

## **CAROL ANN DeMATTEO**

### **EDUCATIONAL BACKGROUND:**

- 1989 MSc. Design, Measurement and Evaluation Program, McMaster University.  
Thesis: Prediction of Outcome in Children with Head Injury.
- 1983 Neurodevelopmental Therapy Certification, London, Ontario
- 1982 Sensory Integration Certification, Toronto, Ontario
- 1973 Diploma in Physical and Occupational Therapy, University of Toronto

### **Professional Awards**

- 2009 John C Sibley Teaching Award for Part Time Faculty, McMaster University
- 1988 Award for Development of Occupational Therapy in the Community Ontario Society  
of Occupational Therapists, Hamilton Branch

### **CURRENT STATUS AT MCMASTER**

- July 1990 - present Associate Clinical Professor  
School of Rehabilitation Science

### **PROFESSIONAL ORGANIZATIONS**

- Oct. 1994 - present Ontario Society of Occupational Therapists
- Dec. 1993 - present College of Occupational Therapist of Ontario
- 1991 - 1993 Riyadh Regional O.T. Association, Saudi Arabia

### **EMPLOYMENT HISTORY**

#### **i) ACADEMIC**

- Sept 2007- Ongoing School of Rehabilitation Science, McMaster University  
EBP Chair, Term 5 Chair
- Jan 2001 – Ongoing School of Rehabilitation Science, McMaster University  
Co-ordinator Evidence Based Practice, OT 748.
- Oct 1998 - Ongoing School of Rehabilitation Science, McMaster University  
International Students' Co-ordinator,  
Jan 2000 Co-coordinator Professional Roles and Practice Term 2
- April 1997 – Aug 2000 School of Rehabilitation Science, McMaster University  
Co-ordinator Research Internship Course, Unit VI

Sept 1996 - Dec 2000	School of Rehabilitation Science, McMaster University Co-ordinator Problem Based Tutorials, Unit I,
Jan 1996 - 1998	School of Rehabilitation Science, McMaster University. Co-ordinator of International projects in Acquired Brain Injury
April 1994 - Aug 1994	School of Occupational Therapy and Physiotherapy, McMaster University Co Co-ordinator Independent Study Course, Unit VI
Dec.1989 - Nov. 1991	School of Occupational Therapy and Physiotherapy, McMaster University Curriculum Planner and Instructor, Occupational Therapy Programme.
Nov. 1979 - 1990	Mohawk College, Chedoke-McMaster Hospitals, Hamilton Clinical Instructor, Occupational Therapy, McMaster Division Course Co-ordinator and Lecturer Occupational Therapy Programme

## **ii) CLINICAL**

2009-ongoing	Advanced practice OT, Coordinator of ABI Follow-up Clinic & OBPI clinic.
1993 – 2009	Clinical Specialist, Occupational Therapy Children's Hospital at Hamilton Health Sciences Corporation
1994 - 1996	Occupational Therapist Halton Parent Infant Program
1993 - 1995	Paediatric Therapist Community Therapy Services
1991 - 1993	Supervisor Occupational Therapy King Fahad National Guard Hospital, Riyadh, Saudi Arabia
1979 - 1991	Clinical Manager Practice, Paediatric Senior O.T., Acute Care, Clinical Instructor Chedoke-McMaster Hospitals, McMaster Division/Mohawk College
1975 - 1978	Senior Occupational Therapist, Regency Park Crippled Children's' Centre Adelaide, South Australia
1977	Part-time Evening Physical Therapist, Adelaide Children's Hospital Adelaide, South Australia
1973 - 1975	Staff Occupational Therapist, Chedoke Hospitals

## **CONSULTATIONS**

## **i) Educational**

- 2009 McMaster University/ Friends of Kurdistan Inter Professional Team consultation to Kurdistan
- 2001 Merck Frost Pharmaceuticals, Hamilton. "Critical Appraisal and Application of the Literature on Therapy", an evening seminar
- 2000 Byk Pharmaceuticals, Oakville. " An Introduction to Evidence Based Practice", an afternoon seminar.
- 1999 Chinese University of Hong Kong and the Hong Kong Hospital Authority, Hong Kong. "Evidence Based Practice for Allied Health Professionals", a weeklong workshop.
- 1996 Occupational Therapy Program, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand. "Problem Based Learning ". "Acquired Brain Injury: Evaluation and Treatment".
- 1991 Faculty of Applied Health Sciences, Northern Outreach Program, Ministry of Health, Atikokan, Ontario. "Self Directed Learning".
- 1990 Faculty of Applied Health Sciences, University of Western Ontario, London, Ontario "Self Directed Learning".

## **ii) Clinical**

- 2010 University of Michigan, Mott Childrens Hospital, Brachial Plexus Program. "Neonatal Brachial Plexus Palsy: From Impairment to Function. Measuring Outcomes along the way."
- 2003 Children's Hospital of Eastern Ontario. "Obstetrical Brachial Plexus Injuries" and "Clinical vs Videofluoroscopic assessment in Children with feeding problems.
- 1998 St Josephs Hospital, Hamilton. "A critical review of feeding practices for High Risk Infants and recommendations for practice".
- 1997 St Josephs Hospital, Hamilton. "Individualized Developmental Care and the role of Occupational Therapy for the High Risk Neonate"
- 1996 Kluaynamthai Hospital, Bangkok, Thailand. "Program development for Acquired Brain Injury. Team function and roles. Outcome evaluation".
- 1982-83 Hamilton Wentworth Roman Catholic Separate School Board, Hamilton, Ontario "Sensory Integration Dysfunction - A Series of five Professional Development Lectures for Special Education Teachers.
- 1981 Hamilton Wentworth Catholic Separate School Board, Hamilton, Ontario "Sensory Integrative Dysfunction".

