

- K.E. Adolph & J.E. Hoch (2019). Motor development: Embodied, embedded, enculturated, and enabling. *Annual Review of Psychology*, 70, 141–164.
- K.E. Adolph & S.R. Robinson (2015). Motor development. In R.M. Lerner (Ed.), *Handbook of child psychology and developmental science*, vol. 2, 7th ed. New York: Wiley, 113–157.
- APA (2023a). *American Psychological Association, dictionary*. Retrieved from www.apa.org/cephalocaudal.
- APA (2023b). *American Psychological Association, dictionary*. Retrieved from www.apa.org/organogenesis.
- APA (2023c). *American Psychological Association, dictionary*. Retrieved from www.apa.org/proximodistal.
- B.S. Bloom (1956). *Taxonomy of educational objectives: Handbook I. Cognitive domain*. New York: McKay.
- L.J. Borstelmann (1983). Children before psychology. In W. Kessen (Ed.), *Handbook of child psychology*. Vol. 1:History, theory, and methods, 4th ed. New York: Wiley.
- S. Bredekamp & C. Copple (1997). *Developmentally appropriate practice in early childhood programs*, Rev. ed. Washington, DC: National Association for the Education of Young Children.
- J.E. Clark & J.S. Metcalfe (2002). The mountain of motor development: A metaphor. In J.E. Clark & J. Humphrey (Eds.), *Motor development: Research and reviews*. Reston, VA: NASPE Publications, 163–190.
- J.E. Clark & J. Whitall (1989). What is motor development? The lessons of history. *Quest*, 41, 183–202.
- J.E. Clark & J. Whitall (2021). Motor development: A perspective in the past, present, and the future. *Kinesiology Review*, 10(3), 264–273.
- C. Darwin (1877). A biographical sketch of an infant. *Mind*, 2, 285–294.
- F.J. Dye (2017). *Dictionary of stem cells, regenerative medicine and translational medicine*. Hoboken, NJ: Wiley Blackwell.
- A. Gesell (1928). *Infancy and human growth*. New York: Macmillan.
- J. Goodway, J.C. Ozmun, & D.L. Gallahue (2020). *Understanding motor development: Infants, children, adolescents, adults*, 8th ed. Boston, MA: Jones & Bartlett.
- J.F. Keogh (1977). *The study of movement skill development*. *Quest*, 28, 76–88.

- N.C. Kephart (1960). *The slow learner in the classroom*. Columbus, OH: Merrill.
- R.M. Malina, C. Bouchard, & O. Bar-Or (2004). *Growth, maturation, and physical activity*, 2nd ed. Champaign, IL: Human Kinetics.
- M. McGraw (1935). *Growth: A study of Johnny and Jimmy*. New York: Appleton-Century-Crofts.
- Motor Development Task Force (1995). *Looking at physical education from a developmental perspective: A guide to teaching*. Reston, VA: National Association for Sports and Physical Education.
- NAEYC (National Association for the Education of Young Children) (2009). *Developmentally appropriate practice in early childhood programs serving children from birth through age 8: Position statement*, 1–32. Retrieved from www.naeyc.org/files/naeyc/file/positions/PSDAP.pdf.
- NAEYC (National Association for the Education of Young Children) (2023). *Developmentally appropriate practice position statement*. Retrieved from <https://www.naeyc.org/resources/position-statements/dap/contents>.
- K.M. Newell (1986). Constraints on the development of coordination. In M.G. Wade & H.T.A. Whiting (Eds.), *Motor development in children: Aspects of coordination and control* (pp. 341–361). Amsterdam: Nijhoff.
- M.A. Roberton (1988). The weaver's loom: A developmental metaphor. In J.E. Clark & J.H. Humphrey (Eds.), *Advances in motor development research*, vol. 2. New York: AMS Press, 129–141.
- M.A. Roberton (1989). Motor development: Recognizing our roots, charting our future. *Quest*, 41, 213–223.
- M. Shinn (1900). *The biography of a baby*. Boston, MA: Houghton Mifflin.
- F.L. Smoll (1982). Developmental kinesiology: Toward a subdiscipline focusing on motor development. In J.S. Kelso & J.E. Clark (Eds.), *The development of movement control and coordination*. New York: Wiley.
- E. Thelen (1987). The role of motor development in developmental psychology: A view of the past and an agenda for the future. In N. Eisenberg (Ed.), *Contemporary topics in developmental psychology*. New York: Wiley, 3–33.

- J.R. Thomas & K. Thomas (1984). Planning kiddie research: Little kids but big problems. In J.R. Thomas (Ed.), *Motor development during childhood and adolescence*. Minneapolis, MN: Burgess.
- UNICEF (2023). *For every child/neonatal mortality, data*. Retrieved from www.unicef.org/topic/child-survival/neonatal-mortality.
- D. Venes (Ed.) (2017). *Taber's cyclopedic medical dictionary*. Philadelphia, PA: F.A. Davis.
- J. Whittall (2009). Research on children: New approaches to answer old questions, but is this sufficient? *Quest*, *61*, 93–107.
- G. Xu, L. Strathearn, B. Liu, M. O'Brien, T. Kopelman, J. Zhu, et al. (2019). Prevalence and treatment patterns of autism spectrum disorder in the United States 2016. *JAMA Pediatrics*, *173*, 153–159.
- C. Zampella, L. Wang, M. Haley, A. Hutchinson, & de Marchena (2021). Motor skill differences in autism spectrum disorder: A clinically focused review. *Current Psychiatry Reports*, *23*, 1–11, doi.org/10.1007/s11920-021-01280-6.

- C. Álvarez-Bueno, C. Pesce, I. Cavero-Redondo, M. Sánchez-López, J.A. Martínez-Hortelano, & V. Martínez-Vizcaíno (2017a). The effect of physical activity interventions on children's cognition and metacognition: A systematic review and meta-analysis. *Journal of the American Academy of Child and Adolescent Psychiatry*, *56*, 729–738.
- C. Álvarez-Bueno, C. Pesce, I. Cavero-Redondo, M. Sánchez-López, M. Garrido-Miguel, & V. Martínez-Vizcaíno (2017b). Academic achievement and physical activity: A meta-analysis. *Pediatrics*, *56*, 729–738, doi.org/ 10.1542/peds.2017-1498.
- P.K. Arlin (1975). Cognitive development in adulthood: A fifth stage? *Developmental Psychology*, *11*, 602–606.
- R. Bendayan, A.M. Piccinin, S.M. Hofer, D. Cadar, B. Johansson, & G. Muniz-Terrera (2017). Decline in memory, visuospatial ability, and crystallized cognitive abilities in older adults: Normative aging or terminal decline? *Journal of Aging Research*, *2017*, doi.org/10.1155/2017/6210105.
- K.S. Berger (2019). *Developing person through the lifespan*, 11th ed. New York: Worth.
- Y. Chang, C. Pan, F. Chen, C. Tsai, & C. Huang (2012). Effect of resistance-exercise training on cognitive function in healthy older adults: A review. *Journal of Aging and Physical Activity*, *20*, 497–517, doi.org/10.1123/japa.20.4.497.
- W.C. Cheung, S. Shen, & H. Meadan (2022). Correlation between motor, socio-emotional skills, and academic performance between young children with and without disabilities. *Journal of Developmental and Physical Disabilities*, *34*, 211–231, doi.org/10.1007/s10882-021-09796-8.
- J.E. Clark & J. Whittall (2021). Motor development: A perspective in the past, present, and the future. *Kinesiology Review*, *10*(3), 264–273.
- J.W. De Greef, R.J. Bosker, J. Oosterlan, C. Visscher, & E. Hartman (2018). Effects of physical activity on executive functions, attention and academic performance in preadolescent children: A meta-analysis. *Journal of Science and Medicine in Sport*, *21*, 501–507.
- D.K. Ehlers, E.A. Salerno, S. Aguiñaga, & E. McCauley (2018). Physical activity interventions: Effects on well-being outcomes in older adults. In E. Diener, S. Oishi, & L. Tay (Eds.), *Handbook of well-being*. Salt Lake City, UT: DEF Publishers, 714–729, doi:nobashcolar.com.

- Z. Fathirezaie, S. Matos, E. Khodadadeh, F.M. Clemente, G. Badicu, A.F. Silva, et al. (2022). The relationship between executive functions and gross motor skills in rural children aged 8–10 years. *Healthcare*, *10*, 616, doi.org/10.3390/healthcare10040616.
- V.R. Fernandes, M.L. Scipião Ribeiro, T. Melo, P. de Tarso Maciel-Pinheiro, T.T. Guimarães, N.B. Araújo, et al. (2016). Motor coordination correlates with academic achievement and cognitive function in children. *Frontiers in Psychology*, *15*(7), 318, doi.org/10.3389/fpsyg.2016.00318.
- P. Flores, E. Coelho, & M.I. Mourão-Carvalho (2023). Association between motor and math skills in preschool children with typical development: Systematic review. *Frontiers in Psychology, Movement Science and Sport Psychology*, *14*, doi.org/10.3389/fpsyg.2023.1105391.
- J. Gatz, A.M. Kelly, & S.L. Clark (2018). Improved executive function and science achievement for at-risk middle school girls in an aerobic fitness program. *The Journal of Early Adolescence*, *39*, 453–469, doi.org/10.1177/02724316187707862018.
- F. Gheysen, L. Poppe, A. DeSmet, S. Swinnen, G. Cardon, I. De Bourdeaudhuij, et al. (2018). Physical activity to improve cognition in older adults: Can physical activity programs enriched with cognitive challenges enhance the effects? A systematic review and meta-analysis. *International Journal of Behavioral Nutrition and Physical Activity*, *15*(1), 63, doi.org/10.1186/s12966-018-0697-x.
- Y. Hakamata, S. Mizukami, S. Izawa, H. Okamura, K. Mihara, H. Marusak, et al. (2022). Implicit and explicit emotional memory recall in anxiety and depression: Role of basolateral amygdala and cortisol-norepinephrine interaction. *Psychoneuroendocrinology*, *136*, 105598.
- M. Hamer, G. Terrera, & P. Demakakos (2018). Physical activity and trajectories in cognitive function: English Longitudinal Study of Ageing. *Journal of Epidemiology and Community Health*, *72*, 477–483, doi.org/10.1136/jech-2017-210228.
- H. Heppe, A. Kohler, M.T. Fleddermann, & D. Zentgraf (2016). The relationship between expertise in sports, visuospatial, and basic cognitive skills. *Frontiers of Psychology*, *7*, doi.org/10.3389/fpsyg.2016.00904.
- A.F. Kramer & S. Colcombe (2018). Effects on the cognitive function of older adults: A meta-analytic study—Revisited. *Perspectives on*

Psychological Science, 13,213–217,
doi.org/10.1177/1745691617707316.

- X. Liu, G. Wang, & Y. Cao (2023). Association of nonpharmacological interventions for cognitive function in older adults with mild cognitive impairment: A systematic review and network meta-analysis. *Aging Clinical and Experimental Research*, 35, 463–478, doi.org/10.1007/s40520-022-02333-3.
- N.E. Logan, D.A. Henry, C.H. Hillman, & A.F. Kramer (2022). Trained athletes and cognitive function: A systematic review and meta-analysis. *International Journal of Sport and Exercise Psychology*, 21, 725–749, doi.org/10.1080/1612197X.2022.2084764.
- Medical News Today (2023). *What are Piaget's stages of development, and what are examples of each.* Retrieved from www.medicalnewstoday.com/articles/325030.
- Q. Meng, H. Yin, S. Wang, B. Shang, X. Meng, M. Yan, et al.(2022). The effect of combined cognitive intervention and physical exercise on cognitive function in older adults with mild cognitive impairment: A meta-analysis of randomized controlled trials. *Aging Clinical and Experimental Research*, 34, 261–276, doi.org/10.1007/s40520-021-01877-0.
- N.C.J. Müller, L. Genzel, B.N. Konrad, M. Pawlowski, D. Neville, G. Fernández, et al. (2016). Motor skills enhance procedural memory formation and protect against age-related decline. *PLOS One*, 11(6), e0157770, doi.org/10.1371/journal.pone.0157770.
- B.M. Newman & P.R. Newman (2018). *Development through life: A psychosocial approach*, 13th ed. Boston, MA: Cengage.
- J.M. Northey, N. Cherbuin, K.L. Pumpa, D.J. Smee, & B. Rattray (2018). Exercise interventions for cognitive function in adults older than 50: A systematic review with meta-analysis. *British Journal of Sports Medicine*, 52, 154–160, doi.org/10.1136/bjsports-2016-096587.
- E.J. Oosterhuis, K. Slade, P.J.C. May, & H.E. Nuttall (2022). Toward an understanding of healthy cognitive aging: The importance of lifestyle in cognitive reserve and the scaffolding theory of aging and cognition. *The Journals of Gerontology: Series B*, 78, 777–788,doi.org/10.1093/geronb/gbac197.
- L.B. Raine, S.C. Kao, D. Pindus, D.R. Westfall, T.T. Shigeta, N. Logan, et al. (2018). A large-scale reanalysis of childhood fitness and inhibitory control. *Journal of Cognitive Enhancement*, 2(2), 170–192, doi.org/10.1007/s41465-018-0070-7.

- K. Rehfeld, P. Müller, N. Aye, M. Schmicker, M. Dordevic, J. Kaufmann, A. Hökelmann, & N.G. Müller (2017). Dancing or fitness sport? The effects of two training programs on hippocampal plasticity and balance abilities in healthy seniors. *Frontiers in Human Neuroscience*, *11*, doi.org/10.3389/fnhum.2017.00305.
- C. Rominger, M. Schneider, A. Fink, U.S. Tran, C.M. Perchtold-Stefan, & A.R. Schwerdtfeger (2022). Acute and chronic physical activity increases creative ideation performance: A systematic review and multilevel meta-analysis. *Sports Medicine – Open*, *8*(1), 62, doi.org/10.1186/s40798-022-00444-9.
- A.D. Roseborough, L. Saad, M. Goodman, L.E. Cipriano, V.C. Hachinski, & S.N. Whitehead (2022). White matter hypertensities and longitudinal cognitive decline in cognitively normal populations and across diagnostic categories: A meta-analysis, systematic review, and recommendations for future study harmonization. *The Journal of the Alzheimer's Association*, *19*, 194–207, doi.org/10.1002/alz.12642.
- D.R. Shaffer & K. Kipp (2014). *Developmental psychology: Childhood and adolescence*, 9th ed. Boston, MA: Cengage.
- C.K. Sigelman & E.A. Rider (2022). *Life-span human development*, 10th ed. Boston, MA: Cengage.
- M.A. Winstanley (2023). Stages in theory and experiment. Fuzzy-structuralism and Piagetian stages. *Integrative Psychological and Behavioral Science*, *57*, 151–173, doi.org/10.1007/s12124-022-09702-7.
- L. Xu, H. Gu, X. Cai, Y. Zhang, X. Hou, J. Yu, & T. Sun (2023). The effects of exercise for cognitive function in older adults: A systematic review and meta-analysis of randomized controlled trials. *International Journal of Environmental Research and Public Health*, *20*(2), 1088, doi.org/10.3390/ijerph20021088.

- A. Ali, M. Azam, & N.A.K. Khaskheli (2022). Psychosocial health, recreational participation and perceived barriers to leisure-time physical activity among widows: Evidence from the city of Bahawalpur, Pakistan. *International Journal of Physical Education and Sports Sciences*, 6, 58–71.
- American Academy of Pediatrics (2019). Selecting appropriate toys for young children in the digital era. *Pediatrics*, 143, 2018–3348, doi.org/10.1542/peds.
- American Academy of Pediatrics (2021). *Power of play in early childhood*. Retrieved from <https://www.aap.org/en/patient-care/early-childhood/early-childhood-health-and-development/power-of-play/#:~:text=Play%20is%20also%20critical%20to,learn%20different%20skills%20through%20play>.
- American Psychological Association (2023a). Norm. *APA Dictionary*. Retrieved from <https://dictionary.apa.org/gender-role>.
- American Psychological Association (2023b). *APA Dictionary*. Retrieved from <https://dictionary.apa.org/norm>.
- American Psychological Association (2023c). Social role. *APA Dictionary*. Retrieved from <https://dictionary.apa.org/social-role>.
- A.E. Bauman, R.S. Reis, J.F. Sallis, J.C. Wells, R.J.F. Roos, & B.W. Martin (2012). Correlates of physical activity: Why are some people physically active and others not? *The Lancet*, 380, 258–271.
- K.M. Becofsky, R.P. Shook, S. Xuemei, S. Wilcox, C.J. Lavie, & S.N. Blair (2015). Influence of the source of social support and size of social network on all-cause mortality. *Mayo Clinic Proceedings*, 90, 895–902, doi.org/10.1016/j.mayocp.2015.04.007.
- D. Bergen (2014). Foundations of play theory. In L. Brooker, M. Blaise, & S. Edwards (Eds.), *The Sage handbook of play and learning in early childhood*. Los Angeles, CA: Sage, 9–21.
- B.G. Berger & L.M. Hecht (1989). Exercise, aging, and psychological well-being: The mind-body question. In A.C. Ostrow (Ed.), *Aging and motor behavior*. Indianapolis, IN: Benchmark, 117–157.
- B.G. Berger & A. McInman (1993). Exercise and the quality of life. In R.N. Singer, M. Murphey, & L.K. Tennant (Eds.), *Handbook of research on sport psychology*. New York: Macmillan, 729–760.
- L.E. Berk (2023). *Development through the lifespan*, 7th ed. London: Sage.

- J. Brazo-Sayavera, S. Fernandez-Gimenez, E. Pintos-Toledo, C. Corvos, F. Souza-Marabotto, & B. Bizzozero-Peroni (2023). Results from the Uruguay's 2022 report card on physical activity for children and adolescents. *Journal of Exercise Science & Fitness*, *21*, 104–110, doi.org/10.1016/j.jesf.2022.11.005.
- R.L. Brown, A.S. LeRoy, M.A. Chen, R. Suchting, L.M. Jaremka, J. Liu, C. Heijnen, & C.P. Fagundes (2022). Grief symptoms promote inflammation during acute stress among bereaved spouses. *Psychological Science*, *33*, 859–873, doi.org/10.1177/09567976211059502.
- I.M. Carey, S.M. Shah, S. DeWilde, T. Harris, C.R. Victor, & D.G. Cook (2014). Increased risk of acute cardiovascular events after partner bereavement. *Journal of American Medical Association; Internal Medicine*, *174*, 598–605.
- J.L. Carpendale & C. Lewis (2015). The development of social understanding. In R.M. Lerner (Ed.), *Handbook of child psychology and developmental science*, 7th ed. New York: Wiley and Sons, 2, 381–424.
- D. Carr (2023). Ageism and late-life mortality: How community matters. *Social Science and Medicine*, *320*, doi.org/10.1016/j.socscimed.2022.115501.
- T.G. Cavazzotto, N. Gomes de Lima Stavinski, M.R. Queiroga, M. Pereira da Silva, E.S. Cyrino, H.S. Junior, & E.R. Vieira (2022). Age and Sex-related associations between marital status, physical activity and TV time. *International Journal of Environmental Research and Public Health*, *19*, doi.org/10.3390/ijerph19010502.
- Z. Chen, W. Gu, Z. Mo, & X. Zhan (2022). The effect of working memory deficit on social functioning in schizophrenia. Series: Advances in Social Science, Education and Humanities Research, *Proceedings of the 2022 8th International Conference on Humanities and Social Science Research*, doi.org/10.2991/assehr.k.220504.404.
- K. Cheung, S. Askari & M.D. Allen (2023). A novel approach to mitigate muscle atrophy in Guillain-Barre syndrome. *Advanced Neurology*, *2*, doi.org/10.36922/an.280 .
- J. Coakley (2021). *Sports in society: Issues and controversies*, 13th ed. New York: McGraw-Hill.
- B.J. Cratty (1986). *Perceptual and motor development in infants and children*, 3rd ed. Englewood Cliffs, NJ:Prentice-Hall.

- P. Downward, K. Hallmann, & T. Pawlowski (2014). Assessing parental impact on the sports participation of children: A socio-economic analysis of the UK. *European Journal of Sport Sciences*, *14*, 84–90.
- X. Feng, K. Croteau, G.S. Kolt, & T. Astell-Burt (2016). Does retirement mean more physical activity? A longitudinal study. *BMC Public Health*, *16*, 1–7, doi.org/10.1186/s12889-016-3253-0.
- M. Gao, Y. Li, S. Zhang, L. Gu, J. Zhang, L. Zhuojun, et al. (2017). Does an empty nest affect elders' health? Empirical evidence from China. *International Journal of Environmental Research and Public Health*, *14*, doi.org/10.3390/ijerph14050463.
- A. Gentile, S. Boca, & I. Giammusso (2018). 'You play like a woman!' Effects of gender stereotype threat on women's performance in physical and sport activities: A meta-analysis. *Psychology of Sport and Exercise*, *39*, 95–193, doi.org/10.1016/j.psychsport.2018.07.013.
- T.R. Gleason & R.E. White (2023). Pretend play as abstraction: Implications for early development and beyond. *Neuroscience & Biobehavioral Reviews*, *147*, doi.org/10.1016/j.neubiorev.2023.105090.
- J.E. Grusec & M. Davidov (2015). Analyzing socialization from a domain-specific perspective. In J.E. Grusec & P.D. Hastings (Eds.), *Handbook of socialization: Theory and research*, 2nd ed. *New York: Guilford Press*, *2*, 158–181.
- S. Harter (1988). Causes, correlates, and the functional role of global self-worth: A life-span perspective. In J. Killigian & R. Sternberg (Eds.), *Perceptions of competence and incompetence across the life-span*. New Haven, CT: Yale University Press.
- L. He, J. Wang, F. Wang, L. Zhang, Y. Liu, & F. Xu (2022). Depression symptoms and quality of life in empty-nest elderly among Chengdu: A cross-sectional study. *Frontiers in Psychiatry*, *13*, doi.org/10.3389/fpsy.2022.1003261.
- O. Huxhold, M. Miche, & B. Schüz (2014). Benefits of having friends in older ages: Differential effects of informal social activities on wellbeing in middle-aged and older adults. *Gerontology: Psychological and Social Sciences: Series B*, *69*, 366–375.
- M. Lawler, C. Heary, G. Shorter, & E. Nixon (2022). Peer and parental processes predict distinct patterns of physical activity participation among adolescent girls and boys. *International Journal of Sport and Exercise Psychology*, *20*, 497–514, doi.org/10.1080/1612197X.2021.1891118.

