

Curriculum Vitae: Denis Brunt, P.T., Ed.D.

Professor and Chair
Department of Physical Therapy
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EDUCATION

C.P.E. St. Luke's College, University of Exeter, Exeter, England, 1970. Teaching Certificate in Physical Education.

B.S. University of Oregon, Eugene, Oregon, 1975. Physical Education.

M.S. University of Oregon, Eugene, Oregon, 1977. Exercise Science (Anatomy, Biomechanics, Sports Medicine).

Ed.D. University of Oregon, Eugene, Oregon, 1979. Exercise Science (Movement Dysfunction).

M.S. Texas Woman's University, Houston, TX., 1986. Entry level degree in Physical Therapy.

EMPLOYMENT HISTORY

1976-78, Graduate Assistant, Department of Health, Physical Education and Recreation, University of Oregon, Eugene, Oregon. Instructor, service course program. Instructor, graduate anatomy lab.

1979-81, Assistant Professor, Department of Health, Physical and Recreation Education, Louisiana State University, Baton Rouge, Louisiana. Instructor, graduate and undergraduate courses. Implementation of teacher certification program in physical education for the handicapped.

1981-83, Assistant Professor, Department of Physical and Health Education, The University of Texas at Austin, Austin, Texas. Instructor, graduate and undergraduate courses. Director, Movement Development Clinic.

1983-84, Assistant Professor, Faculty of Physical Education, University of Otago, New Zealand. Instructor, undergraduate physical education and kinesiology courses. Director, Movement Development Clinic and Research Center.

1985-86, Lecturer, School of Physical Therapy, Texas Woman's University, Houston, Texas. Instructor, gross anatomy lab and graduate program.

1985, Research Associate, Department of Neuroscience, The Institute for Rehabilitation and Research, Houston, Texas.

1985-86, Research Assistant, Department of Child Psychiatry, University of Texas, Houston, Texas.

1986-1990, Associate Professor, School of Physical Therapy, Texas Woman's University, Houston, Texas. Director, Musculoskeletal Laboratory. Instructor, Entry Level, Advanced Masters and Ph.D. programs.

1990-92, Associate Scholar, Department of Physical Therapy, University of Florida, Gainesville.

1990-1994, Rehab Hospital Services Corporation Term Professor, Department of Physical therapy, University of Florida, Gainesville.

1992-present, Associate Professor, Department of Physical Therapy, University of Florida, Gainesville.

1994-1998, Joint Appointment, Exercise and Sports Science, University of Florida, Gainesville.

2002-present, Professor and Chair, Department of Physical Therapy, East Carolina University, Greenville, NC.

ADMINISTRATIVE POSITIONS

Director of Research, Department of Physical Therapy, Texas Woman's University, Houston, Texas, 1988-90.

Graduate Coordinator, Department of Physical Therapy, University of Florida, Gainesville, Florida, 1994-2000.

Interim Chair, Department of Physical Therapy, University of Florida, Gainesville, Florida, January 1995-June 1996.

Program Director, Rehabilitation Science Doctoral Program, College of Health Professions, 1998-2000

Program Director, Graduate Programs, Department of Physical Therapy, 2000-2002

Chair, Department of Physical Therapy, East Carolina University, Greenville, NC, 2002-present

UNIVERSITY COMMITTEE MEMBERSHIP

Texas Woman's University

Graduate Council, 1988-90.

Research Support Committee, 1987-88, 1989-90.

Human Subjects Committee, 1988-90.

Animal Research Committee, 1987-90.

University of Florida

Health Center Student Conduct Standards Committee, 1992-95.

Search Committee, Dean, College of Health Professions, 1994.

Graduate Coordinators Advisory Committee, 1994-95.

Graduate School Strategic Planning Task Force, 1994-95.

Chair, Graduate Coordinators Advisory Committee, 1995-96.

Graduate Task Force on Graduate Enrollment, 1996-97.

Health Science Center Advisory Library Committee, 1996-98.

Health Science Center Institutional Review Board, 1998-99

Search Committee, Director, Brooks Center for Rehabilitation, 2000.

