

**NEUROLOGY SECTION  
RESOURCE LIST  
2011 UPDATE**

This resource list reflects current literature in the field of Neurologic Physical Therapy practice and is provided for your information through the courtesy of current Neurologic Clinical Specialists. Its content covers key areas outlined in the Description of Specialty Practice—Neurologic Physical Therapy. Neither the American Board of Physical Therapy Specialties, nor the Neurologic Specialty Council has reviewed or endorsed the content of this list. In addition, reviewing these resources does not guarantee that a candidate will receive a passing score on the specialist certification examination.

Electronic links to the full text journal article or its abstract are offered below, if available. Access to the full text of some articles may be limited to Neurology Section members.

Additional resources are available through *Physical Therapy: The Journal of the American Physical Therapy Association*, which can be accessed at [www.ptjournal.org](http://www.ptjournal.org) and through the *Journal of Neurologic Physical Therapy*, available at [www.jnpt.org](http://www.jnpt.org). APTA members may also access Medline, CINAHL, and numerous other resources through *Open Door: APTA's Portal to Evidence-Based Practice*, available at [www.apta.org/opendoor](http://www.apta.org/opendoor).

**KNOWLEDGE AREAS**

**FOUNDATION SCIENCES**

- **ANATOMY/NEUROANATOMY**
- **PHYSIOLOGY/NEUROPHYSIOLOGY**
- **MOVEMENT SCIENCE**
- **PHYSICS**

Blumenfeld H. Neuroanatomy through Clinical Cases--Second Edition. Sunderland, MA: Sinauer Associates, Inc , 2010.

Goldberg, Stephen. Clinical Neuroanatomy Made Ridiculously Simple (4th ed)—Interactive Edition. Miami:, Florida: MedMaster, 2010.

Simon RP, Greenberg DA, Aminoff MJ, eds. *Clinical Neurology*—7<sup>th</sup> Edition. McGraw Hill Co, Inc., 2009.

Haines DE. Fundamental Neuroscience for Basic and Clinical Applications (3<sup>rd</sup> ed). Philadelphia: Churchill Livingstone, 2006.

Lundy-Ekman L. Neuroscience Fundamentals for Rehabilitation (3rd ed). Philadelphia: W.B. Saunders Company, 2007.

Fisher BE, Sullivan KJ. Activity-dependent factors affecting poststroke functional outcomes. *Topics in stroke rehabilitation* 2001;8(3):31-44  
<http://thomasland.metapress.com/content/b3jdnml4v1fb5yhq/fulltext.pdf>

Jones TA, Kleim JA. Principles of Experience-Dependent Neural Plasticity: Implications for Rehabilitation After Brain Damage. *Journal of Speech, Language, and Hearing Research* 2008; 51: S225–S239.

<http://www.jsmf.org/meetings/2008/may/Kleim%20&%20Jones%202008.pdf>

Levin MF, Kleim JA, Wolf SL. What do motor "recovery" and "compensation" mean in patients following stroke? *Neurorehabil Neural Repair*. 2009;23:313-319.

<http://nnr.sagepub.com/content/23/4/313.abstract>

Morton SM, Bastian AJ. Cerebellar Control of Balance and Locomotion *Neuroscientist* 2004;10: 247-259.

<http://www.ncbi.nlm.nih.gov/pubmed/15155063>

Robinson AJ, Snyder-Mackler L. *Clinical Electrophysiology—Electrotherapy and Electrophysiologic Testing*. 3<sup>rd</sup> edition. Philadelphia, PA : Wolters Kluwer Health/ Lippincott Williams & Wilkins, 2008

Schmidt RA, Wrisberg CA. *Motor Learning and Performance—A Situation-Based Learning Approach*, 4<sup>th</sup> edition. Human Kinetics, 2008.

## **BEHAVIORAL SCIENCES**

- **PSYCHOLOGY/NEUROPSYCHOLOGY**
- **TEACHING AND LEARNING THEORY**
- **COMMUNICATION**
- **DECISION MAKING**

Atkinson HL, Nixon-Cave K. A tool for clinical reasoning and reflection using the *International Classification of Functioning, Disability and Health* (ICF) framework and patient management model. *Phys Ther*. 2011;91:416–430. <http://ptjournal.apta.org/content/91/3/416.abstract>

Barlow J. Self-efficacy in the context of rehabilitation. *International Encyclopedia of Rehabilitation*. Center for International Rehabilitation Research Information and Exchange (CIRRIE); 2010.

[http://cirrie.buffalo.edu/encyclopedia/pdf/en/self\\_efficacy\\_in\\_the\\_context\\_of\\_rehabilitation.pdf](http://cirrie.buffalo.edu/encyclopedia/pdf/en/self_efficacy_in_the_context_of_rehabilitation.pdf)

Bastable S, Gramet P, Jacobs K, Sopczyk D. *Health Professional as Educator: Principles of Teaching and Learning*. Sudbury MA ; Jones & Bartlett Learning, 2011

Dixon G, Thornton EW, Young CA. Perceptions of self-efficacy and rehabilitation among neurologically disabled adults. *Clin Rehabil* 2007 21: 230-240.

<http://www.ncbi.nlm.nih.gov/pubmed/17329280>

Hanna-Pladdy B. Dysexecutive syndromes in neurologic disease. *J Neurol Phys Ther* 2007;31:119-127.

[http://journals.lww.com/jnpt/Fulltext/2007/09000/Dysexecutive\\_Syndromes\\_in\\_Neurologic\\_Disease.5.aspx](http://journals.lww.com/jnpt/Fulltext/2007/09000/Dysexecutive_Syndromes_in_Neurologic_Disease.5.aspx)

Plack M, Driscoll M (eds). Teaching and Learning in Physical Therapy: From Classroom to Clinic. Thorofare, NJ: Slack, Inc, 2011

Rothstein JM, Echtertnach JL, and Riddle DL. The Hypothesis-Oriented Algorithm for Clinicians II (HOAC II): A Guide for Patient Management. PhysTher 2003;83:455-470  
<http://ptjournal.apta.org/content/83/5/455.full.pdf+html>

Schenkman M, Deutsch JE, Gill-Body KM. An integrated framework for decision making in neurologic physical therapist practice. Phys Ther. 2006;86:1681-1702.  
<http://ptjournal.apta.org/content/86/12/1681.full.pdf+html>

Shepard KF and Jensen GM. Handbook of Teaching for Physical Therapists. Edition 2. Elsevier Health Sciences, 2002.

### **CLINICAL SCIENCES:**

- **KINESIOLOGY**
- **PATHOKINESIOLOGY**
- **PATHOLOGY**
- **PHARMACOLOGY**
- **MOTOR DEVELOPMENT**
- **PSYCHIATRY**
- **EPIDEMIOLOGY**

Gladson B. Pharmacology for Physical Therapists. St. Louis, MO: Saunders Elsevier, 2006.

Goodman CC, Fuller KS. Pathology: Implications for the Physical Therapist (3<sup>rd</sup> ed). Philadelphia PA: Saunders, 2009.

Goodman CC, Snyder TK. Differential Diagnosis for Physical Therapists: Screening for Referral—4<sup>th</sup> edition. St. Louis, MO:Saunders, 2007.

Haynes RB, Sackett DL, Guyatt et al. Clinical Epidemiology: How to Do Clinical Practice Research. 3<sup>rd</sup> edition. Philadelphia , PA: Lippincott Williams & Wilkins, 2006.

Neumann DA. Kinesiology of the Musculoskeletal System: Foundations for Rehabilitation. 2<sup>nd</sup> edition. St. Louis, MO: Mosby Elsevier, 2010.

Schmidt RA, Lee TD. Motor Control and Learning: A Behavioral Emphasis (4<sup>th</sup> ed). Champaign, Illinois: Human Kinetics, 2005.