## **SCHOLARLY AND PROFESSIONAL ACTIVITIES:**

### **i) Executive Positions**

2010-	Provincial MTBI Strategy: Diagnostic Group Member
2009-	Member of the National Population Study on Neurological Conditions, Expert Advisory Groups, Public Health Agency of Canada.
1999 – 2001	Pediatric representative on Committee for Regional Acquired Brain Injury Executive, Hamilton Wentworth.
1987 - 1989	Board of Directors, Lynwood Hall Children's Centre
1987 - 1988	Board of Directors, Head Injury Association of Ontario

### **ii) Journal Referee/ Review Boards**

2010-	Referee PEDIATRICS (1)
2008-	Grant reviewer, CIHR the Children's Health Peer Review Committee (CHI)
2008- 2009	Grant reviewer, Hamilton Health Sciences New Investigator Competition
2007	Referee Physiotherapy Canada (1)
2006-ongoing	Reviewer SickKids Foundation (2)
2006-	Reviewer Bloorview Research Institute (2)
2005-	Referee, Pulmonary Respirology (1)
2004-	Grant reviewer, Canadian Occupational Therapy Foundation (4)
2004-	Referee, Developmental Medicine and Child Neurology (14)
2004-	Referee, Pediatric Rehabilitation (2)
2003-	Grant reviewer, Ontario Association of Occupational Therapists
2002	Member Nomination Committee, Department of Pediatrics, McMaster University
2002	Referee, abstracts, Developmental Co-ordination Disorder Conference program May 2002, Banff Alberta
1999-	Referee, Physical and Occupational Therapy in Pediatrics (22).
1999	Member, Selection Committee: Chief of Pediatrics, Hamilton Health Sciences Corporation.
1987 - 1992	Grant Reviewer, Ministry of Health

### iii) Other

2009- 2009- 2009- 2009-2010 2009-	Children and Youth with ABI - Research to Practice Network Pediatric International Society for children and youth with ABI. National Community of Practice of Clinicians working with OBPI McMaster Student Ethics Review Committee Academic Committee , School of Rehabilitation Science, McMaster University
2007-	Consensus panel member for Insurance Board Canada and ONF: Evidence based classification of brain impairment: application to catastrophic impairment classification.
2001 -	Investigator, CANCHILD Centre for Childhood Disability Research
2002 - 2006	Member of McMaster Centre for Peace Studies, Afghanistan Rehabilitation Group
1999 – ongoing (CANADEM)	Member of Canadian Resource Bank for Democracy and Human Rights
1997 – 1999	Member of Lebanon Rehabilitation Working Group
1996 – ongoing	Member of Canadian Society of International Health
1996 – 2001 1996 – 1998	Co-founder and member of Canadian Landmine Research Network. Member of McMaster Landmine Working Group
1982 - 1985	OSOT Task Force for Occupational Therapy in the Schools
1982 - 1984	OSOT Representative to Alliance for Children of Ontario

### **COURSES TAUGHT**

#### **i) Graduate McMaster University MSc (OT) Program**

September 2010-	McMaster University, School of Rehabilitation Science PBL course co-ordinator MSc. OT #717.
September 2009-	McMaster University, School of Rehabilitation Science , Term 5 Chair
September 2008- 2010	McMaster University, School of Rehabilitation Science , EBP Chair
September 2000 - Ongoing	McMaster University, School of Rehabilitation Science Curriculum planner and course co-ordinator MSc, OT. Evidence Based Practice: Research and Practice Inquiry Seminars #748
September 2003 -8	Tutor Evidence Based Practice #747

## **ii) Undergraduate**

### **McMaster University BHSc (OT) Programme**

April 1997 - 2000	Co-ordinator Research Internship Course, Unit VI
Sept. 1996 - 2000	Co-ordinator and tutor Unit I Problem Based Tutorials
April 1994-Aug1994	Co Planner: Unit VI Independent Study Course.
1993 - 1996	Tutor, Unit II ,Pediatrics, BHSC(O.T.)Programme
1990 - 1991	Co-Planner, Block II, B.H.Sc. (OT) Programme
1990 - 1991	Co-ordinator, Clinical Skills Lab, OCCTHER 1L24, B.H.Sc. (OT) Programme

### **Mohawk College OT Programme**

1991	Course Co-ordinator and Tutor OC904 Clinical Problem Solving, Paediatrics
1980 - 1991	Course Co-ordinator and Lecturer OC403 Occupational Therapy Techniques, Paediatric
1986 - 1989	Tutor, PT 811 Critical Appraisal of Research Literature Lecturer, OC903 O.T. Techniques, Paediatric
1981 – 1986	Tutor, OT Anatomy

## **ii) Postgraduate/Faculty Development**

2002	Planner and teacher, Critical Appraisal, Clinical Research Associate Course, Hamilton Health Sciences.
1998	Planner and presenter, Towards Terrific Tutoring – An Advanced Tutor's Workshop: School of Rehabilitation Science, McMaster University.
1994 - present	Tutor, Problem Based learning and Role of the Tutor Workshops. Program in Educational Development. McMaster University.
1990	Tutor, Problem Based Learning Workshop: Program in Educational Development, McMaster University
1983 - 1985	Tutor and Co-planner, Clinical Teaching Workshop: Program in Educational Development, McMaster University

## **SUPERVISORSHIPS**

2007-	Supervisory committee member 2 PHd Rehabilitation Science
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2007-2010	Supervisor 2 BHSc research projects
2002-2011	Supervisor 21 MSc OT research projects
2001- 2007	Supervisor 2 MSc Rehabilitation Science students
2001-2002	Supervisor 4 MCHS OT research students
1997 – 2001	Supervisor Research Internship (6 –8 students per year)
1980 - 2009	Clinical Preceptor (at least one undergraduate/graduate student/year)

