# GAIT BIBLIOGRAPHY


1. Marcum ZA, et al., Correlates of gait speed in advanced knee osteoarthritis Pain Medicine, 07/10/2014
2. Brown L.P., Yavorsky P.; ***Locomotor biomechanics and pathomechanics: a review.*** J Orthop Sports Physical Therapy 1987; 9:3-10
3. Craik R.L.; Oatis CA. ***Gait Analysis: Theory and Application.*** St Louis, Mo: Mosby Inc; 1995.
4. Delacerda F.G., Wikoff O.D.; ***Effect of lower extremity asymmetry on the kinematics of gait.*** J Orthop Sports Physical Therapy 1982; 3:105-107.
5. Donatelli R.; ***Abnormal biomechanics of the foot and ankle.*** J Orthop Sports Physical Therapy 1987; 9:11-16.
6. Duncan C.E.; ***A gait training suggestion for lengthening gastrocnemius-soleus muscles: suggestion from the field.*** Physical Therapy 1989;69: 773-776.
7. Gundersen L.A., Valle D.R., Barr A.E., Danoff J.V., Stanhope S.J., Snyder-Mackler L.; ***Bilateral analysis of the knee and ankle during gait: an examination of the relationship between lateral dominance and symmetry.*** Physical Therapy 1989; 69:640-650.
8. Inman V.T.; ***Human Locomotion.*** Can Med Assoc J. 1966; 94: 1047-1054.
9. Kirkwood R.N., Culham E.G., Costigan P.; ***Hip movements during level walking, stair climbing, and exercise in individuals aged 55 years or older.*** Physical Therapy 1999; 79: 360-370.
10. Krebs D.E., Wong D., Jevsevar D., O Riley P., Hodge W.A.; ***Trunk kinematics during locomotor activities.*** Physical Therapy 1992; 72: 505-514.
11. Kuo A.D., Donelan, J.M.; ***Dynamic Principles of Gait and Their Clinical Implications.*** Physical Therapy 2010; Volume 90: 157.
12. Lee D.; ***Instability of the sacroiliac joint and the consequences to gait.*** J Manual Manipulative Ther. 1996; 4:22-29.
13. Levangie P.K., Norkin C.C.; ***Gait. In: Joint Structure and Function: A Comprehensive Analysis.*** 4th edition Philadelphia, PA: F.A. Davis Company; 2005: 435-482.
14. Malouin, F., Richards, C.J.; ***Mental Practice for Relearning Locomotor Skills.*** Physical Therapy 2010; Volume 90: 240.
15. Medved V.; ***Measurement of Human Locomotion.*** Lewis Publishers Inc; 2000.
16. Perry J.; ***Gait Analysis: Normal and Pathological Function.*** Slack Inc; 1992.
17. Sekiya N., Nagasaki H., Ito H. Furuna T.; ***Optimal walking in terms of variability in step length.*** J Orthop Sports Physical Therapy 1997; 26: 266-272.
18. Simoneau G.G.; ***Kinesiology of Walking.*** In: Neumann DA. Kinesiology of the Musculoskeletal System: Foundations for Physical Rehabilitation. St Louis, Mo: Mosby Inc; 2002: 523-569. **SECTION FIVE: Recommended References***7_5_ _*
19. Smidt G.L.; ***Hip motion and related factors in walking.*** Physical Therapy 1971; 51:9-21.
20. Thurston A.J., Harris J.D.; ***Normal kinematics of the lumbar spine and pelvis.*** Spine. 1983; 8: 199-205.

## GAIT BIBLIOGRAPHY


21. Whittle M.W.; ***Gait Analysis: An Introduction.*** 4th edition Oxford, England: Butterworth-Heinemann; 2007.

22. Yekutiel M.P.; ***The role of vertebral move movement in gait: implications for manual therapy.*** J Manual Manipulative Ther. 1994; 2:22-27.

23. White DK1, et al.. **Can Change in Prolonged Walking Be Inferred From a Short Test of Gait Speed Among Older Adults Who Are Initially Well-Functioning?** Phys Ther. 2014 May 1

24. Sung PS., **A kinematic analysis for shoulder and pelvis coordination during axial trunk rotation in subjects with and without recurrent low back pain**. Gait Posture. 2014 Jun 16. pii: S0966-6362(14)00601-8. doi: 10.1016/j.gaitpost.2014.06.001.