East Carolina University

Ad Hoc, Doctoral Studies Committee, Graduate School, 2003-2004

Graduate School Administrative Board, 2004-present

University Committee on Intellectual Property/Patents, 2004-present

Health Science Division Strategic Planning Committee, 2005-2006

Health Sciences Research and Graduate Education Task force. 2005-present

PROFESSIONAL MEMBERSHIP

American Physical Therapy Association, 1985-present.

Florida State Physical Therapy Association, 1990-2002.

North Carolina State Physical Therapy Association, 2002-present.

Society for Neuroscience, 1993-present.

North American Society of Gait and Clinical Movement Analysis, 1996-present.

PROFESSIONAL ACTIVITY

Member, Foundation Program Advisory Council, Foundation for Physical Therapy, 1992-93.

External Grant Reviewer, Research Advisory Committee, Foundation of Physical Therapy, 1992-present.

Chair, Research Committee, Florida Physical Therapy Association, 1995-1997

Alternate Member, Awards Committee - Research Committee, American Physical Therapy Association, 1996-present.

Member, Education Committee, North American Society of Gait and Clinical Movement Analysis, 1996-2002.

Alternate Member, Committee for Screening Proposals/Abstracts, American Physical Therapy Association, 1997-1998.

Member, Committee for Screening Proposals/Abstracts, American Physical Therapy Association, 1998-2002.

TEACHING ACTIVITY

Entry-level Courses:

Biomechanics
Dissection Anatomy
Gait, Orthotics, Prosthetics
Research Design

Advanced Degree Courses:

Control of Gait and Posture

HONORS

Post Doctoral Fellowship, Department of Kinesiology, University of California, Los Angeles, California, 1978-79.

Post Doctoral Fellowship, School of Physical Therapy, Texas Woman's University, Houston, Texas, 1985-86.

Research and Writing Excellence Award, Texas Woman's University, Houston, Texas, 1986.

Ph.D. SUPERVISION

Chair, Sandy Moore, 'Kinetic, kinematic and electromyographic study of the effects of reach velocity and postural set on postural adjustments associated with reaching in seated subjects', TWU, 1990.

Co-Chair, Merry Lynne Hamilton, 'Effect of optokinetic stimulation on gait initiation in children ages four and ten', TWU, 1991.

Co-Chair, Julie Robichaud, 'Neural modulation of isometric contractions', University of Florida, 1997.

Chair, Hyeong-Dong Kim, 'The effect of a reaction time task and dual task on stepping behavior in the healthy elderly' December 2002

Chair, Mark Bishop, 'Force modulation during gait termination in Parkinson's disease' August 2002

GRANT ACTIVITY

Principal Investigator. Movement Problems of Meningomyelocele Children. Biomedical Research Support Grant, The University of Texas at Austin, 6-1-82 to 3-3-83. \$3,000.

Principal Investigator. The Investigation of Vestibular Dysfunction and Balance Problems in Deaf Children. Biomedical Research Support Grant, The University of Texas at Austin 4-22-83 to 3-31-84. \$5,000.

Principal Investigator. Research in Movement Problems of the Handicapped. University of Otago Research Grant, 1983-4. \$7,600.

Principal Investigator. Program for Research and Development for Movement Dysfunction and Rehabilitation in Children and Adults. Fletcher Challenge Charitable Trust, New Zealand, 1983-4. \$3,000.

Principal Investigator. Movement Problems of Deaf Children and Adults. Oticon Foundation, New Zealand, 1984-5. \$2,500.

Principal Investigator. Postural and Coordination Characteristics of the Disabled. University Grants Committee, New Zealand, 1984-5. \$26,500.

Principal Investigator. Rehabilitation Equipment for Head Injured Patients. Sub-Contract, 1986-87, \$10,000.

Principal Investigator. The Effect of Ischemic Blocking of the Loaded Limb on the Supraspinal Postural Reflex Response. Office of Research and Grants Administration, Texas Woman's University, 1986-87. \$2,200.

Principal Investigator. Postural Adjustments Prior to Voluntary Movement in Stroke Patients. Office of Research and Grants Administration, Texas Woman's University, 1988-89. \$2,550.

Co-Principal Investigator. Pre-Doctoral Research Fellowships. National Institute on Disability and Rehabilitation Research, 1990-1993, \$416,565.