## **RESEARCH:**

### **Funded:**

Funding Agency	MOHLTC
Amount	33,000
Funded Period	2011
Project Title	Developmental trajectories of youth with disabilities (age 12-25 years of age): A knowledge synthesis.
Investigators	<u>Jan Willem Gorter</u> , Debra Stewart, Marc Woodbury-Smith, Matthew Freeman, Tram Nguyen, Marilyn Wright, Carrie Catherine Leo, Marilyn Swinton, Jan Burke-Gaffney, Cheryl Missiuna, Wenonah Campbell, Peter Rosenbaum, Carol DeMatteo.
Funding Agency	Ontario Neurotrauma Foundation
Amount	\$360,000
Funded Period	2008-2012
Project Title	School Reintegration for Children and Youth with Acquired Brain Injury
Investigators	Good D., Rumney, P., DeMatteo, C., McDougall, J., McKeever, P., Guerriere, D., Loyst, S., Martinussen, R., Bennett, B., Kumpf, J., DeCourville, N.
Funding Agency	HAHSO (Hamilton Academic Health Sciences Organization)
Amount	\$30,000
Funded Period	2008-2011
Project Title	Pilot Study of Limb length discrepancy in Obstetrical Brachial Plexus Injury
Investigators	<u>Bain, J.R.</u> , DeMatteo, C., Agro, D.
Funding Agency	ONF-REPAR-Partnership - Team Development and Research Program
Amount	\$120,000
Funded Period	2007-2010
Project Title	Understanding and measuring integrated cognitive, motor, sensory and psychosocial functioning in ecologically valid contexts to improve diagnosis, prognosis and treatment following TBI.

Investigators	<u>Green, R., McFadyen, B.</u> , Dade, L., Dawson, D., DeMatteo, C., Forget, R., Gagnon, I., Keightley, M., Kehayia, E., McIlroy, B., McKerral, M., Ptito, A., Schneider, C., Zabjek, K.
Funding Agency	CIHR
Amount	370,000.00
Funded Period	2005 - 2011
Project Title	Trajectories and Consequences: The longterm follow-up on children and youth with acquired brain injury.
Investigators	<u>DeMatteo, C.</u> , Hanna, S., Law, M., Scott, L., Mahoney, W., Newman, A.
Funding Agency	Ontario Neurotrauma Foundation
Amount	150,000.00
Funded Period	2005 - 2007
Project Title	Inappropriate living environments for children and youth with moderate to severe brain injury
Investigators	<u>DeMatteo, C., Law, M.</u> , MacArthur, C., Colantonio, A., Taplickey, R.
Funding Agency	Ontario Neurotrauma Foundation
Amount	\$48,600.00
Funded Period	2005 - 2006
Project Title	Developing a classification system for children with Mild Traumatic Brain Injury
Investigators	<u>DeMatteo, C., Hanna, S.</u> , Law, M., Scott, L., Mahoney, W., Newman, A., Hollenberg, R.
Funding Agency	Ontario Neurotrauma Foundation
Amount	\$79,078.00
Funded Period	2002 - 2003
Project Title	Cognitive Intervention for Children with Traumatic Brain Injury
Investigators	<u>C. Missiuna</u> , A. Mandich, DeMatteo, C., Hanna, S., Law, M., Scott, L., Mahoney, W.,
Funding Agency	Ontario Neurotrauma Foundation
Amount	\$186,500.00
Funded Period	2001 - 2004
Project Title	Transitions in Children after Acquired Brain Injury
Investigators	<u>DeMatteo, C., Hanna, S.</u> , Law, M., Scott, L., Mahoney, W., Newman, A., Rosenbaum, P., Cupido, C.
Funding Agency	Hamilton Health Foundation
Amount	\$8,000.00
Funded Period	2000 - 2001
Project Title	Functional Outcomes in Children after Traumatic Head Injury
Investigators	<u>DeMatteo, C.</u> , Malcolmson, C., Hollenberg, R., Ratz, B., Tuff, L., Scott, L.
Funding Agency	Economical Insurance Company
Amount	\$25,000.00
Funded Period	2000 - 2001
Project Title	"A review of the evidence in the treatment of Acquired Brain Injury in children."
Investigators	<u>Law, M.</u> , Rosenbaum, P., DeMatteo, C., Stewart, D., <u>Rumney, P.</u>

Funding Agency	Hamilton Health Sciences Research Development Fund
Amount	\$9876.00
Funded period	1999 - 2001
Project Title	"Functional Outcomes in Children after Head Injury."
Investigators	<u>DeMatteo, C.</u> , Malcolmson, C., Hollenberg, R., Ratz, B.
Funding Agency	Hamilton Health Sciences Corporation Research Development Fund
Amount	\$5000.00
Funded Period	1999 – 2001
Project Title	" A Comparison of Clinical Assessment with Videoflourosocopy in Detecting Aspiration in Children with Feeding Problems."
Investigators	<u>DeMatteo, C.</u> , Matovich, D., Hjartarson, A., Braddock, K., Flasier, N.
Funding Agency	Ministry of Health
Amount	\$110,000.00
Funded Period	1990
Project Title	"A Crossover Design of Intensive Neurodevelopmental Therapy in Young children with Cerebral Palsy.
Investigators	<u>Law, M.</u> , Cadman, D., Rosenbaum, P., DeMatteo, C., Walter, S., Russell, D.
Funding Agency	Easter Seals
Amounts	\$16,250.00
Funded Period	June 1989 - 1990
Project Title	"Validation of a Measure to Evaluate Quality of Upper Extremity Function in Children with Cerebral Palsy".
Investigators	<u>Law, M., DeMatteo, C., Russell, D., Pollock, N., Cadman, D., Rosenbaum, P., Walters, S.</u>
Funding Agency	Easter Seals
Amount	\$10,895
Funded Period	une 1987 - 1989
Project Title	"The Effect of Food Texture on Feeding Ability in Children with Head Injuries".
Investigators	<u>Law, M., DeMatteo, C.</u> , Goldsmith, C., & Kalloghian, J.
Funding Agency	Ministry of Health
Amount	\$168,671
Funded Period	May/86-89
Project Title	"Neurodevelopmental Therapy and Casting for Cerebral Palsy"
Investigators	<u>Law, M.</u> , Cadman, D., Rosenbaum, P., Walter, S., DeMatteo, C.
Funding Agency	Mohawk College
Amount	\$2,000
Funded Period	1982 - 1984
Project Title	"Exit Survey of Mohawk College Graduates"
Investigators	<u>Tremblay M, DeMatteo C.</u>

