, Horobetz D, Petric A, Pimm M, Kean W, Larché MJ, Cividino A. The sensitivity, specificity and reliability of the GALS (Gait, Arms, Legs, Spine) examination when used by physiotherapists and physiotherapy students to detect rheumatoid arthritis. Physiotherapy 2010. Under review
4. Crookshank MCM, Ploeg HL, Sellens RW, Ellis RE, **MacIntyre NJ**. Repeatable calibration of Hounsfield units to mineral density and effect of scanning medium. Journal of Applied Biomechanics. (JAB-2010-0044) Under revision
5. **MacIntyre NJ**, Rombough R, Brouwer B. Muscle density and the association with muscle function and bone status in stroke survivors and healthy older adults. Osteoporosis International (OI-2010-06-0358) Under review

PRESENTATIONS AT MEETINGS/VISITING LECTURESHIPS

Invited Presentations

1. MacIntyre NJ, Rombough R, Brouwer B. Calf muscle density in stroke survivors may decrease with prolonged disability and is associated with balance and extensor muscle strength but not bone status. (oral) American Society for Bone and Mineral Research Muscle and Bone Working Group meeting, Toronto, Ontario, Canada Oct 17, 2010.
2. Richardson JK, MacIntyre NJ. The role of the physical therapist in rheumatology practice. New York City Chapter of the American College of Rheumatologists. (oral) New York, NY June 11, 2010
3. MacIntyre NJ. Using novel medical imaging methods to answer clinically important questions in physiotherapy practice. Invited Lectureship (oral) Department of Kinesiology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada Mar 29, 2010
4. MacIntyre NJ. Does hemiplegia following stroke provide a naturally occurring 'disuse' model for understanding bone adaptations? Invited Lectureship (oral) Bone Imaging Group research meeting, University of Saskatchewan, Saskatoon, Saskatchewan, Canada Mar 30, 2010
5. MacIntyre NJ. Novel medical imaging-based methods of assessing 3D patellofemoral joint kinematics. Bone Scholar Meeting (oral) Hamilton, Ontario, Canada. Mar 17, 2003.
6. MacIntyre NJ. In vivo assessment of the relation between trabecular bone structure in the radius and gender, aging, mechanical loading and fracture. Rehabilitation Science Seminar Series, Queen's University (oral) Kingston, Ontario, Canada. Mar 23, 2001.
7. MacIntyre NJ. Proposed mechanisms for the regulation of bone strength by mechanical loading. Regional Bone Research Group (oral) Hamilton, Ontario, Canada. Nov 27, 1997.
8. MacIntyre NJ. Developmental potential of murine myoblast cell lines. Departmental Seminar, Department of Physiotherapy, University of Western Ontario (oral) London, Ontario, Canada. Sep 26, 1994.

Contributed Peer Reviewed Presentations (trainee; * presenting author)

1. *Beattie K, **MacIntyre NJ**, Quan E, Inglis D, Maly M. Reproducibility of bone, muscle, fat measurements from MRI images of the thighs of female OAI participants. Proceedings of the 4th International Workshop on Imaging Based Measures of Osteoarthritis. University of British Columbia, Vancouver, BC June 3, 2010 (poster)
2. *Calder K, Galea V, Wessel J, MacDermid J, **MacIntyre NJ**. Muscle activation during hand dexterity tasks in individuals with hand osteoarthritis. Proceedings of the 16th Biennial Conference of the Canadian Society for Biomechanics. Queen's University, Kingston, ON. June 10, 2010 (podium)
3. Beattie K, ***MacIntyre NJ**, Coombs J, Horobetz D, Petric A, Pimm M, Kean W, Larché M, Cividino A. The sensitivity and specificity of the GALS (Gait, Arms, Legs, Spine) examination when used by physiotherapists to detect Rheumatoid Arthritis. Canadian Rheumatology Association Conference, Quebec City, Qc. February 5, 2010. (poster)
4. *Loyola-Sánchez A, Richardson R, **MacIntyre NJ** Effectiveness of therapeutic ultrasound in knee osteoarthritis: A systematic review. Canadian Arthritis Network 2009 Annual Scientific Conference Vancouver, British Columbia, Canada. Nov 20, 2009 (poster).