- T. Leskinen, K. Suorsa, M. Tuominen, A. Pulakka, J. Pentti, E. Loyttyniemi, J. Vahtera, & S. Stenholm (2021). The effect of consumer-based activity tracker intervention on physical activity among recent retirees—An RCT study. *Medicine and Science in Sports and Exercise*, *53*, 1756–1765, doi.org/10.1249/MSS.0000000000002627.
- V.P. Lopes, S.R. Martins, C. Gonçalves, M.A. Cossio-Bolaños, R. Gómez-Campos, & L.P. Rodrigues (2022). Motor competence predicts self-esteem during childhood in typical development children. *Psychology of Sport and Exercise*, *63*, doi.org/10.1016/j.psychsport.2022.102256.
- A. Mahindru, P. Patil, & V. Agrawal (2023) Role of physical activity on mental health and well-being: A review. *Cureus*, *15*, doi.org/10.7759/cureus.33475.
- M. Makama, W.J. Brown, S. Lim, H. Skouteris, C.L. Harrison, A.E. Joham, et al. (2023). Levels of physical activity and sitting time in women with infants, toddlers and pre-schoolers: A population-based cross-sectional study. *Public Health*, *214*, 1–9, doi.org/10.1016/j.puhe.2022.10.016.
- P. Marconcin, E.R. Gouveia, M. de Maio Nascimento, G. Ferrari, & A. Marques (2023). Mental health conditions and exercise. *Mental Health – Preventive Strategies*, doi.org/10.5772/intechopen.111505.
- J.A. Menkin, J.L. Smith, & G. Bihary (2022). Brief anti-ageism messaging effects on physical activity motivation among older adults. *Journal of Applied Gerontology*, *41*, 478–485, doi.org/10.1177/0733464820960925?
- B.M. Newman & P.R. Newman (2018). *Development through life: A psychosocial approach*, 13th ed. Boston, MA: Cengage.
- S. Nugroho, Sulistiyono, Sumaryanto, Sumarjo, A. Nasrulloh, & K.D. Apriyanto (2023). Comparison of coach leadership, parental involvement, and athlete's enjoyment in Indonesian and Malaysian youth training. *Proceedings of the Unima International Conference on Social Sciences and Humanities*, 172–179, doi.org/10.2991/1978-2-49409-35-0-21.
- U. Orth & R.W. Robins (2022). Is high self-esteem beneficial? Revisiting a classic question. *American Psychologist*, *77*(1), 5–17, doi.org/10.1037/amp0000922.
- K.B. Owen, T. Nau, L.J. Reece, W. Bellew, C. Rose, A. Bauman, N.K. Halim, & B.J. Smith (2022). Fair play? Participation equity in organized sport and physical activity among children and adolescents in high income countries: A systematic review and meta-

- analysis. *International Journal of Behavioral Nutrition and Physical Activity*, 19, doi.org/10.1186/s12966-022-01263-7.S.
- Palomäki, T. Kukko, K. Kaseva, K. Salin, I. Lounassalo, X. Yang, et al. (2022). Parenthood and changes in physical activity from early adulthood to mid-life among Finnish adults. *Scandinavian Journal of Medicine & Science in Sports*, 33, 682–692, doi.org/10.1111/sms.14293.
- C. Pestana (2015). Exploring the self-concept of adults with mild learning disabilities. *British Journal of Learning Disabilities*, 43, 16–23.
- I.K. Rahimah (2022). Implications of parenting patterns in the development of early childhood social attitudes, *International Journal of Reglement and Society*, 3, 122–133, <https://jurnal.bundamedia grup.co.id/index.php/ijrs>.
- F. Rodrigues, T. Faustino, A. Santos, E. Teixeira, & L. Cid (2022). How does exercise make you feel? The association between positive and negative affect, life satisfaction, self-esteem, and vitality. *International Journal of Sport and Exercise Psychology*, 20, 813–827, doi.org/10.1080/1612197X.2021.1907766.
- F. Rodrigues, D. Monteiro, & V.P. Lopes (2023). The mediation role of perceived benefits and barriers in the relationship between support provided by significant others and physical activity of adolescents. *Perceptual and Motor Skills*, 130, 902–922, doi.org/10.1177/00315125231151780.
- K.H. Rubin, W.M. Bukowski, & J.C. Bowker (2015). Children in peer groups. In R.M. Lerner (Ed.), *Handbook of child psychology and developmental science*, 7th ed. New York: Wiley, 4, 175–222.
- E. Saemi, E. Moteshareie, S. Jalilinasab, S. Afrash, & M. Deshayes (2023). Gender stereotypes and motor performance: How explicit and implicit stereotypes influence girls standing long jump and anxiety. *Psychology of Sport and Exercise*, 64, doi.org/10.1016/j.psychsport.2022.102334.
- T. Schluchter, S. Nagel, S. Valkanover, & M. Eckhart (2023). Correlations between motor competencies, physical activity and self-concept in children with intellectual disabilities in inclusive education. *Journal of Applied Research in Intellectual Disabilities*, 36, 1054–1066, doi.org/10.1111/jar.13115.
- K.Q. Scott-Andrews, R.E. Hasson, A.L. Miller, T.J. Templin, & L.E. Robinson (2022). Associations between physical activity and gross motor skills in parent–child dyads. *Journal of Motor Learning and Development*, 10(3), 485–503.

<https://journals.humankinetics.com/view/journals/jmld/10/3/article-p485.xml>.

- A.J. Scott (2021). The longevity society. *The Lancet Healthy Longevity*, 2, 820–827, doi.org/10.1016/S2666–7568(21)00247-6.
- L.A. Soares, L.P. Lima, A.C.N. Prates, A.N. Arrieiro, L.A. Da Costa Teixeira, T.C. Duarte, et al. (2023). Accuracy of handgrip and respiratory muscle strength in identifying sarcopenia in older, community-dwelling, Brazilian women. *Scientific Reports*, 13, 1553, doi.org/10.1038/s41598-023-28549-5.
- R.J. Sonstroem & W.P. Morgan (1989). Exercise and self-esteem. Rationale and model. *Medicine and Science in Sports and Exercise*, 21, 329–337, doi.org/10.1249/00005768-198906000-00018.
- S. Stahl & R. Schulz (2014). The effect of widowhood on husbands' and wives' physical activity: The cardiovascular health study. *Journal of Behavioral Medicine*, 37(4), 806–817.
- S. Stenholm, A. Pulakka, I. Kawachi, T. Oksanen, J. Halonen, V. Aalto, et al. (2016). Changes in physical activity during transition to retirement: A cohort study. *International Journal of Behavioral Nutrition and Physical Activity*, 13, Article 51, doi.org/10.1186/s12966-016-0375–9.
- J. Syrda (2017). The impact of marriage and parenthood on male body mass index: Static and dynamic effects. *Social Science and Medicine*, 186, 148–155.
- USDHHS (U.S. Department of Health and Human Services), Office of Disease Prevention and Health Promotion (n.d.). *Healthy people 2030*. Retrieved from www.health.gov/healthypeople.
- N. Vansweevelt, F. Boen, J. van Uffelen, & J. Seghers (2022). Socioeconomic differences in physical activity and sedentary behavior during the retirement transition: A systematic review of longitudinal studies. *Journal of Physical Activity and Health*, 19, 623–637, doi.org/10.1123/jpah.2022–0196.
- E.M. Winpenny, M. Smith, T. Penney, C. Foubister, J. M. Guagliano, R. Love, et al. (2020). Changes in physical activity, diet, and body weight across the education and employment transitions of early adulthood: A systematic review and meta-analysis. *Obesity Reviews – Behavioral Physiology/Developmental Biology*, 21, doi.org/10.1111/obr.12962.
- D. Zamorano-Garcia, A. Infantes-Paniagua, R. Cuevas-Campos, & J.G. Fernandez-Bustos (2023). Impact of physical activity-based interventions on children and adolescents' physical self-concept: A

meta-analysis. *Research Quarterly for Exercise and Sport*, 94, 1–14,
doi.org/10.1080/02701367.2021.1927945.

- J.B. Adams, J.K. Kirby, J.C. Sorensen, E.L. Pollard, & T. Audhya (2022). Evidence based recommendations for an optimal prenatal supplement for women in the US: Vitamins and related nutrients. *Maternal Health, Neonatology and Perinatology*, 8(4), 1–37, doi.org/10.1186/s40748-022-00139-9.
- L.S. Alger (2000). Common viral infections. In W.R. Cohen (Ed.), *Cherry and Merkatz's complications of pregnancy*, 5th ed. Baltimore, MD: Lippincott Williams & Wilkins.
- American Academy of Pediatrics (2000). Changing concepts of sudden infant death syndrome: Implications for infant sleeping environment and sleep position. *Pediatrics*, e(3),650–656.
- American College of Obstetricians and Gynecologists (ACOG) (2002). *Pregnancy: Illegal drugs and pregnancy*. Washington, DC: American College of Obstetricians and Gynecologists Patient Education, Pamphlet AP104.
- American College of Obstetricians and Gynecologists (ACOG) (2013). Weight gain during pregnancy—Reaffirmed. ACOG committee opinion no. 548. *Obstetrics and Gynecology*, 121, 210–212.
- American College of Obstetricians and Gynecologists (ACOG) (2020). Physical activity and exercise during pregnancy and the postpartum period. ACOG committee opinion no. 804 *Obstetrics and Gynecology*, 135, e178–e188.
- American College of Sports Medicine (2021). *ACSM's guidelines for exercise testing and prescription*, 11th ed. Philadelphia, PA: Lippincott Williams & Wilkins.
- American Lung Association (2018). *Learn about cystic fibrosis*. Retrieved from www.lung.org/lung-health-and-disease/lung-disease-lookup/cystic-fibrosis/learn-about-cystic-fibrosis.html.
- American Pregnancy Association (2010). *Triple marker*. Retrieved from www.americanpregnancyassociation.org.
- American Pregnancy Association (2023). *Medication and pregnancy*. Retrieved from www.americanpregnancy.org/healthy-pregnancy/medication/medication-and-pregnancy.
- R. Arendt, J. Angelopoulos, A. Salvator, & L. Singer (1999). Motor development of cocaine-exposed children at age two years. *Pediatrics*, 103, 86.
- O. Awe, J.M. Sinkway, R.P. Chow, Q. Wagener, E.V. Schultz, J.Y. Yu, et al. (2020). Differential regulation of a placental SAM68 and

- sFLT1 gene pathway and the relevance to maternal vitamin D sufficiency. *Pregnancy Hypertension*, 22, 196–203, doi.org/10.1016/j.preghy.2020.09.004.
- F. Bareket, A. Eliakim, R. Dotan, D.G. Liebermann, R. Regev, & O. Bar-Or (1997). Birth weight and physical ability in 5- to 8-year-old healthy children born prematurely. *Medicine and Science in Sports and Exercise*, 29, 1124–1130.
- C.D. Bendor, A. Bardugo, R.S. Ratem, E. Derazne, H.C. Gerstein, D. Tzur, et al. (2022). Glucose intolerance in pregnancy and offspring obesity in late adolescence. *Diabetes Care*, 45(7), 1540–1548, doi.org//10.2337/dc21–2634.
- V. Berghella & G. Saccone (2017). Exercise in pregnancy! *American Journal of Obstetrics and Gynecology*, 216(4), 335–337, doi.org/10.1016/j.ajog.2017.01.023.
- M. Cai, B. Zhang, R. Yang, T. Zheng, G. Dong, H. Lin, et al. (2021). Association between national outdoor exercise and risk of preterm birth: A case control study in Wuhan, China. *BMC Pregnancy and Childbirth*, 21(206), doi.org/10.1186/s12884-021-03678-9.
- Center for Behavioral Health Statistics and Quality (2017). *2016 National survey on drug use and health: Detailed tables*. Rockville, MD: Substance Abuse and Mental Health Services Administration. Retrieved from www.samhsa.gov/data/sites/default/files/NSDUH-DetTabs-2016/NSDUH-DetTabs-2016.pdf.
- Centers for Disease Control and Prevention (CDC) (2009). Notice to readers: New CDC materials regarding fetal alcohol spectrum disorders. *Morbidity and Mortality Weekly Report*, 58, 403.
- Centers for Disease Control and Prevention (2015a). Alcohol use and binge drinking among women of childbearing age – United States, 2011–2013. *Morbidity and Mortality Weekly Report*, 64, 1042–1046.
- Centers for Disease Control and Prevention (2018a). *Treating for two: Medicine and pregnancy*. Retrieved from www.cdc.gov/pregnancy/meds/treatingfortwo/facts.html.
- Centers for Disease Control and Prevention (2018b). *Toxoplasmosis: Epidemiology & risk factors*. Retrieved from www.cdc.gov/parasites/toxoplasmosis/epi.html.
- Centers for Disease Control and Prevention (2019). *Progress erased: Youth tobacco use increased from 2017–2018*. Retrieved from www.cdc.gov/media/releases/2019/p0211-youth-tobacco-use-increased.html.

- Centers for Disease Control and Prevention (2020). *Rubella in the U.S.* Retrieved from www.cdc.gov/rubella/about/in-the-us.html.
- Centers for Disease Control and Prevention (2022a). *Understanding the opioid overdose epidemic.* Retrieved from www.cdc.gov/opioids/basics/epidemic.html.
- Centers for Disease Control and Prevention (2022b). *Toxoplasmosis: Pregnancy FAQs.* Retrieved from www.cdc.gov/parasites/toxoplasmosis/gen_info/pregant.html.
- Centers for Disease Control and Prevention (2023). *Data and statistics on FASDs.* Retrieved from www.cdc.gov/ncbddd/fasd/data.html#:~:text=Using%20medical%20and%20other%20records,areas%20of%20the%20United%20States.&text=The%20most%20recent%20CDC%20study,to%209%20years%20of%20age.
- M.H. Davenport, V.L. Meah, S. Ruchat, G.A. Davies, R.J. Skow, N. Barrowman, et al. (2018). Impact of prenatal exercise on neonatal and childhood outcomes: A systematic review and meta-analysis. *British Journal of Sports Medicine*, 52, 1386–1396.
- J.F. de Kieviet, J.P. Piek, C.S. Aarnoudse-Moens, & J. Oosterlaan (2009). Motor development in very preterm and very low-birth-weight children from birth to adolescence. *Journal of the American Medical Association*, 302, 2235–2242.
- J.G. Dempsey, C.L. Butler, T.K. Sorensen, I.M. Lee, M.L. Thompson, R.S. Miller, et al. (2004). A case-control study of maternal recreational physical activity and risk of gestational diabetes mellitus. *Diabetes Research and Clinical Practice*, 66, 203–215.
- A. Diez-Izquierdo, C. Lindon-Moyano, & J.M. Martinez-Sanchez (2023). Tobacco smoke is not limited to second-hand smoke. *eBioMedicine*, 87, doi.org/10.1016/j.ebiom.2022.104412.
- A.J. Elliott, H.C. Kinney, R.L. Haynes, J.D. Dempers, C. Wright, W.P. Fifer, et al. (2020). Concurrent prenatal drinking and smoking increases risk from SIDS: Safe passage study report. *eClinicalMedicine*, 19, doi.org/10.1016/j.eclinm.2019.100247.
- A.S. Gentzke, M. Creamer, K.A. Cullen, B.K. Ambrose, G. Willis, A. Jamal, et al. (2019). Vital signs: Tobacco product use among middle and high school students – United States, 2011–2018. *Morbidity and Mortality Weekly Report*, 68, 157–164.
- M.S. Gold (1995). *Drugs of abuse: A comprehensive series for clinicians: Tobacco.* New York: Plenum Medical Book Company.

- L.K. Gosdin, N.P. Deputy, S.Y. Kim, E.P. Dang, & C.H. Denny (2022). Alcohol consumption and binge drinking during pregnancy among adults aged 18–49years – United States, 2018–2020. *MMWR Morbidity and Mortality Weekly Report*, 71(1), 10–13.
- M. Hack, H. Taylor, N. Klein, R. Eiben, C. Schalschneider, & N. Mercuri-Minich (1994). School-age outcomes in children with birth weights under 750g. *New England Journal of Medicine*, 331, 753–759.
- J.E. Hall (2015). *Guyton and Hall textbook of medical physiology*, 13th ed. Philadelphia, PA: Saunders.
- R.W. Harms (2012). Is it safe to take aspirin during pregnancy? *Mayo Clinic*. Retrieved from www.mayoclinic.org/healthy-lifestyle/pregnancy-week-by-week/expert-answers/aspirin-during-pregnancy/faq-20058167.
- M. Hayman, W.J. Brown, A. Brandon, E.T. Budzynski-Seymour, T. Bruce, & K.R. Evenson (2023). Public health guidelines for physical activity during pregnancy from around the world: A scoping review. *British Journal of Sports Medicine*, 57, 940–947, doi.org/10.1136/bjsports-2022-105777.
- S.K. Head, L. Doamekpor, E.M. South, C. Louie, S. Zakharkin, K. Vasisht, et al. (2023). Behaviors related to medication safety and use during pregnancy. *Journal of Women's Health*, 32(1), 47–56, doi.org/10.1089/jwh.2022.0205.
- Institute of Medicine (2009). *Weight gain during pregnancy: Reexamining the guidelines*. Washington, DC: The National Academies Press.
- J.D. Interrante, E.C. Ailes, J.N. Lind, M. Anderka, M.M. Werier, L.G. Taylor, et al. (2017). Risk comparison for prenatal use of analgesics and selected birth defects, national birth defects prevention study 1997–2011. *Annals of Epidemiology*, 27, 645–653.
- L.D. Isaacs & R. Pohlman (1988, October). Motor development and performance concerns regarding individuals of low birth weight. *Paper presented at the meeting of the Motor Development Research Consortium*, University of Illinois, Urbana.
- A.P. Johnson, P. Townsend, P. Yudkin, D. Bull, & A.R. Wilkinson (1993). Functional abilities at age 4years of children born before 29weeks of gestation. *British Medical Journal*, 306, 1715–1718.
- K. LeDoare, R. Bland, & M.L. Newell (2012). Neurodevelopment in children born to HIV-infected mothers by infection and treatment status. *Pediatrics*, 130, 1326–1344.

- B. Lewis, M. Avery, E. Jennings, N. Sherwood, B. Martinson, & A.L. Crain (2008). The effect of exercise during pregnancy on maternal outcomes: Practical implications for practice. *American Journal of Lifestyle Medicine*, 2, 441–455.
- K.G. Lie (1994). Sensitivity of perceptual motor measures for very low birth weight (VLBW >1500g) preschoolers. *Child Care Health Development*, 20, 239–249.
- E.M. Mahabee-Gittens, E.M. Kline-Fath, N. Harun, A.T. Folger, L. He, & N.A. Parikh (2023). Prenatal tobacco smoke exposure and risk of brain abnormalities on magnetic resonance imaging at term in infants born very preterm. *Journal of Obstetrics & Gynecology*, 5(3), doi.org/10.1016/j.ajogmf.2022.100856.
- E.M. Mahabee-Gittens, A.L. Merianos, & G.E. Matt (2018). Preliminary evidence that high levels of nicotine on children’s hands may contribute to overall tobacco smoking exposure. *BMF Tobacco Control*, 27, 217–219.
- A. Malek & D.R. Mattison (2011). Drugs and medication in pregnancy: The placental disposition of opioids. *Current Pharmacological Biotechnology*, 12, 797–803.
- March of Dimes (2019). *Neonatal abstinence syndrome (NAS)*. Retrieved from www.marchofdimes.org/find-support/topics/planning-baby/neonatal-abstinence-syndrome-nas.
- T. Marino (2015). HIV in pregnancy. *Medscape*. Retrieved from www.emedicine.medscape.com/article/1385488-overHIVinpregnancy.
- J.P. Martineaud, A. Samb, L. Gueel, D. Seck, L. Badji, & F. Cisse (2002). Exercise performance in young subjects with sickle cell disease. *Scripta Medica*, 75, 111–117.
- V. Martinez-Vizcaino, G. Sanabria-Martinez, R. Fernander-Rodriguez, I. Cavero-Redondo, C. Pascuai-Morena, C. Alvarez-Bueno, et al. (2023). Exercise during pregnancy for preventing gestational diabetes mellitus and hypotensive disorders: An umbrella review of randomized controlled trials and an updated meta-analysis. *British Journal of Obstetrics and Gynecology*, 130(3), 264–275, doi.org/10.1111/1471-0528.17304.
- Mayo Clinic (2019). *Amniocentesis*. Retrieved from www.mayoclinic.org/tests-procedures/amniocentesis/about/pac-20392914.

- Mayo Clinic (2023). *Ultrasound*. Retrieved from www.mayoclinic.org/tests-procedures/ultrasound/about/pac-20395177.
- Minnesota Department of Health (2022). *Down syndrome (also called Trisomy 21)*. Retrieved from www.health.state.mn.us/diseases/cy/downsyndrome.html.
- Minnesota Department of Health (2023). *Alcohol spectrum disorder*. Retrieved from www.health.state.mn.us/disease/cy/fetalalcohol.html.
- J.L. Montoya, L.M. Campbell, E.W. Paolillo, R.J. Ellis, S.L. Letendre, D.V. Jeste, et al. (2019). Inflammation relates to poorer complex motor performance among adults living with HIV on suppressive antiretroviral therapy. *Journal of Acquired Immune Deficiency Syndromes*, *80*, 15–23.
- K.L. Moore, T.V.N. Persaud, & M.G. Torchia (2019). *Before we are born: Essentials of embryology and birth defects*, 10th ed. Philadelphia, PA: Saunders.
- M.A. Moreno (2017). Prenatal alcohol exposure: No safe amount. *Pediatrics*, *171*(8), 820, doi.org/10.1001/jamapediatrics.2017.1093.
- National Collegiate Athletic Association (2023). *Sickle cell trait*. Retrieved from www.ncaa.org/sports/2016/7/27/sickle-cell-trait.aspx.
- M.J.K. Osterman, B.E. Hamilton, J.A. Martin, A.K. Driscoll, & C.P. Valenzuela (2022). Births: Final data for 2020. *National Vital Statistics Reports*, *70*(17), 1–48, doi.org/10.15620/cdc:112078.
- P.P. Pereira, F.A. Da Mata, A.C. Figueiredo, K. R. de Andrade, & M.G. Pereira (2017). Maternal active smoking during pregnancy and low birth weight in the Americas: A systematic review. *Nicotine & Tobacco Research*, *19*, 497–505.
- K.M. Peter-Marske, K.R. Hesketh, A.H. Herring, D.A. Savitz, C.B. Bradley, & K.R. Evenson (2023). Association between change in physical activity during pregnancy and infant birth weight. *Maternal and Child Health Journal*, *27*, 659–670, doi.org/10.1007/s10995-023-03604-9.
- J.M. Pivarnik & L.M. Mudd (2009). Physical activity during pregnancy and postpartum: What have we learned? *Research Digest*, *10*, 1–8.
- R.L. Pohlman, & L.D. Isaacs (1990). The previously low birth weight infant: Fundamental motor skill outcomes in the 5- to 9-year-old. *Pediatric Exercise Science*, *2*, 263–271.
- A.N. Pows, R.W. Botting, R.W. Cooke, & N. Marlow (1995). Motor impairment in children 12 and 13 years old with a birthweight of less

- than 1250g. *Archives of Disease: Childfetal Neonatal Education*, 73, F62–F66.
- T. Qiongyao, Z. Ying, X. Chenyun, L. Wangya, W. Haiyan, H. Yu, et al. (2022). Effectiveness of five interventions used for prevention of gestational diabetes: A meta-analysis. *Medicine*, 101(15), e29126, doi.org/10.1097/MD.00000000000029126.
- C. Rocha, A. Gouvea, D. Machado, K. Cunegundes, S. Beltrao, F. Bononi, et al. (2005). Neurological findings in a group of children and adolescents exposed and infected by HIV-1. *Arquivos de Neuro-Psiquiatria*, 63, 828–831, doi.org/10.1590/S0004–282X2005000500020
- B. Rodu & N. Plurphanswat (2018). E-cigarette use among adults: Population assessment of tobacco and health (PATH) study. *Nicotine and Tobacco Research*, 20, 940–948.
- L.T. Singer, R. Arendt, S. Minnes, K. Farkas, A. Salvator, H.L. Kirchner, et al. (2002). Cognitive and motor outcomes of cocaine-exposed infants. *Journal of the American Medical Association*, 278, 1952–1960.
- N.E. Stotland, J.S. Haas, P. Brawarsky, R.A. Fuentes-Jackson, E. Afflick, & G.J. Escobar (2005). Body mass index, provider advice, and target gestational weight gain. *Obstetrics and Gynecology*, 105, 633–638.
- P. Sumithran, C. Houlihan, A. Shub, L. Churilov, N. Pritchard, S. Price, et al. (2018). How common is substantial weight gain after pregnancy? *Obesity Research & Clinical Practice*, 12, 139–145.
- K.K. Synajder, D.M. Teti, & K.H. Kjerulff (2022). Maternal use of acetaminophen during pregnancy and neurobehavioral problems in offspring at 3years. A prospective cohort study. *PloSONE*, 17(9), doi.org/10.1371/journal.pone.0272593.
- L.M. Szymanski & A.J. Satin (2012). Exercise during pregnancy: Fetal responses to current public health guidelines. *Obstetrics & Gynecology*, 119, 603–610.
- V. Terlizz, C. Castellani, G. Taccetti, & B. Ferrari (2022). Dornase alfa in cystic fibrosis: Indications, comparative studies and effects on lung clearance index. *Italian Journal of Pediatrics*, 48(141), doi.org/10.1186/s13052-022-01331-5.
- Y.N. Truong, L.M. Yee, A.B. Caughey, & Y.W. Cheng (2015). Weight gain in pregnancy: Does the Institute of Medicine have it right? *American Journal of Obstetrics & Gynecology*, 212, 362.e1–362.e8, doi.org/10.1016/j.ajog.2015.01.027

- D.A. Ulrich & B.D. Ulrich (1999, March). Treadmill training facilitates the onset of walking in infants with Down syndrome. *Paper presented at the 1nd annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities*, Charleston, SC.
- D.A. Ulrich, B.D. Ulrich, R.M. Angulo-Kinzler, & J. Yun (2001). Treadmill training of infants with Down syndrome: Evidence-based developmental outcomes. *Pediatrics*, *108*, Article e84. Retrieved from www.pediatrics.org/cgi/content/full/108/5/e84.
- U.S. Department of Health and Human Services (2007). *The health consequences of involuntary exposure to tobacco smoke: A report of the Surgeon General, U.S. Department of Health and Human Services*. Retrieved from www.surgeongeneral.gov/library/secondhandsmoke/factsheets/factsheet6.html.
- U.S. Department of Health and Human Services (2018). *Physical activity guidelines for Americans*, 1st ed. Washington, DC: U.S. Department of Health and Human Services.
- S.E. Waisbren, K. Noel, K. Fahrback, C. Cella, D. Frame, A. Dorenbaum, et al. (2007). Phenylalanine blood levels and clinical outcomes in phenylketonuria: A systematic literature review and meta-analysis. *Molecular Genetic Metabolism*, *92*, 63–70.
- Wayne State University Physician Group (2019). *Alpha fetoprotein screening*. Retrieved from www.wsupgdocs.org/family-medicine/waynestatecontentpage.aspx?nd=1727.
- A.C. Wheeler, A. Gwaltney, M. Raspa, K.C. Okoniewski, D. Budimirovic, H.C. Hazlett, et al. (2021). Emergence of developmental delay in infants and toddlers with an FMR1 mutation. *Pediatrics*, *147*(5), doi.org/10.1542/peds.2020-011528.
- J.R. Whittington, P.M. Simmons, A.M. Phillips, S.K. Gammill, R. Cen, E.F. Magann, et al. (2018). The use of electronic cigarettes in pregnancy: A review of the literature. *Obstetrical & Gynecological Survey*, *73*, 544–549.
- N. Wieloch, A. Klostermann, N. Kinnich, J. Sport, & J. Scherr (2022). Sport and exercise recommendations for pregnant athletes: A systematic scoping review. *BML Open Sport & Exercise Medicine*, *8*(4), doi.org/10.1136/bmjsem-2022-001395.
- L. Yang, L. Feng, L. Huang, X. Li, W. Qiu, K. Yang, J. Qui, & H. Li (2023). Maternal factors for intrauterine growth retardation: Systematic

review and meta-analysis of observational studies. *Reproductive Sciences*, 30, 1737–1745, doi.org/10.1007/s43032-021-00756-3.