Shumway-Cook A, Woollacott MH. Translating Research into Clinical Practice. 4<sup>th</sup> edition. Baltimore, MD; Lippincott Williams &Wilkins, 2011.

## **SCIENCES RELATED TO CRITICAL INQUIRY**

- **RESEARCH DESIGN**
- **STATISTICS**

Katz DL. Clinical Epidemiology & Evidence-Based Medicine. Thousand Oaks, CA: Sage Publications, 2001.

Portney LG and Watkins MP. Foundations of Clinical Research: Applications to Practice (3rd ed). Saddle River, NJ: Pearson & Prentice Hall, 2008.

## **PRACTICE EXPECTATIONS**

### **PROFESSIONAL ROLES, RESPONSIBILITIES AND VALUES**

- **LEADERSHIP**
- **VIRTUOUS BEHAVIOR**
- **EDUCATION**
- **CONSULTATION**
- **EVIDENCE-BASED PRACTICE**

American Physical Therapy Association. Code of Ethics for the Physical Therapist  
[http://www.apta.org/uploadedFiles/APTAorg/About\\_Us/Policies/HOD/Ethics/CodeofEthics.pdf](http://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/HOD/Ethics/CodeofEthics.pdf)

American Physical Therapy Association: Alexandria, VA, 2005:

Ethics in Physical Therapy Part 1: Overview.

Ethics in Physical Therapy Part 2: The Patient and Society.

Available for purchase through the APTA store:

[http://iweb.apta.org/purchase/ProductDetail.aspx?Product\\_code=KIT-ETHICS&LI=0](http://iweb.apta.org/purchase/ProductDetail.aspx?Product_code=KIT-ETHICS&LI=0)

American Physical Therapy Association. Guide to Physical Therapist Practice (2<sup>nd</sup> ed).  
Alexandria, VA: American Physical Therapy Association, 2001.

American Physical Therapy Association. Professionalism in Physical Therapy: Core Values.

[http://www.apta.org/uploadedFiles/APTAorg/About\\_Us/Policies/BOD/Judicial/Professionalism\\_in\\_PT.pdf](http://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/BOD/Judicial/Professionalism_in_PT.pdf)

Jensen GM, Gwyer J, Shepard KF, Hack LM. Expert practice in physical therapy. Phys Ther. 2000;80:28-43.

<http://ptjournal.apta.org/content/80/1/28.full.pdf+html>

Jensen GM, Gwyer JM, Hack LM, Shepard KF. Expertise in Physical Therapy Practice (2<sup>nd</sup> ed). Philadelphia: W.B. Saunders Company, 2006.

Moulton CE, Regehr G, Mylopoulos, et al. Slowing down when you should: a new model of expert judgment. Acad Med 2007;82(10): S109-S116.

<http://journals.lww.com/academicmedicine/pages/articleviewer.aspx?year=2007&issue=10001&article=00029&type=abstract>

Niemeier JP, Burnett DM, Whitaker DA. Cultural competence in the multidisciplinary rehabilitation setting: are we falling short of meeting needs? *Arch Phys Med Rehabil* 2003;84:1240-5. <http://download.journals.elsevierhealth.com/pdfs/journals/0003-9993/PIIS0003999303002958.pdf>

Wainwright SF, Shepard KF, Harman LB, Stephens J. Factors that influence the clinical decision making of novice and experienced physical therapists. *Phys Ther* 2011;91:87–101 <http://ptjournal.apta.org/content/91/1/87.abstract>

Wainwright SF, Shepard KF, Harman LB, Stephens J. Novice and experienced physical therapist clinicians: a comparison of how reflection is used to inform the clinical decision-making process. *Phys Ther*. 2010;90:75–88. <http://physicaltherapyjournal.com/content/90/1/75.full.pdf+html>

### **Evidence-Based Practice:**

Fritz JM, Wainner RS. Examining diagnostic tests: an evidence-based perspective. *Phys Ther*. 2001;81:1546 –1564 <http://ptjournal.apta.org/content/81/9/1546.full.pdf+html>

Beattie PF, Nelson RM. Evaluating research studies that address prognosis for patients receiving physical therapy care: a clinical update. *Phys Ther*. 2007;87:1527–1535 <http://www.physther.org/content/87/11/1527.full.pdf+html>

Fell DW, Burnham JF. Access is key: teaching students and physical therapists to access evidence, expert opinion, and patient values for evidence-based practice. *J Phys Ther Educ* 2004; 18(3):12-23

- APTA members may access journal at <http://www.apta.org/OpenDoor/>

Jewell, D. *Guide to Evidence-Based Physical Therapy Practice*. 2<sup>nd</sup> edition. Sudbury MA, Jones & Bartlett Learning, 2011.

Slavin MD. Teaching evidence-based practice in physical therapy: critical competencies and necessary conditions. *J Phys Ther Educ* 2004;18(3): 4-11

- APTA members may access journal at <http://www.apta.org/OpenDoor/>

Straus SE, Richardson WS, et al. *Evidence Based Medicine: How to Practice and Teach EBM*, 3<sup>rd</sup> ed. Churchill Livingstone, Edinburgh, UK, 2005.

Tilson JK, Settle SM, Sullivan KJ. Application of Evidence-Based Practice Strategies: Current Trends in Walking Recovery Interventions Poststroke. *Top Stroke Rehabil* 2008;15(3):227–246. <http://thomasland.metapress.com/content/v6r8532512663016/fulltext.pdf>

### **EBP Websites:**

Centre for Evidence-Based Medicine, University of Oxford, United Kingdom. <http://www.cebm.net/>

Introduction to Evidence-Based Practice. Fifth Edition. Duke University Medical Center Library and Health Sciences Library, UNC-Chapel Hill, 2010. [www.hsl.unc.edu/services/tutorials/ebm/index.htm](http://www.hsl.unc.edu/services/tutorials/ebm/index.htm)

## **PATIENT/CLIENT MANAGEMENT**

- **EXAMINATION**
- **EVALUATION**
- **DIAGNOSIS**
- **PROGNOSIS**
- **INTERVENTION**
- **OUTCOMES**

### **OVERVIEW: PATIENT / CLIENT MANAGEMENT**

American Physical Therapy Association. Topics in Physical Therapy: Neurology  
Alexandria, VA: American Physical Therapy Association, 2002.

Campbell SK, Palisano RJ, Orlin M. Physical Therapy for Children (4<sup>th</sup> ed). St. Louis, MO: Elsevier Saunders, 2012.

O'Sullivan SB and Schmitz TJ. Physical Rehabilitation: Assessment and Treatment (5<sup>th</sup> ed). Philadelphia: F.A. Davis, 2007.

Umphred DA. Neurological Rehabilitation (5TH ed). St. Louis: Mosby, 2006.

### **EXAMINATION**

Gentile AM. Skill acquisition: action, movement and neuromotor processes. In: Carr JH, Sheperd RB, eds. Movement Science: Foundations for Physical Therapy in Rehabilitation, 2<sup>nd</sup> ed. Gaithersburg, MD: Aspen Publishers, Inc; 2000:111-187.

Hedman LD, Rogers MW, Hanke TA. Neurologic professional education: linking the foundation science of motor control with physical therapy interventions for movement dysfunction  
Neurology Report. 1996;20:9-13.