5. *Calder K, Galea V, Wessel J, MacDermid JC, **MacIntyre NJ** Muscle co-activation patterns during a hand dexterity task in women with hand osteoarthritis. Canadian Arthritis Network 2009 Annual Scientific Conference Vancouver, British Columbia, Canada. Nov 20, 2009 (poster).
6. *MacDermid J, Wessel J, **MacIntyre NJ**, Galea V Disability in hand osteoarthritis: Testing the ICF hand core set. Canadian Arthritis Network 2009 Annual Scientific Conference Vancouver, British Columbia, Canada. Nov 20, 2009 (poster).
7. Hallett C, Tumber J, Fernando N, Hul M, Lineker S, ***MacIntyre NJ**. Knowledge of best practice guidelines for management of rheumatoid arthritis among physiotherapy students in a problem-based curriculum. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting Philadelphia, Pennsylvania, United States. Oct 20, 2009 (poster).
8. ***MacIntyre NJ**, Wang Y, Brouwer B Longitudinal assessment of tibial bone mass and geometry in subacute stroke survivors. 31st Annual Meeting of the American Society for Bone and Mineral Research Denver, Colorado, United States. Sep 14, 2009 (poster).
9. *Recknor C, Grant S, Recknor J, **MacIntyre NJ**. Novel Safe Functional Motion test can discriminate risk for vertebral fracture in men and women. 31st Annual Meeting of the American Society for Bone and Mineral Research Denver, Colorado, United States. Sep 14, 2009 (poster).
10. ***MacIntyre NJ**, Stavness C, Adachi JD. The modified Safe Functional Motion Test-Short Form is reliable for assessment of movement patterns in individuals with low bone mass. Canadian Physiotherapy Association Congress Calgary, Alberta, Canada. May 28, 2009 (oral).
11. ***MacIntyre NJ**, Stavness C, Adachi JD. Reliability and validity of a modified version of the Safe Functional Motion test-Short Form for assessing movement patterns in individuals with low bone mass. 8th International Symposium on Osteoporosis: Translating Research into Clinical Practice, Washington, District of Columbia, United States. Apr 4, 2009 (poster).
12. *Grant S, Recknor C, **MacIntyre NJ**. Validity of the strength and flexibility domains comprising a novel performance-based measure of functional risk for osteoporotic fracture. 8th International Symposium on Osteoporosis: Translating Research into Clinical Practice, Washington, District of Columbia, United States. Apr 4, 2009 (poster).
13. Recknor C, *Grant S, **MacIntyre NJ**. A novel performance-based measure of functional risk for osteoporotic fracture has excellent reliability and good convergent construct validity. 8th International Symposium on Osteoporosis: Translating Research into Clinical Practice, Washington, District of Columbia, United States. Apr 4, 2009 (poster).
14. Wessel J, *MacDermid J, **MacIntyre NJ**, Galea V. The relationship between impairment, dexterity, and self-reported disability of persons with osteoarthritis of the hand. 31st Annual Meeting of the American Society of Hand Therapists, Boston, Massachusetts, United States. Oct 24, 2008 (oral).
15. ***MacIntyre NJ**, Rombough R, Brouwer B. Muscle cross-sectional area at the tibial 66% site is not a surrogate measure of gastrocnemius muscle force production. International pQCT User's Meeting. Montreal, Quebec, Canada. Sep 16, 2008 (oral).
16. *García-Redríguez S, Crookshank MCM, **MacIntyre NJ**, Harrison M, Smith EL, Sellens R, Ploeg H. Structural properties of trabecular cores from femoral heads. North American Conference on Biomechanics, Ann Arbor, Michigan, United States. Aug 6, 2008 (oral).

