

General rehabilitation literature

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Literature list EBP related:

1. Cohen H: How to write a case report *Am J Health-Syst Pharm* 2006 (63) 1888-1892
2. Gowing L: Evidence based practice From Concepts to Reality. In Roche A.M. and McDonald J. (Eds). Systems, settings, people: Workforce development challenges for the alcohol and other drugs field. *Adelaide: National Centre for Education and Training on Addiction (NCETA) 2001: 93-107.*
3. Green BN, Johnson CD: How to write a case report for publication. *J Chiropr Med* 2006 (5)72–82
4. Herbert R, Jamtvedt G, Mead J, Hagen KB: Outcome measures measure outcomes, not effects of intervention. *Australian journal of physiotherapy* 2005 3-4 (editorial)
5. Herbert RD, Sherrington C, Maher C, Mosely AM: Evidence-based practice – Imperfect but necessary. *Physiotherapy Theory and Practice* 2001, 17, 201-2011
6. Jette DU et al: Evidence-Based Practice: Beliefs, Attitudes, Knowledge, and Behaviors of Physical Therapists. *Physical Therapy* 2003; 83: 786-805
7. Maher CG, Sherrington C, Elkins M, Herbert RD, Moseley AM: Challenges for EBP: Accessing and interpreting High-Quality evidence on therapy. *Physical Therapy* 2004 (7) 644-654
8. Rothwell PM. External validity of randomised controlled trials: “To whom do the results of this trial apply?” *Lancet* 2005; 365: 82–93
9. Steiner WA, Ryser L, Huber E, et al. Use of the ICF model as a clinical problem solving tool in physical therapy and rehabilitation medicine. *Phys Ther.* 2002;82:1098-1107
10. Straus SE, Sackett DL: Getting research findings into practice. *BMJ* 1998 (8) 339-342

Literature list clinical reasoning related:

1. Atkinson HL, Nixon-Cave K. A tool for clinical reasoning and reflection using the ICF framework. *Phys Ther.* 2011; 91:416-430
2. Baker SE et al. Systematic Clinical Reasoning in Physical Therapy (SCRIPT): tool for the purposeful practice of clinical reasoning in Orthopedic Manual Physical Therapy. *Phys Ther* 2017;79:61-70
3. Cleland JA, Childs JD, Fritz JM, Whitman JM, Eberhart SL. Development of a clinical prediction rule for guiding treatment for a subgroup of patients with neck pain: use of thoracic spine manipulation, exercise and patient education. *Phys Ther.* 2007;87:9-23
4. Jones MA. Clinical reasoning in Manual Therapy 1992 *Phys Ther* 1992;72:875-84
5. Rothstein JM, Echtertnach JL, Riddle DL. The Hypothesis-Oriented Algorithm for Clinicians II (HOAC II): a guide for patient management. *Phys Ther.* 2003;83:455-70

6. Schmidt SG. Recognizing potential barriers to setting and achieving effective rehab goals for patients with persistent pain. *Phys. Theory and Practice* 2016 DOI: 10.1080/09593985.2016.1194664
7. Steiner WA, Ryser L, Huber E, Uebelhart D, Aeschlimann A, Stucki G. Use of the ICF Model as a Clinical Problem Solving Tool in PT and Rehab Medicine. *Phys Ther.*2002;82:1098-1107
8. Thoomes EJ, Schmitt MS. Practical Use of the HOAC II for Clinical Decision Making and Subsequent Therapeutic Interventions in an elite athlete with low back pain *JOSPT.*2011;41:108-117

Literature list neuro physiology related:

1. Aman JE, Elangovan N, Yeh,IL, Konczak J. The effectiveness of Proprioceptive training for improving motor function. a systematic review. *Frontiers in human Neuroscience* 2015,8; 1-18, article 1075. doi: 10.3389/fnhum.2014.01075

Literature list Bio-mechanics related:

1. Belling Sorensen AK, Jorgensen U, Secondary impingement in the shoulder, an improved terminology in impingement *Scand J Med Sci Sports* 2000 (10) 266–278
2. Caronni A, Bolzoni F, Esposti R, Bruttini C, Cavallari P, Accuracy of pointing movements relies upon a specific tuning between anticipatory postural adjustment and prime mover activation. *Acta Physiol* 2013 (208) 111–124
3. Comerford MJ, Gibbons SGT, Kraft versus Stabilität Teil 1 und 2 *Manuelle Therapie* 2002 (5,6) 13-20.
4. Grzebellus M, Schäfer C, Irradiation aus biomechanischer Sicht. *Krankengymnastik Zeitschrift für Physiotherapeuten* 1998 (9) 1489-1494
5. Folland JP, Williams AG. The adaptations to strength training morphological and neurological contribution to increased strength. *Sports Med* 2007; 37 (2): 145-168
6. Hides JA, Richardson CA, Jull GA, Multifidus Muscle Recovery Is Not Automatic After Resolution of Acute, First-Episode Low Back Pain, *Spine* 1996 (23) 2763-2769
7. Hodges PW, Richardson CA, Inefficient muscular stabilization of the lumbar spine associated with low back pain. *Spine* 1996 (22) 2640-2650.
8. Hodges PW, Richardson CA, Feedforward contraction of transversus abdominis is not influenced by the direction of arm movement. *Exp Brain Res* 1997;114:362–370
9. Hoogenboom BJ, Voight ML, Cook G, Gill L. Using Rolling to Develop Neuromuscular Control and Coordination of the Core and Extremities of Athletes. *N Am J Sports Phys Ther.* 2009; 4(2): 70–82.
10. Kibler WB, Press J, Sciascia A: The Role of Corer Stability in Athletic function. *Sports Med* 2006 36 (3): 189-198
11. Massie CL, Malcom MP, Green DP, Browning RC, Kinematic Motion Analysis and Muscle Activation patterns of Continuous reaching in Survivors of Stroke. *Journal of Motor Behavior* 2012 (44) 213-222
12. McQuade KJ, Smidt GL, Dynamic scapulohumeral Rhythm: the effects of external resistance during elevation of the arm in the scapular plane. *JOSPT* 1998 (2) 125-131
13. Mochizuki G, Ivanova TD, Garland SJ. Synchronization of Motor Units in Human Soleus Muscle During Standing Postural Tasks. *J Neurophysiol* 2005 94: 62–69
14. Mottram AL, Woledge RC, Morrissey D. Motion analysis study of a scapular orientation exercise and subjects' ability to learn the exercise. *Manual Therapy* 14 (2009) 13-18

15. O'Sullivan PB, Twomey LT, Allison GT, Evaluation of specific stabilizing exercise in the treatment of chronic low back pain with radiologic diagnosis of spondylosis or spondylolisthesis. *Spine* 1997 (24) 2959-2967.
16. Stiene HA, Brosky T, Reinking MF, Nyland J, Mason BM, A comparison of closed kinetic chain and isokinetic joint isolation exercise in patients with patellofemoral dysfunction. *JOSPT* 1996 (3) 136- 141.
17. Shapiro MB, Prodoehl J, Corcos DM, Gottlieb GL. Muscle Activation Is Different When the Same Muscle Acts as an Agonist or an Antagonist During Voluntary Movement *Journal of Motor Behavior*, 2005 (2) 135–145
18. Tsao H, Hodges PW. Immediate changes in feedforward postural adjustments following voluntary motor training. *Exp Brain Res* 2007; 181:537–546
19. Voight ML et al. The chop and lift reconsidered integrating neuromuscular principles into orthopedic and sports rehab. *najspt*; 2008(03):151-159

Literature list auditory stimuli related:

1. Freedlanda RL, Festa C, Sealy M, McBean A, Elghazaly P, Capan A, Brozycki L, Nelson AJ, Rothman J : The effects of pulsed auditory stimulation on various gait measurements in persons with Parkinson's Disease. *NeuroRehabilitation* 17 (2002), 81–87.
2. Suteerawattananon M, Morris GS, Etnyre BR, Jankovic J, Protas EJ: Effects of visual and auditory cues on gait in individuals with Parkinson's disease. *Journal of the Neurological Sciences* 219 (2004), 63– 69.
3. Nascimento LR, Caetano LCG, Freitas DCMA, Morais TM, Polese JC, Teixeira-Salmela LF: Different instructions during the ten-meter walking test determined significant increases in maximum gait speed in individuals with chronic hemiparesis. *Rev Bras Fisioter.* (2011)

Literature list spasticity related:

1. Malhotra S; Pandyan AD; Rossewilliam S; Roffe C; Hermens H. Spasticity and contractures at the wrist after stroke:time course of development and their association with functional recovery of the upper limb. *Clinical Rehabilitation* 2011; 25: 184–191
2. Yelnik AP, Simon O, Parratte B, Gracies JM. How to clinically assess and treat muscle overactivity in spastic paresis. *J. Rehabil. Med.* 2010;42; 801-807
3. Malhotra S, Pandyan AD, Day CR, Jones PW, Hermens H. Spasticity, an impairment that is poorly defined and poorly measured. *Clinical rehabilitation* 2009; 23: 651-658
4. Bovend'Eerd TJ, Newman M, Barker K,Dawes H, Minelli C, Wade DT. The effects of stretching in spasticity: a systematic review. *Arch Phys Med Rehabil* 2008; 89:1395-406.
5. Malhotra S, Cousins E, Ward A, Day C, Jones P, Roffe C, Pandyan A. An investigation into the agreement between clinical, biomechanical and neurophysiological measures of spasticity. *Clinical rehabilitation* 2008; 22; 1105-1115
6. Petropoulou KB; Panourias JG; Rapidi CA; Sakas DE. The phenomenon of spasticity: a pathophysiological and clinical introduction to neuromodulation therapies. *Acta Neurochir Suppl* 2007 97(1) 137-144
7. Sheehan JL, Winzeler-Mercay U, Mudie MH. A randomized controlled pilot study to obtain the best estimate of the size of the effect of a thermoplastic resting splint on

- spasticity in the stroke-affected wrist and fingers. *Clinical rehabilitation* 2006;20;1032-1037.
8. Patrick E, Ada L. The tardieu scale differentiates contracture from spasticity whereas the Ashworth Scale is confounded by it. *Clinical rehabilitation* 2006; 20; 173-182
 9. Burridge JH, Wood DE, Hermens HJ, Voerman GE, Johnson GR, Wijck van F, Platz T, Gregoric M, Hitschcock R, Pandyan AD. Theoretical and methodological considerations in the measurement of spasticity. *Disability and Rehabilitation* 2005; 27(1/2): 69-80
 10. Gracies JM. Pathophysiology of spastic paresis. I: paresis and soft tissue changes. *Muscle&Nerve* 2005 (31), 535-551
 11. Lieber RL, Steinman S, Barash IA, Chambers H. Structural and functional changes in spastic skeletal muscle. *Muscle Nerve* 2004; 29; 615-627
 12. Pandyan AD; Cameron M; Powel J; Stott DJ; Granat MH. Contractures in the post-stroke wrist: a pilot study of its time course of development and its association with upper limb recovery *Clinical Rehabilitation* 2003; 17: 88–95
 13. Bohannon RW, Smith MB. Interrater reliability of a modified Ashworth Scale of muscle spasticity. *Physical Therapy* 1987; 67; 206-207

