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#### **Article Reference**

# Medical Myth: "Wait and See" in Early Childhood Development (Page 32)

- Center on the Developing Child Harvard University https://developingchild.harvard.edu/
- InBrief: The Science of Early Childhood Development https://developingchild.harvard.edu/resources/inbrief-science-of-ecd/
- "Promoting Optimal Development: Identifying Infants and Young Children with Development Disorders through Developments Surveillance and Screening." Pediatrics (2020) 145 (1): e20193449. https://doi.org/10.1542/peds.2019-3449
- Workgroup on Principles and Practices in Natural Environments, OSEP TA Community of Practice: Part C Settings. (2008, March). Agreed Upon Mission and Key Principles for Providing Early Intervention Services in Natural Environments. http://ectacenter.org/~pdfs/topics/families/Finalmissionandprinciples3 11 08.pdf
- Public Law 108-446, Section 635(a)(1)- (5) https://ies.ed.gov/ncser/pdf/pl108-446.pdf

#### **Environmental Medicine: Impact of Climate Change on Health (Page 36)**

- 1. https://www.who.int/news-room/fact-sheets/detail/climate-change-and-health
- 2. <a href="https://www.cnbc.com/2022/06/14/air-pollution-takes-2-years-off-your-life-more-than-smoking-or-alcohol.html">https://www.cnbc.com/2022/06/14/air-pollution-takes-2-years-off-your-life-more-than-smoking-or-alcohol.html</a>
- 3. Rundell KW. Effect of Air Pollution on Athlete Health and Performance. *British Journal of Sports Medicine* 2012;**46:**407-412. <a href="https://pubmed.ncbi.nlm.nih.gov/22267572/">https://pubmed.ncbi.nlm.nih.gov/22267572/</a>
- 4. Carlisle AJ, Sharp NCC. Exercise and Outdoor Ambient Air Pollution. *British Journal of Sports Medicine* 2001;**35**:214-222. <a href="https://bjsm.bmj.com/content/35/4/214">https://bjsm.bmj.com/content/35/4/214</a>
- 5. Adepoju, O. E., Han, D., Chae, M., Smith, K. L., Gilbert, L., Choudhury, S., & Woodard, L. (2021). Health Disparities and Climate Change: The Intersection of Three Disaster Events on Vulnerable Communities in Houston, Texas. *International Journal of Environmental Research and Public Health*, 19(1), 35. https://doi.org/10.3390/ijerph19010035
- 6. https://factor.niehs.nih.gov/2021/5/community-impact/climate-change/index.htm
- 7. <a href="https://www.nih.gov/sites/default/files/research-training/initiatives/climate-change/nih-climate-change-framework.pdf">https://www.nih.gov/sites/default/files/research-training/initiatives/climate-change/nih-climate-change-framework.pdf</a>

- 8. https://aseq-ehaq.ca/wp-content/uploads/2020/07/Taking-an-Exposure-History-CH2OPD2.pdf
- 9. https://ecoamerica.org/wp-content/uploads/2017/03/5 ea 15 steps.pdf

#### No Sugarcoating: Educating Patients through Diabetic Myths (Page 40)

- 1. American Diabetes Association https://www.diabetes.org/healthy-living/recipes-nutrition
- 2. Steinberg J, Carlson L. Type 2 Diabetes Therapies: A STEPS Approach. *Am Fam Physician*. 2019;99(4):237-243. https://pubmed.ncbi.nlm.nih.gov/30763055/
- 3. Umpierre D, Ribeiro PA, Kramer CK, Leitão CB, Zucatti AT, Azevedo MJ, Gross JL, Ribeiro JP, Schaan BD. Physical Activity Advice Only or Structured Exercise Training and Association with HbA1c Levels in Type 2 Diabetes: A Systematic Review and Meta-analysis. JAMA. 2011 May 4;305(17):1790-9. doi: 10.1001/jama.2011.576. PMID: 21540423.