17. **MacIntyre NJ**, Inglis D. Comparison of pQCT-based measures of radial bone geometry and apparent trabecular structure using different algorithms. 29th Annual Meeting of the American Society for Bone and Mineral Research, Honolulu, Hawaii, United States. Sep 18, 2007 (poster).
18. ***Abdulkareem JS**, Muller ME, Inglis D, Gordon CL, Adachi JD, Webber CE, **MacIntyre NJ**. Measures of bone geometry at the distal radius predict failure load. International Osteoporosis Foundation World Congress, Toronto, Ontario, Canada. Jun 4, 2006 (poster).
19. ***McWalter EJ**, **MacIntyre NJ**, Cibere J, Wilson DR. Does patellar alignment predict patellar kinematics? 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, Illinois, United States. Mar 20, 2006 (oral).
20. ***McKnight B**, Wilson DR, **MacIntyre NJ**. Two normative patterns of patellar tilt and lateral translation are observed in physically active young males. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, Illinois, United States. Mar 19, 2006 (poster).
21. ***McWalter EJ**, **MacIntyre NJ**, Cibere J, Wilson DR. Can patterns of patellar kinematics be determined from one angle of knee flexion? 10th World Congress on Osteoarthritis (OARSI), Boston, Massachusetts, United States. Dec 10, 2005 (poster).
22. ***McWalter EJ**, **MacIntyre NJ**, Cibere J, Wilson DR. Can patterns of patellar kinematics be determined from one angle of knee flexion? Canadian Arthritis Network 2005 Annual Scientific Meeting. Ottawa, ON Oct 20, 2005 (award poster).
23. ***MacIntyre NJ**, Inglis D, Adachi JD, Webber CE. Is there a relationship between apparent trabecular bone structure as measured by peripheral quantitative computed tomography and disease severity in patients recently diagnosed with rheumatoid arthritis? 5th Global Arthritis Research Network (GARN) Symposium, Vienna, Austria. Sept 17, 2005 (poster)
24. ***McKnight B**, **MacIntyre NJ**, Wilson DR. Between limb differences are observed in normal patterns of patellar motion in young physically active males. 8th Annual Meeting for Health Sciences Research Trainees, Queen's University, Kingston, Ontario, Canada. May 31, 2005 (poster. Trainee received the Faculty of Health Sciences Award for Excellence in Research – Poster Presentation Competition).
25. ***MacIntyre NJ**, Pardy S, Ade L, Culham E, Wilson DR. Clinical assessments of patellar alignment in the relaxed extended knee do not reflect patellar kinematics during loaded knee flexion. 51st Annual Meeting of the Orthopaedic Research Society, Washington, District of Columbia, United States. Feb 21, 2005 (poster).
26. ***Hill NA**, **Fellows RA**, **MacIntyre NJ**, Harrison MM, Ellis RE, Wilson DR. The effect of high tibial osteotomy on three-dimensional patellar tracking: An in vivo study using magnetic resonance imaging. 51st Annual Meeting of the Orthopaedic Research Society, Washington, District of Columbia, United States. Feb 21, 2005 (poster).
27. **MacIntyre NJ**, **McKnight B**, **Hill NA**, Culham E, Ellis RE, *Wilson DR. Abnormal patellar kinematics are detected in a subgroup of individuals with Patellofemoral Pain Syndrome using a novel MRI-based method. 11th Meeting of the Combined Orthopaedic Associations, Sydney, Australia. Oct 25, 2004 (poster).
28. **Hill NA**, **Fellows RA**, **MacIntyre NJ**, **Tang TSY**, Harrison MM, Ellis RE, *Wilson DR. The effect of closing wedge high tibial osteotomy on three-dimensional patellar tracking. 11th Meeting of the Combined Orthopaedic Associations Sydney, Australia. Oct 28, 2004 (oral).

29. Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, *Ellis RE. Hardware-assisted 2D/3D intensity-based registration for assessing patellar tracking. 7th International Conference on Medical Image Computing and Computer Assisted Intervention, Saint-Malo, France. Sep 27, 2004 (poster)
30. ***MacIntyre NJ**, Hill NA, Fellows RA, Ellis RE, Wilson DR. A noninvasive MRI based method for assessing patellofemoral joint kinematics detects differences between healthy and symptomatic knees. 4th Global Arthritis Research Network (GARN) Symposium, Montreal, Qc, Canada. Sept 13, 2004 (poster)
31. *Tang TSY, Bethune C, **MacIntyre NJ**, Stewart AJ, Ellis RE. Hardware-assisted 2D/3D intensity-based registration. 4th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Chicago, Illinois, United States. Jun 17, 2004 (poster).
32. *Hoy F, Bardana D, Birchard J, **MacIntyre NJ**. Medial hamstring muscle strength decrease after anterior cruciate ligament reconstruction using semitendinosus autografts. 7th Annual Meeting for Health Sciences Research Trainees, Queen's University Kingston, Ontario, Canada. Jun 8, 2004 (poster).
33. *Hill NA, Fellows RA, **MacIntyre NJ**, Tang TSY, Harrison MM, Ellis RE, Wilson DR. The effect of high tibial osteotomy on three-dimensional patellar tracking. 12th Scientific Meeting of the International Society for Magnetic Resonance in Medicine Kyoto, Japan. May 15, 2004 (e-poster).
34. Fellows RA, Hill NA, **MacIntyre NJ**, Harrison MM, Ellis RE, *Wilson DR. Repeatability of a magnetic resonance imaging-based method for measuring three-dimensional patellar kinematics in loaded flexion. 12th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Kyoto, Japan. May 19, 2004 (poster).
35. ***MacIntyre NJ**, Hill NA, Fellows RA, Orchard S, Tang TSY, Ellis RE, Culham E, Wilson DR. Abnormal patellar tracking in individuals with patellofemoral pain syndrome. 50th Annual Meeting of the Orthopaedic Research Society, San Francisco, United States. Mar 7, 2004 (oral).
36. *Fellows RA, Hill NA, **MacIntyre NJ**, Harrison MM, Ellis RE, Wilson DR. Repeatability of a magnetic resonance imaging-based method for measuring three-dimensional patellar kinematics in loaded flexion. 50th Annual Meeting of the Orthopaedic Research Society, San Francisco, United States. Mar 7, 2004 (oral).
37. *Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Accuracy of a fluoroscopy technique for assessing patellar tracking. 6th International Conference on Medical Image Computing & Computer Assisted Interventions, Montreal, Canada. Nov 17, 2003 (oral).
38. Hill NA, Fellows RA, Gill HS, ***MacIntyre NJ**, Leclaire SC, Tang TSY, Harrison MM, Ellis RE, Wilson DR. Magnetic resonance imaging based method accurately assesses three-dimensional patellar tracking in vivo. Canadian Orthopaedic Association Annual Meeting, Winnipeg, Manitoba, Canada. Oct 3, 2003 (oral).
39. *Tang TSY, **MacIntyre NJ**, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Fluoroscopy-based method accurately assesses three-dimensional kinematics of the patellofemoral joint. Canadian Orthopaedic Association Annual Meeting, Winnipeg, Manitoba, Canada. Oct 3, 2003 (oral).
40. Hill NA, Fellows RA, Gill HS, **MacIntyre NJ**, Leclaire SC, Tang TSY, Harrison MM, Ellis RE, *Wilson DR. A novel magnetic resonance imaging based method accurately assesses three-dimensional joint motion in vivo. International Society for Magnetic Resonance in Medicine, Toronto, Ontario, Canada. Jul 12, 2003 (poster).