Literature list general gait articles

- 1 Barbeau H. Locomotor training in neurorehab emerging rehab concepts *Neurorehab and neural repair* 2003
- 2 Dietz V. Quadrupedal coordination of bipedal gait: implications for movement disorders. *J Neurol* 2011 258:1406–1412
- 3 Duncan PW et al. Body-Weight–Supported Treadmill Rehabilitation after Stroke *N Engl J Med* 2011;364:2026-36
- 4 Frigon A. Central Pattern Generators of the Mammalian Spinal Cord *The Neuroscientist* 18(1) 56–69
- 5 Ivanenko YP, Dominici N, Daprati E, Nico D, Cappellini G, Lacquanti F. Locomotor body scheme. *Human Movement Science* 2011 (30)341–351
- 6 Kang HK, Kim Y, Chung Y, Hwang S. Effects of treadmill training with optic flow on balance and gait in individuals following stroke: randomized controlled trials. *Clinical Rehabilitation* 2011, 26,(3), 246–255
- 7 Kempen JCE, Doorenbosch CAM, Knol DL, de Groot V, Beckerman H. Newly Identified Gait Patterns in Patients With Multiple Sclerosis May Be Related to Push-off Quality. *Phys Ther.* 2016; 96(11):1744-52
- 8 Krebs DE, Goldvasser D, Lockert JD, et al. Is base of support greater in unsteady gait? *Phys Ther.* 2002;82:138 –147
- 9 Lacquaniti F, Ivanenko YP, Zago M Development of human locomotion *Current Opinion in Neurobiology* 2012 (22) 822–828
- 10 Mac Kinnon CD et al. Preparation of anticipatory postural adjustments prior to stepping. *J Neurophysiol* 2007 (97) 4368–4379,.
- 11 McIntosh GC, Brown SH, Rice RR, Thaut MH, Rhythmic auditory-motor facilitation of gait patterns in patients with Parkinson’s disease. *Journal of Neurology, Neurosurgery, and Psychiatry* 1997(62) 22-26
- 12 Meyns P, Bruijn SM, Duysens J. The how and why of arm swing during human walking. *Gait & Posture* 2013 38 (4) 555-562
- 13 Robert SL, James RG. The neurological control system for normal gait *Journal of Prosthetics and Orthotics* 1990 (2) 1, 01-11

- 14 Sadeghi H, Allard P, Duhaime M. Contributions of lower-limb muscle power in gait of people without impairments. *Phys Ther.* 2000 (80) 1188 –1196
- 15 Takakusaki K. Neurophysiology of Gait: From the Spinal Cord to the Frontal Lobe. *Movement Disorders*, 2013 28(11) 1483-1491
- 16 Vogt L, Breitmann K, Pfeifer K, Banzer W. Walking patterns of hip arthroplasty patients: some observations on the medio-lateral excursions of the trunk. *Disability and Rehabilitation* 2003 (25) 309-317
- 17 Woollacott MH, Tang PF. Balance Control During Walking in the Older Adult: Research and Its Implications. *Physical Therapy* 1997 (77) 646-660

Literature list Robotics related

1. Lo AC, Guarino PD, Richards LG, et al. Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke. *n engl j med* 2010, 362;19, 1772-1783
2. Morales R, Badesa FJ, Garcia-Aracil N, Sabater JM, Pérez-Vidal C. Pneumatic robotic systems for upper limb rehabilitation. *Med Biol Eng Comput*, 2011, 49:1145–1156
3. Takahashi CD, Yeghiaian LD, Le V, Motiwala RR, Cramer SC. Robot-based hand motor therapy after stroke. *Brain* 2008 (131) 425-37