[http://journals.lww.com/jnpt/Citation/1996/20010/Neurologic\\_Professional\\_Education\\_Linkin\\_t he.11.aspx](http://journals.lww.com/jnpt/Citation/1996/20010/Neurologic_Professional_Education_Linkin_t he.11.aspx)

Lang F, Floyd MR, Beine KL. Clues to patients' explanations and concerns about their illnesses. Arch Fam Med 2000; 9:222-227

[http://www.drmed.org/javne\\_datoteke/novice/datoteke/312-reading6cCluesctopatientscexplanationscconcernscaboutchillness1.pdf](http://www.drmed.org/javne_datoteke/novice/datoteke/312-reading6cCluesctopatientscexplanationscconcernscaboutchillness1.pdf)

Sullivan KJ, Hershberg J, Howard, R, Fisher BE. Neurologic differential diagnosis for physical therapy. J Neurol PT 2004;28(4):162-168

[http://journals.lww.com/jnpt/Fulltext/2004/12000/Neurologic\\_Differential\\_Diagnosis\\_for\\_Physical\\_3.aspx](http://journals.lww.com/jnpt/Fulltext/2004/12000/Neurologic_Differential_Diagnosis_for_Physical_3.aspx)

## **LOWER MOTOR NEURON DISORDERS**

Bassile, CC. Guillain-Barre syndrome and exercise guidelines. Neurology Report. 1996;20:31-36.

[http://journals.lww.com/jnpt/Citation/1996/20020/Guillain\\_Barre\\_Syndrome\\_and\\_Exercise\\_Guidelines.17.aspx](http://journals.lww.com/jnpt/Citation/1996/20020/Guillain_Barre_Syndrome_and_Exercise_Guidelines.17.aspx)

Cup EH, Pieterse AJ, ten Broek-Pastoor JM, et al. Exercise therapy and other types of physical therapy for patients with neuromuscular diseases: a systematic review. Arch Phys Med Rehabil 2007;88:1452-64.

<http://www.archives-pmr.org/article/S0003-9993%2807%2901451-7/abstract>

Fisher TB; Stevens JE. Rehabilitation of a Marathon Runner with Guillain-Barre Syndrome. J Neurol PhysTher 2008; 32(4):203-209.

[http://journals.lww.com/jnpt/Fulltext/2008/12000/Rehabilitation\\_of\\_a\\_Marathon\\_Runner\\_with.8.aspx](http://journals.lww.com/jnpt/Fulltext/2008/12000/Rehabilitation_of_a_Marathon_Runner_with.8.aspx)

Foster EC, Mulroy, SJ. Muscle Belly Tenderness, Functional Mobility, and Length of Hospital Stay in the Acute Rehabilitation of Individuals with Guillain Barre Syndrome J Neurol PhysTher 2004; 28(4):154-160.

[http://journals.lww.com/jnpt/Fulltext/2004/12000/Muscle\\_Belly\\_Tenderness\\_Functional\\_Mobility\\_and.2.aspx](http://journals.lww.com/jnpt/Fulltext/2004/12000/Muscle_Belly_Tenderness_Functional_Mobility_and.2.aspx)

Gupta A, Taly AB, Srivastava A, et al. Guillain-Barre syndrome—rehabilitation outcome, residual deficits and requirement of lower limb orthosis for locomotion at 1 year follow-up. Disability and Rehabil 2010;32(23):1897-1902.

<http://informahealthcare.com/doi/abs/10.3109/09638281003734474>

Khan F, Ng L. Guillain Barre' syndrome: An update in rehabilitation. Int J Therapy and Rehabil. 2009;16(8): 451-460 .

[http://www.ijtr.co.uk/cgi-bin/go.pl/library/article.cgi?uid=43483;article=IJTR\\_16\\_8\\_451\\_460](http://www.ijtr.co.uk/cgi-bin/go.pl/library/article.cgi?uid=43483;article=IJTR_16_8_451_460)

Khan F. Rehabilitation in Guillain Barre syndrome. Australian Family Physician 2004;33(12):1013-1017.

<http://www.racgp.org.au/afp/200412/20041128khan.pdf>

Khan F, Stevermuer, Simmonds F. Rehabilitation for Guillain Barre syndrome: Analysis of the Australian rehabilitation outcomes dataset. J Clin Medicine and Research 2010; 2(6):91-97.

<http://www.academicjournals.org/jcmr/PDF/PDF2010/June/Khan%20et%20al.pdf>

Manzur AY, Kinali M, Muntoni F. Update on the management of Duchenne muscular dystrophy. Arch Dis Child 2008 93: 986-990

[http://www.assobrafir.com.br/imagens\\_up/artigos/update20DMD.pdf](http://www.assobrafir.com.br/imagens_up/artigos/update20DMD.pdf)

## **DEGENERATIVE DISEASES**

### **Amyotrophic Lateral Sclerosis**

Dal Bello- Haas V, Kloos AD, Mitsumoto H. Physical therapy for a patient through six stages of amyotrophic lateral sclerosis. *Phys Ther* 1998; 78: 1312-1323.

<http://ptjournal.apta.org/content/78/12/1312.full.pdf+html>

Lui AJ, Byl NN. A systematic review of the effect of moderate intensity exercise on function and disease progression in amyotrophic lateral sclerosis. *JNPT* 2009; 33: 68-87.

[http://journals.lww.com/jnpt/Fulltext/2009/06000/A\\_Systematic\\_Review\\_of\\_the\\_Effect\\_of\\_Moderate.2.aspx](http://journals.lww.com/jnpt/Fulltext/2009/06000/A_Systematic_Review_of_the_Effect_of_Moderate.2.aspx)

Miller RG, Jackson CE, Kasarskis EJ, et al. Practice parameter update: the care of the patient with amyotrophic lateral sclerosis: drug, nutritional, and respiratory therapies (an evidence-based review). *Neurology* 2009; 73: 1218-1226.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2764727/pdf/6980.pdf>

Miller RG, Jackson CE, Kasarskis EJ, et al. Practice parameter update: the care of the patient with amyotrophic lateral sclerosis: multidisciplinary care, symptom management, and cognitive/behavioral impairment (an evidence-based review). *Neurology* 2009; 73: 1227-1233.

<http://www.siumed.edu/neuro/AAA2010/documents/371.pdf>

Olsson Ozanne AG, Strang S, Persson LI. Quality of life, anxiety and depression in ALS patients and their next of kin. *J Clin Nurs*. 2011;20(1-2):283-91.

<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2702.2010.03509.x/pdf>

### **Huntington's Disease**

Bilney B, Morris ME, Perry A. Effectiveness of physiotherapy, occupational therapy and speech pathology for people with Huntington's disease: a systematic review. *Neurorehabil Neural Repair* 2003;17(1):12-24.

<http://nnr.sagepub.com/cgi/content/abstract/17/1/12>

Busse ME, Khalil H, Quinn L, et al. Physical therapy intervention for people with Huntington disease. *Phys Ther* 2008;88:820–831.

<http://ptjournal.apta.org/content/88/7/820.full.pdf+html?sid=c2ce3481-9074-43be-bff5-db1a557b7441>

European Huntington's Disease Network Physiotherapy Working Group. Physiotherapy Guidance Document.

<http://www.huntingtonswa.org.au/resources/physiotherapy-guidance-doc-2009.pdf>

Quinn L, Rao AK. Physical therapy for people with Huntington disease: current perspectives and case report. *Neurology Report* 2002; 3: 145-153.

[http://journals.lww.com/jnpt/Abstract/2002/26030/Physical\\_Therapy\\_for\\_People\\_with\\_Huntington.6.aspx](http://journals.lww.com/jnpt/Abstract/2002/26030/Physical_Therapy_for_People_with_Huntington.6.aspx)



## **Parkinson's Disease**

Ashburn A, Fazakarley L, Ballinger C, et al. A randomised controlled trial of a home based exercise programme to reduce risk of falling among people with Parkinson's disease. *J Neurol Neurosurg Psychiatry* 2007;78:678-684.