### Is Rest Really the Best Treatment for Concussions? (Page 42)

- 1. McCrory P, Johnston K, Meeuwisse W, et al. Summary and Agreement Statement of the 2nd International Conference on Concussion in Sport, Prague 2004. *Br J Sports Med.* 2005;39:i78–i86. <a href="https://pubmed.ncbi.nlm.nih.gov/15793085/">https://pubmed.ncbi.nlm.nih.gov/15793085/</a>
- 2. McCrory P, Meeuwisse W, Johnston K, et al. Consensus Statement on Concussion in Sport 3rd International Conference on Concussion in Sport Held in Zurich, November 2008. *Clin J Sport Med.* 2009;19:185–200. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2707064/
- Marshall S, Bayley M, McCullagh S, Velikonja D, Berrigan L. Clinical Practice Guidelines for Mild Traumatic Brain Injury and Persistent Symptoms. Can Fam Physician. 2012;58(3):257-67, e128-40. https://pubmed.ncbi.nlm.nih.gov/22518895/
- 4. McCrory P, Meeuwisse WH, Aubry M, et al. Consensus Statement on Concussion in Sport: The 4th International Conference on Concussion in Sport Held in Zurich, November 2012. *Br J Sports Med.* 2013;47:250–8. https://pubmed.ncbi.nlm.nih.gov/23479479/
- 5. Majerske CW, Mihalik JP, Ren D, et al. Concussion in Sports. *J Athl Train*. 2008;43(3):265-274. https://pubmed.ncbi.nlm.nih.gov/18523563/
- Thomas DG, Apps JN, Hoffmann RG, et al. Benefits of Strict Rest after Acute Concussion: A Randomized Controlled Trial. *Pediatrics*. 2015;135:213–23. <a href="https://pubmed.ncbi.nlm.nih.gov/25560444/">https://pubmed.ncbi.nlm.nih.gov/25560444/</a>
- 7. Grool AM, Aglipay M, Momoli F, et al. Association Between Early Participation in Physical Activity Following Acute Concussion and Persistent Postconcussive Symptoms in Children and Adolescents. *JAMA*. 2016;316(23):2504-2514. https://pubmed.ncbi.nlm.nih.gov/27997652/

- 8. DiFazio DiFazio M, Silverberg ND, KirkwoodMW, Bernier R, Iverson GL. Prolonged Activity Restriction after Concussion. *Clin Pediatr* (Phila). 2016;55(5):443-451. https://pubmed.ncbi.nlm.nih.gov/26130391/
- Leddy JJ, Master CL, Mannix R, et al. Early Targeted Heart Rate Aerobic Exercise Versus Placebo Stretching for Sport-related Concussion in Adolescents: A Randomized Controlled Trial. *The* Lancet Child & Adolescent Health. 2021;5(11):792-799. <a href="https://pubmed.ncbi.nlm.nih.gov/34600629/">https://pubmed.ncbi.nlm.nih.gov/34600629/</a>
- Schneider KJ, Leddy JJ, Guskiewicz KM, et al. Rest and treatment/rehabilitation following sportsrelated concussion: a systematic review. *Br J Sports Med.* 2017;51:930–934. https://pubmed.ncbi.nlm.nih.gov/28341726/
- 11. Bezherano I, Haider MN, Willer BS, Leddy JJ. Practical Management: Prescribing Subsymptom Threshold Aerobic Exercise for Sport-Related Concussion in the Outpatient Setting, *Clin J Sport Med.* 2021;31(5):465-468. <a href="https://pubmed.ncbi.nlm.nih.gov/32058454/">https://pubmed.ncbi.nlm.nih.gov/32058454/</a>
- 12. Silverberg ND, Iverson GL, McCrea M, Apps JN, Hammeke TA, Thomas DG. Activity-Related Symptom Exacerbations After Pediatric Concussion. *JAMA Pediatr.* 2016;170(10):946–953. https://pubmed.ncbi.nlm.nih.gov/27479847/
- Purcell LK, Davis GA, Gioia GA. What Factors Must Be Considered in "Return to School" Following Concussion and What Strategies or Accommodations Should be Followed? A Systematic Review. Br J Sports Med. 2018;53(4):250-250. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8891162/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8891162/</a>
- 14. Corwin DJ, Zonfrillo MR, Master CL, et al. Characteristics of Prolonged Concussion Recovery in a Pediatric Subspecialty Referral Population. *J Pediatr*. 2014;165:1207–15. https://pubmed.ncbi.nlm.nih.gov/25262302/

## **Breastfeeding Misconceptions (Page 44)**

- Drugs and Lactation Database (LactMed) https://www.ncbi.nlm.nih.gov/books/NBK501922/
- 2. Centers for Disease Control, *Breastfeeding* https://www.cdc.gov/breastfeeding/index.htm
- Institute for the Advancement of Breastfeeding and Lactation Education, "Providing Human Milk: Does It Really Matter?" <a href="https://thepixelfarm.com/iable/membercontent/BFHandouts/iable\_bf-ed\_breastfeeding\_lactation\_human\_milk\_important.pdf">https://thepixelfarm.com/iable/membercontent/BFHandouts/iable\_bf-ed\_breastfeeding\_lactation\_human\_milk\_important.pdf</a>
- 4. Institute for the Advancement of Breastfeeding and Lactation Education, "Alcohol Use During Lactation." <a href="https://thepixelfarm.com/iable/membercontent/BFHandouts/iable\_bf-ed\_alcohol\_breastfeeding.pdf">https://thepixelfarm.com/iable/membercontent/BFHandouts/iable\_bf-ed\_alcohol\_breastfeeding.pdf</a>