L.A. Zimmerman, J.K. Knapp, S. Antoni, & S.E. Reef (2022). Progress toward rubella and congenital rubella syndrome control and elimination-Worldwide, 2012–2022. *MMWR Morbidity and Mortality Weekly Report*, 71, 196–201, doi.org/10.15585/mmwr.mm7106a2.

- American Academy of Pediatrics (2023). *Healthy children.org* - Swim lessons: When to start and what parents should know. Retrieved from www.healthychildren.org/English/safety-prevention/at-play/Pages/Swim-Lessons.aspx.centre.
- E. Armstrong-Carter, M.J. Sulik, S. Siyal, A.K. Yousafzai, & J. Obradović (2021). Early and concurrent home stimulation: Unique and indirect links with fine motor skills among 4-year-old children in rural Pakistan. *Developmental Psychology*, 57(6), 888–899, doi.org/10.1037/dev0001185.
- V. Arufe-Giraldez (2023). Can the Doman method improve competence in children of 4years of age? A quasi-experimental study of two physical education programmes in preschool education. *Journal of Human Sport and Exercise*, 18, 509–525, doi.org/10.14198/jhse.2023.182.20.
- L.E. Berk (2018). *Development through the lifespan*, 7th ed. Boston: Pearson.
- California Department of Developmental Services (2023). *Early start*. Retrieved from <https://www.dds.ca.gov/services/early-start/>.
- California Department of Public Health (2023). *Giardiasis*. Retrieved from www.cdph.ca.gov/Programs/CID/DCDC/Pages/Giardiasis.aspx.
- M. Chen & K.L. Chan (2016). Effects of parenting programs on child maltreatment prevention: A meta-analysis. *Trauma, Violence and Abuse*, 17, 88–104, doi.org/10.1177/1524838014566718.
- D. Cicchetti (2016). Socioemotional, personality, and biological development: Illustrations from a multilevel developmental psychopathology perspective on child maltreatment. *Annual Review of Psychology*, 67, 187–211.
- D. Cicchetti & S. Toth (2015). Child maltreatment. In R.M. Lerner (Ed.), *Handbook of child psychology and developmental science*, 7th ed. New York: John Wiley and Sons, Inc, 67, 187–211.
- K. Davis (1946). A final note on a case of extreme isolation. *American Journal of Sociology*, 52, 432–437.
- W. Dennis (1940). *The Hopi child*. New York: Appleton-Century.
- DomanMom.com (2023). About. domanMom.com/about/.
- G. Doman & J. Doman (2005). *How to multiply your baby's intelligence*. Garden City Park, NY: Square One.
- G. Doman & J. Doman (2006). *How to teach your baby to read*. Garden City Park, NY: Square One.

- G. Doman, J. Doman, & S. Aisen (2005). *How to give your baby encyclopedic knowledge*. Garden City Park, NY: Square One.
- G. Doman, D. Doman, & B. Hagy (2006). *How to teach your baby to be physically superb: Birth to age six*. Garden City Park, NY: Square One.
- D. Elkind (2007). *The hurried child: Growing up too fast too soon*. Cambridge, MA: De Capo Press.
- D. Elkind (2015). *Giants in the nursery*. St. Paul: Redleaf Press.
- L.I. Gardner (1972, July). Deprivation dwarfism. *Scientific American*, 227(1), 76–82.
- T. Hiraoka, M. Nishizaki, K. Ueda, & Y. Kondo (2022). Growth recovery lines in children: A comparison between psychosocial short stature and other pathological causes of short stature. *Child Abuse & Neglect*, 123, doi.org/10.1016/j.chiabu.2021.105388.
- W. Hsu, C. Wang, S. Chen, Y. Lu, C. Hu, et al. (2014). Water intoxication and induced status epilepticus in two children. *Journal of Medical Sciences*, 34, 77–80.
- Institutes for the Achievement to Human Potential (IAHP) (2023). Retrieved from <https://iahp.org/well-children/>.
- J.M.G. Itard (1972). First development of the young savage of Abeyron. In W. Dennis (Ed.), *Historical readings in developmental psychology*. New York: Appleton-Century-Crofts.
- S.J. Langendorfer (2019). Revised scientific review: Minimum age for swimming lessons. *International Journal of Aquatic Research and Education*, 10, doi.org/10.25035/ijare.11.03.xx.
- L. Langway, T. Jackson, M. Zabarsky, D. Shirely, & J. Whitmore (1983, March 28). Bringing up superbaby. *Newsweek*, 60–66.
- H. Lee & J.C. Galloway (2012). Early intensive postural and movement training advances head control in very young infants. *Physical Therapy*, 92, 935–947.
- A.R. Levin, C.H. Zeanah, N.A. Fox, & C.A. Nelson (2014). Motor outcomes in children exposed to early psychosocial deprivation. *The Journal of Pediatrics*, 164, 123–129.
- T. Liao, I. Chen, E. Lin, & Y. Huang (2019). A Multidisciplinary team approach to an adopted child with psychosocial Dwarfism: A case report. *Psychosomatics*, 60, 88–92, doi.org/10.1016/j.psych.2018.05.008.
- X. Liu, B. Luo, W. Peng, F. Xiong, F. Yang, & J. Wu (2019). Factors affecting the catch-up growth of preterm infants after discharge in

- China: A multicentre study based on the health belief model. *Italian Journal of Pediatrics*, 45, 87, doi.org/10.1186/s13052-019-0674-2.
- A. Martin, A. Connelly, R.M. Bland, & J.J. Reilly (2016). Health impact of catch-up growth in low-birth weight infants: Systematic review, evidence appraisal, and meta-analysis. *Maternal & Child Nutrition*, 13, doi.org/10.1111/mcn.12297.
- Mayo Clinic (2022a). *Giardia*. Retrieved from www.mayoclinic.org/diseases-conditions/giardia-infection/symptoms-causes/syc-20372786.
- Mayo Clinic (2022b). *Hyponatremia*. Retrieved from www.mayoclinic.org/diseases-conditions/hyponatremia/symptoms-causes/syc-20373711.
- Mayo Clinic (2022c). *Hypothermia*. Retrieved from www.mayoclinic.org/diseases-conditions/hypothermia/symptoms-causes/syc-20352682.
- M. McGraw (1935). *Growth: A study of Johnny and Jimmy*. New York: Appleton-Century-Crofts. (Reprinted in 1975 by Arno Press.)
- C.A. Nelson, C.H. Zeanah, & A. Fox (2019). How early experience shapes human development: The case of psychosocial deprivation. *Neural Plasticity*, 2019, doi.org/10.1155/2019/1676285.
- B.M. Newman & P.R. Newman (2018). *Development through life: A psychosocial approach*, 13th ed. Boston, MA: Cengage.
- New York Times (2013). *Glenn Doman obituary*. Retrieved from www.legacy.com/obituaries/nytimes/obituary.aspx?pid=165110411.
- F. Nottebohm (1970). Ontogeny of bird song. *Science*, 167, 950–956.
- D.R. Patel, N. Soares, & K. Wells (2017). Neurodevelopmental readiness of children for participation in sports. *Translational Pediatrics*, 6, 167–173, doi.org/10.21037/tp.2017.05.03.
- M.R.L. Pedersen, B. Ibsen, D. Dinkel, N.C. Møller, & L. Hestbæk (2023). The effect of a parent-directed program to improve infants' motor skills. *International Journal of Environmental Research and Public Health*, 20, doi.org/10.3390/ijerph20031999.
- A. Prader, J.M. Tanner, & G.A. Von Harnack (1963). Catch-up growth following illness or starvation. *Journal of Pediatrics*, 62, 654–659.
- M. Richards (2017). *Influences of Shinichi Suzuki on Japanese music education*. Thesis. Liberty University. Retrieved from <https://digitalcommons.liberty.edu/honors/655/>.

- B.J. Roeber, M.R. Gunnar, & S.D. Pollak (2013). Early deprivation impairs the development of balance and bilateral coordination. *Developmental Psychobiology*, 56, 1110–1118.
- C. Santos, C. Burnay, C. Button, & R. Cordovil (2023). Effects of exposure to formal aquatic activities on babies younger than 36 months: A systematic review. *International Journal of Environmental Research and Public Health*, 20, doi.org/10.3390/ijerph20085610.
- A. Singhal (2017). Long-term adverse effects of early growth acceleration or catch-up growth. *Annals of Nutrition and Metabolism*, 70, 236–240, doi.org/10.1159/000464302.
- A.P. Sirotnak (2008). Child abuse and neglect: Psychosocial dwarfism. *Emedicine Journal*. Retrieved from www.medscape.com/article/913843-overview.
- A.M. Stern & L.A. Thompson (2022). What parents should know about drowning and dry drowning. *JAMA Pediatrics Patient Page*, 176, doi.org/10.1001/jamapediatrics.2022.1434.
- R.M. Sullivan & M. Opendak (2020). Defining immediate effects of sensitive periods on infant neurobehavioural function. *Current Opinion in Behavioural Sciences*, 36, 106–114, doi.org/10.1016/j.cobeha.2020.08.006.
- S.J. Suomi & H.F. Harlow (1972). Social rehabilitation of isolate-reared monkeys. *Developmental Psychology*, 6, 487–496.
- S.J. Suomi & H.F. Harlow (1978). Early experience and social development in rhesus monkeys. In M.E. Lamb (Ed.), *Social and personality development*. New York: Holt, Rinehart & Winston.
- Suzuki Association of the Americas (2019). *About the Suzuki method*. Retrieved from <https://suzukiassociation.org/about/suzuki-method/shinichi-suzuki/> (accessed February 24, 2019).
- A. Symborski (2023). Suzuki: The man and his dream to teach children of the world, a review. *International Journal of Education and the Arts*, 23, doi.org/10.26209/ijea24r1.
- J.M. Tanner (1978). *Fetus into man: Physical growth from conception to maturity*. Cambridge, MA: Harvard University Press.
- US Department of Education (2022). *Performance plan/annual performance report: Part C (California)*. Retrieved from www.dds.ca.gov/wpcontent/uploads/2022/07/2020_Early_Start_Part_C_Annual_Performance_Report.pdf.

C.L.C. Yin & T.K Yin (2019). A review on the efficacy of physical therapy intervention on motor skills of children with autism spectrum disorder. *Advances in Social Science and Humanities Research*, 388, 328–332.

- P.F. Almeida-Neto, D.G. de Matos, A.D.G. Baxter-Jones, G.R. Batista, V.D.G. Pinto, M. Dantas, et al. (2020). Maturation and lean mass in relation to muscle strength performance in elite young athletes. *Sustainability*, 12(17), 6696, doi.org/10.3390/su12176696.
- O.A. Alrob, S. Sankaralingam, S. Alazzam, B. Nusairat, M. Qattoum, & M.B. Nusair (2023). Obesity paradox among heart failure with reduced ejection fraction patients: A retrospective cohort study. *Medicine*, 59(1), 60, doi.org/10.3390/medicina590110060.
- American College of Obstetricians and Gynecologist (2023a). *The healthy female athlete*. Retrieved from www.acog.org/womens-health/faqs/the-healthy-female-athlete.
- American College of Obstetricians and Gynecologist (2023b). *Osteoporosis: Frequently asked questions*. Retrieved from www.acog.org/womens-health/faqs/osteoporosis.
- American College of Sports Medicine (2021). *ACSM's guidelines for exercise testing and prescription*, 10th ed. Baltimore, MD: Lippincott Williams & Wilkins.
- D.A. Bailey, A.D. Martin, H.A. McKay, S. Whiting, & R. Mirwald (2000). Calcium accretion in girls and boys during puberty: A longitudinal analysis. *Journal of Bone and Mineral Research*, 15, 2245–2250.
- G. Beunen, G. Beul, M. Ostyn, R. Renson, J. Simons, & D. Gerven (1978). Age of menarche and motor performance in girls aged 11 through 18. *Medicine and Sport*, 11, 118–123.
- G. Beunen & R.M. Malina (1988). *Growth and physical performance relative to the timing of the adolescent spurt*. In K.B. Pandolf (Ed.), *Exercise and sport sciences reviews*. New York: Macmillan.
- G. Beunen, R.M. Malina, M.A. Van't Hof, J. Simons, M. Ostyn, R. Renson, et al. (1988). *Adolescent growth and motor performance: A longitudinal study of Belgian boys*. Champaign, IL: Human Kinetics.
- L.A. Burt, D.A. Greene, & G.A. Naughton (2017). Bone health of young gymnasts: A systematic review. *Pediatric Exercise Science*, 29, 456–464.
- J.E.L. Carter (2002). *The Heath-Carter anthropometric somatotype: Instructional manual*. Surrey, Canada: Tep & ROSSCRAFT.
- Centers for Disease Control and Prevention (2022a). *Defining childhood obesity: BMI for children and teens*. Retrieved from www.cdc.gov/obesity/basics/childhood-defining.html.

- Centers for Disease Control and Prevention (2022b). CDC extended BMI-for-age growth charts. *National Center for Health Statistics*. Retrieved from www.cdc.gov/growthcharts/extended-bmi.htm.
- Centers for Disease Control and Prevention (2022c). *Defining adult overweight and obesity*. Retrieved from www.cdc.gov/obesity/basics/adult-defining.html.
- H.H. Clarke (1971). *Physical and motor tests in the Medford Boys' growth study*. Englewood Cliffs, NJ: Prentice-Hall.
- M.A. Clynes, N.C. Harvey, E.M. Curtis, N.R. Fuggle, E.M. Dennison, & C. Cooper (2020). The epidemiology of osteoporosis. *British Medical Bulletin*, *133*(1), 105–117, doi.org/10.1093/bmb/ldaa005.
- P.F. de Almeida, J.A. de Medeiros, R.M.V. Medeiros, A. Baxter-Jones, D.G. de Matos, F.T. Aidar, et al. (2022). Reliability of biological maturation analysis performed by equations predicting skeletal age and peak height velocity with hand and wrist X-ray results. *American Journal of Human Biology*, *34*(9), e23775, doi.org/10.1002/ajhb.23775.
- S. DeBrabandere (2017). *Human body ratios*. *Scientific American*. Retrieved from www.scientificamerican.com/article/human-body-ratios.
- R. Denholm, C. Power, & L. Li (2013). Adverse childhood experiences and child-to-adult height trajectories in the 1958 British birth cohort. *International Journal of Epidemiology*, *42*(5), 1399–1409, doi.org/10.1093/ije/dyt169.
- G.B. Dintiman (2020). *NASE essentials of next-generation sports speed training*. Monterey, CA: Healthy Learning.
- H. Edward, S.A. Marshall, S. Saldana, J.A. Skelton, C.K. Suerken, T.A. Arcury, et al. (2017). Determinants of adiposity rebound timing in children. *Journal of Pediatrics*, *184*, 151–156.
- A. Elbaz, F. Artaud, A. Dugravot, C. Tzourio, & A. Singh-Manoux (2018). The gait speed advantage of taller stature is lost with age. *Scientific Reports*, *18*(1), doi.org/10.1038/s41598-018-19882-1
- D. Feskanich, W. Willett, & G. Colditz (2002). Walking and leisure-time activity and risk of hip fracture in postmenopausal women. *Journal of the American Medical Association*, *288*, 2300–2306.
- M. Fredericson, A. Kussman, M. Misra, M.T. Barrack, M.J. De Souza, E. Karus, et al. (2021). The male athlete triad -A consensus statement from the female and male athlete triad coalition part II: Diagnosis, treatment, and return-to-play. *Clinical Journal of Sport Medicine*, *31*(4), 349–366, doi.org/10.1097/JSM.0000000000000948.

- C.D. Fryar, M.D. Carroll, Q. Gu, M.S. Afful, & C.L. Ogden (2021). Anthropometric reference data for children and adults: United States, 2015–2018. *Vital and Health Statistics*, 3(46), National Center for Health Statistics.
- C.D. Fryar, D. Kruszon-Moran, Q. Gu, M. Carroll, & C.L. Ogden (2021). *Mean body weight, height, waist circumference, and body mass index among children and adolescents: United States, 1999–2018*. no. 160. Hyattsville, MD: National Center for Health Statistics.
- A. Gomez-Bruton, A. Matute-Llorente, A. Matute-Llorente, J.A. Casajus, & V. Vicente-Rodriguez (2017). Plyometric exercise and bone health in children and adolescents: A systematic review. *World Journal of Pediatrics*, 13, 112–121.
- W.W. Greulich & S.I. Pyle (1959). *Radiographic atlas of skeletal development of the hand and wrist*, 1st ed. Palo Alto, CA: Stanford University Press.
- E.P. Gunderson (2009). Childbearing and obesity in women: Weight before, during, and after pregnancy. *Obstetrics and Gynecology Clinics of North America*, 36, 317–332.
- S.S. Guo, C. Huang, L.M. Maynard, E. Demerath, B. Towne, W.C. Chumlea, & R.M. Siervogel (2000). Body mass index during childhood, adolescence and young adulthood in relation to adult overweight and adiposity: The Fels Longitudinal Study. *International Journal of Obesity*, 24, 1628–1635.
- C.J. Hale (1956). Physiologic maturity of Little League baseball players. *Research Quarterly*, 27, 276–284.
- C.M. Hales, D.S. Freedman, L. Akinbami, R. Wei, & C.L. Ogden (2022). Evaluation of alternative body mass index (BMI) metrics to monitor weight status in children and adolescents with extremely high BMI using CDC BMI-for-age growth charts. National Center for Health Statistics. *Vital and Health Statistics*, 2(197), doi.org/10.15620/cdc:121711.
- J.L. Haubenstricker & M.M. Sapp (1980). A longitudinal look at physical growth and motor performance: Implications for elementary and middle school activity programs. *Paper Presented at the Meeting of the American Alliance for Health, Physical Education, Recreation, and Dance*, Detroit, MI.
- C.P. Hawkes, S. Mostoufi-Moab, S.E. McCormack, A. Grimberg, & B.S. Zemel (2020). Leg length and sitting height reference data and charts

- for children in the United States. *Data Brief*, 32, 106131, doi.org/10.1016/j.dib.2020.106131.
- C.P. Hawkes, S. Mostoufi-Moab, S.E. McCormack, A. Grimberg, & B.S. Zemel (2022). Sitting height to standing height ratio reference charts for children in the United States. *The Journal of Pediatrics*, (226), 221–227, doi.org/10.1016/j.jeds.2020.06.051.
- B.H. Heath & J.E.L. Carter (1967). A modified somato-type method. *American Journal of Physical Anthropology*, 27, 57–74.
- A. Ireland, S. Muthuri, J. Rittweger, J.E. Adams, K.A. Ward, D. Kuh, et al. (2017). Later age at onset of independent walking is associated with lower bone strength at fracture-prone sites in older men. *Journal of Bone and Mineral Research*, 32, 1209–1217, doi.org/10.1002/jbmr.3099.
- L.D. Isaacs (1976). *The anatomical changes of the center of gravity during development: Implications to physical education*. Unpublished manuscript, University of Maryland.
- L.C. Ismail, F.A. Puglia, E.O. Ohuma, S.T. Ash, D.C. Bishop, R.M. Carew, et al. (2016). Precision of recumbent crown-heel length when using the infantometer. *BMC Pediatrics*, 16(1), 186, doi.org/10.1186/s12887-016-0725-4.
- S.A. Jackowski, A.D. Baxter-Jones, R. Gruodyte-Raciene, S.A. Kontulainen, & M.C. Erlandson (2015). A longitudinal study of bone area, content, density, and strength development at the radius and tibia in children 4–12 years of age exposed to recreational gymnastics. *Osteoporosis International*, 26, 1677–1690.
- John Hopkins Medicine (2023). *Achondroplasia*. Retrieved from www.hopkinsmedicine.org/health/conditions-and-diseases/skeletal-dysplasia.
- M.A. Jones, P.J. Hitchen, & G. Stratton (2000). The importance of considering biological maturity when assessing physical fitness measures in girls and boys aged 10 to 16 years. *Annals of Human Biology*, 27, 57–65.
- M.K. Karlsson (2007). Does exercise during growth prevent fractures in later life? *Medicine and Sport Science*, 51, 121–136.
- M.K. Karlsson, H.G. Alborg, K. Obrant, F. Nyquist, H. Lindberg, & C. Karlsson (2002). Exercise during growth and young adulthood is associated with reduced fracture risk in old age. *Journal of Bone and Mineral Research*, 17, S297.