[http://www.google.com/url?sa=t&rct=j&q=ashburn%20home%20based%20exercise%20program&source=web&cd=2&ved=0CDkQFjAB&url=https%3A%2F%2Fwww.cebp.nl%2Fvault\\_public%2Ffilesystem%2F%3FID%3D2997&ei=cd-qTsaSNcr50gHPsvWnDw&usq=AFQjCNGAyfKYkauqr68kmxOvYE2HZB0HZQ&cad=rja](http://www.google.com/url?sa=t&rct=j&q=ashburn%20home%20based%20exercise%20program&source=web&cd=2&ved=0CDkQFjAB&url=https%3A%2F%2Fwww.cebp.nl%2Fvault_public%2Ffilesystem%2F%3FID%3D2997&ei=cd-qTsaSNcr50gHPsvWnDw&usq=AFQjCNGAyfKYkauqr68kmxOvYE2HZB0HZQ&cad=rja)

Bello-Haas VD. A framework for rehabilitation for neurodegenerative disease: managing progression and maximizing quality of life. *Neurology Report*. 2002;26:115-129.

[http://journals.lww.com/jnpt/Abstract/2002/26030/A\\_Framework\\_for\\_Rehabilitation\\_of.3.aspx](http://journals.lww.com/jnpt/Abstract/2002/26030/A_Framework_for_Rehabilitation_of.3.aspx)

Dibble LE, Addison O, Papa E. The effects of exercise on balance in persons with Parkinson's disease: a systematic review across the disability spectrum. *J Neurol Phys Ther* 2009; 33(1):14-26.

[http://journals.lww.com/jnpt/Fulltext/2009/03000/The\\_Effects\\_of\\_Exercise\\_on\\_Balance\\_in\\_Persons\\_with.3.aspx](http://journals.lww.com/jnpt/Fulltext/2009/03000/The_Effects_of_Exercise_on_Balance_in_Persons_with.3.aspx)

Dibble LE, Christensen J, Ballard DJ, et al. Diagnosis of fall risk in Parkinson disease: an analysis of individual and collective clinical balance test interpretation. *Phys Ther* 2008;88:323-332.

<http://www.physicaltherapyjournal.com/content/88/3/323.full.pdf+html>

Dibble LE, Hale TF, Marcus RL, et al. High-intensity resistance training amplifies muscle hypertrophy and functional gains in persons with Parkinson's disease. *Mov Disord* 2006;21:1444-1452.

<http://www.ncbi.nlm.nih.gov/pubmed/16773643>

Ellis T, Katz DI, White DK, et al. Effectiveness of an inpatient multidisciplinary rehabilitation program for people with Parkinson disease. *Phys Ther*. 2008;88:812–819.]

<http://ptjournal.apta.org/content/88/7/812.full.pdf+html?sid=f3519697-89e3-4c6e-9c18-e291ed5412ad>

Falvo MJ, Schilling BK, Earhart GM. Parkinson's disease and resistive exercise: rationale, review, and recommendations. *Movement disord*. 2008;23(1):1-11.

<http://onlinelibrary.wiley.com/doi/10.1002/mds.21690/pdf>

Farley BG, Fox CM, Ramig LO, McFarland D. Intensive amplitude-specific therapeutic approaches for Parkinson disease: Toward a neuroplasticity-principles rehabilitation model. *Top Geriatr Rehabil* 2008; 24: 99-114.

[http://www.texasvoiceproject.org/Intensive\\_amplitude-basedtherapies\\_Farley\\_2008.pdf](http://www.texasvoiceproject.org/Intensive_amplitude-basedtherapies_Farley_2008.pdf)

Goodwin VA, Richards SH, Taylor RS, Taylor AH, Campbell JL. The effectiveness of exercise interventions for people with Parkinson's disease: a systematic review and meta-analysis. *Mov Disord* 2008; 23 (5): 631-640.

<http://onlinelibrary.wiley.com/doi/10.1002/mds.21922/pdf>

Hirsch MA, Farley BG. Exercise and neuroplasticity in persons living with Parkinson's disease. *Eur J Phys Rehabil Med* 2009;45:215-29.  
<http://www.minervamedica.it/en/getfreepdf/hnRINyqho9Sle0%252BxvqtW8C2SkGWYdaqwpVDPfi74vgNLH3WeTTRhowvASnaplbJ%252FtbwhOVXwvtBzMfbNuprErA%253D%253D/R33Y2009N02A0215.pdf>

Keus SHJ, Bloem BR, Hendriks EJM; et al. Evidence-based analysis of physical therapy in Parkinson's disease with recommendations for practice and research. *Mov Disord* 2007;22: 451 – 460.  
<http://www.marianjoylibrary.org/Residency/Keyref/documents/Ref16.pdf>

Keus SHJ, Munneke M, Mijkrate MJ et al. Physical therapy in Parkinson's disease: evolution and future challenges. *Movement disord.* 2009;24(1):1-14.  
<http://onlinelibrary.wiley.com/doi/10.1002/mds.22141/pdf>

King LA, Horak FB. Delaying mobility disability in people with Parkinson disease using a sensorimotor agility exercise program. *Phys Ther* 2009; 89 (4):384-393.  
<http://ptjournal.apta.org/content/89/4/384.full.pdf+html?sid=f3519697-89e3-4c6e-9c18-e291ed5412ad>

Morris ME. Locomotor training in people with parkinson disease. *Physical Therapy* 2006;86:1426-1435.  
<http://www.ptjournal.org/cgi/reprint/86/10/1426>

Morris ME, Martin CL, Schenkman ML. Striding out with Parkinson disease: evidence-based physical therapy for gait disorders. *Phys Ther.* 2010;90(2).  
<http://ptjournal.apta.org/content/90/2/280.full.pdf+html>

Steffen T, Seney M. Test-retest reliability and minimal detectable change on balance and ambulation tests, the 36-item short form health survey, and the unified Parkinson disease rating scale in people with Parkinsonism. *Phys Ther* 2008;88(6):733-746.  
<http://ptjournal.apta.org/content/88/6/733.full.pdf+html>

## **MULTIPLE SCLEROSIS**

Andreassen AK, Stenager E, Dalgas U. The effect of exercise therapy on fatigue in multiple sclerosis. *Multiple Sclerosis Journal* 2011;17(9):1041-1054.  
<http://www.ncbi.nlm.nih.gov/pubmed?term=andreassen%20ak%20effect%20of%20exercise%20on%20fatigue>

Asano M, Dawes DJ, Arafah A, Moriello C, Mayo NE. What does a structured review of the effectiveness of exercise interventions for persons with multiple sclerosis tell us about the challenges of designing trials? *Mult Scler* 2009; 15 (4): 412-421.  
<http://www.ncbi.nlm.nih.gov/pubmed?term=Asano%20M%2C%20structured%20review%20of%20exercise%20effectiveness>

Collett J, Dawes H, Meaney A et al. Exercise for multiple sclerosis: a single-blind randomized trial comparing three exercise intensities. *Multiple Sclerosis Journal* 2010;17(5): 594-603.  
<http://www.ncbi.nlm.nih.gov/pubmed?term=Collett%20exercise%20MS>

Dalgas U, Stenager E, Ingemann-Hansen T. Multiple Sclerosis and physical exercise: recommendations for the application of resistance-, endurance-, and combined training. Multiple Sclerosis 2008; 14:35-53.

<http://ms-society.ie/uploads/File/dalgas%202008%20%282%29.pdf>

Freeman JA, Gear M, Pauli A, et al. The effect of core stability training on balance and mobility in ambulant individuals with multiple sclerosis: a multi-centre series of single case studies. Mult Scler 2010; 16 (11): 1377-1384.

<http://www.ncbi.nlm.nih.gov/pubmed/20699285>

Fry DK, Pfalzer LA, Chokshi AR, Wagner MT, Jackson ES. Randomized control trial of effects of a 10-week inspiratory muscle training program on measures of pulmonary function in persons with multiple sclerosis. J Neurol Phys Ther 2007; 31 (4): 162-172.