25. Brown SR1, Brughelli M, Hume PA. **Knee Mechanics During Planned and Unplanned Sidestepping: A Systematic Review and Meta-Analysis.** Sports Med. 2014 Jul 12.

26. Jo Armour Smith, PT, PhD1, John M. Popovich, Jr., PT, PhD2, Kornelia Kulig, PT, PhD, FAPTA1, **The Influence of Hip Strength on Lower-Limb, Pelvis, and Trunk Kinematics and Coordination Patterns During Walking and Hopping in Healthy Women,** *J Orthop Sports Phys Ther 2014;44(7):525–531. Epub 10 May 2014. doi:10.2519/jospt.2014.5028*

27. Teng HL[1], Powers CM Influence of Trunk Posture on Lower Extremity Energetics during Running. Med Sci Sports Exerc. 2014 Jul 7.

28. Nagai K1, Aoyama T, Yamada M, Izeki M, Fujibayashi S, Takemoto M, Nishiguchi S, Tsuboyama T, Neo M., **Quantification of changes in gait characteristics associated with intermittent claudication in patients with lumbar spinal stenosis.,** J Spinal Disord Tech. 2014 Jun;27(4):E136-42. doi: 10.1097/BSD.0b013e3182a2656b.

29. Schubert AG1, Kempf J1, Heiderscheit BC2., **Influence of stride frequency and length on running mechanics: a systematic review.** Sports Health. 2014 May;6(3):210-7. doi: 10.1177/1941738113508544.

30. Lorimer AV1, Hume PA., **Achilles Tendon Injury Risk Factors Associated with Running.** Sports Med. 2014 Jun 5.

31. Maria Constantinou, BPhty, MPhtySt (Sports)[1], Rod Barrett, PhD[1], Mark Brown, BAppSc (Phty), MHSc (Sports Phty)[1,2], Peter Mills, PhD[1] Spatial-Temporal Gait Characteristics in Individuals With Hip Osteoarthritis: A Systematic Literature Review and Meta-analysis, *Journal of Orthopaedic & Sports Physical Therapy, 2014,* Volume: 44 Issue: 4 Pages: 291-B7 doi:10.2519/jospt.2014.4634

32. Gait Posture. 2013 May;38(1):125-31. doi: 10.1016/j.gaitpost.2012.10.022. Epub 2012 Dec 8.

33. Van Caekenberghe I1, Segers V, Willems P, Gosseye T, Aerts P, De Clercq D., **Mechanics of overground accelerated running vs. running on an accelerated treadmill.,** Gait Posture. 2013 May;38(1):125-31. doi: 10.1016/j.gaitpost.2012.10.022. Epub 2012 Dec 8.

**34.** Gehring D, Mornieux G, Fleischmann J, Gollhofer A., **Knee and Hip Joint Biomechanics are Gender-specific in Runners with High Running Mileage.,** Int J Sports Med. 2014 Feb;35(2):153-8. doi: 10.1055/s-0033-1343406. Epub 2013 Jul 18.

35. Ertelt T., **Walking with chronic non-specific low back pain - A failed strategy: What can we learn from sports?** , Med Hypotheses. 2014 Feb 23. pii: S0306-9877(14)00078-4. doi: 10.1016/j.mehy.2014.02.018.

**36.** Houck JR[1], Duncan A, De Haven KE., **Comparison of frontal plane trunk kinematics and hip and knee moments during anticipated and unanticipated walking and side step cutting tasks.** , Gait Posture. 2006 Nov;24(3):314-22. Epub 2005 Nov 15.

**37.** Duffell LD1, Southgate DF2, Gulati V3, McGregor AH3. **, Balance and gait adaptations in patients with early knee osteoarthritis.,** Gait Posture. 2014 Jan 19. pii: S0966-6362(14)00021-6. doi: 10.1016/j.gaitpost.2014.01.005.

**38.** Breine B1, Malcolm P, Frederick EC, De Clercq D., **Relationship between Running Speed and Initial Foot Contact Patterns.,** Med Sci Sports Exerc. 2014 Feb 5.