- M.K. Karlsson, C. Linden, C. Karlsson, O. Johnell, D. Obrant, & E. Seeman (2000). Exercise during growth and bone mineral density and fractures in old age. *Lancet*, 355, 469–470.
- S.P. Kerssemakers, A.N. Fotiadou, M.C. de Jonge, S.H. Karantanas, & M. Maas (2009). Sport injuries in the paediatric and adolescent patient: A growing problem. *Pediatric Radiology*, 39, 471–484.
- H.J. Khamis & A.F. Roche (1994). Predicting adult stature without using skeletal age: The Khamis-Roche method. *Pediatrics*, 94, 504–507.
- B.D. Kiernan & M. Mascarenhas (2023). Growth assessment and its significance. In J.G. Vachani (Ed.), *Failure to thrive and malnutrition* (pp. 33–72). Cham: Springer, doi.org/10.1007/978-3-031-14164-5_3.
- W.M. Krogman (1959). Maturation age of 55 boys in the Little League world series. *Research Quarterly*, 30, 54–56.
- R.J. Kuczmarski, C.L. Ogden, L.M. Grummer-Strawn, K.M. Flegal, S.S. Guo, R. Wei, et al. (2000). *CDC growth charts: United States advance data from vital and health statistics*. No. 314. Hyattsville, MD: National Center for Health Statistics.
- R.J. Kuczmarski, C.L. Ogden, S.S. Guo, L. M. Grummer-Strawn, K.M. Flegal, Z. Mei, et al. (2002). *CDC growth charts: United States, 2000*. Vital and Health Statistics, National Center for Health Statistics. Washington, DC: Department of Health and Nutrition Services.
- H.D. Lee (2022). The effects of growth hormone treatment on height in short children. *Annals of Pediatric Endocrinology & Metabolism*, 27(1), 1–2, doi.org/10.6065/apem.2221055edi01.
- M.W. Lundblad & B.K. Jacobsen (2017). The reproducibility of self-reported age at menarche: The Tromso study. *BMC Women's Health*, 17(62), doi.org/10.1186/s12905-017-0420-0.
- M. Mages, M. Shoji, M. Kohl, S. von Stengel, C. Becker, M. Gosch, et al. (2021). Exercise effects on bone mineral density in men. *Nutrients*, 13(12), 4244, doi.org/10.3390/nu13124244.
- R.M. Malina (1984). Maturation considerations in elite young athletes. *Proceedings of the 1984 Olympic Scientific Congress*. Eugene, OR.
- R.M. Malina (2012). Body mass index. In Institute of Medicine (Ed.), *Measuring progress in obesity prevention: Workshop report* (pp. 42–48). Washington, DC: The National Academies Press.
- R.M. Malina (2014). Top 10 research questions related to growth and maturation of relevance to physical activity, performance, and fitness. *Research Quarterly for Exercise and Sport*, 85, 157–173.

- R.M. Malina, C. Bouchard, R.F. Shoup, A. Demirjian, & G. Lariviere (1979). Age at menarche, family size, and birth order in athletes at the Montreal Olympic Games, 1976. *Medicine and Science in Sport*, *11*, 354–358.
- R.M. Malina, C. Bouchard, & O. Bar-Or (2004). *Growth, maturation, and physical activity*, 1st ed. Champaign, IL: Human Kinetics.
- I. Manna (2014). Growth development and maturity in children and adolescent: Relation to sports and physical activity. *American Journal of Sports Science and Medicine*, *2*, 48–50.
- C. Marta, D.A. Marinho, & M.C. Marques (2012). Physical fitness in prepubescent children: An update. *Journal of Physical Education and Sport*, *12*, 445–457.
- L.M. Maynard, W.A. Wisemandle, A.F. Roche, W.C. Chumlea, S.S. Guo, & R.M. Siervogel (2001). Childhood body composition in relation to body mass index: The Fels Longitudinal Study. *Pediatrics*, *107*, 344–350.
- B.A. Michel, N.E. Lane, A. Bjorkengren, D.A. Bloch, & J.F. Fries (1992). Impact of running on lumbar bone density: A 5-year longitudinal study. *Journal of Rheumatology*, *19*, 1759–1763.
- J.A. Mitchell, A. Chesi, O. Elci, S.S. McCormack, S.M. Roy, H.J. Kalkwarf, et al. (2016). Physical activity benefits the skeleton of children genetically predisposed to lower bone density in adulthood. *Journal of Bone Mineral Research*, *31*, 1504–1512.
- R. Mohebbi, M. Shojaa, M. Kohl, S.V. Stengel, F. Jakob, K. Kersch-Schindl, et al. (2023). Exercise training and bone mineral density in postmenopausal women: An update systematic review and meta-analysis of intervention studies with emphasis on potential moderators. *Osteoporos International*, *34*, 1145–1178, doi.org/10.1007/s00198-023-06682-1.
- R.W. Nahhas, R.J. Sherwood, W.C. Chumlea, & D.L. Duren (2013). An update of the statistical methods underlying the FELS method of skeletal maturity assessment. *Annals of Human Biology*, *40*(6), 505–514, doi.org/10.3109/03014460.2013.806591.
- National Center for Health Statistics (1974). Body dimensions and proportions: White and Negro children 6–11 years, United States. *Vital and Health Statistics*, ser. 11, no. 143.
- National Center for Health Statistics (2021). Anthropometric reference data for children and adults: United States, 2015–2018. *Vital and Health Statistics*, ser.3, no. 46.

- National Institutes of Health (2018). Aging changes in body shape. *MedlinePlus*. Retrieved from <https://medlineplus.gov/ency/article/003998.htm>.
- A. Nattiv, M.J. DeSauza, K.J. Koltun, M. Misra, A. Kussman, N.I. Williams, et al. (2021). The male athletic triad - A consensus statement from the female and male athletic triad coalition part 1: Definition and scientific basis. *Clinical Journal of Sport Medicine*, 31(4), 335–348, doi.org/10.1097/JSM.0000000000000946.
- C. Nembidzane, M. Lesaoana, K.D. Monyeki, A. Boateng, & P.J. Makgae (2020). Using the SITAR method to estimate age at peak height velocity of children in rural South Africa: Ellis’s longitudinal study. *Children*, 7(3), 17, doi.org/10.3390/children7030017.
- T. Nguyen, Y.N. Ma, & L.T. Nguyen (2021). A knee height equation for estimating height of Vietnamese adults. *Nutrition Today*, 56(6), 306–310, doi.org/10.1097/nt.0000000000000511.
- L.A.F. Olivares, L.D. De Leon, & M.I. Fragoso (2020). Skeletal age prediction model from percentage of adult height in children and adolescents. *Scientific Reports*, 20, 15768, doi.org/10.1038/s41598-020-72835-5.
- N.C. Onland-Moret, P.H. Peeters, C.H. van Gils, F. Clavel-Chapelon, T. Key, & A. Tjonneland (2005). Age at menarche in relation to adult height: The EPIC study. *American Journal of Epidemiology*, 162(7), 623–632.
- M. Ostyn, J. Simons, G. Beunen, R. Renson, & D. Van Gerven (Eds.) (1980). *Motor development of Belgian secondary schoolboys*. Leuven: Leuven University Press.
- C.C. Quatman-Yates, C.E. Quatman, A.J. Meszaros, M.V. Paterno, & T.E. Hewett (2012). A systematic review of sensorimotor function during adolescence: A developmental stage of increase motor awkwardness? *British Journal of Sports Medicine*, 46, 649–655.
- B. Ramraj, V.M. Subramanian, & G. Vijaykrishnan (2021). Study on age of menarche between generations and factors associated with it. *Clinical Epidemiology and Global Health*, 11, 100758, doi.org/10.1016/j.cegh.2021.100758.
- A.F. Roche (1979). The measurement of skeletal maturation. In F.E. Johnston, A.F. Roche, & C. Susanne (Eds.), *Human physical growth and maturation*. New York: Plenum Press.

- A.F. Roche (1992). *Growth, maturation and body composition: The Fels longitudinal study 1929–1991*. Cambridge: Cambridge University Press.
- A.F. Roche, W.C. Chumlea, & D. Thissen (1988). Assessing the skeletal maturity of the hand-wrist: Fels method. Springfield, IL: Thomas.
- A.F. Roche & J.H. Himes (1980). Incremental growth charts. *American Journal of Clinical Nutrition*, *33*, 2041–2052.
- A.F. Roche & R.M. Malina (Eds.) (1983). *Manual of physical status and performance in childhood*. Vol. 1. New York: Plenum Press.
- A.F. Roche & S.S. Sun (2003). *Human growth: Assessment and interpretation*. Cambridge: Cambridge University Press.
- A.F. Roche, H. Wainer, & D. Thissen (1975). Predicting adult stature for individuals. *Pediatrics*, *3*, 1–115.
- R.L. Rooney & C.W. Schauburger (2002). Excess pregnancy weight gain and long-term obesity: One decade later. *Obstetrics and Gynecology*, *100*, 245–252.
- N. Sarafrazi, E.A. Wambogo, & J.A. Shepherd (2021). Osteoporosis or low bone mass in older adults: United States, 2017–2018. *National Center for Health Statistics, Data Brief*, no. 405. Retrieved from www.cdc.gov/nchs/data/databrief/db405-H.pdf.
- W.H. Sheldon (1940). *The varieties of human physique*. New York: Harper & Row.
- M.M. Shirley (1931). *The first two years: A study of twenty-five babies*. Minneapolis, MN: University of Minnesota Press.
- A.M. Silva (2019). Structural and functional body components in athletic health and performance phenotypes. *European Journal of Clinical Nutrition*, *73*, 215–224.
- S. Skorseth, N. Segovia, K. Hastings, & E. Kraus (2020). Prevalence of female athlete triad risk factors and iron supplementation among high school distance runners from a triad risk screening test. *Orthopedic Journal of Sports Medicine*, *8*(10), doi.org/10.1177/2325967120959725.
- Stanford Medicine (2023). Infant with loss of 10% birth weight. *Newborn Nursery*. Retrieved from <https://med.stanford.edu/newborns/professional-education/breastfeeding/babies-at-risk/infant-with-loss-of-10--birth-weight.html>.
- D. Stojanovic, Z. Savic, H.M. Vidakovic, T. Stojanovic, Z. Momcilovic, & T. Stojanovic (2022). Relationship between body composition and

- vertical jump performance among adolescents. *Act Medica Median*, 59(1), 64–70, doi.org/10.5633/amm.2020.0109.
- K. Talukdar, C. Harrison, M. McGuigan, & R. Borotkanics (2021). Kinetic and kinematics of sprinting in mid-and-post peak height velocity in female athletes. *International Journal of Strength and Conditioning*, 1(1), doi.org/10.47206/ijsc.v1i1.65.
- J.M. Tanner (1990). *Fetus into man*. Cambridge, MA: Harvard University Press.
- J.M. Tanner, R.H. Whitehouse, W.A. Marshall, M.J. Healy, & H. Goldstein (1975). *Assessment of skeletal maturity and prediction of adult height (TW 2 method)*. New York: Academic Press.
- N. Tawa & Q. Louw (2018). Biomechanical factors associated with running economy and performance of elite Kenyan distance runners: A systematic review. *Journal of Bodywork and Movement Therapies*, 22, 1–10.
- T.W. Todd (1937). *Atlas of skeletal maturation*. St. Louis, MO: Mosby.
- J. Tucci, D. Carpenter, J. Graves, M.L. Pollock, R. Felheim, & R. Mananquil (1991). Interday reliability of bone mineral density measurements using dual energy X-ray absorptiometry. *Medicine and Science in Sports and Exercise*, 23, S115.
- N.C. Wright, A.C. Looker, K.G. Saag, S. Randall, & B. Dawson-Hughes (2014). The recent prevalence of osteoporosis and low bone mass in the United States based on bone mineral density at the femoral neck or lumbar spine. *Journal of Bone Mineral Research*, 29, 2520–2526.
- J. Zhou, S. Zhang, X. Qin, P. Li, Y. Teng, S. Zhang, et al. (2022). Age at adiposity rebound and relevance for obesity: A systematic review and meta-analysis. *International Journal of Obesity*, 46, 1413–1424, doi.org/10.1038/s41366-022-01120-4.

- P.J.C. Adachi & T. Willoughby (2015). From the couch to the sports field: The longitudinal associations between sports video game play, self-esteem, and involvement in sports. *Psychology of Popular Media Culture*, doi.org/10.1037/ppm0000042.
- Y. Addo & J.H. Himes (2010). Reference curves for tricep and sub scapular skinfold thicknesses in U.S. children and adolescents. *The American Journal of Clinical Nutrition*, 91(3), 635–642, doi.org/10.3945/ajcn.2009.28385.
- American Academy of Pediatrics (2008). Policy statement: Strength training by children and adolescents. *Pediatrics*, 121, 835–840.
- American Addiction Centers (2023). *Effects of steroid use: Short-term, long-term, side effects, and treatment: Drug abuse*. Retrieved from <https://drugabuse.com/stimulants/steroids/effects-use>.
- American College of Sports Medicine (2022). *ACSM's guidelines for exercise testing and prescription*, 11th ed. Baltimore, MD: Lippincott Williams & Wilkins.
- N. Armstrong (2006). Aerobic fitness of children and adolescents. *Jornal de Pediatric*, 82, 406–408.
- J.E. Barkley & A. Penko (2009). Physiologic responses, perceived exertion, and hedonics of playing a physical interactive video game relative to a sedentary alternative and treadmill walking in adults. *Journal of Exercise Physiology Online*, 12, 12–22.
- M. Behringer, A. Vom Heede, M. Matthews, & J. Mester (2011). Effects of strength training on motor performance skill in children and adolescents: A meta-analysis. *Pediatric Exercise Science*, 23, 186–206.
- M.J. Benton, J.M. Spicher, & A.L. Silva-Smith (2022). Validity and reliability of handgrip dynamometry in older adults: A comparison of two widely used dynamometers. *PLOS ONE*, 17(6), doi.org/10.1371/journal.pone.0270132.
- J. Burtscher, S. Strasser, M. Burtscher, & G.P. Millet (2022). The impact of training on the loss of cardiorespiratory fitness in aging masters endurance athletes. *International Journal of Environmental Research and Public Health*, 19(17), 11050, doi.org/10.3390/ijerph191711050.
- N.F. Butte, J.M. Hopkinson, W.W. Wong, E. O'Brian-Smith, & K.J. Ellis (2000). Body composition during the first 2years of life: An updated reference. *Pediatric Research*, 47, 578–584.

- Centers for Disease Control and Prevention (2022). *Defining childhood weight status*. Retrieved from www.cdc.gov/obesity/basics/childhood-defining.html.
- H. Chaabene, M. Lesinski, D.G. Behm, & U. Granacher (2020). Performance and health related benefits of youth resistance training. *Sports Orthopaedics and Traumatology*, 36(3), 231–240, doi.org/10.1016/j.orthtr.2020.05.001.
- R. Chatrath, R. Shenoy, M. Serratto, & D.G. Thoele (2002). Physical fitness of urban American children. *Pediatric Cardiology*, 23, 608–612.
- Cleveland Clinic (2022). Heart rate recovery. Retrieved from <https://my.clevelandclinic.org/health/articles/23490-heart-rate-recovery>.
- C.J.P. Colon, I.L. Molina-Vicenty, M. Frontera-Rodriguez, A. Garcia-Ferre, B.P. Rivera, G.C. Cintron-Velez, et al. (2018). Muscle and bone mass loss in the elderly population: Advances in diagnosis and treatment. *Journal of Biomedicine*, 3, 40–49.
- S. Dai, S.L. Hummel, J.B. Salazar, G.E. Taffet, S. Ziemann, & J.B. Schwartz (2015). Cardiovascular physiology in the older adults. *Journal of Geriatric Cardiology*, 12, 196–201.
- R.M. Dodds, H.E. Syddall, R. Cooper, M. Benzeval, I.J. Deary, E.M. Dennison, et al. (2014). Grip strength across the life course: Normative data from twelve British studies. *PLOS ONE*, 9(12), doi.org/10.1371/journal.pone.0113637.
- M. Dowda, B.E. Ainsworth, C.L. Addy, R. Saunders, & W. Riner (2001). Environmental influences, physical activity, and weight status in 7- to 16-year-olds. *Archives of Pediatric and Adolescent Medicine*, 155, 711–717.
- B.F. Drazich, B.M. Crane, J.L. Taylor, D. Szanton, K. D. Moored, D. Eldreth, et al. (2023). Older adults' subjective well-being experiencing the exergame "I am dolphin." *International Journal of Qualitative Studies on Health and Well-Being*, 18(1), Article 2170013, doi.org/10.1080/74826174826312023.2170013.
- J.C. Eisenmann, K.R. Laurson, & G.J. Welk (2011). Aerobic fitness percentiles for U.S. adolescents. *American Journal of Preventive Medicine*, 41, S106–S110.
- R.L. Elkins, K. King, & R. Vidourek (2017). School and parent factors associated with steroid use among adolescents. *Journal of School Health*, 87(3), 159–166, doi.org/10.1111/josh.12482.

- R.B. Ervin, C. Wang, C.C. Fryar, M. Miller, & C.L. Ogden (2013). *Measures of muscular strength in U.S. children and adolescents, 2012*. NCHS data brief, no. 139. Hyattsville, MD: National Center for Health Statistics.
- A.D. Faigenbaum, W.J. Kraemer, C.J.R. Blimkie, I. Jeffreys, L.F. Micheli, M. Nitka, et al. (2009). Youth resistance training: Updated position statement paper from the National Strength and Conditioning Association. *Journal of Strength and Conditioning Research*, *23*, 1–20.
- A.D. Faigenbaum, L.A. Milliken, R.L. Loud, B.T. Burak, C.L. Doherty, & W.L. Westcott (2002). Comparison of 1 and 2 days per week of strength training in children. *Research Quarterly for Exercise and Sport*, *73*, 416–424.
- A.D. Faigenbaum, L.A. Milliken, & W.L. Westcott (2003). Maximal strength testing in healthy children. *Journal of Strength and Conditioning Research*, *17*, 162–166.
- A. Faigenbaum, J. O’Connell, S. Glover, R.L. Loud, & W. Westcott (2000). Comparison of different resistance training protocols on upper body strength and endurance development in children. *Medicine and Science in Sports and Exercise*, *32*(5 Supplement), S278.
- A. Faigenbaum, W. Westcott, L. Micheli, A. Outerbridge, C. LaRosa-Long, R. Loud, et al. (1996). The effects of strength training and detraining on children. *Journal of Strength and Conditioning Research*, *10*, 109–114.
- A.D. Faigenbaum, W.L. Westcott, R.L. Loud, & C. Long (1999). The effects of different resistance training protocols on muscular strength and endurance development in children. *Pediatrics*, *104*, e5.
- A.D. Faigenbaum, L.D. Zaichkowsky, W.L. Westcott, L.J. Micheli, & A.F. Fehlandt (1993). The effects of a twice-a-week strength training program on children. *Pediatric Exercise Science*, *5*, 339–346.
- I.G. Fatouros, A. Kambas, I. Katrabasas, K. Mikolaidis, A. Chatzinikolaou, D. Leontsini, et al. (2005). Strength training and detraining effects on muscular strength, anaerobic power, and mobility of inactive older men are intensity dependent. *British Journal of Sports Medicine*, *39*, 776–780.
- D.A. Fields & M.I. Goran (2000). Body composition techniques and the four-compartment model in children. *Journal of Applied Physiology*, *89*, 613–620.
- S.J. Fleck & W.J. Kraemer (2014). *Designing resistance training programs*, 4th ed. Champaign, IL: Human Kinetics.

- C.C. Fryar, M.D. Carroll, & J. Afful (2020). Prevalence of overweight, obesity, and severe obesity among children and adolescents aged 2–19 years: United States, 1963–1965 through 2017–2018. *National Center for Health Statistics, Health E-Stat*. Retrieved from www.cdc.gov/nchs/data/hestat/obesity-child-17-18/overweight-obesity-child-H.pdf.
- E. Fujita, D.R. Taaffe, Y. Yoshitake, & H. Kanehisa (2019). Repeated sit-to-stand exercise enhances muscle strength and reduces lower body muscular demands in physically frail elders. *Experimental Gerontology, 116*, 86–92.
- J. Gahche, T. Fakhouri, D.D. Carroll, V.L. Burt, C. Wang, & J.E. Fulton (2014). Cardiorespiratory fitness levels among U.S. youth aged 12–15 years: *United States, 1999–2004 and 2012*. Data Brief No. 153. Hyattsville, MD: National Center for Health Statistics.
- D.L. Graf, L.V. Pratt, C.N. Hester, & K.R. Short (2009). Playing active video games increases energy expenditure in children. *Pediatrics, 124*, 534–540.
- S. Guo, A.F. Roche, W.C. Chumlea, J.D. Gardner, & R.M. Siervogel (1994). The predictive value of childhood body mass index values for overweight at age 35y. *American Journal of Clinical Nutrition, 59*, 810–819.
- T. Haab & G. Wydra (2017). The effect of age on hamstring passive properties after a 10-week stretch training. *The Journal of Physical Therapy Science, 29*, 1048–1053.
- C.M. Hales, M.D. Carroll, C.D. Fryar, & C.L. Ogden (2017). *Prevalence of obesity among adults and youth: United States, 2015–2016*. NCHS Data Brief No. 288. Hyattsville, MD: National Center for Health Statistics.
- L.B.S. Hasarangi & D.G.S.K. Jayawardana (2018). Comparison of hamstring flexibility between patients with chronic lower back pain and the healthy individuals at the national hospital of Sri Lanka. *Biomedical Journal of Scientific & Technical Research, 5*, doi.org/10.26717/BJSTR.2018.05.001171.
- Healthy People 2030 (2023). *Overweight and obesity*. Retrieved from <https://health.gov/healthypeople/objectives-and-data/browse-objectives/overweight-and-obesity>.
- A.A. Hedley, C.L. Ogden, M.D. Carroll, L.R. Curtin, & K.M. Flegal (2004). Prevalence of overweight and obesity among US children,

- adolescents, and adults, 1999–2002. *Journal of the American Medical Association*, 291, 2847–2850.
- E. Hobold, V. Pires-Lopes, R. Gomez-Compos, M. de Arruda, C.L. Andruske, J. Pacheco-Carrello, et al. (2017). Reference standards to assess physical fitness of children and adolescents of Brazil: An approach to the students of the Lake Itaipu region-Brazil. *PeerJ*, 5, 34032, doi.org/10.1777/peerj.4032.
- M.D. Hoffmann, R.C. Colley, C.Y. Doyon, S.L. Wong, G.R. Tomlinson, & J.J. Lang (2019). Normative-referenced percentile values for physical fitness among Canadians. *Health Reports*, 30(10), 14–22, doi.org/10.25318/82–003-x201901000002-eng.
- T.J. Housh, D.J. Housh, & H.A. deVries (2016). *Applied exercise and sport physiology with labs*. 4th ed. Scottsdale, AZ: Holcomb Hathaway.
- M. Indranil (2014). Growth development and maturity in children and adolescents: Relation to sports and physical activity. *American Journal of Sports Science and Medicine* 2, 48–50.
- L.D. Isaacs, R. Pohlman, & B. Craig (1994). Effects of resistance training on strength development in prepubescent females. *Medicine and Science in Sports and Exercise*, 26(5 Supplement).
- L.D. Isaacs & R.L. Pohlman (2000). Effectiveness of the stretch-shortening cycle in children's vertical jump performance. *Medicine and Science in Sports and Exercise*, 32(5 Supplement), S278.
- A.M. Jastreboff, C.M. Kotz, S. Kahan, A.S. Kelly, & S.B. Heymsfield (2019). Obesity as a disease: The Obesity Society 2018 position statement. *Obesity*, 27, 7–9, doi.org/10.1002/oby.22378.
- A. Jeukendrup & M. Gleeson (2019). *Sport nutrition*, 3rd ed. Champaign IL: Human Kinetics.
- L.D. Johnson, P.M. O'Malley, J.G. Bachman, & J.D. Schulenberg (2006). National results on adolescent drug use. NIH Publication No. 06–5882. Bethesda, MD: *National Institute on Drug Abuse*.
- L.A. Kaminsky, R. Arena, & J. Myers (2015). Reference standards for cardiorespiratory fitness measured with cardiopulmonary exercise testing: Data from the fitness registry and the importance of exercise national data base. *Mayo Clinic Proceedings*, 90, 1515–1523.
- L.A. Kaminsky, R. Arena, J. Myers, R.J.M. Inojosa, C.J. Lavie, R.W. Quires, et al. (2022). Updated reference standards for cardiorespiratory fitness measured with cardiopulmonary exercise testing: Data from the fitness registry and the importance of exercise