Literature list scoliosis related

1. Al-Eisa E, Egan D, Deluzio K, Wassersug R, 2006: Effects of pelvic skeletal asymmetry on trunk movement. *Spine*;31(3):71-79.
2. Asher MA, Burton DC, 1999: A concept of idiopathic scoliosis deformities as imperfecta torsion(s). *Clin Orthop*; Jul; (364):11-25.
3. Burwell RG, Dangerfield PH, 1992: Pathogenesis and assessment in scoliosis. *Surgery of the Spine*; Section 5: Chapter 19: 365.
4. Burwell RG, 2003: Aetiology of idiopathic scoliosis: current concepts. *Pediatr Rehabil*;6 (3-4):137-170.
5. Charlebois M, Mac-Thiong JM, Huot MP, de Guise JA, Skalli W, Labelle H, 2002: Relation between the pelvis and sagittal profile in adolescent idiopathic scoliosis: the influence of curve type. *Stud. Health Technol Inform*; 91: 140-143.
6. Chockalingam N, Dangerfield PH, Rahmatalla A, Achmed el-N, Cochrane T, 2004: Assessment of ground reaction force during scoliotic gait. *Eur Spine J*; 13(8): 750-754.
7. Dickson RA, 1992: The scientific basis of treatment of idiopathic scoliosis. *Acta Orthop Belgica*; 58(1): 107.
8. Faro FD, Marks MC, Pawelek J, Newton PO, 2004: Evaluation of a functional position for lateral radiograph acquisition in adolescent idiopathic scoliosis. *Spine*; Oct 15, 29(20): 2284-2289.
9. Giakas G, Baltzopoulos V, Dangerfield PH, Dorgan JC, Dalmira S, 1996: Comparison of gait patterns between healthy and scoliotic patients using time and frequency domain analysis of ground reaction forces. *Spine*, 21(19):2235-2242.
10. Graham EJ, Lenke LG, Lowe TG, Betz RR, Bridwell KW, Kong Y, Blanke K, 2000: Prospective pulmonary function evaluation following open thoracotomy for anterior spinal fusion in adolescent idiopathic scoliosis. *Spine*: Sep 15; 25(18): 2319-2325.

11. Greiner KA, 2002: Adolescent idiopathic scoliosis: Radiologic decision making. *American Family Physican*; May 1:1817-1822.
12. Gram MC, Hasan ., 1999: The spinal curve in standing and sitting postures in children with idiopathic scoliosis. *Spine*; Jan 15; 24(2): 200-201.
13. Grivas TB, Dantas S, Samelis P, Maziotou C, 2002: Lateral spinal profile in school-screening referrals with or without late onset idiopathic scoliosis 10 degrees-20 degrees. *Stud Health Technol Inform*; 91:25-31.
14. Grivas TB, Vasiliadis ES., Koufopoulos G, Segos D, Triantafyllopoulos G, Mouzakis V, 2006: Study of trunk asymmetry in normal children and adolescent. *Scoliosis* 1:19.
15. Harrison DE, Harrison DD, Troyanovich SJ, 1998a.: Three-dimensional spinal coupling mechanics: Part I. A review of the literature. *J Manipulative Physiol Ther*; Feb; 21(2):101-13.
16. Harrison DE, Harrison DD, Troyanovich SJ, 1998b: Three-dimensional spinal coupling mechanics: Part II. Implications for chiropractic theories and practice. *J Manipulative Physiol Ther*; Mar-Apr; 21(3):177-186. .
17. Harrison DE, Cailliet R, Harrison DD, Janik TJ, Troyanovich SJ, Coleman RR, 1999.: Lumbar coupling during lateral translations of the thoracic cage relative to a fixed pelvis. *Clin Biomech (Bristol, Avon)*; Dec; 14(10):704-709.
18. Hides JA, Stokes MJ, Saide M, Jull GA, Cooper DH,1994: Evidence of lumbar multifidus muscles wasting ipsilateral to symptoms in patients with acute/subacute low back pain. *Spine*; 19(2):165-177.
19. Hodges PW, Richardson CA,1996: Inefficient muscular stabilization of the lumbar spine associated with low back pain. A motor control evaluation of transversus abdominis. *Spine*; 21(22): 2640-2650.
20. Hodges PW, Richardson CA, 1997: Contraction of the abdominal muscles associated with movement of the lower limb. *Physical Therapy*; 77:132-144.
21. Hopf C, Scheidecker M, Steffan K, Bodem F, Eysel P, 1998: Gait analysis in idiopathic scoliosis before and after surgery: a comparison of the pre- and postoperative muscle activation pattern. *Eur Spine J*; 7(1):6-11
22. Karski T, 2006: Recent observations in the biomechanical etiology of so-called idiopathic scoliosis. New classification of spinal deformity-I-st, II-nd and III-rd etiopathological groups. *Stud Health Techno Inform*; 123: 473-482.
23. Kotwicki T, 2002: Sagittal and transversal plane deformity in thoracic scoliosis. *Stud Health Technol Inform*; 91:251-256.
24. Kotwicki T, 2007: Badanie zakresu ruchu w stawach biodrowych – modyfikacja badania i wyniki pacjentów ze skoliozą. *Ann Acad Med Siles*; 61,1.
25. Kramers-de Quervain IA, Müller R, Stacoff A, Grob D, Stüsi E, 2004: Gait analysis in patient with idiopathic scoliosis. *Eur Spine J*; Aug; 13(5): 449-456.
26. Lenke LG, Betz RR, Harms J, Bridwell KH, Clements DH, Lowe TG, Blanke K, 2001: Adolescent idiopathic scoliosis: a new classification to determine extent of spinal arthrodesis. *J Bone Joint Surg Am.*; 83A:1169-1181.
27. Lenke LG, Betz RR, Clements D, Merola A, Haheer T, Lowe T, Newton P, Bridwell KH, Blanke K, 2002: Curve prevalence of a new classification of operative adolescent idiopathic scoliosis: how it organizes curve patterns as a template to perform selective fusions of the spine. *Spine*; 27: 604-611.
28. Lim HH, Ong CH, 2001: Dynamic measurements of axial vertebral rotation and rotational flexibility in scoliosis by fluoroscopic method. *Med J Malaysia*; Jun; 56 Suppl C: 41-45.