Principal Investigator. Identification and the Adaptability of the Invariant Characteristics of Gait and Gait Initiation in the Elderly. Division of Sponsored Research, University of Florida, 1990-91, \$11,025.

Principal Investigator. Long Term Training Program to Provide Practicing Physical Therapists Specialized Clinical Skills in Vocational Rehabilitation and Independent Living Rehabilitation. US Department of Education, 1991-1994, \$238,992.

Principal Investigator. The Development and Biomechanical Validation of a Testing Instrument to Objectively Assess Mobility Skills of Elderly and Stroke Patients. Rehab Hospital Services Corporation, 1991-92, \$16,653.

Principal Investigator. The assessment of mobility skills in elderly and stroke patients. Division of Sponsored Research, University of Florida, 1992-93, \$13,000.

Principal Investigator. The effect of circumferential pressure of the ankle on spinal cord excitability and subsequent effect on motor function in stroke patients. Graduate Research Assistant Program, Division of Sponsored Research, University of Florida, 1993, \$6,990.

Principal Investigator. Long Term Training Program for Practicing Physical Therapists in Vocational Rehabilitation - Emphasis on Acute Comprehensive Rehabilitation Services with a Complete Inter-Disciplinary Team. US Department of Education, 1994-1997, \$294,875.

Contract with Polk County School District, 1998, \$30,000

Co-Principal Investigator. Eccentric muscle control during gait initiation and gait in healthy individuals and patients post SCI and CVA. College Incentive Fund Research Development Award, University of Florida, 1997, \$12,270.

Co-Principal Investigator. Changes in movement characteristics of children who have cerebral palsy or who are idiopathic toe-walkers following Botulinum Toxin Type A treatment and physical therapy intervention – a pilot study. Childrens Miracle Network, 2001, \$9,722.

Unrestricted education grant. Allergan, Irvine, California, 2001-2002, \$30,000.

Co-Principal Investigator. Is pulmonary dysfunction in Parkinson's disease related to disease progression. American Parkinson's Disease Foundation, 2002, \$35,000.

Co-Principal Investigator. Evaluation and treatment of gait and Balance disorders. Kate B. Reynolds Charitable Trust. 2006-2007. \$100,000.

EDITORIAL

Member, Editorial Board, Adapted Physical Activity Quarterly, 1983-93.

Manuscript Reviewer, Adapted Physical Activity Quarterly

Manuscript Reviewer, Journal of Orthopedic and Sports Physical Therapy

Manuscript Reviewer, Physical Therapy

Manuscript Reviewer, Archives of Physical Medicine and Rehabilitation

Manuscript Reviewer, Gait and Posture

Ad Hoc reviews for:

Journal of Neurophysiology

Clinical Neurophysiology

Experimental Brain Research

Journal of Athletic Training

American Journal of Audiology

Clinical Biomechanics

BOOKS AND CHAPTERS

Van Deusen J, Brunt D. Assessment in Occupational Therapy and Physical Therapy. W.B. Saunders Company, PA, 1997.

Wall JC, Brunt D. Clinical Gait Analysis: Temporal and Distance Parameters. In Van Deusen J, Brunt D (Eds), Assessment in Occupational Therapy and Physical Therapy. W.B. Saunders Company, PA, 1997.