**Unfunded Research:**

- 2011 DeMatteo, C., Rubinoff, M., Greenspoon, D. "Determining readiness for return to activity for children/youth after MTBI/Concussion in a busy clinic: Exploring the use of Wii for exertion and balance testing.
- 2010 DeMatteo, C. Butrum, A. "Measuring scapular size in OBPI; new software Applications "
- 2010 DeMatteo, C., Roberts,PJ., Griffith, M. "An Evaluation of the Erin Oak Mealtime Program"
- 2009 DeMatteo, C., Cassel, L., Bateman, J., Kusalingham, S. "Reliability and Clinical Utility of the Pediatric Rancho Los Amigos Scale for children with Acquired Brain Injury"
- 2008 DeMatteo, C., Case, P., Lund, D., Lee, K. "The Association of Gastro-esophageal Reflux with Food Aversion in Infants and Children"
- 2007 DeMatteo, C., Chopra, J. Agro, D., Bain, J. "Hand Dominance after Obstetrical Brachial Plexus Injury"
- 2005 DeMatteo, C., Agro, D., Bain, J., Shapiro, L., Morrow, K."Recovery Patterns in Obstetrical Brachial Plexus Injury"
- 2005 DeMatteo, C., Agro, D., Adams, R., Mah, J., Clark, D. "Impact on Family of Obstetrical Brachial Plexus Injury"
- 2003 Case, P. DeMatteo, C., Brown, M. Clayton, M. "Sensory Behavioural Feeding Problems in Children- The Effectiveness of a Parent Education Program.
- 2002 DeMatteo, C., Elliott, L. "Feeding Problems in Children With Acquired Brain Injury"
- 2002 DeMatteo, C. Cornwell, J. "Outcomes in Infants with Obstetrical Brachial Plexus Injuries"
- 1998 DeMatteo C, Bain, J., Ross, J., Trendel, K. "Incidence and Economic Impact of Obstetrical Brachial Plexus Injury"
- 1997-98 DeMatteo C, Matovitch D. "A Comparison of Videoflourosopy and Clinical Assessment in Determining Aspiration during Feeding in Infants and Children"
- 1996-98 DeMatteo C, Malcolmson C, Hollenberg R. "Follow-up of Children with Head Injury"
- 1993 Kagawalla A, Dematteo C, Smith P. "Developmental Follow up of Children in Saudi Arabia with Congenital Chloride Losing Diarrhoea."
- 1990 DeMatteo C, Stazyk K, Hollenberg B. "Miller Assessment Screening Results of Neonates <1000 grams at 3yrs. of age follow up."
- 1988 DeMatteo C, Kalloghian J, Malcolmson C. "Pediatric Head Injury Data Base"

1984            Law M, McIntosh J, DeMatteo C. "Predictors of Outcome in Broncho Pulmonary Dysplasia : A retrospective feasibility study." McMaster Hospital.

### **LIFETIME PUBLICATIONS:**

#### i) Peer reviewed Journal Articles

Law, M., Anaby,D., DeMatteo, C., Hanna, S., "Participation Patterns of Children with Acquired Brain Injury". *Brain Injury*. (accepted with revisions Jan 2011)

Levac, D., Missiuna, C., Wishart, L., DeMatteo, C. , Wright, V. "Documenting the content of physical therapy for children with acquired brain injury: Development and validation of the Motor Learning Strategy Rating Instrument". *PTJ*. (accepted with revisions Dec 2010)

Levac, D., Missiuna, C., Wishart, L., Wright, V., Carol DeMatteo. "Measuring the use of motor learning strategies within 'usual' and virtual reality physiotherapy interventions for children with acquired brain injury" .*Research in Developmental Disabilities* (submitted Dec 2010)

DeMatteo, C., Hanna, S., Mahoney, W., Hollenberg, R., Scott, L., Law, M., Newman, A., Lin, C. & Xu, L. (2010). "My child doesn't have a brain injury, he only has a concussion": Understanding how clinicians use the word "concussion" in pediatric hospitals. *Pediatrics* 125 (2), 327-334.

Missiuna, C., DeMatteo, C., Law, M., Hanna, S., & Mandich, A. (2010). Cognitive orientation to occupational performance for children with brain injury. *Physical & Occupational Therapy in Pediatrics*, 30(3), 205-219.

Levac, D., & DeMatteo, C. (2009). Bridging the gap between theory and practice: Dynamic Systems Theory as a framework for understanding and promoting recovery of function in children and youth with acquired brain injuries. *Physiotherapy Theory and Practice*, November 2009, 25 ( 8), 544-554

Bain, J., DeMatteo, C., Gjertsen, D. Hollenberg, R. (2009). Navigating the grey zone: A guideline for surgical decision making in obstetrical brachial plexus injuries. *Journal of Neurosurgery: Pediatrics*, 3, 173-180.

Levac, D., DeMatteo, C., Hanna, S., & Wishart, L. (2008). Intra-individual variability in recovery from paediatric acquired brain injury: Relationship to outcomes at 1 year. *Developmental Neurorehabilitation*, 11, 195-203.

DeMatteo, C. A., Cousins, M. A., Lin C.-Y. A., Law, M. C., Colantonio, A., & Macarthur, C. (2008). Exploring postinjury living environments for children and youth with acquired brain injury. *Archives of Physical Medicine and Rehabilitation*, 89, 1803-1810

JG van Dijk, W Pondaag, MJA Malessy, C DeMatteo, J Bain, D Gjertsen, V Galea, Thierry Deonna, Eliane Roulet-Perez, H el ene Chappuis, Anne-Lise Ziegler(2006) "Letter to the Editor: botulinum toxin and the pathophysiology of obstetric brachial plexus lesions". *Developmental Medicine & Child Neurology* Volume 49, Issue 4: 318-320.