**39.** Stearne SM, et al., **Joint kinetics in rearfoot versus forefoot running: implications of switching technique Medicine and Science in Sports and Exercise, 02/06/2014**

**40.** Wearing SC, et al., **Running shoes increase Achilles tendon load in walking: an acoustic propagation study Medicine and Science in Sports and Exercise, 02/06/2014**

**41.** Lugade V1, Kaufman K2., **Center of pressure trajectory during gait: A comparison of four foot positions.,** Gait Posture. 2013 Dec 27. pii: S0966-6362(13)00718-2. doi: 10.1016/j.gaitpost.2013.12.023.

**42.** Ota S1, Ueda M2, Aimoto K3, Suzuki Y3, Sigward SM4., **Acute influence of restricted ankle dorsiflexion angle on knee joint mechanics during gait.** , Knee. 2014 Jan 30. pii: S0968-0160(14)00009-X. doi: 10.1016/j.knee.2014.01.006.

**43.** Nam SJ1, Kim MJ2, Yim SJ3, Oh DW4, Park HJ5, Kim CY6., **Influence of walking speed on electromyographic activity of the rectus abdominis and erector spinae during high-heeled walking.,**

**44.** J BackBonacci J, Vicenzino B, Spratford W, Collins P Musculoskelet Rehabil. 2014 Feb 20. **Take your shoes off to reduce patellofemoral joint stress during running.** Br J Sports Med. 2013 Jul 13. doi: 10.1136/bjsports-2013-092160.

**45.** Lenhart RL, Thelen DG, Wille CM, Chumanov ES, Heiderscheit BC. **Increasing Running Step Rate Reduces Patellofemoral Joint Forces.** Med Sci Sports Exerc. 2013 Aug 2.

**46.** Engström P, Tedroff K. The prevalence and course of idiopathic toe-walking in 5-year-old children. Pediatrics. 2012 Aug;130(2):279-84. doi: 10.1542/peds.2012-0225. Epub 2012 Jul 23.

**47.** van Poppel D, Scholten-Peeters GG, van Middelkoop M, Verhagen AP. **Prevalence, incidence and course of lower extremity injuries in runners during a 12-month follow-up period.,** Scand J Med Sci Sports. 2013 Aug 19. doi: 10.1111/sms.12110.

**48.** Hof AL, Duysens J. **Responses of human hip abductor muscles to lateral balance perturbations during walking.** Exp Brain Res. 2013 Aug 10.

**49.** Donald Lee Goss, PT, PhD, OCS, ATC **, A Comparison of Negative Joint Work and Vertical Ground Reaction Force Loading Rates in Chi Runners and Rearfoot-Striking Runners,** *J Orthop Sports Phys Ther 2013;43(10):685–692. Epub 9 September 2013. doi:10.2519/jospt.2013.4542*

**50.** McCarthy C, Fleming N, Donne B, Blanksby B. **12 Weeks of Simulated Barefoot Running Changes Foot-Strike Patterns in Female Runners.** Int J Sports Med. 2013 Sep 18.

**51.** **Michael Ryan Examining injury risk and pain perception in runners using minimalist footwear** *Br J Sports Med* doi:10.1136/bjsports-2012-092061

**52.** Rooney BD, Derrick TR. Joint contact loading in forefoot and rearfoot strike patterns during running. J Biomech. 2013 Sep 3;46(13):2201-6. doi: 10.1016/j.jbiomech.2013.06.022. Epub 2013 Jul 30.

**53.** Williams PT. **Effects of running and walking on osteoarthritis and hip replacement risk.** Med Sci Sports Exerc. 2013 Jul;45(7):1292-7. doi: 10.1249/MSS.0b013e3182885f26.

**54.** Boyer ER, Rooney BD, Derrick TR. **Rearfoot and Midfoot/Forefoot Impacts in Habitually Shod Runners.** Med Sci Sports Exerc. 2013 Dec 2.

**55.** Nikolajsen H, **Gait pattern in 9-11-year-old children with generalized joint hypermobility compared with controls; a cross-sectional study.,** BMC Musculoskelet Disord. 2013 Dec 5;14(1):341.

**56.** Sureeporn Uthaikhup **The effects of head movement and walking speed on gait parameters in patients with chronic neck pain☆ Manual Therapy , 11/05/2013**

57. Louw M, Deary C. **The biomechanical variables involved in the aetiology of iliotibial band syndrome in distance runners - A systematic review of the literature** Phys Ther Sport. 2013 Aug 15. pii: S1466-853X(13)00066-7. doi: 10.1016/j.ptsp.2013.07.002.