PUBLICATIONS

1. Brunt D (1979). Mainstreaming: Implications for physical education. British Journal of Physical Education, 10, 3. 79-80.
2. Brunt D and Dearmond DA (1979). Evaluating motor profiles of the hearing impaired. Journal of Physical Education and Recreation, 52, 9, 50-52.
3. Brunt D (1980). Characteristics of upper limb movement in a sample of meningomyelocele children. Perceptual and Motor Skills, 51. 431-437.
4. Brunt D (1981). Predictive factors of perceptual motor ability in children with meningomyelocele. American Corrective Therapy Journal, 35, 42-46.
5. Broadhead GD and Brunt D (1982). Physical education training implications of public law about handicapped children, American Corrective Therapy Journal, 36, 9-13.
6. Brunt D and Broadhead GD (1982). Motor proficiency traits of deaf children. Research Quarterly for Exercise, Science and Sport, 53, 236-238.
7. Brunt D and Distefano EA (1982). The effect of movement uncertainty on reaction and movement time of learning disabled and normal boys. Canadian Journal of Applied Sports Science, 7, 138-141.
8. Distefano EA and Brunt D (1982). Non-retarded and mentally retarded children's performance on gross motor reaction and movement time tasks with varying degrees of movement uncertainty. Perceptual and Motor Skills, 55, 1235-1238.
9. Brunt D and Broadhead GD (1983). The ability of the Bruininks-Oseretsky Test of Motor Proficiency to discriminate between ability levels of deaf children. American Corrective Therapy Journal, 37, 85-89.
10. Brunt D and Housner LD (1983). The manipulation of dominant/non-dominant hand and ipsilateral/contralateral movement as a function of response organization in fourth grade children. Perceptual and Motor Skills, 56, 331-334.
11. Brunt D Magill RA and Eason RL (1983). Motor output variability distinction between learning disabled and normal children. Perceptual and Motor Skills, 57, 331-335.
12. Brunt D (1984). Apraxia in Children with meningomyelocele. Adapted Physical Activity Quarterly, 1, 7-15.
13. Brunt D Layne CS Cook M and Rowe L (1984). Automatic postural responses of deaf children from dynamic and static positions. Adapted Physical Activity Quarterly, 1, 247-252.
14. Frazee R Brunt D and Castle RF (1984). Exercise tolerance levels of a young child with congenital heart disease associated with Asplenia Syndrome. Adapted Physical Activity Quarterly, 1, 322-326.
15. Bullen A and Brunt D (1986). The effect of tendon vibration on unimanual and binamual movement accuracy. Experimental Neurology, 93, 311-319.
16. Brunt D Layne C Cook M and Rowe L (1987). Response patterns to postural perturbation in deaf children with vestibular dysfunction. Journal of Human Movement Studies, 13, 1-11.
17. Brunt D and Scarborough N (1988). Ankle muscle activity during gait in children with cerebral palsy and equinovarus deformity. Archives of Physical Medicine and Rehabilitation, 69, 115-117.

18. Brunt D Williams J Rice R (1990). Perturbation during gait: Analysis of EMG activity and temporal components of gait during recovery from perturbation. Archives of Physical Medicine and Rehabilitation, 71, 473-477.
19. Barr LL Brunt D Martin LR (1991). Tank carrier's lateral condylitis: A biomechanical rationale for injury and prevention. South Pacific Underwater Medicine Journal, 21, 37-41.
20. Moore S and Brunt D (1991). Effects of trunk support and target distance on postural adjustments prior to a rapid reaching task by seated subjects. Archives of Physical Medicine and Rehabilitation, 72, 638-641.
21. Brunt D Lafferty MJ Mulhausen C Mckeon A Goode B and Polk P (1991). Invariant characteristics of gait initiation. American Journal of Physical Medicine and Rehabilitation, 70, 206-212.
22. Hanten W Russel J Lucio R and Brunt D (1991). Assessment of total head excursion and resting head posture. Archives of Physical Medicine and Rehabilitation, 72, 877-880.
23. Brunt D Anderson JC Huntsman B Reinhert LB Thorell AC and Sterling JC (1992). Postural responses to lateral perturbation in healthy subjects and ankle sprain patients. Medicine and Science in Sports and Exercise, 24, 171-176.
24. Moore S and Brunt D (1992). Effects of trunk support, reach speed and distance reached on postural adjustments prior to a reaching task by seated subjects. Physical Therapy, 72, 335-343.
25. McCulloch MU Brunt D Vander Linden DL (1993). The effects of orthotics and gait velocity on the joint kinematics and temporal events of stance. Journal of Orthopedic and Sports Physical Therapy, 17, 2-10.
26. Vander Linden DW Brunt D McCulloch MU (1994). Variant and invariant characteristics of the sit-to stand task in healthy elderly adults. Archives of Physical Medicine and Rehabilitation, 75, 653-660.
27. Robichaud JA Brunt D (1994). Effect of circumferential pressure on response parameters during ballistic ankle plantar flexion in healthy adults. Perceptual and Motor skills, 78, 427-434.
28. Gilliam J, Brunt D, MacMillan M, Kinard RE, Montgomery, WJ. (1994) Relationship of the pelvic angle to the sacral angle: Measurement of clinical reliability and validity. Journal of Orthopedic and Sports Physical Therapy, 20, 193-199.
29. Brunt D, Vander Linden D, Behrman, A. (1995) The relationship between limb loading and control parameters of gait initiation in persons with stroke. Archives of Physical Medicine and Rehabilitation, 76: 627-634.
30. Brunt D, Robichaud J. (1996) Relationship between motoneuron pool excitability and parameters of timing and force in an isometric ankle extension movement. Perceptual and Motor Skills, 82: 448-450.
31. Monohar VJ, Brunt D, Robichaud JA. (1998) Limits of the dual-strategy hypothesis in an isometric plantar flexion task. Experimental Brain Research, 122:459-466.
32. Brunt D, Liu S-M, Trimble M, Bauer J. (1999) Principles underlying the organization of movement initiation from quiet stance. Gait and Posture, 10, 121-128.