DeMatteo, C., Bain, J.R., Galea, V., Gjertsen, D. (2006) The role of botulinum toxin as an adjunct to motor learning therapy and surgery for obstetrical brachial plexus injury. *Developmental*

*Medicine and Child Neurology* Volume 48, Issue 04, 245-252.

DeMatteo, C., Matovich, D., Hjartarson, A. (2005) A comparison of videofluoroscopy and clinical evaluation in children with feeding and swallowing problems. *Developmental Medicine and Child Neurology* \_47, 149-157

Law, M., Rosenbaum, P., Teplikey, R., Stewart, D., DeMatteo, C. (2005). A review of the evidence in the treatment of children with acquired brain injury. *Archives of Physical Medicine and Rehabilitation* 88,May.924-931.

DeMatteo, C., Law, M., Goldsmith, C. (2002). The effect of food textures on intake by mouth and the recovery of oral motor function in the child with a severe brain injury. *Physical & Occupational Therapy in Pediatrics* 22(3/4)

DeMatteo, C., Law, M., Russell, D., Pollock, N., Rosenbaum, P.& Walter S.: (1993) The Quality of upper extremity skills test. *Physical & Occupational Therapy in Pediatrics*\_13(2)

Law M., Cadman D., Rosenbaum P., Walters S., DeMatteo C., Russell D: (1991) A clinical trial of Neurodevelopmental Therapy and Inhibitive Casting. *Developmental Medicine & Child Neurology*\_ 33, 379-387.

Law M, Cadman D, Rosenbaum P, Russell D, Dematteo C, Walter S.: (1989) Evaluation of treatment in occupational therapy.Part 1. Methodology issues in conducting clinical trials. *Canadian Journal of Occupational Therapy* 56(5)

Cadman D, Law M, DeMatteo C, Walter S; Rosenbaum P; Russell D: (1989) Evaluation of treatment in occupational therapy: Part 2. Practical Issues in Conducting Clinical Trials. *Canadian Journal of Occupational Therapy* 56(5).

#### *Submitted*

Lin, Chia-Yu, DeMatteo, Carol, Hanna, Steven. (Aug., 2010) Retention patterns of children and youth with acquired brain injury and their families in longitudinal research. *Submitted to Brain Injury*

Bain, J; & DeMatteo, C., Gjertsen, D; Packham, T; Gallea, V. (July 2010). Limb length discrepancies in Obstetrical Brachial Plexus Injuries: A Growing Concern. *Submitted to Journal of Hand Surgery*.

#### ii) Book Chapters

Baum, C., Wilkins, S. & DeMatteo, C. (2002). Making the shift: Referral based on an occupational performance deficit rather than diagnosis. In M. Law, S. Baptiste, & C. Baum(Eds.), Occupation-based practice: Fostering health through occupation. Thorofare, NJ: Slack.

#### iii) PEER-REVIEWED ABSTRACTS PUBLISHED:

DeMatteo, C., Hanna, S, Mahoney, W., Warriner, E., Law, M., Scott, L., Lin, C., Yousefi-Nooraie,R. (2010). Neuropsychological Outcomes in Children and Youth after Acquired Brian Injury: A longterm perpective. [Abstract]. *Brain Injury*, 24(3) 304.

DeMatteo, C., Hanna, S., Mahoney, W., Law, M., Abdel-Motagally M., Lin, C. Yousefi-

Nooraie,R. (2010). The Long-term Quality of Life in Children, Youth, and Young Adults after Acquired Brain Injury [Abstract]. *Brain Injury*, 24(31), 303

Levac, D., Wright, V., Wishart, L., Missiuna, C., DeMatteo, C. Exploring the content of physiotherapy (PT) interventions for children and youth with ABI: Development and validation of a rating instrument[Abstract].. *Brain Injury*, 24(31), 83.

DeMatteo, C., Cousins, M., Lin, C., Law, M., Colantonio, A., MacArthur, C.(2008) The nature and extent of inappropriate living environments for children and youth with moderate to severe acquired brain injury. [Abstract]. *Brain Injury*, 22(Suppl.1), 52.

DeMatteo, C., Mahoney, W., Hanna, S., Hollenberg, R., Scott, L., Newman, A., Law, M., Lin, C., & Xu, L. (2008). Trajectories and Predictors of Recovery in Children with Acquired Brain Injury [Abstract]. *Brain Injury*, 22(Suppl.1), 56.

DeMatteo, C., Hanna, S., Hollenberg, R., Mahoney, W., Newman, A., Scott, L., Law, M., Xu, L., & Lin, C. (2008). "My child doesn't have a brain injury, he only has a concussion": Understanding how clinicians use the word 'concussion' in pediatric hospitals [Abstract]. *Brain Injury*, 22(Suppl.1), 51-52.

DeMatteo, C., Hanna, S., Scott, L., Mahoney, W., Law, M., Rosenbaum, P., & Newman, A. (2005). Transitions experienced by children and their families after brain injury [Abstract]. *Brain Injury*, 19(Suppl.1), 97.

Scott, L., DeMatteo, C., Hanna, S., Rosenbaum, P., Law, M., Mahoney, W., & Newman, A. (2005). Towards the identification of a developmental pathway of cognitive recovery from paediatric acquired brain injury [Abstract]. *Brain Injury*, 19(Suppl.1), 7.

Mahoney, W. J., DeMatteo, C., Hanna, S. E., Rosenbaum, P. R., & Law, M. (2003). Functional outcome of traumatic brain injury in children [Abstract]. *Brain Injury*, 17(Suppl.1), 88.

Larin, H. & DeMatteo, C. (1998). Commitment to International Development in Rehabilitation: The McMaster Experience (POS15). *Physiotherapy Canada*, Spring:50(s).

#### v) Non Peer Reviewed Publications

Gorter,JW., Stewart,D., Woodbury-Smith, M., Freeman,M., Nguyen,T., Wright, M., Leo, CC., Swinton,M., Burke-Gaffney, J., Missiuna, C., Campbell, W., Rosenbaum, P., DeMatteo, C. (February 28, 2011) "Developmental trajectories of youth with disabilities (age 12-25 years of age): A knowledge synthesis. Final Paper to Ministry of Children and Youth Services (MCYS)".