- national data base (FRIEND). *Mayo Clinic Proceedings*, 87(2), 285–293, doi.org/10.1016/j.mayocp.2021.08.020.
- F.W. Kasch, J.L. Boyer, S.P. Van Camp, L.S. Verity, & J.P. Wallace (1990). The effects of physical activity and inactivity on aerobic power in older men: A longitudinal study. *Physician and Sportsmedicine*, 18, 73–83.
- S.K. Kashi, Z.S. Mirzazadeh, & V. Saatchian (2023). A systematic review and meta-analysis of resistance training on quality of life, depression muscle strength, and functional exercise capacity in older adults aged 60years or more. *Biological Research for Nursing*, 25(1), 88–106, doi.org/10.1177/10998004221120945.
- H.J. Kim, K.J. Lee, Y.J. Jeon, M. B. Ahn, I.A. Jung, S.H. Kim, et al. (2016). Relationships of physical fitness and obesity with metabolic risk factors in children and adolescents: Chungju city cohort study. *Annals of Pediatric Endocrinology & Metabolism*, 21, 31–38.
- S. Krishnan, M. Mandala, S.L. Wolf, A. Howard, & T. Kesar (2023). Perceptions of stroke survivors regarding factors affecting adoption of technology and exergames for rehabilitation. *PMR Journal of Injury, Function, and Rehabilitation*, 15(11), 1403–1410, doi.org/10.1002/pmrj.12963.
- S.G. Lakoski, B. Willis, C.E. Barlow, D. Leonard, A. Gao, N.B. Radford, et al. (2015). Midlife cardiorespiratory fitness, incident cancer, and survival after cancer in men: The Cooper Center longitudinal study. *JAMA Oncology*, 1, 231–237.
- J.T. Lemmer, D.E. Hurlbut, G.F. Martel, B.L. Tracy, F.M. Ivey, E.J. Metter, et al. (2000). Age and gender responses to strength training and detraining. *Medicine and Science in Sports and Exercise*, 32, 1505–1512.
- W. Li, H. Yin, Y. Chen, Q. Liu, Y. Wang, D. Qiu, et al. (2022). Associations between adult triceps skinfold thickness and all-cause, cardiovascular and cerebrovascular mortality in NHANES 1999–2010: A retrospective national study. *Frontiers in Cardiovascular Medicine*, 9, doi.org/10.3389/fcvm.2022.858994.
- A.M. Magarey, L.S. Daniels, T.J. Boulton, & R.A. Cockington (2003). Predicting obesity in early adulthood from childhood and parental obesity. *International Journal of Obesity*, 27, 505–513.
- R.M. Malina, C. Bouchard, & O. Bar-Or (2004). *Growth, maturation, and physical activity*, 1st ed. Champaign, IL: Human Kinetics.

- G.B. Mansour, A. Kacem, M. Ishok, L. Grelot, & F. Fiait (2021). The effect of body composition on strength and power in male and female students. *BMC Sports Science Medical Rehabilitation*, 13(150), doi.org/10.1186/s13102-021-00376-z.
- R.M. Mat, R.H. Mat, G.M. Davis, R. Husain, & N. Hasnan (2017). Exergaming for individuals with neurological disability: A systematic review. *Disability and Rehabilitation*, 39, 727–735.
- R.M. Mat, R.H. Mat, N. Hasnan, G.M. Davis, & R. Husain (2017). Exergaming boxing versus heavy-bag boxing: Are these equipotent for individuals with spinal cord injury? *European Journal of Physical and Rehabilitation Medicine*, 53, 527–534.
- Mayo Clinic (2023). *Strength training: OK for kids?* Retrieved from www.mayoclinic.org/healthy-lifestyle/tween-and-teen-health/in-depth/strength-training/art-20047758.
- W.D. McArdle, F.I. Katch, & V.L. Katch (2016). *Essentials of exercise physiology*, 5th ed. Philadelphia, PA: Wolter-Kluwer.
- W.D. McArdle, F.I. Katch, & V.L. Katch (2023). *Exercise physiology*, 9th ed. Philadelphia, PA: Wolter-Kluwer.
- K.L. Moore & T. V. N. Persaud (2008). *Before we are born: Essentials of embryology and birth defects*, 7th ed. Philadelphia, PA: Saunders.
- J. Moran, G.R.H. Sandercock, Ramirez-Campillo, R., C. Meylan, J. Collison, & D.A. Parry (2017). A meta-analysis of maturation-related variation in adolescent boy athletes' adaptations to short-term training. *Journal of Sports Sciences*, 35(11), 1041–1051, doi.org/10.1080/02640414.2016.1209306.
- M. Morano, D. Colella, & M. Caroli (2011). Gross motor skill performance in a sample of overweight and non-overweight preschool children. *International Journal of Pediatric Obesity, Supplement 2*, 42–46.
- B. Mrzena & M. Macek (1978). Use of treadmill and working capacity assessment of preschool children. In J. Borms & M. Hebbelinck (Eds.), *Pediatric work physiology*. New York: Karger.
- National Heart, Lung, and Blood Institute (2000). *The practical guide: Identification, evaluation, and treatment of overweight and obesity in adults*. NIH Publication No. 00-4084. Bethesda, MD: National Heart, Lung, and Blood Institute. Retrieved from www.nhlbi.nih.gov/files/docs/guidelines/prctgd_c.pdf.
- National Senior Games Association (2022). *2022 National Senior Games result book*. Baton Rouge, LA National Senior Games Association.

Retrieved from www.nsga.com/wp-content/upload/2022/11/2022NSG_Results-Book_R1.pdf.

- C.L. Ogden, M.D. Carroll, & K.M. Flegal (2008). High body mass index for age among U.S. children and adolescents, 2003–2006. *Journal of the American Medical Association*, 299, 2401–2405.
- C.L. Ogden, M.D. Carroll, B.K. Kit, & K.M. Flegal (2014). Prevalence of childhood and adult obesity in the United States, 2011–2012. *Journal of the American Medical Association*, 311, 806–814.
- C.L. Ogden, K.M. Flegal, M.D. Carroll, & C.L. Johnson (2002). Prevalence and trends in overweight among U.S. children and adolescents, 1999–2000. *Journal of the American Medical Association*, 288, 1728–1732.
- C. Ozemek, M.H. Whaley, W.H. Finch, & L. Kaminsky (2016). High cardiorespiratory fitness levels slow the decline in peak heart rate with age. *Medicine & Science in Sports & Exercise*, 18, 73–81.
- C. Ozemek, M.H. Whaley, W. H. Finch, & L. Kaninsky (2017). Maximal heart rate declines linearly with age independent of cardiorespiratory fitness levels. *European Journal of Sport Science*, 17, 563–570.
- J.C. Ozmun, A.E. Mikesky, & P.R. Surburg (1994). Neuromuscular adaptations following prepubescent strength training. *Medicine and Science in Sports and Exercise*, 26, 510–514.
- A. Pandey, W. K. Cornwell III, B. Willis, I.J. Neeland, A. Gao, D. Leonard, et al. (2017). Body mass index and cardiorespiratory fitness in mid-life and risk of heart failure hospitalization in older age. *American College of Cardiology: Heart Failure*, 5(5), 367–374, doi.org/10.1016/j.jchf.2016.12.021.
- A. Pandey, M.R. Patel, B. Willis, A. Gao, D. Leonard, S.R. Das, et al. (2016). Association between midlife cardiorespiratory fitness and risk of stroke. *Stroke*, 47, 1720–1726.
- D. Parmar, M. Shingala, & D. Sorani (2019). Evaluation of flexibility with Canadian trunk forward flexion test and YMCA sit and reach test in young individuals: A comparative study. *International Journal of Scientific Research and Reviews*, 8(2), 1371–1377. Retrieved from https://www.researchgate.net/publication/339134447_Evaluation_of_flexibility_with_Canadian_Trunk_Forward_Flexion_Test_and_YMCA_sit_and_reach_test_in_Young_Individuals_A_Comparative_study.
- V.G. Payne & J.R. Morrow (1993). Exercise and VO₂ max in children: A meta-analysis. *Research Quarterly for Exercise and Sport*, 64, 305–313.

- V.G. Payne, J.R. Morrow, L. Johnson, & S.N. Dalton (1997). Resistance training in children and youth: A meta-analysis. *Research Quarterly for Exercise and Sport*, 88, 80–88.
- M. Pontiff & N.D. Moreau (2022). Safety and feasibility of 1-repetition maximum (1-RM) testing in children and adolescents with bilateral spastic cerebral palsy. *Pediatric Physical Therapy*, 34(4), 472–478, doi.org/10.1097/PEP.0000000000000941.
- L.B. Raine, K.I. Erickson, G. Grove, J.N.H. Watrous, K. McDonald, C. Kang, et al. (2023). Cardiorespiratory fitness levels and body mass index of pre-adolescent children and older adults. *Frontiers in Public Health*, 10, doi.org/10.3389/fpubh.2022.1052389.
- R.S. Reddy & K.A. Alahmari (2016). Effect of lower extremity stretching exercises on balance in geriatric population. *International Journal of Health Sciences*, 10, 389–395.
- Y. Ren, C. Lin, Q. Zhou, Z. Yingyuan, G. Wang, & A. Lu (2023). Effectiveness of virtual reality games in improving physical function, balance and reducing falls in balance-impaired older adults: A systematic review and meta-analysis. *Archives of Gerontology and Geriatrics*, 108, doi.org/10.1016/j.archger.2023.104924.
- J.P.P. Rosa, D.F. Rodrigues, R.B. Viana, R.L. Vancini, M.M. Andrade, & C.A.B. de-Lira (2023). Are exergames an option to cope with sleep disorders during the COVID-19 outbreak? *Sleep Science*, 15(spec2), 393–397, doi.org/10.5935/1984-0063.20210030.
- J.R. Roush, K.L. Gombold, & R.C. Bay (2017). Normative grip strength values in men and women, ages 50 to 89 years' old. *The Internet Journal of Allied Health Sciences and Practice*, 16(1), Article 7. Retrieved from <https://nsuworks.nova.edu/ijahsp/vol16/iss1/7>.
- T.W. Rowland (2005). *Developmental exercise physiology*, 2nd ed. Champaign, IL: Human Kinetics.
- Saint-P.F. Saint-Maurice, D. Coughlan, S.P. Kelly, S.K. Keadle, M.B. Cook, S.A. Carlson, et al. (2019). Association of leisure-time physical activity across the adult life course with all-cause and cause-specific mortality. *JAMA Network Open*, 2(3), e190355, doi.org/10.1001/jamanetworkopen.2019.0355.
- D.G. Sale (1988). Neural adaptation to resistance training. *Medicine and Science in Sports and Exercise*, 20, S135–S145.
- D.G. Sale (1989). Strength training in children. In C.V. Gisolfi & D.R. Lamb (Eds.), *Perspectives in exercise science and sport medicine: Youth, exercise, and sport*. Indianapolis, IN: Benchmark.

- A.B. Schulze, I. Osiaevi, K. Harmening, R. Vollenberg, R. Wiewrodt, R. Pistulli, et al. (2022). Sustained impairment in cardiopulmonary exercise capacity in patients after COVID-19: A single center experience. *Canadian Respiratory Journal*, 2022, doi.org/10.1155/2022/2466789.
- R.J. Shephard (1987). *Human physiological work capacity*. Cambridge: Cambridge University Press.
- M. Shirley (1931). *The first two years: A study of twenty-five babies*. Minneapolis, MN: University of Minnesota Press.
- D. Sinclair (1998). *Human growth after birth, 6th ed.* Oxford: Oxford University Press.
- M. Slining, L.S. Adair, B.D. Goldman, J.B. Borja, & M. Bentley (2010). Infant overweight is associated with delayed motor development. *Journal of Pediatrics*, 157, 20–25.
- M. Soyulu, N. Sensoy, I. Dogan, N. Dogan, M.M. Mazicioglu, & A. Ozturk (2021). Four-site skinfolds thickness percentiles of schoolchildren and adolescents in Turkey. *Public Health Nutrition*, 24(16), 5414–5425, doi.org/10.1017/S1368980021003323.
- S. Stahle, S. Roberts, B. Davis, & L. Rybicki (1995). Effect of 2 versus 3 times per week weight training programs in boys 7 to 16. *Medicine and Science in Sports and Exercise*, 27, S114.
- A.E. Staiano, R.A. Beyl, D.S. Hsia, P.T. Katzmarzyk, & R.L. Newton, Jr (2017). Twelve weeks of dance exergaming in overweight and obese adolescent girls: Transfer effects on physical activity, screen time, and self-efficacy. *Journal of Sport Health Science*, 6, 4–10.
- L. Stathokostas, M.W. McDonald, R.M.D. Little, & D.H. Paterson (2013). Flexibility of older adults aged 55–86years and the influence of physical activity. *Journal of Aging Research*, 2013, doi.org/10.1155/2013/743843.
- S. Steersman, J. Afful, M.D. Carroll, T. Chen, O. Davy, S. Fink, et al. (2021). National health and nutrition examination survey 2017-March 2020 pre pandemic data files - Development of files and prevalence estimates for selected health outcomes. *National Health Statistics Reports*, 158, 1–21, doi.org/10.15620/cdc:106273.
- M.J. Stones & A. Kozma (1985). Physical performance. In N. Charness (Ed.), *Aging and human performance*. New York: Wiley.
- P.R. Stricker, A.D. Faigenbaum, T.M. McCambridge, C.R. LaBella, M.A. Brooks, G. Canty, et al. (2020). *Resistance training for children and adolescents*. *Pediatrics*, 145(6), doi.org/10.1542/peds.2020-1011.

- H. Tanaka, K.D. Monahan, & D.R. Seals (2001). Age-predicted maximal heart rate revisited. *Journal of the American College of Cardiology*, 37, 153–156.
- D. Tarakci, B.E. Huseyinsinoglu, E. Tarakci, & R.A. Ozdincler (2017). Effects of Nintendo Wii-Fit video games on balance in children with mild cerebral palsy. *Pediatrics International*, 58, 1042–1050.
- A.C. Tavares, E.A. Bocchi, I.S. Teixeira-Neto, & G.V. Guimaraes (2016). A meta-analysis of cardiopulmonary exercise testing in pre-pubertal healthy children produces new information. *MedicalExpress*, 3(1), M160102. Retrieved from <https://www.scielo.br/j/medical/a/3h5DQ3ymZvjnFbD6YZQ5KbM/?lang=en&format=pdf>.
- U.S. Department of Health and Human Services (2018). *Physical activity guidelines for Americans*, 1st ed. Washington, DC: U.S. Department of Human Services.
- J. Vrijens (1978). Muscle strength development in pre- and postpubescent age. In J. Borms & M. Hebbelinck (Eds.), *Pediatric work physiology*. New York: Karger.
- X. Wang, Z. Cai, W. Jiang, Y. Fang, W. Sun, & X. Wang (2022). Systematic review and meta-analysis of the effects of exercise on depression in adolescents *Child and Adolescent Psychiatry and Mental Health*, 16(16), doi.org/10.1186/s13034-022-00453-2.
- B. Willis, D. Leonard, C.E. Barlow, S.B. Martin, L.F. DeFina, & M.H. Trivedi (2018). Association of midlife cardiorespiratory fitness with incident depression and cardiovascular death after depression in later life. *JAMA Psychiatry*, 75, 911–917.
- World Health Organization (2022). *Global status report on physical activity 2022*. Geneva: WHO. Retrieved from www.who.int/teams/health-promotion/physical-activity/global-status-report-on-physical-activity-2022.
- F. Zhang, C. Bi, X. Yin, Q. Chen, Y. Li, Y. Liu, et al. (2021). Physical fitness reference standards for Chinese children and adolescents, *Scientific Reports*, 11, doi.org/10.1038/s41598-021-84634-7.
- T. Zhang, P.K. Whelton, B. Xi, M. Krousel-Wood, L. Bazzano, J. He, et al. (2019). Rate of change in body mass index at different ages during childhood and adult obesity risk. *Pediatric Obesity*, 14(7), doi.org/10.1111/ijpo.12513.
- W. Zhu (2008). Promoting physical activity using technology. *Research Digest*, 9, 1–8.

C. Zwolski, C. Quatman-Yates, & M.V. Paterno (2017). Resistance training in youth: Laying the foundation for injury prevention and physical literacy. *Sport Health: A Multidisciplinary Approach*, 9(5), doi.org/10.1177/1941738117704153

- E. Adelson & S. Fraiberg (1976). Sensory deficit and motor development in infants blind from birth. In Z.S. Jastrzemska (Ed.), *The effects of blindness and other impairments on early development*. New York: American Foundation for the Blind.
- S. Alex, S. Petersen, L. Lieberman, P.S. Beach, & A. Brian (2019). Teaching strategies to improve object control development for children with visual impairments in physical education. *Palaestra*, 33, 34–39.
- G. Ambrose-Zaken (2022). A study of improving independent walking outcomes in children who are blind or have low vision aged 5 years and younger. *Journal of Visual Impairment & Blindness*, 116(4), 533–545, doi.org/10.1177/0145482X221121824.
- American Academy of Ophthalmology (2019). *Eye disease statistics*. Retrieved from www.aao.org/eye-disease-statistics.
- American Academy of Ophthalmology (2022). *What are cataracts?* Retrieved from www.aao.org/eye-health/diseases/what-are-cataracts.
- American Optometric Association (2020). Evidence-based clinical practice guidelines: Comprehensive pediatric eye and vision examination. *Optometric Clinical Practice*, 2(2), doi.org/10.37685/uiwlibraries.2575–7717.2.2.1007.
- B. Ang (2015). Visual field. Retrieved from www.vision-and-eye-health.com.
- A. Bastawrous, H. Rono, I.A.T. Livingstone, H.A. Weiss, S. Jordan, H. Kuper, et al. (2017). The development and validation of a smartphone visual acuity test (Peek Acuity) for clinical practice and community-based fieldwork. *Ophthalmology*, 133, 930–937.
- R.P. Beals, A.M. Mayyasi, A.E. Templeton, & W.L. Johnson (1971). The relationship between basketball shooting performance and certain visual attributes. *American Journal of Optometry and Archives of American Academy of Optometry*, 48, 585–590.
- T. Bedinghaus (2020). *Milestones in infant vision development*. Retrieved from www.verywellhealth.com/top-milestones-in-vision-development-3421601.
- A.K. Bhootra & M.D. Sumitra (2008). *Elite sports and vision*. New Delhi, India: Jaypee Brothers Medical Publishers.
- W.F. Boron & E.L. Boulpaep (2009). *Medical physiology*, 1st ed. Philadelphia, PA: Saunders Elsevier.
- J. Bottomley (2010). *Geriatric rehabilitation*. Thorofare, NJ: SLACK Incorporated.

- C.J. Brady, A.O. Eghrari, & A.B. Labrique (2015). Smartphone-based visual acuity measurement for screening and clinical assessment. *Jama*, *314*, 2682–2683.
- BrightFocus Foundation (2023). Age-related macular degeneration: Facts & figures. Retrieved from www.brightfocus.org/macular/article/age-related-macular-facts-figures.
- R. Caputo, F. Tinelli, A. Bancale, & L. Campa, R. Frosini, A. Guzzetta, et al. (2007). Motor coordination in children with congenital strabismus: Effects of late surgery. *European Journal of Paediatric Neurology*, *11*, 285–291.
- T.B. Crocetta, R. Guarnieri, T.P.C. Antunes, T. Massetti, L.C. deAbreu, P. Fabian, et al. (2018). Instruments for studying coincidence-anticipation timing task: An updated systematic review. *Journal of Physical Education and Sports Management*, *5*, 37–52.
- K. Davids (1987). The development of peripheral vision in ball games: An analysis of single- and dual-task paradigms. *Journal of Human Movement Studies*, *13*, 175–284.
- C. de Bellefonds (2021). *What a baby can feel in utero*. Retrieved from www.whattoexpect.com/pregnancy/fetal-development/fetal-touch.
- I. Eser, D.S. Durrie, F. Schwendeman, & J.D. Stahl (2008, September). Association between ocular dominance and refraction. *Journal of Refractive Surgery*, 685–689.
- E.J. Gibson & R.D. Walk (1960). *The visual cliff*. *Scientific American*, *4*, 67–71.
- P.S. Haibach, M.O. Wagner, & L.J. Lieberman (2014). Determinants of gross motor skill performance in children with visual impairments. *Research in Developmental Disabilities*, *35*, doi.org/10.1016/j.ridd.2014.05.030.
- D.D. Hatton (1995). *Developmental growth curves of young children who are visually impaired*. Unpublished doctoral dissertation, University of North Carolina, Chapel Hill.
- G. Heiting (2019). *How your vision changes as you age*. Retrieved from www.allaboutvision.com/over60/vision-changes.htm.
- R. Held & A. Hein (1963). Movement-produced stimulation in the development of visually guided behavior. *Journal of Comparative and Physiological Psychology*, *56*, 872–876.
- M. Ikeda & T. Takevchi (1975). Influence of foveal load on the functional visual field. *Perception and Psychophysics*, *18*, 255–260.