[http://journals.lww.com/jnpt/Fulltext/2007/12000/Randomized\\_Control\\_Trial\\_of\\_Effects\\_of\\_a\\_10\\_Week.2.aspx](http://journals.lww.com/jnpt/Fulltext/2007/12000/Randomized_Control_Trial_of_Effects_of_a_10_Week.2.aspx)

Gutierrez GM, Chow JW, Tillman MD, McCoy SC, Castellano V, White LJ. Resistance training improves gait kinematics in persons with multiple sclerosis. Archives of Physical Medicine and Rehabilitation. 2005 Sep; 86(9): 1824-9.

<http://steinhardt.nyu.edu/scmsAdmin/uploads/002/606/Gutierrez%20et%20al.,%202005%20APMR.pdf>

Haselkorn JK, Loomis S. Multiple sclerosis and spasticity. Phys Med Rehabil Clin N Am. 2005; 16(2):467-81.

<http://www.ncbi.nlm.nih.gov/pubmed/15893682>

Haselkorn JK, Balsdon Richer C, Fry Welch D, Herndon RM, Johnson B, Little JW, Miller JR, Rosenberg JH, Seidle ME. Overview of spasticity management in multiple sclerosis. Evidence-based management strategies for spasticity treatment in multiple sclerosis. J Spinal Cord Med 2005; 28 (2): 167-199.

[http://www.ms-care.org/cmssc/images/pdf/spasticityguidelines\\_2005.pdf](http://www.ms-care.org/cmssc/images/pdf/spasticityguidelines_2005.pdf)

Mostert S and Kesselring J. Effects of a short term exercise training program on aerobic fitness, fatigue, health perception and activity level of subjects with multiple sclerosis. Multiple Sclerosis 2002;8:161-168.

<http://msj.sagepub.com/content/8/2/161.abstract>

Robert W Motl RW, Goldman MD, Benedict RHB. Walking impairment in patients with multiple sclerosis: exercise training as a treatment option. Neuropsychiatric Disease and Treatment, 2010;6(1):767 – 774

[http://www.dovepress.com/articles.php?article\\_id=5658](http://www.dovepress.com/articles.php?article_id=5658)

Motl RW, Gosney JL. Effect of exercise training on quality of life in multiple sclerosis: a meta-analysis. Multiple Sclerosis 2008;14(1):129-135

<http://www.ncbi.nlm.nih.gov/pubmed/17881388>

Navipour H, Madani H, Mohebbi MR, Navipour R, Roozbayani P, Paydar A. Symptom change with exercise is a temporary phenomenon for people with multiple sclerosis. Arch Phys Med Rehabil. 2006 May;87(5):723-7.  
<http://download.journals.elsevierhealth.com/pdfs/journals/0003-9993/PIIS0003999306000980.pdf>

Vukusic S and Confavreux C. Prognostic factors for progression of disability in the secondary progressive phase of multiple sclerosis. Journal of the Neurological Sciences 2006;203:135-137.  
<http://download.journals.elsevierhealth.com/pdfs/journals/0022-510X/PIIS0022510X02004264.pdf>

## **SPINAL CORD INJURY**

Behrman AL, Harkema SJ. Physical rehabilitation as an agent for recovery after spinal cord injury. Phys Med Rehabil Clin N Am 2007;18: 183–202  
[http://www.followscience.com/library\\_uploads/d4bbf0a8f76fc90ed69596a55ea99a45/353/physical\\_rehabilitation\\_as\\_an\\_agent\\_for\\_recovery\\_after\\_spinal\\_cord\\_injury.pdf](http://www.followscience.com/library_uploads/d4bbf0a8f76fc90ed69596a55ea99a45/353/physical_rehabilitation_as_an_agent_for_recovery_after_spinal_cord_injury.pdf)

Behrman AL, Lawless-Dixon AR, Davis SB, et al. Locomotor training progression and outcomes after incomplete spinal cord injury. Phys Ther 2005;85:1356-1371.  
<http://www.physicaltherapyjournal.com/content/85/12/1356.full.pdf+html>

Brown R, DiMarco AF, Hoit JD, et al. Respiratory dysfunction and management in spinal cord injury. Respiratory Care 2006;51(8):853-870.  
<http://www.rcjournal.com/contents/08.06/08.06.0853.pdf>

Elbasiouny SM, Moroz D, Bakr MM, et al. Management of Spasticity After Spinal Cord Injury: Current Techniques and Future Directions. Neurorehabil Neural Repair. 2010 January ; 24(1): 23–33.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2860542/pdf/nihms-193066.pdf>

Gater DR, Dolbow D, Tsui B et al. Functional electrical stimulation therapies after spinal cord injury. NeuroRehabilitation 2011;28:231-248.  
<http://iospress.metapress.com/content/4457214817426t51/fulltext.pdf>

Kilkens OJE, Post MWM, Dallmeijer AJ, et al. Relationship between manual wheelchair skill performance and participation of persons with spinal cord injuries 1 year after discharge from inpatient rehabilitation. J Rehabil Res & Dev 2005;42(3):65-74.  
<http://www.rehab.research.va.gov/jour/05/42/3suppl1/pdf/kilkens.pdf>

Lynskey JV, Belanger A, Jung R. Activity-dependent plasticity in spinal cord injury. J Rehabil Res Dev 2008;45(2);229-240.  
<http://www.rehab.research.va.gov/jour/08/45/2/pdf/lynskey.pdf>

McKinley W, Santos K, Meade M, et al. Incidence and outcomes of spinal cord injury clinical syndromes. J Spinal Cord Med. 2007;30:215–224  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2031952/pdf/i1079-0268-30-3-215.pdf>

Mulroy SJ, Thompson L, Kemp B et al. Strengthening and optimal movements for painful shoulders (STOMPS) in chronic spinal cord injury: a randomized controlled trial. *Phys Ther* 2011;91:305-324.

<http://www.ncbi.nlm.nih.gov/pubmed/21292803>

Myers J, Lee M, Kiratli J: Cardiovascular disease in spinal cord injury: an overview of prevalence, risk, evaluation, and management. *Am J Phys Med Rehabil* 2007;86:142–152.

<http://www.cardiology.org/recentpapers/PDF307/SCI%20CV%20Health%20Review.pdf>

Nash MS. Exercise as a Health-Promoting Activity Following Spinal Cord Injury. *J Neurol Phys Ther* 2005;87-106.

[http://journals.lww.com/jnpt/Fulltext/2005/06000/Exercise\\_as\\_a\\_Health\\_Promoting\\_Activity\\_Following.6.aspx](http://journals.lww.com/jnpt/Fulltext/2005/06000/Exercise_as_a_Health_Promoting_Activity_Following.6.aspx)

Ness LL, Field-Fote EC. Whole-body vibration improves walking function in individuals with spinal cord injury: a pilot study. *Gait & Posture* 2009;30(4):436-440.

<http://www.gaitposture.com/article/S0966-6362%2809%2900193-3/abstract>

Teasell RW, Mehta S, Aubut JL. A systematic review of the therapeutic interventions for heterotopic ossification after spinal cord injury. *Spinal Cord* (2010) 48, 512–521

<http://www.ncbi.nlm.nih.gov/pubmed/20048753>

Waring III WP; Biering-Sorensen F, Burns S et al. 2009 Review and Revisions of the International Standards for the Neurological Classification of Spinal Cord Injury. *J Spinal Cord Med* 2010;33(4):346–352.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2964022/pdf/i1079-0268-33-4-346.pdf>

Yeziarski RP. Spinal cord injury pain: spinal and supraspinal mechanisms. *J Rehabil Res Dev* 2009;46(1):95-108

<http://www.rehab.research.va.gov/jour/09/46/1/pdf/yeziarski.pdf>

### **SCI Websites:**

#### **SCIRE**

The **Spinal Cord Injury Rehabilitation Evidence (SCIRE)** website offers a synthesis of the research evidence underlying rehabilitation interventions to improve the health of people living with SCI. It also includes information on numerous outcome measures appropriate for use with individuals post spinal cord injury.