383+ media publications web, newspaper and magazines in addition to live TV and radio interviews for 'Concussion' paper embargoed for press release in Jan 2010 by Pediatrics journal. Google: DeMatteo, Carol, Concussion

DeMatteo, C., Singh, S., Baine, J. (2009) A Proposal for a Multidisciplinary Pediatric Neurotrauma Program Clinic Concept. McMaster Children's Hospital and McMaster University

Belicki,D., Belicki,K., DeMatteo,C., Dykeman, L., Hilts, L, Idenouye, P. Lee-Poy, M. (2009) Kurdistan Iraq, October 2009: the results of a Canadian Inter professional Medical Mission. Funded by Friends of Kurdistan NGO

DeMatteo, C., Law, M., Colantonio, A., MacArthur, C. (2007) The Nature and Extent of Inappropriate Living Environments for Children and Youth with Moderate to Severe Acquired Brain Injury. Scientific Report, funded by Ontario Neurotrauma Foundation.

DeMatteo, C., Hanna, S., Law, M., Scott, L., Mahoney, B., Newman, A., Hollenberg, R. (2006) Establishing Valid Criteria For Classification Of Mild Traumatic Brain Injury In Children.

DeMatteo, C. (2003) Feeding and Eating Interventions for Children and Youth with Brain Injury. KC #03-1, *CanChild* Keeping Current.

Law, M., Rosenbaum, P., Teplikey, R., Stewart, D., DeMatteo, C., Rumney, P. (May 2003). Effective Rehabilitation for Child and Youth with Brain Injury: Evaluating the Evidence. Project Report funded by Economical Insurance Company.

DeMatteo, C., Hanna, S., Law, M., Rosenbaum, P., Scott, L., Mahoney, B., Newman, A., (2001) "Transitions Experienced by Children and Their Families after Acquired Brain Injury" Scientific report funded by Ontario Neurotrauma Foundation.

DeMatteo, C., Law, M., Russell, D., Pollock, N., Rosenbaum, P., Walter, S. (1992) QUEST: Quality of Upper Extremity Skills Test. Neurodevelopmental Clinical Research Unit

v) Unpublished

McMaster Children's Hospital Acquired Brain Injury Team (2002). A Handbook for Parents of Children with Acquired Brain Injury.

DeMatteo, C. (1989). Prediction of Outcome in Children With Severe Head Injury. A study for M.Sc. (Design, Measurement and Evaluation) Degree.

## **PRESENTATIONS**

### **Invited**

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| 2011 | <u>DeMatteo, C.</u> "Let's take the Brain Injury out of play. A concussion seminar and panel". Collingwood Hospital April 2011  |
| 2010 | <u>De Matteo, C.</u> "Neonatal Brachial Plexus Palsy - Impairment to Function – Measuring Outcomes Along the Way" University of Michigan, Brachial Plexus Program, Oct 2010.  |
| 2010 | <u>DeMatteo, C.</u> & Bagnathar, N. "Discovering the Power of the Evidence". Workshops for OT's . Ontario Society of Occupational Therapists conference Sept 2010   |
| 2010 | <u>DeMatteo, C.</u> , Singh, S., Mahoney, W. "Neuropsychological Outcomes in Children and Youth after Acquired Brian Injury: A long-term perspective." Department of Paediatrics Grand Rounds, McMaster University. |
| 2010 | <u>DeMatteo, C.</u> Gunnarsson, T, Mahoney, B.; "The child with a brain injury; challenges and choices." Children with Complicated Lives An Interprofessional Pediatric Conference, Hamilton, May 19, 2010          |

- 2008 DeMatteo, C., Bain, J., Agro, D. "Evidenced based assessment and treatment for Infants and children with OBPI" Pediatric Grand Rounds, Grand River Hospital, Kitchener, On.
- 2007 DeMatteo, C. "Acquired Brain Injury in Children: What have we learned so far? Evidence Theory and Practice" Capital Health Services, Edmonton Alta.
- 2007 DeMatteo, C. "A Comparison of Clinical Evaluation and Videofluoroscopy in Children with Feeding and Swallowing Problems" Implications for Practice, Capital Health Services, Edmonton Alta.
- 2007 DeMatteo, C. Mahoney, B., Hanna, S. "MTBI in Children" Pediatric Grand Rounds McMaster Children's Hospital.
- 2007 DeMatteo, C. "The effect of Landmines on children" Peace through Health, Interprofessional Peace Through Health Course, McMaster University.
- 2007: DeMatteo, C. "The Role of Clinical Evaluation and Videofluoroscopy in Children with Feeding and Swallowing problems" Hospital for Sick Children Toronto, Pediatric Outcomes Research Team "Outcomes Research"
- 2006: DeMatteo, C., "My child doesn't have a brain injury, he only has a concussion": Understanding how clinicians use the word 'concussion' in Pediatric hospitals. Ontario Neurotrauma Foundation Annual research meeting.
- 2006 DeMatteo, C., "Exploring post injury living environments for children and youth with acquired brain injury" Ontario Neurotrauma Foundation Annual research meeting.
- 2003 DeMatteo, C. "Outcomes in Children after Head Injury: Issues in Prediction" Children's Hospital of Eastern Ontario: Research Rounds.
- 2003 DeMatteo, C. "Obstetrical Brachial Plexus Injuries" Neonatal Network Conference, Burlington, ON.
- 2002 De Matteo, C., Matovich, D., Hjartarson, A., Case, T. "A Comparison of Clinical and Videofluoroscopic Evaluation of Children with Feeding and Swallowing Difficulties" Pediatric Grand Rounds McMaster Children's Hospital.
- 2002 DeMatteo, C. "Obstetrical Brachial Plexus Injuries" Neonatal & Surgery rounds McMaster, Children's Hospital.
- 2002 DeMatteo, C. Mahoney, B., Hanna, S. "Outcomes in children after ABI" Pediatric Grand Rounds, McMaster Children's Hospital.
- 2000 DeMatteo, C. "Quantitative Research". An Introduction to Research Day. Hamilton Health Sciences Corporation.
- 2000 DeMatteo, C., Ronen, G., Bain, J. " Perinatal Brachial Plexus Palsy". McMaster University, Department of Paediatrics.