29. Mac-Thiong JM, Berthonnaud E, Dimar JR, Betz RR, Labelle H, 2004: Sagittal alignment of the spine and pelvis during growth. *Spine*; Aug 1; 29(15): 1642-1647.
30. Mallau S, Bollini G, Jouve JL, Assaiante C, 2007: Locomotor skills and balance strategies in adolescent idiopathic scoliosis. *Spine*; 32(1):14-22.
31. Nault ML, Allard P, Hinse S, Le Blanc R, Car O, Sadeghi H, 2002: Relations between standing stability and body posture parameters in scoliosis. *Spine*; 27(17); 1911-1917.
32. Panjabi M, Yamamoto I, Oxland T, Cisco J, 1989: How does posture affect coupling in the lumbar spine. *Spine*; Sep; 14(9): 1002-1011.
33. Stępień A, 2007: Wpływ deformacji kręgosłupa na sposób obciążania stop w czasie chodu u osób ze skoliozą idiopatyczną. *Postępy rehabilitacji*; 21(2);13-20.
34. Stępień A, 2008: Zakresy rotacji tułowia i miednicy u dziewcząt ze skoliozą idiopatyczną. Rozprawa doktorska. Akademia Wychowania Fizycznego, Warszawa
35. Stokes IAF, 1988: Axial rotation component of thoracic scoliosis. *J Orthop Res*; 7: 702-708.
36. Stokes IAF, 1994: Three-dimensional terminology of spinal deformity: A raport presented to the Scoliosis Research Society Working Group on 3-D terminology of spinal deformity. *Spine*; 19: 236-248.
37. Syczewska M, Łukaszewska A, Górak B, Graff K, 2006: Zmiany stereotypu chodu u pacjentów z bocznym skrzywieniem kręgosłupa. *Rehabilitacja Medyczna*; 10(4): 12-21
38. Yazici M, Acaroglu ER, Alanay A, Deviren V, Cila A, Surat A, 2001: Measurement of vertebral rotation in standing versus supine position in adolescent idiopathic scoliosis. *J Pediatr Orthop*; Mar-Apr; 21(2): 252-256
39. Vedentam R, Lenke LG, Bridwell KH, Linville DL, Blanke K, 2000: The effect of variation in arm position on sagittal spinal alignment. *Spine*; Sep 1; 25(17): 2204-2209
40. Zabijek KF, Leroux MA, Coillard C, Rivard CH, Prince F, 2005: Evaluation of segmental postural characteristics during quiet standing in control and idiopathic scoliosis patients. *Clin Biomach (Bristol Avon)*, 20 (5): 483-490