- L.D. Isaacs (1983). Coincidence-anticipation in simple catching. *Journal of Human Movement Studies*, 9, 195–2010
- L.D. Isaacs (1984). Players' success in T-baseball. *Perceptual and Motor Skills*, 59, 852–854.
- L.D. Isaacs (1987). Modifying the Bassin anticipation timer. *Journal of Human Movement Studies*, 13, 461–465.
- L.D. Isaacs (1990). Effects of angle of approach on coincidence-anticipation timing within a two-target display. *Journal of Human Movement Studies*, 19, 171–179.
- R.S. Johansson & G. Westling (1988). Programmed and triggered actions to rapid load changes during precision grip. *Experimental Brain Research*, 71, 72–86.
- J.S. Kuhlman & P.A. Beitel (1997). Development/learning of coincidence-anticipation. NASPSPA Abstracts. *Journal of Sports and Exercise Psychology*, 19, S76.
- S. Laborde, F. Dosseville, L. Pascale, & N. Margas (2009). Interaction of hand preference with eye dominance on accuracy in archery. *Journal of Perceptual and Motor Skills*, 108, 558–564.
- D.M. Laby, D.G. Kirschen, A.L. Rosenbaum, & M.F. Mellman (1998). The effects of ocular dominance on the performance of professional baseball players. *Ophthalmology*, 105(5), 864–866.
- D.M. Laby & D.G. Kirschen (2017). The refractive error of professional baseball players. *Optometry and Vision Science*, 94, 564–573.
- D.M. Laby, A.L. Rosenbaum, D.G. Kirschen, J.L. Davidson, L.J. Rosenbaum, C. Strasser, & D. Mellman (1996). The visual function of professional baseball players. *American Journal of Ophthalmology*, 122(4), 476–485.
- L. Leader, P. Baillie, M. Bahia, & V. Elsebeth (1982). The assessment and significance of habituation to repeated stimulus by the human fetus. *Early Human Development*, 7, 211–219.
- O. Levtzion-Korach, A. Tennenbaum, R. Schnitzer, & A. Ornoy (2000). Early motor development of blind children. *Journal of Pediatrics and Child Health*, 36, 226–229.
- C. Li, J.L. Beaumont, R.M. Rine, J. Slotkin, & M.C. Schubert (2014). Normative scores for the NIH toolbox dynamic visual acuity test from 3 to 85years. *Frontiers in Neurology*, 5, 223.
- L.J. Lieberman, P. Ponchillia, & S. Ponchillia (2013). *Physical education and sport for people with visual impairments or deafblindness:*

- Foundations of instruction*. New York: American Federation of the Blind Press.
- A. Macfarlane, P. Harris, & I. Barnes (1976). Central and peripheral vision in early infancy. *Journal of Experimental Child Psychology*, 21, 532–538.
- R.A. Magill & D. Anderson (2013). *Motor learning: Concepts and applications*, 10th ed. Boston, MA:McGraw-Hill.
- R. Mukamal (2023). *Genetics and age-related macular degeneration*. American Academy of Ophthalmology. Retrieved from www.aaopt.org/eye-health/diseases/age-related-macular-degeneration-and-genetics.
- National Eye Institute (2004). Prevalence of open-angle glaucoma among adults in the United States. *Archives of Ophthalmology*, 122, 532–538.
- National Eye Institute (2019). *Open-angle glaucoma*. Retrieved from <https://nei.nih.gov/eyedata/glaucoma>.
- National Eye Institute (2020). *Age related macular degeneration (AMD) Tables*. Retrieved from www.nei.nih.gov/learn-about-eye-health/eye-health-data-and-statistics/age-related-macular-degeneration-and-statistics/age-related-macular-degeneration-and-tables.
- National Eye Institute (2021). *Age related macular degeneration (AMD)*. Retrieved from www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/age-related-macular-degeneration.
- National Eye Institute (2022). *At a glance: Diabetic retinopathy*. Retrieved from www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-disease/diabetic-retinopathy.
- National Eye Institute (2023a). *Age-related eye disease studies (AREDS/AREDS2)*. Retrieved from www.nei.nih.gov/research/clinical-trials/age-related-eye-disease-studies-aredsareds2.
- National Eye Institute (2023b). *At a glance: Cataracts*. Retrieved from www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/cataracts.
- J. Padmadisastra, P.A.R. Sangging, & R. Himayani (2023). Strabismus in children. *Medical Profession Journal of Lampung*, 13(14.1), 224–227, doi.org/10.53089/medula.v13i4.1729.
- V.G. Payne (1988). Effects of direction of stimulus approach, eye dominance, and gender on coincidence-anticipation timing performance. *Journal of Human Movement Studies*, 15, 17–25.

- R. Razeghi, P.S. Nia, N.S. Bushehri, & F. Maleki (2012). Effect of interaction between eye-hand dominance on dart skill. *Journal of Neuroscience and Behavioural Health*, 4(2), 6–12.
- H.K. Rono, A. Bastawrous, D. Macleod, E. Wanjala, G. L. Di Tanna, A.A. Weiss, et al. (2018). Smartphone-based screening for visual impairment in Kenyan school children: A cluster randomized controlled trial. *The Lancet*, 6, 924–932.
- G. Sanders (2011). Sex differences in coincidence-anticipation timing (CAT): A review. *Perceptual and Motor Skills*, 112, 61–90.
- F.H. Sanderson & H.T.A. Whiting (1974). Dynamic visual acuity and performance in a catching task. *Journal of Motor Behavior*, 6, 87–94.
- F.H. Sanderson & H.T.A. Whiting (1978). Dynamic visual acuity: A possible factor in catching performance. *Journal of Motor Behavior*, 10, 7–14.
- D.R. Shaffer (2001). *Developmental psychology: Childhood and adolescence*, 5th ed. Pacific Grove, CA: Brooks/Cole.
- C.H. Shea, W.L. Shebilske, & S. Worchel (1993). *Motor learning and control*. Englewood Cliffs, NJ: Prentice-Hall.
- C.M. Suttle, D.R. Melmoth, A.L. Finlay, J.J. Stoper, & S. Grant (2011). Eye-hand coordination skills in children with and without amblyopia. *Investigative Ophthalmology & Visual Science*, 52, 1851–1864.
- Y. Uchida, D. Kudoh, T. Higuchi, M. Honda, & K. Kanosue (2013). Dynamic visual acuity in baseball players is due to superior tracking abilities. *Medicine and Science in Sports and Exercise*, 45(2), 319–325.
- M.O. Wagner, P.S. Haibach, & L.J. Lieberman (2013). Gross motor skill performance in children with and without visual impairments: Research to practice. *Research in Developmental Disabilities*, 34, doi.org/10.1016/j.ridd.2013.06.030.
- R.D. Walk (1981). *Perceptual development*. Monterey, CA: Brooks/Cole.
- H.T.A. Whiting (1971). *Acquiring ball skill: A psychological interpretation*. Philadelphia, PA: Lea & Febiger.
- T. Wilson & J. Falkel (2004). *SportsVision*. Champaign, IL: Human Kinetics.
- W.L. Wong, X. Su, X. Li, C.M.E. Cheung, R. Klein, C. Chen, et al. (2014). Global prevalence of age-related macular degeneration and disease burden projection for 2020 and 2040: A systematic review and meta-analysis. *The Lancet*, 2(2), e106–109X(13), doi.org/10.1016/S2214-109X(13)70145-1 .

- A.B. Acharya, R.T. Jamil, & J.J. Dewey (2023). Babinski reflex. *National Library of Medicine*. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK519009/>.
- P. Ambesh, V.K. Paliwal, V. Shetty, & S. Kamholz (2017). The Babinski sign: A comprehensive review. *Journal of the Neurological Sciences*, 372, 477–481, doi.org/10.1016/j.jns.2016.10.041.
- A.A. Anekar & B. Bordoni (2022). Palmar grasp reflex. *National Library of Medicine*. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK553133/>.
- A.A. Anekar, & B. Bordoni (2022). Palmar grasp reflex. *National Library of Medicine*, <https://www.ncbi.nlm.nih.gov/books/NBK553133/>.
- S.V. Benakanal, V.S. Kumar, & R.B. Patil (2019). Usefulness of “Babkin Reflex” in normal term Indian infants. *International Journal of Pediatric Research*, 6, 221–225, doi.org/10.1177/000992289403300703.
- T.G.R. Bower (1976, November). Repetitive processes in child development. *Scientific American*, 235, 38–47.
- T.B. Brazelton & B.G. Cramer (2018). *The earliest relationship: Parents, infants and the drama of early attachment*. London: Routledge.
- S.M. Bruijn, F. Massaad, M.J. MacLellan, L. Van Gestel, Y.P. Ivanenko, & J. Duyens (2013). Are effects of symmetric and asymmetric tonic neck reflexes still visible in healthy adults? *Neuroscience Newsletter*, 556, 89–92.
- A. Chinello, V. Di Gangi, & E. Valenza (2018). Persistent primary reflexes affect motor acts: Potential implications for autism spectrum disorder. *Research in Developmental Disabilities*, 83, 287–295, doi.org/10.1016/j.ridd.2016.07.010.
- C.W. Edwards & Y.A. Khalili (2022). Moro reflex. *National Library of Medicine*. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK542173/>.
- P.A.M. Ferronato, E. de Jesus Manoel, & L.E P.B.T. Dantas (2023). Manual behaviour in newborns and infants from birth to three months old. *Global Pediatrics*, 3, doi.org/10.1016/j.gped.2023.100036.
- Y. Futagi & Y. Suzuki (2010). Neural mechanisms and clinical significance of the plantar grasp. *Pediatric Neurology*, 43, 81–86.
- Y. Futagi, Y. Toribe, & Y. Suzuki (2012). The grasp reflex and Moro reflex in infants: Hierarchy of primitive reflex responses. *International*

- Journal of Pediatrics*. Retrieved from www.ncbi.nlm.nih.gov/pmc/articles/pmc3384944/.
- E. Gieysztor, M. Kowal, & M. Paprocka-Borowicz (2022). Primitive Reflex factors influence walking gait in young children: An observational study. *International Journal of Environmental Research and Public Health*, *19*, doi.org/10.3390/ijerph19074070.
- Haataja, L. (2023). *Hammersmith Infant Neurological Examination (HINE)*. update. Retrieved from www.mackeith.co.uk/wp-content/uploads/2023/02/Hammersmith-Infant-Neurological-Examination-HINE-description-update_13.02.2023FINAL.pdf.
- E.G. Hamer & M. Hadders-Algra (2016). Prognostic significance of neurological signs in high-risk infants: A systematic review. *Developmental Medicine and Child Neurology*, *58*, 53–60, doi.org/10.1111/dmcn.13051.
- H.D. Henrik (2013). Sucking-pads and primitive sucking reflex. *Journal of Neonatal-Perinatal Medicine*, *6*, 281–283.
- A. Hernández-Martínez, Y. Sánchez-Matas, D. Gutiérrez, & L. Exposito (2023). Relationships among integration of primitive reflexes, motor competence and crawling in children. *Authorea*, doi.org/10.22541/au.167813481.18690445/v1.
- M. Iiyama, T. Miyajima, & A. Hoshika (2002). Developmental change of Moro reflex with a three-dimensional motion analysis system. *No to Hattatsu [Brain and Development]*, *34*(4), 307–312.
- M. Jaiswal & R. Morankar (2017). Understanding primitive reflexes and their role in growth and development: A review. *International Healthcare Research Journal*, *1*, 243–247, doi.org/10.26440/IHRJ/01_08/123.
- F. Lacquaniti, Y.P. Ivanenko, & M. Zago (2012). Development of human locomotion. *Current Opinion in Neurobiology*, *22*, 822–828.
- S.J. Langendorfer (2007). The developmental perspective, the swimming reflex, and the velveteen rabbit. *International Journal of Aquatic Research and Education*, *1*, 93–100.
- R.S. Lourie (1949). The role of rhythmic patterns in childhood. *American Journal of Psychiatry*, *105*(9), 653–660.
- I.C. Lupescu, D. Anghel, & A.O. Dulamea (2020). The palmomental reflex – Overview and significance. *Romanian Journal of Neurology*, *19*, 141–146, doi.org/10.3789T/RJN.2020.3.1.
- M.J. McCarty & A.C. Brumback (2021). Stereotypies in Autism. *Seminars in Pediatric Neurology*, *38*, doi.org/10.1016/j.spen.2021.100897.

- R. Malak, K. Wiecheć, B. Fechner, T. Szczapa, J. Kasperkowicz, M. Matthews-Kozanecka, et al. (2022). The influence of parent education on the neurobehaviour and sucking reflexes of very preterm infants. *Brain Sciences*, *12*, doi.org/10.3390/brainsci12070840.
- M.B. McGraw (1939). Swimming behaviour of the human infant. *The Journal of Pediatrics*, *15*, 485–490, doi.org/10.1016/S0022–3476(39)80003-8.
- M.K. Meehan & T.K. Shackelford (2021). Step reflex. In J. Vonk & T.K. Shackelford (Eds.), *Encyclopedia of animal cognition and behaviour*. Cham: Springer, 6711–6712, doi.org/10.1007/978-3-319-47829-6_704-1.
- C. Melo, T.P. Ribeiro, C. Prior, C. Gesta, V. Martins, G. Oliveira, & T. Temudo (2023). Motor stereotypies in autism spectrum disorder: Clinical randomized study and classification proposal. *Autism*, *27*(2), 456–471, doi.org/10.1177/13623613221105479.
- A.K. Modrell & P. Tadi (2023). Primitive reflexes. *National Library of Medicine*. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK554606/>.
- T. Okamoto, K. Okamoto, & P.D. Andrew (2001). Electromyographic study of newborn stepping in neonates and young infants. *Electromyographic and Clinical Neurophysiology*, *41*(5), 289–296.
- V.G. Payne & S.H. Chang (2018). Reflexes. In M.H. Bornstein (Ed.), *Sage encyclopedia of lifespan human development*, Los Angeles: SAGE Publications, Inc., 1819–1821, doi.org/10.4135/9781506307633.n678.
- I. Reed, S. Menz, & B.A. Smith (2021). The Otteroo: A case series exploring its potential to support physical therapy intervention in infants with or at risk for developmental delay, *Healthcare*, *9*, doi.org/10.3390/healthcare9020109.
- R. Reynolds & C. Inglese (2023). The neurological assessment of pediatric patient and the differences across different age groups. In N. Shimony & G. Gallo (Eds.), *Pediatric Neurosurgery Board Review*. Berlin: Springer, 1–10, doi.org/10.1007/978-3-031-23687-7_1.
- P.V. Rousseau, F. Matton, R. Lecuyer, & W. Lahaye (2017). The Moro reaction: More than a reflex, a ritualized behaviour of nonverbal communication. *Infant Behaviour and Development*, *46*, 169–177.
- M. Saraga, B. Resic, D. Krnic, T. Jelavic, D. Krnic, I. Sinovcic, et al. (2007). A stereotypic “elbowing” movement: A possible new primitive reflex in newborns. *Pediatric Neurology*, *36*(2), 84–87.

- S. Sarmad, I. Khan, S. Sadiq, & R. Noor (2019). Effect of positioning on tonic labyrinthine reflex in cerebral palsy: A single-centre study from Lahore. *Journal of Pakistan Medical Association*, 69, 478–482.
- N. Swapna, P. Kumar, B.R. Kalam, V.A. Anju, & K. Arunraj (2020). Diagnostic relevance of primitive Reflexes in high-risk newborns: A Systematic review. *Journal of Indian Speech Language and Hearing Association*, 34, 24–30, doi.org/org:10.4103/jisha.JISHA_22_19.
- T. Temudo & C. Melo (2015). Stereotypies: From normal to pathological. *Journal of Pediatric Neurology*, 13, 208–212, doi:10.1055/s-0035-1559805.
- E. Thelen (1979). Rhythmical stereotypies in normal human infants. *Animal Behaviour*, 27, 699–715.
- R. Thompson, D. Bhatti, K. Malgireddy, V.S. Bendi, J.M. Bertoni, V. Raja, & D. Torres-Russotto (2023). Plantar grasp sign as a screening tool for orthostatic tremor (OT). *Clinical Parkinsonism & Related Disorders*, 8, doi.org/10.1016/j.prdoa.2023.100196.
- H. Yoo & D.M. Mihaila (2023). Rooting reflex. *National Library of Medicine*. Retrieved from www.ncbi.nlm.nih.gov/books/NBK557636/.
- N.A. Zelazo, P. Zelazo, K.M. Cohen, & P.D. Zelazo (1993). Specificity of practice effects on elementary neuromotor patterns. *Developmental Psychology*, 29(4), 686–691.
- P. Zelazo (1976). From reflexive to instrumental behaviour. In L.P. Lipsitt (Ed.), *Developmental psychobiology: The significance of injury*. Hillsdale, NJ: Erlbaum, 87–104.

- K.E. Adolph, W.G. Cole, M. Komati, J.S. Garciaguirre, D. Badaly, J.M. Lingeman, et al. (2012). How do you learn to walk? Thousands of steps and dozens of falls per day. *Psychological Science*, 23, 1387–1394.
- K.E. Adolph & A.S. Joh (2007). Motor development: How infants get into the act. In A. Slater & M. Lewis (Eds.), *Introduction to infant development*. Oxford: Oxford University Press, 63–80.
- K.E. Adolph & S.R. Robinson (2015). Motor development. In R.M. Lerner (Ed.), *Handbook of child psychology and developmental science*, vol. 2, 7th ed. New York: Wiley, 113–157.
- K.E. Adolph, B. Vereijken, & M.A. Denny (1998). *Learning to crawl*. *Child Development*, 69(5), 1299–1312.
- O. Atun-Einy, S.E. Berger, J. Ducz, & A. Scher (2014). Strength of infants' bimanual reaching patterns is related to the onset of upright locomotion. *Infancy*, 19, 82–102.
- O. Atun-Einy, S.E. Berger, & A. Scher (2012). Pulling to stand: Common trajectories and individual differences in development. *Developmental Psychobiology*, 52, 187–198.
- S.E. Berger, C. Theuring, & K.E. Adolph (2007). How and when infants learn to climb stairs. *Infant Behavioral Development*, 20, 36–49.
- S. Bilbilaj (2014). The importance of babies' movement in the first year of life. *Journal of Education and Social Research*, 4, 381–389.
- M.C. Bisi & R. Stagni (2015). Evaluation of toddlers' different strategies during the first six-months of independent walking: A longitudinal study. *Gait & Posture*, 41, 574–579, doi.org/10.1016/j.gaitpost.2014.11.017.
- J.S. Bruner (1970). The growth and structure of skill. In K.J. Conolly (Ed.), *Mechanisms of motor skill development*. New York: Academic Press.
- Centers for Disease Control and Prevention (2023). CDC's developmental milestones. Retrieved from <https://www.cdc.gov/ncbddd/actearly/milestones/index.html>.
- W.G. Cole & K.E. Adolph (2023). Learning to move in a changing body in a changing world. *Integrative and Comparative Biology*, 63, 653–663, doi.org/10.1093/icb/icad083.
- D. Corbetta, R.F. Wiener, & S.L. Thurman (2019). Learning to reach in infancy. In D. Corbetta & M. Santello (Eds.), *Reach-to-grasp behavior: Brain, behavior, and modeling across the lifespan*. New York: Routledge, 18–41.

- J. Goodway, J.C. Ozmun, & D.L. Gallahue (2019). *Understanding motor development: Infants, children, adolescents, adults*, 8th ed. Burlington, MA: Jones & Bartlett Learning.
- D. Han & K.E. Adolph (2020). The impact of errors in infant development: Falling like a baby. *Developmental Science*, 24, doi.org/10.1111/desc.13069.
- C. Hym, M. Dumuids, D.I. Anderson, V. Forma, J. Provasi, C. Brière-Dollat, et al. (2022). Newborns modulate their crawling in response to their native language but not another language. *Developmental Science*, 26, doi.org:10.1111/desc.13248.
- L.B. Karasik, C.S. Tamis-LeMonda, K.E. Adolph, & M.H. Bornstein (2015). Places and postures: A cross-cultural comparison of sitting in 5-month-olds. *Journal of Cross-Cultural Psychology*, 46, 1023–1038, doi.org/10.1177/0022022115593803.
- J.M. Karl, L.R. Sacrey, & I.Q. Whishaw (2019). Multiple motor channel theory and the development of skilled hand movements in human infants. In D. Corbetta & M. Santello (Eds.), *Reach-to-grasp behavior: Brain, behavior, and modeling across the lifespan*. New York: Routledge, 42–68.
- Y. Kobayashi, H. Watanabe, & G. Taga (2016). Movement patterns of limb coordination in infant rolling. *Experimental Brain Research*, 234, 3433–3445.
- K.S. Kretch, J.M. Franchak, & K.E. Adolph (2014). Crawling and walking infants see the world differently. *Child Development*, 85, 1503–1518.
- A. Kyvelidou, K. Koss, J. Wickstrom, H. Needelman, W.W. Fisher, & S. DeVeney (2021). Postural control may drive the development of other domains in infancy. *Clinical Biomechanics*, 82, doi.org/10.1016/j.clinbiomech.2021.105273.
- J. Looper & L.S. Chandler (2013). How do toddlers increase their gait velocity? *Gait & Posture*, 37, 631–633, doi.org/10.1016/j.gaitpost.2012.09.009.
- B. Lovell, A. Watt, & M. Spittle (2023). Theoretical context for a wakeful prone and vestibular infant movement program to support early infancy motor development. *Journal of Occupational Therapy, Schools, and Early Intervention*, doi.org/10.1080/19411243.2023.2215758.
- T.A. Merens (2015). The toddler gait—normal or not. *Pediatric Annals*, 44, 187–190, doi.org/10.3928/00904481-20150512-04.

- E.A.S. Nelson, L.M. Yu, D. Wong, H.Y.E. Wong, & L. Yim (2004). Rolling over in infants: Age, ethnicity, and cultural difference. *Developmental Medicine and Child Neurology*, *46*, 706–709.
- I.E. Osage & D.N. Givler (2021). *Infant head lag*. Treasure Island, FL: Study Guide StatPearls Publishing. Retrieved from <https://europepmc.org/article/nbk/nbk567782#similar-articles>.
- J. Rachwani, V. Santamaria, X. Ai, H. Goldstone, J. Kanneth, N. Karim, et al. (2023). Dynamic sitting in infants: Limits of stability. *Gait & Posture*, *102*, 210–215, doi.org/10.1016/j.gaitpost.2023.04.004.
- J. Rachwani, V. Santamaria, S.L. Saavedra, & M. Woollacott (2015). The development of trunk control and its relation to reaching in infancy: A longitudinal study. *Frontiers in Human Neuroscience*, *102*, 210–215, doi.org/10.3389/fnhum.2015.00094.
- P. Rochat (1992). Self-sitting and reaching in 5- and 8-month-old infants: The impact of posture and its development on early eye-hand coordination. *Journal of Motor Behavior*, *24*(2), 210–220.
- A.G. Rouse, K.A. Mazurek, Z. Liu, G. Rivlis, & M.H. Schieber (2019). How separate are reaching and grasping? In D. Corbetta & M. Santello (Eds.), *Reach-to-grasp behavior: Brain, behavior, and modeling across the lifespan*. New York: Routledge.
- N. Sangkarit, W. Siritaratiwat, S. Bennett, & W. Tapanya (2021). Factors associating with the segmental postural control during sitting in moderate-to-late preterm infants via longitudinal study. *Children*, *8*, doi.org/10.3390/children8100851.
- J.L. Schneider & J.M. Iverson (2023). Equifinality in infancy: The many paths to walking. *Developmental Psychobiology*, *65*, doi.org/10.1002/dev.22370.
- K.C. Soska & K.E. Adolph (2014). Postural position constrains multimodal object exploration in infants. *Infancy*, *19*, 138–161.
- N. Theveniau, M.P. Boisgontier, S. Varieras, & I. Olivier (2014). The effects of clothes on independent walking in toddlers. *Gait & Posture*, *38*, 659–661, doi.org/10.1016/j.gaitpost.2013.08.031.
- S.L. Thurman & D. Corbetta (2019). Changes in posture and interactive behaviors as infants progress from sitting to walking: A longitudinal study. *Frontiers in Psychology: Developmental Psychology*, *10*, 822. doi.org/10.3389/fpsyg.2019.00822.
- S. Yamamoto, U. Matsumura, L. Yeonghee, & T. Tsurusaki (2022). Variability in infant crawling with typical development and risk of developmental delay. *Early Child Development and Care*, *193*, 979–

991,doi.org/10.1080/03004430.2023.2190867.