41. Tang TSY, MacIntyre NJ, Gill HS, Fellows RA, Hill NA, Wilson, DR, *Ellis RE. Comparison of a fluoroscopy-based method with RSA for the assessment of patellar tracking. 3rd Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Marbella, Spain. Jun 21, 2003 (poster).
42. *MacIntyre NJ, Radcliffe T, Ellis RE. Validation of a new x-ray based method of detecting osteoporosis. 49th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, United States. Feb 4, 2003 (poster).
43. *MacIntyre NJ, Tang TSY, Gill HS, Fellows RA, Hill NA, Wilson DR, Ellis RE. Accuracy of a fluoroscopy imaging technique for assessing patellar tracking. 49th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, United States. Feb 4, 2003 (poster).
44. *Fellows RA, Hill NA, Gill HS, MacIntyre NJ, Leclaire SC, Tang TSY, Harrison MM, Ellis RE, Wilson DR. Accuracy of a magnetic resonance imaging based method for assessing three-dimensional patellar tracking in vivo. 49th Annual Meeting of the Orthopaedic Research Society New Orleans, Louisiana, United States. Feb 3, 2003 (oral).
45. *MacIntyre NJ, Webber CE, Adachi JD. Relation between disease activity and apparent radial bone trabecular texture in individuals with rheumatoid arthritis. 24th Annual Meeting of the American Society for Bone and Mineral Research, San Antonio, Texas, United States. Sep 21, 2002 (poster).
46. *Elias JJ, Wilson DR, Adamson R, MacIntyre NJ, Cosgarea AJ. Experimental validation of a computational model of the patellofemoral joint. IV World Congress of Biomechanics, Calgary, Alberta, Canada. Aug 5, 2002 (award oral).
47. *Larin HL, MacIntyre NJ, Webber CE, Beaumont L. Estimates of muscle strength in healthy preschool children and the relation with regional bone mineral density. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Long Beach, CA, USA. Oct 2001 (poster).
48. *Larin H, MacIntyre NJ, Webber CE, Beaumont L. Estimating muscle strength and the relation with bone mineral density in preschool children. Pre-American Society for Bone and Mineral Research Meeting on Pediatric Bone, Hamilton, Ontario, Canada. Sep 21, 2000 (poster).
49. *Larin H, MacIntyre NJ, Beaumont L, Sternin Y, Webber CE. Normative values of regional bone mineral density and whole body composition in preschool children. Pre-American Society for Bone and Mineral Research Meeting on Pediatric Bone, Hamilton, Ontario, Canada. Sep 21, 2000 (poster).
50. *MacIntyre NJ, Adachi JD, Webber CE. Assessment of apparent trabecular bone porosity at the distal radius in women matched for bone density discriminates individuals with recent wrist fractures from those without fracture. 22nd Annual Meeting of the American Society for Bone and Mineral Research, Toronto, Ontario, Canada. Sep 25, 2000 (oral).
51. *MacIntyre NJ, Adachi JD, Webber CE. An evaluation of in vivo distal radius bone structure measurements. 21st Annual Meeting of the American Society for Bone and Mineral Research, St. Louis, Missouri, United States. Oct 4, 1999 (poster).
52. *MacIntyre NJ, Adachi JD, Webber CE. In vivo distal radius bone structure measurements. pQCT User Meeting, Sun Valley, Idaho, United States. Aug 7, 1999 (oral).
53. *MacIntyre NJ, Adachi JD, Webber CE. In vivo distal radius bone structure measurements. 29th Hard Tissue Workshop, Sun Valley, Idaho, United States. Aug 11, 1999 (oral).

54. ***MacIntyre NJ**, Bhandari M, Blimkie JB, Adachi JD, Webber CE. Response of healthy nonweightbearing bone to alterations in mechanical loading. pQCT User Meeting, Sun Valley, Idaho, United States. Aug 7, 1999 (poster).
55. ***MacIntyre NJ**, Bhandari M, Blimkie JB, Adachi JD, Webber CE. Response of healthy nonweightbearing bone to alterations in mechanical loading. 29th Hard Tissue Workshop, Sun Valley, Idaho, United States. Aug 11, 1999 (oral).
56. *Larin H, **MacIntyre NJ**, Webber CE. Measurement of bone mineral density in preschool children with spastic diplegia: a reliability study. 13th World Confederation for Physical Therapy Congress on Physical Therapy, Yokohama, Japan. May 26, 1999 (poster).
57. *Larin HL, **MacIntyre NJ**, Webber CE. Measurement of bone mineral density in preschool children with spastic diplegia: a reliability study. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, San Antonio, Texas, United States. Sep 17, 1998 (poster).
58. ***MacIntyre NJ**, Adachi JD, Webber CE. Peripheral quantitative computed tomography measurements of normal human bone mass and structure. 19th Annual Meeting of the American Society for Bone and Mineral Research, Cincinnati, United States. Sep 11, 1997 (poster).
59. ***MacIntyre NJ**, Bhandari M, Adachi JD, Webber CE. In vivo measurements of bone mass and structure in individuals with recent wrist fractures. pQCT Users Meeting, Sun Valley, Idaho, United States. Aug 9, 1997 (oral).
60. ***MacIntyre NJ**, Bhandari M, Adachi JD, Webber CE. In vivo measurements of bone mass and structure in individuals with recent wrist fractures. 27th Hard Tissue Workshop, Sun Valley, Idaho, United States. Aug 13, 1997 (poster).
61. ***MacIntyre NJ**, Webber CE, Adachi JD. Peripheral quantitative computed tomography measurements of normal bone mass. 2nd Regional Symposium on Skeletal Biology and Metabolic Bone Disease, London, Ontario, Canada. Apr 12, 1997 (poster).
62. Larin H, **MacIntyre NJ**. Construct validity of the motor teaching strategies coding instrument: Studies of NDT experience. Ontario Physiotherapy Association Conference, Mississauga, Ontario, Canada. Mar 7, 1997 (oral).
63. Gordon CL, Webber CE, ***MacIntyre NJ**, Muller ME, Christoforou N. In vivo assessment of trabecular bone structure. 18th Annual Meeting of the American Society For Bone and Mineral Research, Seattle, Washington, United States. Sep 10, 1996 (poster).
64. Gordon CL, **MacIntyre NJ**, *Webber CE. Bone mass and structure deficits in the non-fractured radius of patients with Colles' fracture. Fifth Bath Conference on Osteoporosis and Bone Mineral Measurement, Bath, UK, Bath, United Kingdom. Jun 4, 1996 (poster).
65. Merrifield PA, ***MacIntyre NJ**, Hanington A. Myogenic potential of mouse myoblast cell lines in vitro and in vivo. American Society for Cell Biology Annual Meeting, Denver, Colorado, United States. Nov 9, 1992 (poster).