33. Tillman MD, Fiolkowski P, Brunt D, Bauer J. (2000) Changes in gait due to anterior knee stability. Physical Therapy Case Reports, 3, 1, 11-16.
34. Brunt D, Short M, Trimble M, Liu S-M (2000). Control strategies for initiation of human gait are influenced by accuracy constraints. Neuroscience Letters, 285: 228-230.
35. Trimble MH, Du PF, Brunt D, Thompson FJ. (2000) Modulation of triceps surae H-reflexes as a function of the reflex history during standing and stepping. Brain Research, 858, 274-283.
36. Rogers MW, Kukulka C, Brunt D (2001). Influence of stimulus cue on the initiation of stepping in young and older adults. Archives of Physical Medicine and Rehabilitation, 82:619-624.
37. Jeon HS, Trimble M, Brunt D, Robinson M. (2001) Facilitation of quadriceps activation with muscle preloading. Journal of Orthopedic and Sports Physical Therapy, 31: 122-132.
38. Trimble MH, Brunt D, Jeon HS, Kim HD (2001). Reciprocal inhibition of the soleus during gait initiation in non-impaired subjects and an individual with a peroneal nerve injury. Muscle and Nerve, 24:1371-1379.
39. Brunt D, Greenberg B, Wankadia S, Trimble MA, Schechtman O (2002). The effect of foot placement on sit-to-stand in healthy young subjects and patients with hemiplegia. Archives of Physical Medicine and Rehabilitation 83: 924-929.
40. Fiolkowski P, Brunt D, Bishop M, Woo R (2002). Does postural instability affect the initiation of gait. Neuroscience Letters, 323:167-170.
41. Bishop MD, Brunt D, Pathare N, Patel B (2002). The interaction between leading and trailing limbs during stopping. Neurosci Letts, 323:1-4.
42. Robichaud JA, Brunt D, Tennant K (2002). Spinal Cord modulation of isometric contractions. Brain Research, 950:64-73.
43. Hass CJ, Schick EA, Chow J, Tillman M, Brunt D, Cauraugh JH (2003). Lower extremity biomechanics differ in prepubescent and postpubescent female athletes during stride jump landing. J Applied Biomech, 19:139-152.
44. Bishop M, Brunt D, Kukulka C et al (2003) Braking impulse and muscle activation during unplanned gait termination in human subjects with parkinsonism. Neuroscience Letters 348:89-92.
45. Fiolkowski P, Brunt D, Bishop M, Woo R, Horodyski MB (2003) Intrinsic Pedal Musculature Support of the Medial Longitudinal Arch: An Electromyography Study. J Foot Ankle Surg (42(6):327-33.
46. Bishop MD, Brunt D, Fiolkowski P, Pathare N, Ko M, Marjama-Lyons J (2003). Gait termination in parkinsonism: a review. Journal of the Korean Academy of University Trained Physical Therapists. 10(4): 43-60
47. Yi CH, Brunt D, Kim HD, Fiolkowski P (2003). Effect of ankle taping and exercise on EMG and kinetics during landing. J Phys Ther Science 15:81-85.
48. Tillman M, Chris R, Brunt D, Hass CJ (2004) Landing constraints influence ground reaction forces and lower extremity EMG in female volleyball players. J. Applied Biomech. 20:38-50.
49. Tillman, M.D., Hass, C.J., Brunt, D, & Bennett, G.R. (2004). Jumping and landing strategies in women's volleyball. Journal of Sports Science & Medicine 3:30-36.