<http://www.scireproject.com/home>

#### **ASIA**

This website for the **American Spinal Injury Association** includes free access to educational materials such as the International Standards for the Classification of Spinal Cord Injury Motor Exam Guide and Key Sensory Points. Some publications are available for purchase as well.

<http://www.asia-spinalinjury.org/>

## STROKE

Boyd LA, Quaney BM, Pohl PS, Winstein CJ. Learning implicitly: effects of task and severity after stroke. *Neurorehabil Neural Repair* 2007; 21(5):444-454  
<http://nnr.sagepub.com/content/21/5/444.long>

Chae J, Sheffler L, Knutson J. Neuromuscular electrical stimulation for motor restoration in hemiplegia. *Top Stroke Rehabil* 2008;15(5):412-426  
<http://thomasland.metapress.com/content/k155747470502827/fulltext.pdf>

Chen S-Y, Winstein CJ. A systematic review of voluntary arm recovery in hemiparetic stroke. *J Neurol Phys Ther* 2009;33: 2-13  
[http://journals.lww.com/jnpt/Fulltext/2009/03000/A\\_Systematic\\_Review\\_of\\_Voluntary\\_Arm\\_Recovery\\_in.2.aspx](http://journals.lww.com/jnpt/Fulltext/2009/03000/A_Systematic_Review_of_Voluntary_Arm_Recovery_in.2.aspx)

Duncan PW, Zorowitz R, Bates B, Choi JY, Glasberg JJ, Graham GD, Katz RC, Lamberty K, Reker D. Management of adult stroke rehabilitation care: a clinical practice guideline. *Stroke* 2005; 36:e100-e143.  
<http://stroke.ahajournals.org/cgi/reprint/36/9/e100>

Hakkennes S, Keating JL. Constraint-induced movement therapy following stroke: A systematic review of randomised controlled trials. *Australian Journal of Physiotherapy* 2005;51: 221-231  
<http://ajp.physiotherapy.asn.au/AJP/51-4/AustJPhysiotherv51i4Hakkennes.pdf>

Gordon NF et al. Physical Activity and Exercise Recommendations for Stroke Survivors: An American Heart Association Scientific Statement From the Council on Clinical Cardiology, Subcommittee on Exercise, Cardiac Rehabilitation, and Prevention; the Council on Cardiovascular Nursing; the Council on Nutrition, Physical Activity, and Metabolism; and the Stroke Council. *Stroke* 2004;35:1230-1240  
<http://circ.ahajournals.org/content/109/16/2031.full.pdf+html>

Geurts AC, de Haart M, van Nes IJ, Duysens J. A review of standing balance recovery from stroke. *Gait & Posture* 2005;22(3):267-281.  
<http://www.ncbi.nlm.nih.gov/pubmed/16214666>

Lubetzky-Vilnai A, Kartin D. The effect of balance training on balance performance in individuals poststroke: a systematic review. *J Neurol Phys Ther* 2010;34: 127-137.  
[http://journals.lww.com/jnpt/Fulltext/2010/09000/The\\_Effect\\_of\\_Balance\\_Training\\_on\\_Balance.2.aspx](http://journals.lww.com/jnpt/Fulltext/2010/09000/The_Effect_of_Balance_Training_on_Balance.2.aspx)

Pak S, Patten C. Strengthening to promote functional recovery poststroke: An evidence-based review. *Top Stroke Rehabil* 2008;15(3):177-199  
<http://thomasland.metapress.com/content/4q05202375034437/fulltext.pdf>

Salbach NM, Mayo NE, Robichaud-Ekstrand S, et al. Balance self-efficacy and its relevance to physical function and perceived health status after stroke. *Arch Phys Med Rehabil* 2006;87: 364-70.  
<http://www.ncbi.nlm.nih.gov/pubmed/16500170>

Sullivan KJ, Brown DA, Klassen T, Mulroy S, Ge T, Azen SP, Winstein CJ; Physical Therapy Clinical Research Network (PTClinResNet). Effects of task-specific locomotor and strength training in adults who were ambulatory after stroke: results of the STEPS randomized clinical trial. *Phys Ther* 2007; 87:1580-1602.

<http://ptjournal.apta.org/content/87/12/1580.full.pdf+html>

Sullivan KJ, Knowlton BJ, Dobkin BH. Step training with body weight support: effect of treadmill speed and practice paradigms on poststroke locomotor recovery. *Arch Phys Med Rehabil*. 2002; 83(5):683-91.

<http://download.journals.elsevierhealth.com/pdfs/journals/0003-9993/PIIS0003999302283768.pdf>

Swan L. Unilateral spatial neglect. *Phys Ther* 2001;81:1572-1580.

<http://physther.org/content/81/9/1572.full.pdf+html>

van de Port IGL, Wood-Dauphinee S, Lindeman E, Kwakkel G: Effects of exercise training programs on walking competency after stroke: a systematic review. *Am J Phys Med Rehabil* 2007;86:935–951.

<http://www.ncbi.nlm.nih.gov/pubmed/17303962>

Wolf SL, Winstein CJ, Miller JP, Taub E, Uswatte G, Morris D, Giuliani C, Light K, Nichols-Larsen D. Effect of constraint induced movement therapy on upper extremity function 3-9 months after stroke: The EXCITE randomized clinical trial. *JAMA* 2006; 296: 2095-2104

<http://jama.ama-assn.org/content/296/17/2095.full.pdf+html>

### **Stroke Websites:**

#### **StrokEngine**

A Canadian Stroke Network website devoted to providing evidence on numerous stroke rehabilitation topics and interventions.

<http://strokengine.ca/>

#### **StrokEngine Assess**

A Canadian Stroke Network website devoted to providing evidence addressing numerous stroke rehabilitation assessments / outcome measures.

<http://strokengine.ca/index.php>

### **TRAUMATIC BRAIN INJURY**

Cicerone, KD, Azulay J. Perceived Self-Efficacy and Life Satisfaction after Traumatic Brain Injury. *Journal of Head Trauma Rehabilitation* 2007; 22(5): 257-266.

<http://www.ncbi.nlm.nih.gov/pubmed/17878767>

Cicerone KD, Langenbahn DM, Braden C et al. Evidence-Based Cognitive Rehabilitation: Updated Review of the Literature From 2003 Through 2008. *Arch Phys Med Rehabil* 2011;92(4):519-530.

<HTTP://WWW.NCBI.NLM.NIH.GOV/PUBMED/21440699>

Cipriano, CA, Pill SG, Keenan, MA. Heterotopic Ossification Following Traumatic Brain Injury and Spinal Cord Injury. *J Am Acad Orthop Surg* 2009;17:689-697  
<http://www.jaaos.org/content/17/11/689.abstract>

Giacino JT, Kalmar K. Diagnostic and prognostic guidelines for the vegetative and minimally conscious states. *Neuropsychol Rehabil.* 2005 Jul-Sep;15(3-4):166-74  
<http://www.ncbi.nlm.nih.gov/pubmed/16350959>  
*APTA members can access complete article through Open Door portal-Medline.*

Kalmar K, Giacino JT. The JFK Coma Recovery Scale--Revised. *Neuropsychol Rehabil.* 2005 Jul-Sep;15(3-4):454-60.  
<http://www.ncbi.nlm.nih.gov/pubmed/16350986>  
*APTA members can access complete article through Open Door portal-Medline.*