- S. Abdulhameed & T.A. Rashid (2022). Child drawing development optimization algorithm based on child's cognitive development. *Arabian Journal for Science and Engineering*, 47, 1337–1351, doi.org/10.1007/s13369-021-05928-6.
- Z.I. Achymy, M. Kadar, N.A. Razaob, & F.W. Yunus (2022). Factors influencing handwriting development among preschool children: A systematic review. *National Public Health Journal*, 17, 235–242, doi.org/10.21109/kesmas.v17i4.6209.
- K. Alimova (2022). Development of graphomotor skills in children with speech disorders. *International Journal of Pedagogics*, 2, 5–9, doi.org/10.37547/ijp/Volume 12-02.
- H.G. Birch & A. Lefford (1967). Visual differentiation, intersensory integration, and oluntary motor control. *Monographs of the Society for Research in Child Development*, 32, 1–87.
- A.W. Blote (1988). *The development of writing behaviour*. Personal monograph.
- A.W. Blote & P.G.M. van Der Heijden (1988). A follow-up study of writing posture and writing movement of young children. *Journal of Human Movement Studies*, 14, 57–74.
- A.W. Blote, E.M. Zielstra, & M.W. Zoetewey (1987). Writing posture and writing movement of children in kindergarten. *Journal of Human Movement Studies*, 13, 323–341.
- N. Bonneton-Botté, L. Miramand, R. Bailly, & C. Pons (2023). Teaching and rehabilitation of handwriting for children in the digital age: Issues and challenges. *Children*, 10, 1096. doi.org/10.3390/children10071096.
- E.W. Bushnell & J.P. Boudreau (1993). Motor development and the mind: The potential role of motor abilities as determinants of aspects of perceptual development. *Child Development*, 64, 1005–1021.
- E.G. Campoi, H.G. Campoi, & R. Moraes (2023). The effects of age and postural constraints on prehension. *Experimental Brain Research*, 241, doi.org/10.1007/s00221-023-06647-01847-1859.
- N. Comuk-Balci, B. Bayoglu, A. Tekindal, M. Kerem-Gunel, & B. Anlar (2016). Screening preschool children for fine motor skills: Environmental influence. *Journal of Physical Therapy Science*, 28, 1026–1031. doi.org/10.1589/jpts.28.1026.
- B.J. Cratty (1986). *Perceptual and motor development in infants and children*, 3rd ed. Englewood Cliffs, NJ: Prentice-Hall.

- M. Dettrick-Janes, A. McCluskey, N.A. Lannin, & J.N. Scanlan (2015). Handwriting legibility in healthy older adults. *Physical and Occupational Therapy in Geriatrics*, 33, 189–203, doi.org/10.3109/02703181.2015.1037978.
- J. De Ajuriaguerra, M. Auzias, F. Coumes, A. Denner, V. Lavondes-Monod, R. Perron, et al. (1979). *Children's handwriting: The development of handwriting and problems in handwriting*. Paris: Delachaux et Niestle.
- E. Escolano-Pérez, M.L. Herrero-Nivela, & J.L. Losada (2020). Association between preschoolers' specific fine (but not gross) motor skills and later academic competencies: Educational implications. *Frontiers of Psychology*, 11, doi.org/10.3389/fpsyg.2020.01044.
- K.M. Farris, R.E. Fehrenbacher, E.L. Hayes, R.R. McEvoy, A.P. Smith, & R.S. McCulloch (2022). The relationship between muscle activation and handwriting quality with non-native grip styles. *Journal of Hand Therapy*, 35, 558–568, doi.org/10.1016/j.jht.2021.03.004.
- L. Feng, A. Lindner, X.R. Ji, & R.M. Joshi (2019). The roles of handwriting and keyboarding in writing: A meta-analytic review. *Reading and Writing*, 32, 33–63.
- Y. Fogel, S. Rosenblum, & A.L. Barnett (2022). Handwriting legibility across different writing tasks in school-aged children. *Hong Kong Journal of Occupational Therapy*, 35, doi.org/10.1177/15691861221075709.
- P.A.M. Ferronato, E. de Jesus Manoel, & L.E.P.B.T. Dantas (2023). Manual behaviour in newborns and infants from birth to three months old. *Global Pediatrics*, 3, doi.org/10.1016/j.gped.2023.100036.
- N. Gahshan-Haddad & N. Weintraub (2023). Underlying functions associated with keyboarding performance of elementary-school students, *Scandinavian Journal of Occupational Therapy*, 30(8), 1415–1423 doi.org/10.108/011381282023.2188254.
- S. Gerth & J. Festman (2023). Muscle activity during handwriting on a tablet: An electromyographic analysis of the writing process in children and adults. *Children*, 10(4), 748. doi.org/10.3390/children10040748.
- D. Gaul & J. Issartel (2016). Fine motor skill proficiency in typically developing children: ON or off the maturation track? *Human Movement Science*, 46, 78–85.

- S.L. Gonzalez, V. Alvarez, & E.L. Nelson (2019). Do gross and fine motor skills differentially contribute to language outcomes? A systematic review. *Frontiers in Psychology*, 10, doi.org/10.3389/fpsyg.2019.02670.
- S.L. Gonzalez & E.L. Nelson (2015). Addressing the gap: A blueprint for studying bimanual hand preference in infants. *Frontiers in Psychology*, 6, 560. doi.org/10.3389/fpsyg.2015.00560.
- M. Gori, V. Squeri, A. Sciutti, L. Masia, G. Sandini, & J. Konczak (2012). Motor commands in children interfere with their haptic perception of objects. *Experimental Brain Research*, 223, 149–157. doi.org/10.1007/s00221-012-3248-8.
- H.M. Halverson (1931). An experimental study of prehension in infants by means of systematic cinema records. *Genetic Psychology Manuscripts*, 10, 107–286.
- Y.Y. Hoogendam, F. van der Lijn, M.W. Vernooij, A. Hofman, W.J. Niessen, et al. (2014). Older age relates to worsening of fine motor skills: A population-based study of middle-aged and elderly persons. *Frontiers in Aging Neuroscience*, 6, 259. doi.org/10.3389/fnagi.2014.00259.
- R.J. Jao, T.W. James, & K.H. James (2014). Multisensory convergence of visual and haptic object preference across development. *Neuropsychologia*, 56, 381–392.
- R. Kellogg (1969). *Analyzing children's art*. Palo Alto, CA: Mayfield.
- R. Khoury-Shaheen & N. Weintraub (2023). Arabic handwriting vs. keyboarding: performance and underlying body functions among elementary-school students. *Journal of Occupational Therapy, Schools, and Early Intervention*, doi.org/10.1080/19411243.2023.2215757.
- S.J. Lederman & R.L. Klatzky (1987). Hand movement: A window into haptic object recognition. *Cognitive Psychology*, 22, 421–459.
- M.H. Lee, Y.T. Liu, & K.M. Newell (2006). Longitudinal expression of infants' prehension as a function of object properties. *Infant Behavior and Development*, 29, 481–493.
- M.A. Lobo, E. Kokkoni, A.C. de Campos, & J.C. Galloway (2014). Not just playing around: Infants' behaviours with objects reflect ability, constraints, and object properties. *Infant Behaviour and Development*, 37, 334–351.
- P. Mounoud & T.G.R. Bower (1974). Conservation of weight in infants. *Cognition*, 3, 29–40.

- A.W. Needham & E.L. Nelson (2023). How babies use their hands to learn about objects: Exploration, reach-to-grasp, manipulation, and tool use. *WIREs Cognitive Science*, doi.org/10.1002/wcs.1661.
- K.M. Newell, P.V. McDonald, & R. Baillargeon (1993). Body scale and infant grip configurations. *Developmental Psychobiology*, 26(4), 195–205.
- K.M. Newell, D.M. Scully, F. Tenenbaum, & S. Hardiman (1989). Body scale and the development of prehension. *Developmental Psychobiology*, 22(1), 1–13.
- E.J. Ojigbo, & I.E. Odokuma (2019). Pencil grip patterns of students and skilled workers. *Journal of College of Medical Sciences-Nepal*, 15, doi.org/10.3126/jcmsn.v15i1.
- I.E. Odokuma & E.J. Ojigbo (2019). Pencil grip patterns among pupils. *Sahel Medical Journal*, 22, 121–126, doi.org/10.4103/smj.smj_75_17.
- S. Palmis, J. Danna, J. Velay, & P. Longcamp (2017). Motor control of handwriting in the developing brain: A review. *Cognitive Neuropsychology*, 34, 187–204.
- M. Paulus & P. Hauf (2012). Reaching preferences in 11-month-old infants: The role of objects' material and weight. *International Journal of Developmental Science*, 6, 87–96.
- N. Ransburg, M. Reiser, J. Munzert, B. Jovanovic, & G. Schwarzer (2017). Concurrent anticipation of two object dimensions during grasping in 10-month-old infants: A quantitative analysis. *Infant Behaviour and Development*, 48, 164–174.
- E. Reuter, C. Voelcker-Rehage, S. Vieluf, & B. Godde (2012). Touch perception throughout working life: Effects of age and expertise. *Experimental Brain Research*, 216, 287–297.
- L. Rosenbloom & M.E. Horton (1971). The maturation of fine prehension in young children. *Developmental Medicine and Child Neurology*, 13, 38.
- S.M. Scharoun & P.J. Bryden (2015). Is strength of handedness reliable over repeated testing? An examination of typical development and autism spectrum disorder. *Frontiers in Psychology*, 6, doi.org/10.3389/fpsyq.2015.00017.
- M.K. Schneider, C.T. Myers, J. Morgan-Daniel, & O. Shechtman (2023). A scoping review of grasp and handwriting performance in school-age children. physical & occupational. *Therapy in Pediatrics*, 43, 430–445, doi.org/10.1080/01942638.2022.2151392.

- G. Sgandurra, F. Cecchi, S.M. Serio, M. Del Maestro, C. Laschi, P. Dario, et al. (2012). Longitudinal study of unimanual grasping forces during infancy. *Infant Behavior and Development*, 35, 205–214.
- R. Sinvani, A. Golos, S.B. Zagmi, & Y. Gilboa (2023). The relationship between young children's graphomotor skills and their environment: A cross-sectional study. *International Journal of Environmental Research and Public Health*, 20(2), 1338. doi.org/10.3390/ijerph20021338.
- A. Skrzek, M. Přidalová, A. Sebastjan, D. HarÁsková, J. Fugiel, Z. Ignasiak, et al. (2015). Fine motor skills of the hands in polish and czech female senior citizens from different backgrounds. *Aging Clinical and Experimental Research*, 27, 491–498.
- E.F. Spilling, V. Rønneberg, W.M. Rogne, & M. Torrance (2022). Handwriting versus keyboarding: Does writing modality affect quality of narratives written by beginning writers? *Reading and Writing* 35, 129–153, doi.org/10.1007/s11145-021-10169-y.
- S. Suggate, E. Pufke, & H. Stoeger (2019). Children's fine motor skills in kindergarten predict reading in grade 1. *Early Childhood Research Quarterly*, 47, 248–258, doi.org/10.1016/j.ecresq.2018.12.015.
- N. van Drempt, A. McCluskey, & N.A. Lannin (2011). Handwriting in healthy people aged 65years and over. *Australian Occupational Therapy Journal*, 58, 276–286.
- J. Ziviani (1983). Qualitative changes in dynamic tripod grip between seven and fourteen years of age. *Developmental Medicine and Child Neurology*, 25, 778-782.

- K.E. Adolph, W.G. Cole, M. Komati, J.S. Garciaguirre, D. Baddaly, J.M. Lingeman, et al. (2012). How do you learn to walk? Thousands of steps and dozens of falls per day. *Psychological Science*, *23*, 1387–1394.
- K.E. Adolph, B. Vereijken, & P.E. ShROUT (2003). What changes in infant walking and why. *Child Development*, *74*, 475–497.
- C. Branta, J. Haubenstricker, & V. Seefeldt (1984). Age changes in motor skills during childhood and adolescence. In R.L. Terjung (Ed.), *Exercise and sport sciences review*. New York: Macmillan.
- W.O. Brien, S. Belton, & J. Issartel (2016). Fundamental movement skill proficiency amongst adolescent youth. *Physical Education and Sport Pedagogy*, *21*, 557–571.
- D. Bril & Y. Breniere (1992). Postural requirements and progression velocity in young walkers. *Journal of Motor Behavior*, *24*, 105–116.
- C.N. Burnett & E.W. Johnson (1971). Development of gait in childhood: Part II. *Developmental Medicine and Child Neurology*, *13*, 207–215.
- Y. Chen & Y. Mu (2018). Effects of backpack load and position on body strains in male schoolchildren while walking. *PLoS One*, *13*, doi.org/10.1371/journal.pone.0193648.
- K.Y. Choi, H.Y. Wong, H.N. Cheung, J.K. Tseng, C.C. Chen, C.L. Wu, et al. (2023). Impact of visual impairment on balance and visual processing functions in students with special needs. *PLoS One*, *18*(10), doi.org/10.1371/journal.pone.0249052.
- W.G. Cole, J.M. Lingeman, & K.E. Adolph (2012). Go naked: Diapers affect infant walking. *Developmental Science*, *15*(6), 783–790, doi.org/10.1111/j.1467-7687.2012.01169.x.
- J.C. Cowley, S.T. McCaw, K.R. Larson, & M.R. Torry (2020). Children who are overweight display altered vertical jump kinematics and kinetics from children who are not overweight. *Pediatric Exercise Science*, *32*(1), 2–8, doi.org/10.1123/pes.2019.0025.
- A. Focke, G. Strutzenberger, D. Jekauc, A. Worth, A. Woll, & H. Schwameder (2013). Effects of age, sex and activity level on counter-movement jump performance in children and adolescents. *European Journal of Sport Science*, *13*, 518–526.
- C. Fountain, B. Ulrich, J. Haubenstricker, & V. Seefeldt (1981). Relationship of developmental stage and running velocity in children 2.5 to 5 years of age. *Paper presented at the Midwest District convention of the American Alliance for Health, Physical Education, Recreation, and Dance*, Chicago.

- P.M. Fredriksen, A. Mamen, H. Gammelsrud, M. Lindberg, & O.P. Hjelle (2018). Factors affecting running performance in 6-12-year-olds: The health oriented pedagogical project (HOPP). *Scandinavian Journal of Public Health*, 46, 61–67.
- D.L. Gallahue, J.C. Ozmun, & J. Goodway (2012). *Understanding motor development*, 7th ed. New York: McGraw-Hill.
- I. Gupta, P. Kalra, & R. Iqbal (2018). Evaluation of school backpack prototype-based on gait parameters, energy expenditure and posture of students. *Current Science*, 115, 930–936, doi.org/10.18520/cs/v115/i5/930-936.
- L. Halverson & K. Williams (1985). Developmental sequences for hopping over distance: A prelongitudinal screening. *Research Quarterly for Exercise and Sport*, 56, 37–44.
- L.L. Hardy, M. Dafna, M. Thomas, & L. Peralta (2018). 30-year changes in Australian children's standing broad jump: 1985–2015. *Journal of Science and Medicine in Sport*, 21(10), 1057–1061, doi.org/10.1016/j.jsams.2018.04.005.
- J. Haubenstricker, C. Branta, V. Seefeldt, L. Brakora, & J. Kiger (1989). Prelongitudinal screening of a developmental sequence for hopping. *Paper presented at the annual convention of the American Alliance for Health, Physical Education, Recreation, and Dance*, Boston.
- J. Haubenstricker, J. Henn, & V. Seefeldt (1975). *Developmental sequence of hopping*. Rev. ed. Unpublished materials, Michigan State University, East Lansing, MI.
- J. Haubenstricker, V. Seefeldt, & C. Branta (1983). Preliminary validation of a developmental sequence for the standing long jump. *Paper presented at the annual convention of the American Alliance for Health, Physical Education, Recreation, and Dance*, Minneapolis.
- Y. Hong & G. Brueggemann (2000). Changes in gait patterns in 10-year-old boys with increasing loads when walking on a treadmill. *Gait and Posture*, 11, 254–259.
- L.D. Isaacs & R.L. Pohlman (2000). Effectiveness of the stretch-shortening cycle in children's vertical jump performance. *Medicine and Science in Sports and Exercise*, 32(5 Supplement), S278.
- L.D. Isaacs, R.L. Pohlman, & T. Hall (2003). Vertical jump performance standards in children: *An update. Strategies*, 16, 33–35.
- J.L. Jensen, S.J. Phillips, & J.E. Clark (1994). For young jumpers, differences are in the movement's control, not its coordination. *Research Quarterly for Exercise and Sport*, 65, 258–268

- K. Koren, R. Pisot, & B. Simunic (2016). Vertical jump height in young children: A longitudinal study in 4- to 6-year-old children. *Annales Kinesiologiae*, 7, 153–170.
- A.P. Lane, S.L. Molina, D.A. Tolleson, S.J. Langendorfer, J.D. Goodway, & D.F. Stodden (2018). Developmental sequences for the standing long jump landing: A pre-longitudinal screening. *Journal of Motor Learning and Development*, 6, 114–129.
- J.J. Lee, D.W. Hong, S.A. Lee, S.H., Y. Soh., M. Yang, K.M. Choi, et al. (2020). Relationship between obesity and balance in the community-dwelling elderly population: A cross-sectional analysis. *American Journal of Physical Medicine & Rehabilitation*, 9(1), 65–70, doi.org/10.1097/PHM.0000000000001292.
- R.W. Meyers, J.L. Oliver, M.G. Hughes, J.B. Cronin, & R.S. Lloyd (2015). Maximal sprint speed in boys of increasing maturity. *Pediatric Exercise Science*, 27, 85–94.
- C.B. Myers, et al. (1977). Vertical jumping movement patterns of early childhood. Unpublished paper, Indiana University.
- D.D. Pascoe, D.E. Pascoe, Y.T. Wang, L.M. Shim, & R.M. Kim (1997). Influence of carrying book bags on gait cycle and posture of youths. *Ergonomics*, 40, 631–641.
- M. Perrone, R. Orr, W. Hing, N. Milne, & R. Pope (2018). The impact of backpack loads on school children: A critical narrative review. *International Journal of Environment Research and Public Health*, 15(11). doi.org/10.3390/ijerph15112529.
- A. Poe (1976). Description of the movement characteristics of two-year-old children performing the jump and reach. *Research Quarterly*, 47, 260–268.
- M.A. Roberton (1983). Changing motor patterns during childhood. In J. Thomas (Ed.), *Motor development during childhood and adolescence*. Minneapolis, MN: Burgess.
- M.A. Roberton (2013). Testing the validity of the Halverson developmental sequences for skipping. *Research Quarterly for Exercise and Sport*, 84, 198–205.
- M.A. Roberton & L.E. Halverson (1984). *Developing children: Their changing movement*. Philadelphia, PA: Lea & Febiger.
- M.A. Roberton, K. Williams, & S. Langendorfer (1980). Prolongitudinal screening of motor development sequences. *Research Quarterly for Exercise and Sport*, 51, 724–731.

- M. Sapp (1980). *The development of galloping in young children: A preliminary study*. Unpublished master's project, Michigan State University, East Lansing, MI.
- J.L. Schneider & J.M. Iverson (2022). Cascades in action: How the transition to walking shapes caregiver communication during everyday interactions. *Developmental Psychology*, 58(1), 1–16, doi.org/10.1037/dev0001280.
- V. Seefeldt & J. Haubenstricker (1974). *Developmental sequence of hopping*. Unpublished materials, Michigan State University, East Lansing, MI.
- V. Seefeldt & J. Haubenstricker (1982). Patterns, phases, or stages: An analytical model for the study of developmental movement. In J.A.S. Kelso & J.E. Clark (Eds.), *The development of movement control and coordination*. New York: Wiley.
- V. Seefeldt, P. Reuschlein, & P. Vogel (1972). Sequencing motor skills within the physical education curriculum. *Paper presented at the American Association for Health, Physical Education, and Recreation*, Houston, TX.
- D.H. Sutherland (1984). *Gait disorders in childhood and adolescence*. Baltimore, MD: Williams & Wilkins.
- K. Talukdar, C. Harrison, & M.R. McGuigan (2022). Natural development of sprint speed in girls and boys: A narrative review. *Journal of Sport & Exercise Science*, 6(3), 153–161, doi.org/10.36905/jses.2022.03.02.
- E. Thelen (1986). Treadmill-elicited stepping in seven-month-old infants. *Child Development*, 57, 1498–1506.
- N. Théveniau, M.P. Boisgontier, S. Varietas, & J. Olivier (2014). The effects of clothes on independent walking in toddlers. *Gait and Posture*, 39(1), 659–661.
- E. Thomas, L. Petrigna, G. Tabacchi, E. Teixeira, S. Pajaujiene, D. Sturm, et al. (2020). Percentile values of the standing broad jump in children and adolescents aged 6–18 years old. *European Journal of Translational Myology*, 30(2), doi.org/10.4081/ejtm.2019.9050.
- G.R. Tomkinson, T. Kaster, F.L. Dooley, J.S. Fitzgerald, M. Annandale, K. Ferrar, et al. (2020). Temporal trends in the standing broad jump performance of 10,940,801 children and adolescents between 1960 and 2017. *Sports Medicine*, 51(3), 531–548, doi.org/10.1007/s40279-020-01394-6.
- C. Tudor-Locke, E.J. Aguiar, H. Han, S.W. Ducharme, J.M. Schuna Jr, T.V. Barreira, et al. (2019). Walking cadence (steps/min) and intensity

- in 21–40 year olds:CADENCE-adults. *International Journal of Behavioral Nutrition and Physical Activity*, 7, doi.org/10.1186/s12966-019-0769-6.
- C. Tudor-Locke, H. Han, E.J. Aguiar, T.V. Barreira, J.M.Jr. Schuna, M. Kang, et al. (2018). How fast is fast enough? Walking cadence (steps/min) as a practical estimate of intensity in adults: A narrative review. *British Journal of Sports Medicine*, 52, 776–788.
- T. Ueda, H. Asano, K. Tsuge, K. Seo, M. Sudo, Y. Fukuda, et al. (2021). Effect of wearing diapers on toddler's gait. *Scientific Reports*, 11, doi.org/10.1038/s41598-021-99583-4.
- N.P. Vaghela, S.K. Parekh, D. Padsala, & D. Patel (2019). Effect of backpack loading on cervical and sagittal shoulder posture in standing after dynamic activity in school age children. *Journal of Family Medicine and Primary Care*, 8, 1076–1081.
- A. Van Sant (1983). *Development of the standing long jump*. Unpublished paper, Motor Development and Child Study Laboratory, Department of Physical Education and Dance, University of Wisconsin, Madison, WI.
- T. Volmut, R. Pisot, & B. Simunic (2016). The effect of regular sport exercise on muscle contractile properties in children. In F. Eminovic & M. Dopsaj (Eds.), *Physical activity effects on the anthropological status of children, youth and adults*. New York: Nova Science Publishers, 41–53.
- K. Walicka-Cupry, R. Skalska-Izdebska, M. Rachwal, & A. Truszczynaska (2015). Influence of the weight of a school backpack on spinal curvature in the sagittal plane of seven-year-old children. *BioMed Research International*, 3015, doi.org/10.1155/2015/817913.
- C. Wegener, A.E. Hunt, B. Vanwanseele, J. Burns, & R.M. Smith (2011). Effects of children's shoes on gait: A systematic review and meta-analysis. *Journal of Foot and Ankle Research*, 4(1), doi.org/10.1186/1757-1146-4-3.
- J. Whittfield, S.J. Legg, & D.I. Hedderley (2005). Schoolbag weight and musculoskeletal symptoms in New Zealand secondary schools. *Applied Ergonomics*, 36, 193–198.
- R.L. Wickstrom (1983). *Fundamental motor patterns*, 3rd ed. Philadelphia, PA: Lea & Febiger.
- H.G. Williams (1983). *Perceptual and motor development*. Englewood Cliffs, NJ: Prentice-Hall.
- Y. Yao, Y. Xie, Z. Huang, E. Tang, M. Li, M. Zhu, et al. (2023). A healthy children's backpack product for children's spine development. In L.C.

Jain, V.E. Bales, Q. Wu, & F. Shi (Eds.), *Design studies and intelligence engineering*. IOS Press, Clifton, VA, 307–312, doi.org/10.3233/FAIA220724.

J. Završnik, R. Pisot, T. Volmut, K. Koren, H. Blazun, P. Kokol, et al. (2016). Lower correlation between biceps femoris contraction time and maximal running speed in children than in adults: A longitudinal study in 9- to 14-year-old children. *Annales Kinesiologiae*, 7, 21–41 .