50. Del Rossi, G, Horodyski, MB, Heffernan, TP, Powers, ME, Siders, R, Brunt, D, Reichtine, GR (2004). Spine-Board Transfer Techniques and the Unstable Cervical Spine. Spine 29(7): E134-E138.
51. Li S, Kukulka C, Rogers M, brunt D, Bishop M (2004). Sural nerve responses in human hip and ankle muscles while standing. Neurosc Letts 364: 59-62.
- 52 Bishop MD, Brunt D, Pathare N, Patel B (2004). The effects of cadence on the strategies used during gait termination. Gait and Posture, 20:134-139.
53. Brunt D, Woo R, Kim HD et al (2004). The effect of Botulinum Toxin Type A on gait in children who are idiopathic toe-walkers. J Surg Ortho Adv 13:1-7.
54. Brunt D, Santos V, kim HD, Light K, Levy C. (2005) Initiation of movement from quiet stance: Comparison of gait and stepping in elderly subjects of different levels of functional ability. Gait Posture 21, 297-302.
55. Bishop MD, Brunt D, N Pathare, M Ko, J Marjama – Lyons (2005). Changes in distal muscle timing may contribute to slowness during sit to stand in Parkinson’s disease. Clin Biomech 20:112-117
56. Fiolkowski P, Bishop M, Brunt D, Williams D (2005). Plantar feedback contributes to the regulation of leg stiffness. Clin Biomechanics, 29, 952-958.
57. Tillman MD, Hass CJ, Chow J, Brunt D. (2005). Lower extremity coupling parameters during locomotion and landings. J Applied Biom 21, 359-370.
58. Hass C, Schick E, Tillman M, Chow J, Brunt D, Cauraugh J (2005). Knee Biomechanics during Landings: Comparison of Pre- and Postpubescent Females Med Science Sports Ex 37:100-7.
59. Bishop MD, Brunt D, (2006) Do people with Parkinsons disease change strategy during unplanned gait termination? Neuroscience Letters 397:240-244.
60. Hatzel B, Horodyski MB, Kaminski TW, Meister K, Powers M, Brunt D (2006). Measurement of Glenohumeral joint laxity using the KT-2000 knee ligament arthrometer: A reliability analysis. Physical Therapy in Sport

PRESENTATIONS.

1. Brunt D. Factors relating to movement disorders in children with spina bifida cystica. National Conference, American Alliance of Health, Physical Education, Recreation, and Dance, Detroit, Michigan, May, 1980.
2. Brunt D. The effect of hydrocephalus on apraxic tendencies in children with meningomyelocele. National Conference, American Alliance of Health, Physical Education, Recreation and Dance, Boston, Massachusetts, April 1981.
3. Brunt D and Distenfino E A. The effect of movement uncertainty on reaction and movement times of learning disabled and normal boys. Third International Symposium on Adapted Physical Activities, New Orleans, Louisiana, November, 1981.
4. Brunt D Magill R A and Eason RL. Motor output variability distinctions between learning disabled and normal children. National Conference, American Alliance of Health, Physical education, Recreation and Dance, Houston, Texas, April, 1982.