Lammi MH, Smith VH, Tate RL, Taylor CM. The minimally conscious state and recovery potential: A follow-up study 2 to 5 years after traumatic brain injury. *Arch Phys Med Rehabil.* 2005;86:746-754.  
<http://download.journals.elsevierhealth.com/pdfs/journals/00039993/PIIS0003999304013243.pdf>

Maas AI, Stocchetti N, Bullock R. Moderate and severe traumatic brain injury in adults. *Lancet Neurol* 2008; 7: 728–41.  
[http://campus.neurochirurgie.fr/IMG/pdf\\_08Review\\_Lancet.pdf](http://campus.neurochirurgie.fr/IMG/pdf_08Review_Lancet.pdf)

McCulloch KL. Attention and dual-task conditions: physical therapy implications for individuals with acquired brain injury, *Journal of Neurologic Physical Therapy* 2007; 104-118.  
[HTTP://JOURNALS.LWW.COM/JNPT/FULLTEXT/2007/09000/ATTENTION AND DUAL TASK CONDITIONS\\_PHYSICAL.4.ASPX?WT.MC\\_ID=HPxADx20100319xMP](http://JOURNALS.LWW.COM/JNPT/FULLTEXT/2007/09000/ATTENTION_AND_DUAL_TASK_CONDITIONS_PHYSICAL.4.ASPX?WT.MC_ID=HPxADx20100319xMP)

McCulloch KL, Buxton E, Hackney J, Lowers S. Balance, attention and dual-task performance during walking after acquired brain injury: associations with falls history *J Head Trauma Rehabil* 2010; 25: 155-163.  
[http://www.yorku.ca/lsergio/6150/McCulloch\\_abi\\_2011.pdf](http://www.yorku.ca/lsergio/6150/McCulloch_abi_2011.pdf)

Mortenson PA, Eng JJ. The use of casts in the management of joint mobility and hypertonia following brain injury in adults: a systematic review. *Phys Ther.* 2003; 83:648–658.  
<http://ptjournal.apta.org/content/83/7/648.full.pdf+html>

Mossberg KA, Amonette, WE, Masel BE. Endurance training and cardiorespiratory conditioning after traumatic brain injury. *J Head Trauma Rehabil.*2010; 25(3):173-83.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2885899/pdf/nihms-203481.pdf>

Mossberg KA, Ayala D, Baker T, et al. Aerobic capacity after traumatic brain injury: comparison with a nondisabled cohort. *Arch Phys Med Rehabil* 2007;88:315-20.  
<http://download.journals.elsevierhealth.com/pdfs/journals/0003-9993/PIIS0003999306015565.pdf>

Rohlberg ML, Faust ME, Beverly B, et al. Effectiveness of Cognitive Rehabilitation Following Acquired Brain Injury: A Meta-Analytic Re-Examination of Cicerone et al.'s (2000, 2005) Systematic Reviews. *Neuropsychology* 2009;23 (1): 20–39  
<http://www.braininjurycouncil.org/documents/cogrehabmetaanalysisrohling2009.pdf>



Studer M. Rehabilitation of executive function: to err is human, to be aware—divine. *J Neurol Phys Ther* 2007; 31: 128-134.

[http://journals.lww.com/jnpt/Fulltext/2007/09000/Rehabilitation\\_of\\_Executive\\_Function\\_To\\_Err\\_is.6.aspx](http://journals.lww.com/jnpt/Fulltext/2007/09000/Rehabilitation_of_Executive_Function_To_Err_is.6.aspx)

The Management of Concussion/mTBI Working Group-- Department of Veterans Affairs & the Department of Defense. VA/DoD Clinical Practice Guideline For Management Of Concussion/ Mild Traumatic Brain Injury. *J Rehabil Res Dev*. 2009;46(6):CP1-68.

<http://www.rehab.research.va.gov/jour/09/46/6/pdf/cpg.pdf>

Whyte J, Gosseries O, Chervoneva I, DiPasquale MC, et al. Predictors of short-term outcome in brain-injured patients with disorders of consciousness. *Prog Brain Res*. 2009;177:63-72.

[http://www.coma.ulq.ac.be/papers/vs/whyte\\_PBR\\_coma\\_science\\_2009.pdf](http://www.coma.ulq.ac.be/papers/vs/whyte_PBR_coma_science_2009.pdf)

Zasler ND, Katz DI, Zafonte RD. *Brain Injury Medicine*. New York: Demos Medical Publishing, 2007.

### **Traumatic Brain Injury Websites:**

#### **Center for Outcome Measurement in Brain Injury (COMBI)**

[www.tbims.org/combi](http://www.tbims.org/combi)

This website provides information on many of the outcome measures used in the management of individuals with traumatic brain injury.

#### **Evidence-Based Review of Moderate To Severe Acquired Brain Injury (ABIEBR)**

<http://www.abiebr.com/>

This website, which was developed through the efforts of numerous researchers in Canada, offers a synthesis of current rehabilitation literature related to acquired brain injury.

### **VESTIBULAR / BALANCE**

Alrwaily M, Whitney SL. Vestibular rehabilitation of older adults with dizziness. *Otolaryngologic Clinics of North America* 2011;44(2):473-496.

<http://www.oto.theclinics.com/article/S0030-6665%2811%2900016-8/abstract>

Alsalaheen BA, Mucha A, Morris LO et al. Vestibular rehabilitation for dizziness and balance disorders after concussion. *J Neurol Phys Ther* 2010; 34(2):87-93.

[http://journals.lww.com/jnpt/Fulltext/2010/06000/Vestibular\\_Rehabilitation\\_for\\_Dizziness\\_and.7.aspx](http://journals.lww.com/jnpt/Fulltext/2010/06000/Vestibular_Rehabilitation_for_Dizziness_and.7.aspx)

Brown KE, Whitney SL, Marchetti GF, Wrisley DM, Furman JM. Physical therapy for central vestibular disorders. *Arch Phys Med Rehabil* 2006;87:76-81

<http://download.journals.elsevierhealth.com/pdfs/journals/0003-9993/PIIS0003999305010002.pdf>

Furman JM, Cass SP, Whitney SL. *Vestibular Disorders: A Case Study Approach to Diagnosis and Treatment*. Third Edition. New York, NY; Oxford University Press, 2010.

Hain TC. [Neurophysiology of vestibular rehabilitation](http://www.ncbi.nlm.nih.gov/pubmed/22027074). NeuroRehabilitation 2011;29(2):127-41.  
<http://www.ncbi.nlm.nih.gov/pubmed/22027074>

Hain TC, Tacovino D. Pharmacologic treatment of persons with dizziness. Neurol Clin 23 2005; 23:831–853  
<http://www.dizziness-and-balance.com/resources/papers/05%28Neurologic%20clinics%29%20hain%20and%20yacovino%20pharm%20dizziness.pdf>

Hall, CD, Heusel-Gillig L; Tusa RJ, et al. Efficacy of gaze stability exercises in older adults with dizziness. J NeurolPhys Ther 2010; 34(2):64-69.  
[http://journals.lww.com/jnpt/Fulltext/2010/06000/Efficacy\\_of\\_Gaze\\_Stability\\_Exercises\\_in\\_Older\\_.3.aspx](http://journals.lww.com/jnpt/Fulltext/2010/06000/Efficacy_of_Gaze_Stability_Exercises_in_Older_.3.aspx)

Helminski JO, Zee DS, Janssen I, Hain TC. Effectiveness of particle repositioning maneuvers in the treatment of benign paroxysmal positional vertigo: a systematic review. Phys Ther 2010;90:663–678.  
<http://ptjournal.apta.org/content/90/5/663.full.pdf+html>

Helminski JO, Janssen I, Kotaspuikis D, et al. Strategies to prevent recurrence of benign paroxysmal positional vertigo. Arch Otolaryngol Head Neck Surg 2005;131:344-348  
<http://dizziness-and-hearing.com/resources/papers/05%28arch%20otol%29%20Helminski%20Strategies%20to%20prevent%20recurrence.pdf>

Herdman SJ. [Vestibular Rehabilitation](#) (3rd ed). Philadelphia: F.A. Davis, 2007.