- Vekemans, M. "Postpartum Contraception: The Lactational Amenorrhea Method". Our J Contract Repro Health Care. 1997. <a href="https://www.researchgate.net/publication/257690045">https://www.researchgate.net/publication/257690045</a> Postpartum contraception
- 6. Centers for Disease Control, *Breastfeeding*, "Supporting Families with Relactation" <a href="https://www.cdc.gov/breastfeeding/breastfeeding-special-circumstances/supporting-families-with-relactation.html">https://www.cdc.gov/breastfeeding/breastfeeding-special-circumstances/supporting-families-with-relactation.html</a>

### Does Weightlifting Make You Bulky? (Page 50)

- Wayne Scott, Jennifer Stevens, Stuart A Binder–Macleod, Human Skeletal Muscle Fiber Type Classifications, *Physical Therapy*, Volume 81, Issue 11, 1 November 2001, Pages 1810– 1816, <a href="https://doi.org/10.1093/ptj/81.11.1810.">https://doi.org/10.1093/ptj/81.11.1810.</a>
- Schoenfeld, B. J. (2010). The Mechanisms of Muscle Hypertrophy and their Application to Resistance Training. *The Journal of Strength & Conditioning Research*, 24(10), 2857-2872. <a href="https://pubmed.ncbi.nlm.nih.gov/20847704/">https://pubmed.ncbi.nlm.nih.gov/20847704/</a>
- 3. Grgic, J., Schoenfeld, B. J., & Mikulic, P. (2021). Effects of Plyometric vs. Resistance Training on Skeletal Muscle Hypertrophy: A Review. *Journal of Sport and Health Science*, *10*(5), 530-536. <a href="https://pubmed.ncbi.nlm.nih.gov/32579911/">https://pubmed.ncbi.nlm.nih.gov/32579911/</a>
- Schoenfeld, B. J., Grgic, J., & Krieger, J. (2019). How Many Times Per Week Should a Muscle be Trained to Maximize Muscle Hypertrophy? A Systematic Review and Meta-analysis of Studies Examining the Effects of Resistance Training Frequency. *Journal of sports sciences*, 37(11), 1286-1295. <a href="https://pubmed.ncbi.nlm.nih.gov/30558493/">https://pubmed.ncbi.nlm.nih.gov/30558493/</a>
- Del Vecchio, A., Casolo, A., Negro, F., Scorcelletti, M., Bazzucchi, I., Enoka, R., ... & Farina, D. (2019). The Increase in Muscle Force after 4 Weeks of Strength Training is Mediated by Adaptations in Motor Unit Recruitment and Rate Coding. *The Journal of physiology*, 597(7), 1873-1887. https://pubmed.ncbi.nlm.nih.gov/30727028/
- Talar, K., Hernández-Belmonte, A., Vetrovsky, T., Steffl, M., Kałamacka, E., & Courel-Ibáñez, J. (2021). Benefits of Resistance Training in Early and Late Stages of Frailty and Sarcopenia: A Systematic Review and Meta-analysis of Randomized Controlled Studies. *Journal of Clinical Medicine*, 10(8), 1630. https://pubmed.ncbi.nlm.nih.gov/33921356/
- McCarthy, O., Moser, O., Eckstein, M. L., Deere, R., Bain, S. C., Pitt, J., & Bracken, R. M. (2019). Resistance isn't Futile: The Physiological Basis of the Health Effects of Resistance Exercise in Individuals with Type 1 Diabetes. Frontiers in Endocrinology, 10, 507. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6688119/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6688119/</a>

- 8. Landrigan, J. F., Bell, T., Crowe, M., Clay, O. J., & Mirman, D. (2020). Lifting Cognition: A Meta-analysis of Effects of Resistance Exercise on Cognition. *Psychological research*, *84*(5), 1167-1183. https://pubmed.ncbi.nlm.nih.gov/30627769/
- 9. Gordon, B. R., McDowell, C. P., Hallgren, M., Meyer, J. D., Lyons, M., & Herring, M. P. (2018). Association of Efficacy of Resistance Exercise Training with Depressive Symptoms: Meta-analysis and Meta-regression Analysis of Randomized Clinical Trials. *JAMA psychiatry*, 75(6), 566-576. <a href="https://pubmed.ncbi.nlm.nih.gov/29800984/">https://pubmed.ncbi.nlm.nih.gov/29800984/</a>
- Mcleod, J. C., Stokes, T., & Phillips, S. M. (2019). Resistance Exercise Training as a Primary Countermeasure to Age-related Chronic Disease. *Frontiers in Physiology*, 645. https://pubmed.ncbi.nlm.nih.gov/31244666/