5. Brunt D. and Broadhead GD. Assessment of Deaf Children for Physical Education. Eleventh National Conference on Physical Activity for the Exceptional Individual, San Diego, California, November, 1982.
6. Brunt D. A proposed rationale for the investigation of upper limb movement problems in children with meningomyelocele. Invited paper presented at the Eleventh National Conference on Physical Activity for the Exceptional Individual, San Diego, California, November, 1982.
7. Brunt D. Apraxia and related disorders: Developmental perspectives. Invited motor development symposium speaker, North American Society for the Psychology of Sport and Physical Activity, Michigan State University, East Lansing, Michigan, May, 1983.
8. Brunt D Mullin B Chumney B and Pederson S. The use of the Bruininks - Oseretsky Test of Motor Proficiency in screening children for adapted physical education. Texas Council for Exceptional Children, Austin, Texas, July, 1983.
9. Brunt D Layne C Cook M and Rowe L. Strategies for automatic postural adjustment in deaf children. National Conference of Australian Council for Health, Physical Education and Recreation, Sydney, January, 1984.
10. Brunt D Layne C Cook M and Rowe L. Response patterns to postural perturbations in deaf children with vestibular dysfunction. Olympic Scientific Congress, University of Oregon, Eugene, Oregon, July, 1984.
11. Brunt D. The dynamics of postural control in deaf children with vestibular dysfunction. Second International Australasian Winter Conference on Brain Research, Queenstown, New Zealand, August, 1984.
12. Layne CS Abraham L D and Brunt D. EMG patterns in response to postural perturbations and their interactions with voluntary movement in deaf subjects. Society for Neuroscience Annual Conference, Dallas, Texas, October, 1985.
13. Brunt D and Scarborough NR. Temporal characteristics of ankle flexor and extensor muscle activity during gait in cerebral palsy children. National Conference, American Physical Therapy Association, Chicago, Illinois, June 1986.
14. Brunt D et al. Lower limb muscle activity patterns during transitional and upright posture and postural perturbation in head injured patients. Houston Conference on Neurotrauma, Houston, Texas, February, 1987.
15. Brunt D. Clinical categorization of neurologically impaired subjects. Invited presentation. National Conference, American Alliance of Health, Physical Education, Recreation and Dance, Las Vegas, Nevada, May, 1987.
16. Anderson JC., and Brunt D. EMG response of the leg muscles to lateral postural perturbation: Implications for ankle sprain patients. National Conference, National Athletic Trainers Association, Columbus, Ohio, June, 1987.
17. Anderson JC and Brunt D. EMG Response of lower limb musculature to postural perturbation. National Conference, American Physical Therapy Association, San Antonio, Texas, July, 1987.
18. Summer DR and Brunt D et al. EMG activity and phase characteristics of stroke patients during gait. National Conference, American Physical therapy Association, San Antonio, TX, July, 1987.

19. Brunt D and Sterling J et al. Postural EMG response to lateral ankle rotation.1. Normal and reduced support surface input. National Conference, American College of Sports Medicine, Dallas, TX.,May,1988.
20. Sterling J and Brunt D et al. Postural EMG response to lateral ankle rotation. 11. Compensations by ankle sprain patients. National Conference, American College of Sports Medicine, Dallas, TX., May, 1988.
21. Brunt D and Moore S. The effect of distance , support, and speed on postural adjustments prior to a reaching task from a sitting position. North American Society for the Psychology of Sport and Physical Activity, Kent State University, Kent , Ohio, June 1989.
22. Brunt D Williams J and Rice R. The response of lower limb musculature to self-induced dorsiflexion perturbation during gait. National Conference, American Physical Therapy Association, Nashville, Tennessee, June, 1989.
23. Moore S and Brunt D. Anticipatory postural adjustments for a rapid reaching task from a sitting position. National Conference, American Physical Therapy Association, Nashville, Tennessee, June, 1989.
24. Brunt D Clinical research: Practical suggestions for the clinician. Invited presentation. Combined Sections Meeting, American Physical Therapy Association, New Orleans, Louisiana, February, 1990.
25. Green G and Brunt D et al. The manipulation of sensory input on the balancing ability of 5 to 8 year old normal children. Combined Sections Meeting, American Physical Therapy Assocoation, New Orleans, Louisiana, Februaury, 1990.
26. Brunt D Goode B and Scarborough N. Invariant kinetic and temporal motion characteristics during different speeds of gait initiation. Combined East/West Gait Laboratory Conference, San Diego, California, April, 1990.
27. Hanten W Lucio R Russel J and Brunt D. Relationships of total head excursion and resting head posture. Annual Conference, Texas Physical Therapy Association, San Antonio, Texas, May, 1990.
28. Hanten W Russel J Lucio R and Brunt D. Total head excursion and resting head posture: Normal subjects and patients. Annual Conference, Texas Physical Therapy Association, San Antonio, Texas, May, 1990.
29. Barr LL Brunt D Martin LR. Tank carriers lateral condylitis: A biomechanical model for injury and prevention. 18th Annual Conference of the South Pacific Underwater Medicine Society, Palau, June, 1990.
30. Moore S Brunt D et al. The effect of support, reach speed and distance on anticipatory postural adjustments in seated subjects. National Conference, American Physical Therapy Association, Los Angeles, California, June, 1990.
31. Barr LL Brunt D Martin LR Tank carriers lateral condylitis: Biomechanical investigation of predisposing factors and recommendations for prevention. Undersea and Hyperbaric Medicine Society, Amsterdam, Holland, August, 1990.
32. Moore S and Brunt D. Anticipatory postural adjustments in seated subjects. Society for Neuroscience Annual Conference, St. Louis, Missouri, October, 1990.