**ABSTRACTS ACCEPTED FOR PRESENTATION AT SCIENTIFIC MEETINGS (trainee;
* presenting author)**

1. *Calder K, Galea V, Wessel J, MacDermid J, **MacIntyre NJ**. Normalization of EMG amplitude: a comparison of different methods used to test individuals with arthritis of the hand. 33rd Annual Meeting of the American Society for Biomechanics, Providence, Rhode Island, August 18-21, 2010 (podium)

2. ***MacIntyre NJ**, Beattie KA, Quan E, Adachi JD, Maly M. Association between thigh muscle volume and femur bone volume in women from the OAI study. OARSI 2010 World Congress on Osteoarthritis. Brussels, Belgium Sept 24, 2010 (poster)
3. *Beattie KA, **MacIntyre NJ**, Quan E, Adachi JD, Maly M. Changes in intermuscular fat and muscle volume in the thighs of women in the incident and progression cohorts of the OAI. OARSI 2010 World Congress on Osteoarthritis. Brussels, Belgium Sept 24, 2010 (poster)

**ABSTRACTS SUBMITTED FOR PRESENTATION AT SCIENTIFIC MEETINGS (trainee;
* presenting author)**

1. ***MacIntyre NJ**, Bennett L, Bonnyman A, Stratford PW. Application of the generalizability theory for determining inter-rater and inter-trial reliability of spine curvature measures in postmenopausal women with osteoporosis of the spine using the flexicurve ruler and digital inclinometer. ACR/ARHP 2010 Annual Scientific Meeting, November 2010 Atlanta, Georgia,

ADMINISTRATIVE RESPONSIBILITIES

Division/Department

2008 - 2011	Member, School of Rehabilitation Science Research Committee, SCHOOL OF REHABILITATION SCIENCE (Chair 2010-2011)
2009 Jul - 2010 Jun	Chair, OT/PT MSc Programs Admission Committee,, SCHOOL OF REHABILITATION SCIENCE
2009 - present	Member, Search Committee (Occupational Therapy Faculty Position), SCHOOL OF REHABILITATION SCIENCE
2007 - present	Member, MSc (Physical Therapy) Programme PASC Committee, SCHOOL OF REHABILITATION SCIENCE
2007 - present	Member, Master of Science (Physiotherapy) Curriculum Committee, SCHOOL OF REHABILITATION SCIENCE
2007 - present	Member, Physiotherapy Faculty Governing Committee, SCHOOL OF REHABILITATION SCIENCE
2007 - present	Member, School of Rehabilitation Science Council, SCHOOL OF REHABILITATION SCIENCE
2007 - present	Member, Physiotherapy Program Interprofessional Education Advisory Committee, SCHOOL OF REHABILITATION SCIENCE
2007 - 2009	Member, Search Committee (Assistant Dean (Physiotherapy) and Anatomy Faculty Positions), SCHOOL OF REHABILITATION SCIENCE
2007 Jul - 2009 Jun	Member, OT/PT MSc Programs Admission Committee, (Vice Chair 2008-2009), SCHOOL OF REHABILITATION SCIENCE
2000 - 2001	Member, Evidence Based Practice Ad Hoc Working Group, SCHOOL OF REHABILITATION SCIENCE