- 2000 DeMatteo, C. "Discharge planning and the Role of Occupational Therapy with the High Risk Neonate", a series of 10 presentations for Physicians, residents and nurses. NICU and Department of Pediatrics, McMaster University.
- 1996 DeMatteo, C., "Not Just Laying Around" Positioning of Neonates. Neonatal Conference, McMaster University.
- 1992 DeMatteo, C., "Occupational Therapy in Saudi Arabia". King Fahad Hospital, Riyadh, Saudi Arabia.
- 1989 DeMatteo, C., Newberry, P., Tuft, L. "Head Injury Database". Pediatric Work in Progress Rounds. McMaster University
- 1988 DeMatteo, C., Stazyk, K., Law, M. "Head Injury Feeding Study". Pediatric Grand Rounds. McMaster University
- 1987 DeMatteo, C. "Neurodevelopmental Therapy and Casting Workshop". McMaster University.
- 1985 DeMatteo, C., "A Clinical Trial of Sensory Integrative Therapy for Learning Disabled Children". Ontario Society of Occupational Therapists, Hamilton
- 1984 DeMatteo, C., Burch-Gill, J. "Strategies for Community Education and Increased Utilization of OT Service to Schools", Memo 81. Information Day. Ontario Society of Occupational Therapists
- 1984 Law, M., DeMatteo, C. "A Clinical Trial of Sensory Integration Therapy for Learning Disabled Children. Paediatric Work in Progress Rounds. McMaster University
- 1983 Dematteo, C. "The Vestibular System". Paediatrics Rounds, Chedoke Hospital
- 1982 DeMatteo, C. "The Role of Occupational Therapy in the School". The Council for Exceptional Children Conference, Hamilton, Ontario

### **Peer Reviewed Contributed**

- 2010 DeMatteo, C., Hanna, S, Mahoney, W., Warriner, E., Law, M., Scott, L., Lin, C., Yousefi-Nooraie, R. "Neuropsychological Outcomes in Children and Youth after Acquired Brain Injury: A longterm perspective." 8<sup>th</sup> World Congress of the International Brain Injury Association, Washington., March.
- 2010 DeMatteo, C., Hanna, S., Mahoney, W., Law, M., Abdel-Motagally M., Lin, C. Yousefi-Nooraie, R. "The Long-term Quality of Life in Children, Youth, and Young Adults after Acquired Brain Injury". 8<sup>th</sup> World Congress of the International Brain Injury Association, Washington., March 2010.

- 2009 DeMatteo, C., Agro, D., Bain, J. The impact of obstetrical brachial plexus Injury on the development of hand dominance in children. XVI Narakas International Symposium on Brachial Plexus Surgery, Luxembourg, May, 2009.
- 2008 Case, P., DeMatteo, C. The effectiveness of a parent education program for children with sensory behavioural feeding problems. AACPD, Atlanta Georgia, Sept, 2008.
- 2008 Mahoney, W., DeMatteo, C., Hanna, S., Hollenberg, R., Scott, L., Newman, A., Law, M., Lin, C., & Xu, L.. Trajectories and Predictors of Recovery in Children with Acquired Brain Injury. The Seventh World Congress on Brain Injury, Lisbon, Portugal, April 9-12.
- 2008 DeMatteo, C., Hanna, S., Hollenberg, R., Mahoney, W., Newman, A., Scott, L., Law, M., Xu, L., & Lin, C.. "My child doesn't have a brain injury, he only has a concussion": Understanding how clinicians use the word 'concussion' in pediatric hospitals. The Seventh World Congress on Brain Injury, Lisbon, Portugal, April 9-12.
- 2008 DeMatteo, C., Cousins, M., Lin, C., Law, M., Colantonio, A., MacArthur, C.(2008) The nature and extent of inappropriate living environments for children and youth with moderate to severe acquired brain injury. The Seventh World Congress on Brain Injury, Lisbon, Portugal, April
- 2007 Levac D., DeMatteo C, Hanna S, Wishart L. "Intra-individual variability in recovery from pediatric acquired brain injury: relationship to functional outcomes at one year" North American Brain Injury Society's 5th Annual Conference. San Antonio, TX Sept 29th, 2007.
- 2007 Levac D., DeMatteo C. *Bridging the gap between theory and practice:* "Dynamic Systems Theory as a framework for understanding and promoting recovery of function in children and youth with acquired brain injuries" North American Brain Injury Society's 5th Annual Conference. San Antonio, TX Sept 29th, 2007.
- 2007 DeMatteo, C., Agro, D. Bain, J. "Impact on the family" XV Narakas International Symposium on Brachial Plexus Surgery. San Juan, Puerto Rico.
- 2007 Agro, D., DeMatteo, C., Bain J. "Botox works immediately" XV Narakas International Symposium on Brachial Plexus Surgery. San Juan, Puerto Rico.
- 2007 DeMatteo, C., Bain, J. Agro, D. "Complete spontaneous recovery; What is it?" XV Narakas International Symposium on Brachial Plexus Surgery. San Juan, Puerto Rico.
- 2006 DeMatteo, C, Cousins M, Lin C, Colantonio A, Macarthur C, Law M. "A Qualitative Look at the Nature and Extent of Inappropriate Living Environments for Children and Youth with Moderate to Severe Acquired Brain Injuries" Toronto ABI Network Conference
- 2006 Missiuna, C., Mandich, A., DeMatteo, C., Law, M., & Hanna, S. "Examining cognitive orientation to Occupational performance for children with brain injury."

Canadian Association of Occupational Therapists' Annual Conference. Montreal, Quebec.