33. Brunt D. and Protas ER. Contribution of the swing and stance limb to the kinetics of gait initiation. American College of Sports Medicine Annual Meeting, Orlando, Florida, May, 1991.
34. Hanten WP Russell JL Lucio RM and Brunt D. Total head excursion and resting head posture: Normal and patient population comparisons. National Conference, American Physical Therapy Association, Boston, Massachusetts, June, 1991.
35. Hanten WP Lucio RM Russell JL and Brunt D. Assessment of total head excursion and resting head posture. National Conference, American Physical Therapy Association, Boston, Massachusetts, June, 1991.
36. Moore S and Brunt D. Evidence of postural preparation for voluntary movement in seated subjects. Combined Sections Meeting, American Physical Therapy Association, San Francisco, California, February, 1992.
37. Protas E Hasson S Brunt D. Research training in physical therapy. National Conference, American Physical Therapy Association, Denver, Colorado, June, 1992.
38. Brunt D and Robichaud J . Effect of circumferential pressure on premotor reaction and response time during ballistic extension of the foot in healthy subjects. State Conference, Florida Physical Therapy Association, Orlando, Florida, September, 1992
39. McCulloch MU and Brunt D. The effects of orthotics and gait velocity on the joint kinematics and temporal events of stance. Sponsored presentation, Sports Physical Therapy Section Team Concepts Meeting, Newport Beach, California, December, 1992.
40. Vander Linden DW Brunt D and Behrman AL. Weight-bearing asymmetries during sit-to-stand with hemiplegia from cerebral vascular accident. Combined Sections Meeting, American Physical Therapy Association, San Antonio, Texas, February, 1993.
41. Robichaud J Brunt D. Effects of circumferential pressure on components of reaction times during ballistic extension of the foot in healthy subjects. National Conference, American Physical Therapy Association, Cincinnati, Ohio, June, 1993.
42. Brunt D, Creel G, Stefans L, Thigpen M. A model for infusing relevant components of vocational rehabilitation into the physical therapy curriculum. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February, 1994.
43. Behrman AL, Brunt D, Vander Linden DW. Retraining dynamic weight-bearing in adults with hemiplegia: Case studies of summary versus concurrent knowledge of results. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February, 1994.
44. Brunt D, Robichaud JA. Relationship between motoneuron pool excitability and timing and force parameters during ballistic ankle extension. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February, 1994.
45. Brunt D, Vander Linden D, Behrman AL. The relationship between limb loading, ground reaction forces, and EMG activity during gait initiation in stroke patients. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February, 1994.
46. Gilliam J, Brunt D, MacMillan M, Kinard RE, Montgomery, WJ. Relationship of the pelvic angle to the sacral angle: Measurement of clinical reliability and validity. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February, 1994.

47. Robichaud J, Brunt D. The effect of pressure on spinal excitability and timing and force parameters during ballistic ankle extension. North American Society for the Psychology of Sport and Physical Activity, Clearwater, Florida, June, 1994.
48. Brunt D, Robichaud J, Anan R. The effect of pressure on spinal cord excitability and parameters of gait initiation. International Society of Electrophysiological Kinesiology, Charleston, South Carolina, June, 1994.
49. Brunt D, Robichaud J. Representation of spinal cord excitability prior to a ballistic movement. Society for Neuroscience, Miami, Florida, November, 1994.
50. Saracino D, Brunt D, Light K. The effect of limb loading and target position on anticipatory postural adjustments. American Physical Therapy Association Combined Sections Meeting, Reno, Nevada, February, 1995.
51. Brunt D, Kellogg RM, Robichaud JA, Cauraugh JH. Use of pulsed magnetic stimulation as an alternative to conventional electrical stimulation in H-reflex studies. North American Society for the Psychology of Sport and Physical Activity, Asilomar, California, June, 1996.
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