2000 - 2001 Member, Academic Committee, Elected, SCHOOL OF REHABILITATION SCIENCE

2000 - 2001 Member, Awards Committee, SCHOOL OF REHABILITATION SCIENCE

External

2003 - present Member, Scientific Committee, Human Mobility Research Centre, QUEEN'S UNIVERSITY - INTERFACULTY (HEALTH SCIENCE, APPLIED SCIENCE, ARTS AND SCIENCE)

2005 - 2007 Member, Board of Directors, Human Mobility Research Centre, Representative of Scientific Committee, QUEEN'S UNIVERSITY - INTERFACULTY (HEALTH SCIENCE, APPLIED SCIENCE, ARTS AND SCIENCE)

2005 - 2006 Member, Appointments Committee, Bargaining Unit Member Representative [Selected and interviewed candidates and filled 1 OT and 2 PT tenure stream faculty positions.], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY

2004 - 2006 Member, Resource Committee, Human Mobility Research Centre (2005 – 2006, Space Subcommittee Member), QUEEN'S UNIVERSITY - INTERFACULTY (HEALTH SCIENCE, APPLIED SCIENCE, ARTS AND SCIENCE)

2004 - 2006 Member, Glaxo Wellcome Clinical Education Centre Advisory Committee, PT Program representative, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES

2004 - 2006 Member, Glaxo Wellcome Clinical Education Centre Executive Committee, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES

2003 - 2006 Member, Student Progress and Promotion Committee, QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY

2003 - 2006 Member, Physical Therapy (PT) Program Committee [2006 - Participated in preparation of Standards 2 and 6 of self study and in site visit for accreditation purposes.], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY

2003 - 2006 Member, Academic Council, [2006 - Participated in external academic review of School of Rehabilitation Therapy], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY

2003 - 2006 Member, Graduate Program Committee, Representing Graduate Faculty. [Annually reviewed and ranked applications for internal and external graduate student awards. Participated in preparation of OCGS Appraisal], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY

2005 Member, Hiring Committee for Manager of Glaxo Wellcome Clinical Education Centre, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES

- 2005 Member, Content Planning and Building Subcommittee, User Group # 5, School of Rehabilitation Therapy Representative, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES
- 2005 Member, Content Planning New Faculty of Health Sciences Faculty Members and Canadian Research Chairs Subcommittee, School of Rehabilitation Therapy Representative, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES
- 2005 Member, Organizing committee and adjudicator of presentations at the 8th Annual Meeting for Health Sciences Research Trainees, QUEEN'S UNIVERSITY - FACULTY OF HEALTH SCIENCES
- 2005 Member, Search Committee, Computer Assisted Surgery Position, QUEEN'S UNIVERSITY - INTERFACULTY (HEALTH SCIENCE, APPLIED SCIENCE, ARTS AND SCIENCE)
- 2004 - 2005 Member, Student Advisor, 1st year MSc(PT) students (24 students), QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2004 - 2005 Member, Promotions, Renewal and Tenure Committee, QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2004 - 2005 Member, Student Progress and Promotion Sub-committee, PT Faculty Rep., QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2004 - 2005 Member, Director's Administrative Committee, (Summer / Winter / Spring Terms), QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2003 - 2005 Member, Physical Therapy Appointments Committee (PTAC), [Program Faculty Rep (03/04), PRT Committee Rep (04/05)], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2003 - 2005 Member, Occupational Therapy Appointments Committee (OTAC), QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY
- 2003 - 2004 Member, Curriculum Development Subcommittee, (Co-Chair 2004) [Launched Stream 2 MSc(PT) and MSc(OT) programs in 2003; launched Stream 1 MSc(PT) and MSc(OT) programs in 2004.], QUEEN'S UNIVERSITY - SCHOOL OF REHABILITATION THERAPY