- 2005 DeMatteo, C., Hanna, S., Mahoney, B., Law, M., Rosenbaum, P., Scott, L., Newman, A. "Transitions experienced by children and their families after brain injury" 6th World Congress on Brain Injury, Melbourne Aust.
- 2004 DeMatteo, C., Law, M., Missiuna, C., & Hanna, S. "Cognitive intervention for children with acquired brain injury: A pilot study." Poster presentation ABI Network Conference, Toronto, On.
- 2004 Law, M., Missiuna, C., DeMatteo, C. & Hanna, S. "Advancing practice through innovative rehabilitation with children with acquired brain injury" Poster presented at Ontario Association of Children's Rehabilitation Services Conference. Toronto, ON.
- 2004 DeMatteo, C., Bain, J., Agro, D. "A hand named George" - An occupational therapy approach using dynamic systems theory to facilitate central integration and prevention of neglect of the affected limb in infants with obstetrical brachial plexus injury" XIV International Symposium on Brachial Plexus Surgery, Brescia Italy.
- 2004 Bain, J., DeMatteo, C., Agro, D. "The role of botulinum toxin as an adjunct to motor learning therapy and surgery for obstetrical brachial plexus injury". XIV International Symposium on Brachial Plexus Surgery, Brescia Italy.
- 2004 DeMatteo, C., Bain, J., Agro, D. "Navigating the Grey Zone". XIV International Symposium on Brachial Plexus Surgery, Brescia Italy.
- 2003 DeMatteo, C. Outcomes in Children after Head Injury: Issues in Prediction. Pacific West Coast Brain Injury Conference, Vancouver.
- 2003 DeMatteo, C., Hanna, S. Functional outcomes in Children after Head Injury. Ontario Neurotrauma Conference, Toronto, On
- 2003 Law, M., Rosenbaum, P., Stewart, D., DeMatteo, C., Teplicky, R., Rumney, P. Effective Rehabilitation for Children and Youth with Brain Injury: Analyzing the Evidence and Sharing the Findings. Poster presentation. Ontario Neurotrauma Foundation Conference, Toronto.
- 2003 Mahoney, W. J., DeMatteo, C. A., Hanna, S. E., Rosenbaum, P. R., & Law, M. Functional outcome of traumatic brain injury in children. The Fifth World Congress on Brain Injury, Stockholm, Sweden.
- 2002 DeMatteo, C., Matovich, D., Hjartarson, A., Case, T. A Comparison of Clinical and Videofluoroscopic Evaluation of Children with Feeding and Swallowing Difficulties. American Academy of Cerebral Palsy and Developmental Medicine. New Orleans.
- 2001 DeMatteo, C., Newman, A. Functional outcomes in Children after Head Injury. Ontario Association of Children's Rehabilitation Services, London.

- 2001 DeMatteo, C., Matovich, D., Hjartarson, A., Case, T. A Comparison of Clinical and Videofluoroscopic Evaluation of Children with Feeding and Swallowing Difficulties. Ontario Association of Children's Rehabilitation Services, London.
- 2001 DeMatteo, C., Matovich, D., Hjartarson, A., Braddock, K. A Comparison of Clinical and Videofluoroscopic Evaluation of Children with Feeding and Swallowing Difficulties. World Federation of Occupational Therapists, Montreal.
- 1998 DeMatteo, C. & Larin, H. (1998). Commitment to International Development in Rehabilitation. World Federation of Occupational Therapists, Montreal.
- 1998 Larin, H. & DeMatteo, C. (1998). Commitment to International Development in Rehabilitation. Poster presentation. Canadian Physiotherapy Association, St Johns.
- 1997 DeMatteo, C. "Rehabilitation of Landmine Survivors" Canadian Society of International Health, Ottawa
- 1997 DeMatteo, C. "Not Just Laying Around", Positioning Neonates for Function" The Physical and Developmental Environment of the High Risk Infant, Clearwater
- 1988 Rosenbaum, P., Law, M., DeMatteo, C., Russell D. "Issues in Measurement in Developmental Medicine". American Academy of Cerebral Palsy and Developmental Medicine, San Francisco
- 1988 DeMatteo, C., Law, M. "Quality of Upper Extremity Skills Test". American Academy of Cerebral Palsy, San Francisco
- 1988 DeMatteo, C., Russell, D. "Quality of Movement Assessment". Canadian Association of Occupational Therapists Annual Conference, Kitchener
- 1987 Rosenbaum, P., Law, M., DeMatteo, C. "Design Issues in Clinical Trials in Rehabilitation". American Academy of CP and Developmental Medicine, Boston
- 1987 DeMatteo, C., Russell, D. "Quality of Movement Assessment". Association of Childrens Treatment Centres, Ontario

### **ADMINISTRATIVE RESPONSIBILITIES**

- 2009- McMaster University, School of Rehabilitation Science , Term 5 Chair
- 2008- 2010 McMaster University, School of Rehabilitation Science , EBP Chair
- 2009 – 2010 Member Faculty of Health Sciences Student Ethics Committee, McMaster University
- 2008 – ongoing Member Academic Committee SRS McMaster University
- 1996 – ongoing Member Curriculum Committee, McMaster University, School of Rehabilitation Science, OT Program.

1996 – ongoing	Member of OT PBL Co-ordinators group, McMaster University
1998 - ongoing	Co-ordinator of Pediatric Acquired Brain Injury Clinic, McMaster Children's Hospital
1998 - 2008	Member Admissions Committee McMaster University, School of Rehabilitation Science.
1999 - 2009	Member of Pediatric Rehabilitation Beds working group, McMaster Children's Hospital.
2002 - 2005	Member of MCH Program Strategic Planning "Quality Counts" leadership group.
1998 – 2006	International students' Co-ordinator, School of Rehabilitation Science, McMaster University
1998 - 2000	Academic Director, Acquired Brain Injury Program, McMaster University & HHSC
1996 - 1998	Co-ordinator Thailand Acquired Brain Injury Project, McMaster University
1996 – 2005	Member, Children's' Hospital, Paediatric Section Committee
1989 – 1997	McMaster University, School of Occupational Therapy. Representative to Centre for International Health