# Is 10,000 Steps Really the Golden Number? (Page 52)

- 1. Tudor-Locke, Catrine, and David R. Bassett. "How Many Steps/Day are Enough?." *Sports medicine* 34.1 (2004): 1-8. <a href="https://ijbnpa.biomedcentral.com/articles/10.1186/1479-5868-8-79">https://ijbnpa.biomedcentral.com/articles/10.1186/1479-5868-8-79</a>
- 2. Welk, Gregory J., et al. "The Utility of the Digi-walker Step Counter to Assess Daily Physical Activity Patterns." *Medicine and science in sports and exercise* 32.9; SUPP/1 (2000): S481-S488. https://pubmed.ncbi.nlm.nih.gov/10993418/
- Hatano, Yoshiro. "Use of the Pedometer for Promoting Daily Walking Exercise." ICHPER 29
  (1993): 4-8.
   https://www.scirp.org/(S(i43dyn45teexjx455qlt3d2q))/reference/ReferencesPapers.aspx?ReferenceID=454558
- 4. Swartz, Ann M., et al. "Increasing Daily Walking Improves Glucose Tolerance in Overweight Women." *Preventive medicine* 37.4 (2003): 356-362.

  <a href="https://www.academia.edu/19309796/Effect">https://www.academia.edu/19309796/Effect</a> of teammates on changes in physical activity in a statewide campaign
- 5. Yuenyongchaiwat K. Effects of 10,000 Steps a Day on Physical and Mental Health in Overweight Participants in a Community Setting: A Preliminary Study. Braz J Phys Ther. 2016 Jul-Aug;20(4):367-73. doi: 10.1590/bjpt-rbf.2014.0160. Epub 2016 Jun 16. PMID: 27556393; PMCID: PMC5015672. https://pubmed.ncbi.nlm.nih.gov/27556393/
- Saint-Maurice PF, Troiano RP, Bassett DR Jr, Graubard BI, Carlson SA, Shiroma EJ, Fulton JE, Matthews CE. Association of Daily Step Count and Step Intensity With Mortality Among US Adults. JAMA. 2020 Mar 24;323(12):1151-1160. doi: 10.1001/jama.2020.1382. PMID: 32207799; PMCID: PMC7093766. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7093766/
- Sugiura, Hiroko, et al. "Effects of Long-term Moderate Exercise and Increase in Number of Daily Steps on Serum Lipids in Women: Randomized Controlled Trial [ISRCTN21921919]." BMC Women's Health 2.1 (2002): 1-8. <a href="https://www.researchgate.net/publication/11514204">https://www.researchgate.net/publication/11514204</a> Effects of longterm moderate exercise and increase in number of daily steps on serum lipids in women Randomised controlled trial ISRCTN21921919

- 8. Iwane, Masataka, et al. "Walking 10,000 Steps/Day or More Reduces Blood Pressure and Sympathetic Nerve Activity in Mild Essential Hypertension." *Hypertension Research* 23.6 (2000): 573-580.
  - https://pubmed.ncbi.nlm.nih.gov/11131268/#:~:text=Our%20results%20indicate%20that%20walking,nerve%20activity%20in%20hypertensive%20patients.
- Yamanouchi, Kunio, et al. "Daily Walking Combined with Diet Therapy is a Useful Means for Obese NIDDM Patients Not Only to Reduce Body Weight but Also to Improve Insulin Sensitivity." *Diabetes care* 18.6 (1995): 775-778.
   <a href="https://www.researchgate.net/publication/15642619\_Daily\_Walking\_Combined\_with\_Diet\_Therapy\_Is\_a\_Useful Means\_for Obese\_NIDDM\_Patients\_Not\_Only\_to\_Reduce\_Body-Weight\_but\_Also\_to\_Improve\_Insulin\_Sensitivity</a>
- 10. Lee I, Shiroma EJ, Kamada M, Bassett DR, Matthews CE, Buring JE. Association of Step Volume and Intensity With All-Cause Mortality in Older Women. *JAMA Intern Med.* 2019;179(8):1105–1112. doi:10.1001/jamainternmed.2019.0899. https://pubmed.ncbi.nlm.nih.gov/31141585/
- Paluch AE, Gabriel KP, Fulton JE, et al. Steps per Day and All-Cause Mortality in Middle-aged Adults in the Coronary Artery Risk Development in Young Adults Study. *JAMA Netw Open.* 2021;4(9):e2124516. doi:10.1001/jamanetworkopen.2021.24516. https://pubmed.ncbi.nlm.nih.gov/34477847/
- Piercy KL, Troiano RP, Ballard RM, et al. The Physical Activity Guidelines for Americans. JAMA. 2018;320(19):2020–2028. doi:10.1001/jama.2018.14854. https://pubmed.ncbi.nlm.nih.gov/30418471/