Herdman SJ, Hall CD, Delaune W. Variables associated with outcome in patients with Unilateral vestibular hypofunction. Neurorehabil Neural Repair. 2011 Sep 29.  
<http://www.ncbi.nlm.nih.gov/pubmed/21959673>

Hillier SL, McDonnell M. Vestibular rehabilitation for unilateral peripheral vestibular dysfunction. Cochrane Database Syst Rev. 2011 Feb 16;(2):CD005397.  
<http://www.ncbi.nlm.nih.gov/pubmed?term=21328277%20%20>

Horak FB, Wrisley DM, Frank JS. The Balance Evaluation Systems Test (BESTest): development of a clinical tool to differentiate types of balance deficits. Phys Ther 2009;89(5):484-489  
<http://ptjournal.apta.org/content/89/5/484.full.pdf+html>

BESTest supplement:  
<http://ptjournal.apta.org/content/suppl/2009/04/24/89.5.484.DC1/zad70509000001.pdf>

Marchetti GF, Whitney SL, Blatt PJ et al. Temporal and spatial characteristics of gait during performance of the Dynamic Gait Index in people with and people without balance or vestibular disorders. Phys Ther 2008;88:640–651.  
<http://ptjournal.apta.org/content/88/5/640.full.pdf+html?sid=25182e2c-d5ea-4e97-848d-d8221006f732>

Schubert MC, Minor LB. Vestibulo-ocular physiology underlying vestibular hypofunction. *Phys Ther* 2004;84:373–385.

<http://ptjournal.apta.org/content/84/4/373.full.pdf+html?sid=25182e2c-d5ea-4e97-848d-d8221006f732>

Whitney SL, Sparto PJ. Principles of vestibular physical therapy rehabilitation. *NeuroRehabilitation*. 2011;29(2):157-66.

<http://www.ncbi.nlm.nih.gov/pubmed/22027077>

Wrisley DM and Kumar NA. The effectiveness of the Functional Gait Assessment in predicting falls in community dwelling older adults. *PhysTher* 2010;90:761-773

<http://ptjournal.apta.org/content/90/5/761.full.pdf+html>

Wuyts FL, Furman J, Vanspauwen R et al. Vestibular function testing. *Curr Opin Neurol*. 2007; 20(1):19-24.

<http://www.ncbi.nlm.nih.gov/pubmed/17215684>

## **GAIT**

Fritz, S, Lusardi, M. White Paper: "Walking Speed: the Sixth Vital Sign" *Journal of Geriatric Physical Therapy*: 2009;32 (2): 2–5

[http://journals.lww.com/jgpt/Fulltext/2009/32020/White\\_Paper\\_Walking\\_Speed\\_the\\_Sixth\\_Vital\\_Sign\\_2.aspx?WT.mc\\_id=HPxADx20100319xMP](http://journals.lww.com/jgpt/Fulltext/2009/32020/White_Paper_Walking_Speed_the_Sixth_Vital_Sign_2.aspx?WT.mc_id=HPxADx20100319xMP)

Perry J, Burnfield JM (2010). *Gait Analysis, Normal and Pathologic Function, 2nd Edition*. Slack: Thorofare, NJ.

Perry J, Garrett M, Gronley JK, Mulroy SJ. Classification of walking handicap in the stroke population. *Stroke*. 1995 Jun;26(6):982-9.

<http://stroke.ahajournals.org/cgi/content/full/26/6/982>

Rancho Los Amigos National Rehabilitation Center. *Observational Gait Analysis* (4<sup>th</sup> ed). Downey, CA: Los Amigos Research and Education Institute, Inc., 2001.

Available for purchase at <http://www.larei.org/books.html>

Riley PO, Paolini G, Della Croce U, et al. A kinematic and kinetic comparison of overground and treadmill walking in healthy subjects. *Gait Posture*. 2007; 26(1):17-24.

<http://www.ncbi.nlm.nih.gov/pubmed/16905322>

Kulig K, Burnfield JM (2008). The role of biomechanics in orthopedic and neurological rehabilitation. *Acta of Bioengineering and Biomechanics*, 10:1-14.

<http://www.ncbi.nlm.nih.gov/pubmed/19031992>

Mulroy SJ, Eberly VJ, Gronely JK, Weiss W, Newsam CJ. Effect of AFO design on walking after stroke: impact of ankle plantar flexion contracture. *Prosthet Orthot Int*. 2010 Sep;34(3):277-92.

<http://informahealthcare.com/doi/abs/10.3109/03093646.2010.501512>

## **OUTCOME MEASURES**

Beninato M, Portney LG. Applying concepts of responsiveness to patient management in neurologic physical therapy. *J Neurol Phys Ther.* 2011;35:75-81.

[http://journals.lww.com/jnpt/Fulltext/2011/06000/Applying\\_Concepts\\_of\\_Responsiveness\\_to\\_Patient.4.aspx](http://journals.lww.com/jnpt/Fulltext/2011/06000/Applying_Concepts_of_Responsiveness_to_Patient.4.aspx)

Haley SM, Fragala-Pinkham MA. Interpreting change scores of tests and measures used in physical therapy. *Physical Therapy* 2006;86:735-743.

<http://www.ptjournal.org/cgi/reprint/86/5/735>

Potter K, Fulk GD, Salem Y, Sullivan J. Outcome measures in neurologic physical therapy practice. Part I: making sound decisions. *J Neurol Phys Ther.* 2011;35:57-64.

[http://journals.lww.com/jnpt/Abstract/2011/06000/Outcome\\_Measures\\_in\\_Neurological\\_Physical\\_Therapy.2.aspx](http://journals.lww.com/jnpt/Abstract/2011/06000/Outcome_Measures_in_Neurological_Physical_Therapy.2.aspx)

Sullivan J, Andrews AW, Lanzino D, Perron A, Potter K. Outcome measures in neurologic physical therapy practice. Part II: a patient-centered process. *J Neurol Phys Ther.* 2011;35:65-74.

[http://journals.lww.com/jnpt/Abstract/2011/06000/Outcome\\_Measures\\_in\\_Neurological\\_Physical\\_Therapy.3.aspx](http://journals.lww.com/jnpt/Abstract/2011/06000/Outcome_Measures_in_Neurological_Physical_Therapy.3.aspx)

## **MISCELLANEOUS**

Campbell SK, Vander Linden DW, Palisano RJ. Physical Therapy for Children (3<sup>rd</sup> ed). Philadelphia: Saunders, 2005.

Campbell SK. Are models of disability useful in real cases? Pediatric case examples realized in research, clinical practice, and education. *Physical Therapy* 2006;86:881-887.

<http://www.ptjournal.org/cgi/reprint/86/6/881>

Damiano DL, DeJong SL. A systematic review of the effectiveness of treadmill training and body weight support in pediatric rehabilitation. *J Neurol Phys Ther* 2009;33: 27-44.

[http://journals.lww.com/jnpt/Fulltext/2009/03000/A\\_Systematic\\_Review\\_of\\_the\\_Effectiveness\\_of.4.aspx](http://journals.lww.com/jnpt/Fulltext/2009/03000/A_Systematic_Review_of_the_Effectiveness_of.4.aspx)

Jette AM. Toward a common language for function, disability, and health. *Physical Therapy* 2006;86:726-734.

<http://www.ptjournal.org/cgi/reprint/86/5/726>

Latash ML, Anson GJ. Synergies in health and disease: relations to adaptive changes in motor coordination. *Physical Therapy* 2006;86:1151-1160.

<http://www.ptjournal.org/cgi/reprint/86/8/1151>