- R. Abdollahipour & R. Psotta (2017). Is an external focus of attention more beneficial than an internal focus to ball catching in children? *Kinesiology*, 49, 235–241.
- R.M. Angell, S.A. Butterfield, E.M. Loovis, C.A. Mason, & C.J. Nightingale (2018). Children's throwing and striking: A longitudinal study. *Journal of Motor Learning and Development*, 6, 315–332.
- L.M. Barnett, E. van Beurden, P.J. Morgan, L.O. Brooks, & J.R. Beard (2010). Gender differences in motor skill proficiency from childhood to adolescence: A longitudinal study. *Research Quarterly for Exercise and Sport*, 81, 162–170.
- A.W. Burton, N.L. Greer, & D.M. Wiese-Bjornstal (1992). Changes in overhand throwing patterns as a function of ball size. *Pediatric Exercise Science*, 4, 50–67.
- A.W. Burton, N.L. Greer, & D.M. Wiese-Bjornstal (1993). Variations in grasping and throwing patterns as a function of ball size. *Pediatric Exercise Science*, 5, 25–41.
- S.A. Butterfield, R.M. Angell, & C.A. Mason (2012). Age and sex differences in object control skills by children ages 5 to 14. *Perceptual and Motor Skills*, 114, 261–274.
- E.B. Carlton (1989). *An investigation of gender-mediated factors in preschool children's overarm throwing development*. Unpublished doctoral dissertation, University of California, Berkeley.
- R. Escamilla, G. Fleisig, S. Barrantine, N. Zhen, & J. Andrews (1998). Kinematic comparisons of throwing different types of baseball pitches. *Journal of Applied Biomechanics*, 14, 1–23.
- M.G. Fischman, J.B. Moore, & K.H. Steel (1992). Children's one-hand catching as a function of age, gender, and ball location. *Research Quarterly for Exercise and Sport*, 63, 349–355.
- M.G. Fischman & W.G. Mucci (1989). Influence of a baseball glove on the nature of errors produced in simple onehanded catching. *Research Quarterly for Exercise and Sport*, 60, 251–255.
- M.G. Fischman & R. Sanders (1991). An empirical note on the bilateral use of a baseball glove by skilled catchers. *Perceptual and Motor Skills*, 72, 219–223.
- H. Fronske, C. Blakemore, & J. Abendroth-Smith (1997). The effect of critical cues on overhand throwing efficiency of elementary school children. *Physical Educator*, 54, 88–95.

- C. Garcia & L. Garcia (2005). Developmental and instructional considerations for teaching the overhand throw to young children. *Illinois Journal for Health, Physical Education, Recreation and Dance*, 51, 15–20.
- M. Gromeier, D. Koester, & T. Schack (2017). Gender differences in motor skills of the overarm throw. *Frontiers in Psychology*, 8, Article 212, doi.org/10.3389/fpsyg.2017.00212.
- L.E. Halverson & M.A. Roberton (1979). The effects of instruction on overhand throwing development in children. In G. Roberts & K. Newell (Eds.), *Psychology of motor behavior and sport—1978*. Champaign, IL: Human Kinetics.
- L.E. Halverson, M.A. Roberton, & S. Langendorfer (1982). Development of the overarm throw: Movement and ball velocity changes by seventh grade. *Research Quarterly for Exercise and Sport*, 53, 198–205.
- C.J. Harper (1979). Learning to observe children's motor development: Part III. *Observing children's motor development in the gymnasium. Paper presented at the national convention of the American Alliance for Health, Physical Education, and Recreation*, New Orleans, LA.
- J. Haubenstricker, C. Branta, & V. Seefeldt (1983). Preliminary validation of developmental sequences for throwing and catching. *Paper presented at the annual conference of the North American Society for the Psychology of Sport and Physical Activity*, East Lansing, MI.
- J. Haubenstricker, V. Seefeldt, C. Fountain, & M. Sapp (1981). Preliminary validation of a developmental sequence for kicking. *Paper presented at the Midwest District convention of the American Alliance for Health, Physical Education, Recreation, and Dance*, Chicago.
- D.A. Hellweg (1972). *An analysis of perceptual and performance characteristics of the catching skill in 6–7year old children*. Unpublished doctoral dissertation, University of Wisconsin, Madison, WI.
- L.D. Isaacs (1980). Effects of ball size, ball color, and preferred color on catching by young children. *Perceptual and Motor Skills*, 51, 583–586.
- J.L. Johnson, M.E. Rudisill, P.A. Hastie, & J. Sassi (2019). The influence of guided practice on overhand throwing competence in preschool children in a mastery motivational climate. *Journal of Motor Learning and Development*, 7, 64–83.
- T. Kasuyama, I. Mutou, & H. Sasamoto (2016). Development of overarm throwing technique reflects throwing ability during childhood. *Physical Therapy Research*, 19, 24–31.

- S. Langendorfer (1980). Longitudinal evidence for developmental changes in the preparatory phase of the overarm throw for force. *Paper presented at the Research Section of the American Alliance for Health, Physical Education, Recreation, and Dance*, Detroit.
- S. Langendorfer (1982). Developmental relationships between throwing and striking: *A prelongitudinal test of motor stage theory*. Unpublished doctoral dissertation, University of Wisconsin, Madison, WI.
- C. Lefebvre (1996). *Prediction in ball catching by children with a developmental coordination disorder*. Unpublished master's thesis, McGill University, Montreal.
- M.P. Lombardo & R.O. Deaner (2018). On the evolution of the sex differences in throwing: Throwing is a male adaptation in humans. *The Quarterly Review of Biology*, *93*, 91–119.
- K.D. Lorson & J.D. Goodway (2007). Influence of critical cues and task constraints on overarm throwing performance in elementary age children. *Perceptual and Motor Skills*, *105*, 753–767.
- K.M. Lorson, D.F. Stodden, S.J. Langendorfer, & J.D. Goodway (2013). Age and gender differences in adolescent and adult overarm throwing. *Research Quarterly for Exercise and Sport*, *84*, 239–244.
- K.K. Mally, R.A. Battista, & M.A. Robertson (2011). Distance as a control parameter for place kicking. *Journal of Human Sport & Exercise*, *6*, 122–134.
- D. Murase, K. Yokoyama, K. Fujii, Y. Hasegawa, & Y. Yamamoto (2016). Baseball catching patterns differ according to task constraints. *Advances in Physical Education*, *6*, 151–157.
- J.D. Nelson, J.R. Thomas, K.R. Nelson, & P.C. Abraham (1986). Gender differences in children's throwing performance: Biology and environment. *Research Quarterly for Exercise and Sport*, *57*, 280–287.
- K.R. Nelson, J.R. Thomas, & J.K. Nelson (1991). Longitudinal change in throwing performance: Gender differences. *Research Quarterly for Exercise and Sport*, *62*, 105–108.
- J. Nessler (1973). Length of time necessary to view a ball while catching it. *Journal of Motor Behavior*, *5*, 179–185.
- V.G. Payne (1985a). Effects of object size and experimental design on object reception by children in the first grade. *Journal of Human Movement Studies*, *11*, 1–9.
- V.G. Payne (1985b). *Teaching elementary physical education: Recognizing stages of the fundamental movement patterns (videotape)*. Northbrook, IL: Hubbard Scientific

Publications.

- V.G. Payne & R. Koslow (1981). Effects of varying ball diameters on catching ability of young children. *Perceptual and Motor Skills*, 53, 739–744.
- L.J. Petranek & G.V. Barton (2011). The overarm throwing pattern among U-14 ASA female softball players: A comparative study of gender, culture, and experience. *Research Quarterly for Exercise and Sport*, 82, 220–229.
- M.A. Robertson (1977). Stability of stage categorizations across trials: Implications for the “stage theory” of overarm throw development. *Journal of Human Movement Studies*, 3, 49–59.
- M.A. Robertson (1978). Longitudinal evidence for developmental stages in the forceful overarm throw. *Journal of Human Movement Studies*, 4, 167–175.
- M.A. Robertson (1983). Changing motor patterns during childhood. In J. Thomas (Ed.), *Motor development during childhood and adolescence*. Minneapolis, MN: Burgess, 48–90.
- M.A. Robertson & P. DiRocco (1981). Validating a motor skill sequence for mentally retarded children. *American Corrective Therapy Journal*, 35, 148–154.
- M.A. Robertson & L.E. Halverson (1984). *Developing children: Their changing movement*. Philadelphia, PA: Lea & Febiger.
- M.A. Robertson, L.E. Halverson, S. Langendorfer, & K. Williams (1979). Longitudinal changes in children’s overarm throw ball velocities. *Research Quarterly for Exercise and Sport*, 50, 256–264.
- M.A. Robertson & J. Konczak (2001). Predicting children’s overarm throw ball velocities from their developmental levels in throwing. *Research Quarterly for Exercise and Sport*, 72, 91–103.
- M.A. Robertson & S. Langendorfer (1980). Testing motor development sequences across 9–14years. In C. Nadeau, W. Halliwell, K. Newell, & G. Roberts (Eds.), *Psychology of motor behavior and sport—1979*. Champaign, IL: Human Kinetics.
- M.A. Robertson & S. Langendorfer (1983). Changing motor patterns during childhood. In J. Thomas (Ed.), *Motor development during childhood and adolescence*. Minneapolis, MN: Burgess.
- B. Runion, M.A. Robertson, & S.J. Langendorfer (2003). Forceful overarm throwing: A comparison of two cohorts measured 20years apart. *Research Quarterly for Exercise and Sport*, 74, 324–330.

- V. Seefeldt (1972a). Developmental sequence of catching skill. *Paper presented at the annual convention of the American Association for Health, Physical Education, and Recreation*, Houston, TX
- V. Seefeldt (1972b). *Developmental sequence of kicking*. Unpublished materials, Michigan State University, East Lansing, MI.
- V. Seefeldt & J. Haubenstricker (1975a). *Developmental sequence of kicking*. Rev. ed. Unpublished materials, Michigan State University, East Lansing, MI.
- V. Seefeldt & J. Haubenstricker (1975b). *Developmental sequence of punting*. Unpublished materials, Michigan State University, East Lansing, MI.
- V. Seefeldt & J. Haubenstricker (1976). *Developmental sequence of throwing*. Rev. ed. Unpublished manuscript, Michigan State University, East Lansing, MI.
- V. Seefeldt & J. Haubenstricker (1982). Patterns, phases, or stages: An analytical model for the study of developmental movement. In J.A.S. Kelso & J.E. Clark (Eds.), *The development of movement control and coordination*. New York: Wiley.
- V. Seefeldt, P. Reuschlein, & P. Vogel (1972). *Sequencing motor skills within the physical education curriculum*. Paper presented at the annual convention of the American Association for Health, Physical Education, and Recreation, Houston, TX.
- D.F. Stodden, S.J. Langendorfer, G.S. Fleisig, & J.R. Andrews (2006a). Kinematic constraints associated with the acquisition of overarm throwing part I: Step and trunk actions. *Research Quarterly for Exercise and Sport*, 77, 417–427.
- D.F. Stodden, S.J. Langendorfer, G.S. Fleisig, & J.R. Andrews (2006b). Kinematic constraints associated with the acquisition of overarm throwing part II: Upper extremity actions. *Research Quarterly for Exercise and Sport*, 77, 428–436.
- J.A. Stone, I.W. Maynard, J.S. North, D. Panchuk, & K. Davids (2017). Temporal and spatial occlusion of advanced visual information constrains movement (re)organization in one-handed catching behaviors. *Acta Psychologica*, 174, 80–88.
- H.S. Strohmeyer, K. Williams, & D. Schaub-George (1991). Developmental sequences for catching a small ball: A prelongitudinal screening. *Research Quarterly for Exercise and Sport*, 62, 257–266.

- J.R. Thomas, J.A. Alderson, K.T. Thomas, A.C. Campbell, & B.C. Elliott (2010). Developmental gender differences in overhand throwing in *Aboriginal Australian children*. *Research Quarterly for Exercise and Sport*, 81, 432–441.
- J.R. Thomas & K.E. French (1985). Gender differences across age in motor performance: A meta-analysis. *Psychological Bulletin*, 98, 260–282.
- R. van den Tillaar & G. Ettema (2011). A comparison of kinematics between overarm throwing with 20% overweight, regular, and 20% overweight balls. *Journal of Applied Biomechanics*, 27, 252–256.
- H.T.A. Whiting, E.B. Gill, & J.M. Stephenson (1970). Critical time intervals for taking in flight information in a ball-catching task. *Ergonomics*, 13, 265–272.
- R.L. Wickstrom (1980). Acquisition of a ball-handling skill. *Paper presented at the Research Section of the American Alliance for Health, Physical Education, Recreation, and Dance*, Detroit, MI.
- M. Wild (1938). The behavior pattern of throwing and some observations concerning its course of development in children. *Research Quarterly*, 9, 20–24.
- J.G. Williams (1992a). Catching action: Visuomotor adaptations in children. *Perceptual and Motor Skills*, 75, 211–219.
- R.W. Young (2009). The ontogeny of throwing and striking. *Human Ontogenetics* 3, 19–31

- American Academy of Pediatrics (2000). Injuries in youth soccer: A subject review (RE9934). *Pediatrics*, 105(3), 659–661.
- American Academy of Pediatrics (2002). Skateboard and scooter injuries. *Pediatrics*, 109, 542–543.
- American Academy of Pediatrics (2004). Protective eyewear for young athletes. *Pediatrics*, 113, 619–622.
- American Academy of Pediatrics (2008). Strength training by children and adolescents. *Pediatrics*, 121, 835–840.
- American Academy of Pediatrics (2009). In-line skating injuries in children and adolescents—Reaffirmation of 1998 policy statement. *Pediatrics*, 123, 1421–1422.
- American Academy of Pediatrics (2015). Tackling in youth football. *Pediatrics*, 136, e1419–e1430. Retrieved from www.pediatrics.org/cgi/doi/10.1542/peds.2015-3282.
- Aspen Institute (2021). *National student survey analysis*. Aspen, CO: Author. Retrieved from www.aspeninstitute.org/wp-content/uploads/2021/11/Aspen-National-Student-Survey-FINAL-Report.pdf.
- Aspen Institute (2022a). *State of play: Coaching trends*. Aspen, CO: Author. Retrieved from www.aspeninstitute.org/wp-content/uploads/2022/11/2022_SoP_National_CoachTrends.pdf.
- Aspen Institute (2022b). *State of youth sports: Parents, policymakers better appreciate physical activity, face barriers to help kids play*. Aspen, CO: Author. Retrieved from www.aspeninstitute.org/news/state-of-play-2022.
- M. Astor (2022). A gymnast's death was supposed to be a wake-up call. What took so long? *The New York Times*. Retrieved from www.nytimes.com/2022/04/26/sports/christy-henrich-gymnastics-eating-disorder-death.html.
- Athletic Footwear Association (1990). *American youth and sports participation*. North Palm Beach, FL: Author.
- M. Belanger, K. Gray-Donald, J. O'Loughlin, G. Paradis, & J. Hanley (2009). When adolescents drop the ball: Sustainability of physical activity in youth. *American Journal of Preventive Medicine*, 37, 41–49.
- F. Butterfield (2002, January 26). Father in killing at hockey rink is given sentence of 6 to 10 year. *New York Times*. Retrieved from www.nytimes.com/2002/01/26/us/father-in-kill-ing-at-hockey-rink-is-given-sentence-of-6-to-10-years.html.

- J. Coakley (1986). When should children begin competing? A sociological perspective. In M.R. Weiss & D. Gould (Eds.), *Sport for children and youths*. Champaign, IL: Human Kinetics.
- J.P. DiFiori, H.J. Benjamin, J.S. Brenner, A. Gregory, N. Jayanthi, G.L. Landry, et al. (2014). Overuse injuries and burnout in youth sports: A position statement from the American Medical Society for Sports Medicine. *British Journal of Sports Medicine*, *48*, 287–288.
- T.G. Di Virgilio, A. Hunter, L. Wilson, W. Stewart, S. Goodall, G. Howatson, et al. (2016). Evidence for acute electrophysiological and cognitive changes following routine soccer heading. *EBioMedicine*, *13*, 66–71.
- B. Goldberg, P.P. Rosenthal, L.S. Robertson, & J.A. Nicholas (1988). Injuries in youth football. *Pediatrics*, *81*, 255–261.
- K.G. Harmon, J.A. Drezner, M. Gammons, K.M. Guskiewicz, M. Halstead, S.A. Herring, et al. (2013). American Medical Society for Sports Medicine position statement: Concussions in sport. *British Journal of Sports Medicine*, *47*, 15–26.
- M. Harrison (2023). *What can you do to prevent in-line skating injuries? (Safety Tips)*. Retrieved from www.cora.org/prevent-in-line-skating-injuries.
- S. Harter (1988). Causes, correlates, and the functional role of global self-worth: A life-span perspective. In J. Kolligan & R. Sternberg (Eds.), *Perceptions of competence and incompetence across the life-span*. New Haven, CT: Yale University Press
- C. Holecko (2020). *When should kids start playing competitive sports?* Retrieved from www.verywellfamily.com/when-should-kids-start-competitive-sports-1257040.
- E.T. Hyde, J.D. Omura, J.E. Fulton, S.M. Lee, K.L. Piercy, & S.A. Carlson (2020). Disparities in youth sports participation in the U.S., 2017–2018. *American Journal of Preventive Medicine*, *59*(5), e207–e210, doi.org/10.1016/j.amepre.2020.05.011.
- R.S. Indharty, A.M. Siahaan, M.D. Rosarina, M. Susanto, S. Tandean, & M. Risfandi (2023). Prevention of sports-related concussion in soccer: A comprehensive review of literature. *Annals of Medicine & Surgery*, *85*(3), 365–373, doi.org/10.1097/MS9.0000000000000268.
- International In-Line Skating Association (1992). *Guidelines for establishing in-line skate trails in parks and recreational areas*. Minneapolis, MN: Author.

- L.D. Isaacs (1981, December). Factors affecting children's basketball shooting performance: A log-linear analysis. *Carnegie Research Papers*, 29–32.
- L.D. Isaacs (1984). Players' success in T-baseball. *Perceptual and Motor Skills*, 59, 852–854.
- i9Sports (2022). *What age should my child start playing sports?* Retrieved from www.i9sports.com/blog/what-age-should-my-child-start-playing-sports.
- K. Kymar, S.N. Mandleywala, M.P. Gannon, N.A.M. Estes, J. Weinstock, & M.S. Link (2017). Development of a chest wall protector effective in preventing sudden cardiac death by chest wall impact (Comotio Cordis). *Clinical Journal of Sports Medicine*, 27, 26–30.
- R.N. Lee, T.S. Rodrigues, J.T. Gan, H. Han, R. Mansour, P. Sanders et al. (2023). Comotio Cordis in non-sport-related-events: A systematic review. *JACC: Clinical Electrophysiology*. Retrieved from www.sciencedirect.com/science/article/abs/pii/S2405500X23000658.
- Little League (2023a). *Regular season pitching rules*. Retrieved from www.littleleague.org/playing-rules/pitch-count.
- Little League (2023b). *The number-one risk of arm injuries continues to be year-round play*. Retrieved from www.littleleague.org/university/articles/the-number-one-risk-of-arm-injuries-continues-to-be-year-round-play.
- Major League Baseball. (2023). *Guidelines for youth and adolescent pitchers*. Retrieved from www.mlb.com/pitch-smart/pitching-guidelines.
- M. Mandorino, A.J. Figueiredo, M. Gjaka, & A. Tessitore (2023). Injury incidence and risk factors in youth soccer players: A systematic literature review. Part 1: Epidemiological analysis. *Biology of Sport*, 40(1), 3–25, doi.org/10.5114/biolsport.2023.109961.
- National Alliance for Youth Sports (2017). *National standards for youth sports*. Retrieved from www.nays.org.
- National Alliance for Youth Sports (2024). *NAYS Parent orientation & membership program*. Retrieved from www.nays.org/parents.
- National Federation of State High School Association (2023). *2021–2022 high school athletics participation survey*. Indianapolis, IN: Author. Retrieved from www.nfhs.org.
- J.B. Orenstein (1996). Injuries and small-wheel skates. *Annals of Emergency Medicine*, 27, 204–209.

- O. Ovie, A. Gabriel, O. Soremi, E.O. Evbayekha, A.U. Antia, D. Emmanuel, et al. (2023). Sudden cardiac death: An update on commotion cards. *Cureus*, 15(4), doi.org/10.7759/cureus.38087.
- M.W. Passer (1982). Psychological stress in youth sports. In R.A. Magill, M.J. Ash, & F.L. Smoll (Eds.), *Children in sport*. Champaign, IL: Human Kinetics.
- M.V. Paterno, J.A. Taylor-Haas, G.D. Myer, & T.E. Hewett (2013). Prevention of overuse sports injuries in the young athlete. *Orthopedic Clinics of North America*, 44, 553–564.
- A.R. Peterson, A.J. Kruse, S.M. Meester, T.S. Olson, B.N. Riedle, T.G. Slayman, et al. (2017). Youth football injuries: A prospective cohort. *The Orthopedic Journal of Sports Medicine*, 5(2), doi.org/10.1177/2325967116686784.
- E.G. Post, M.J. Rivera, D. Doss, & L.E. Eberman (2022). Parent decision-making regarding youth sport participation during COVID-19 pandemic. *Journal of Community Health*, 47(4), 687–696, doi.org/10.1007/s10900-022-01078-4.
- Runners World (2013). *1-year-old runs marathon*. Retrieved from www.runnersworld.com/runners-stories/a20836132/1-year-old-runs-marathon.
- D. Sabo & P. Veliz (2008). *Go out and play: Youth sports in America*. East Meadow, NY: Women's Sports Foundation.
- Y. Sheu, L. Chen, & H. Hedegaard (2016). *Sports- and recreation-related injury episodes in the United States, 2011–2014*. National Health Statistics Reports, No. 99. Hyattsville, MD: National Center for Health Statistics.
- J. Simon & R. Martens (1979). Children's anxiety in sport and nonsport evaluative activities. *Journal of Sport Psychology*, 1, 160–169.
- F.L. Smoll & R.E. Smith (1984). Improving the quality of coach-player interaction. In J.R. Thomas (Ed.), *Motor development during childhood and adolescence*. Minneapolis, MN: Burgess.
- M.J. Stuart, M.A. Morrey, A.M. Smith, J.K. Meis, & C.J. Ortiguera (2002). Injuries in youth football: A prospective observational cohort analysis among players aged 9 to 13years. *Mayo Clinic Proceedings*, 77, 317–322.
- G. Teare & M. Taks (2021). Exploring the impact of the COVID-19 pandemic on youth sport and physical activity participation trends. *Sustainability*, 13, 1744, doi.org/10.3390/su13041744.

- A. Tjonndal & S. Rosten (2022). *Safeguarding athletes against head injuries through advances in technology: A scoping review of the uses of machine learning in the management of sport-related concussions*. Retrieved from www.frontiersin.org/articles/10.3389/fspor.2022.837643/full.
- D. Waltzman, K. Sarmiento, O. Devine, X. Zhang, L. DePadilla, M. Kresnow, et al. (2021). Head impact exposures among youth tackle and flag football athletes. *Sports Health*, 13(5), 454–462, doi.org/10.1177/1941738121992324.
- J. Wise (2023). WHO declares end of global health emergency. *British Medical Journal*, 381, 1041, doi.org/10.1136/bmj.p1041.
- Wikipedia (2019). Budhia Singh. Retrieved from https://en.wikipedia.org/wik/Budhia_Singh.
- Y.T. Yang & C.M. Baugh (2016). US youth soccer concussion policy: Heading in the right direction. *Pediatrics*, 170, 413–414.

- M. Adams, K. Gordt-Oesterwind, M. Bongartz, S. Zimmermann, S. Seide, V. Braun, M. Schwenk, et al. (2023). Effects of physical activity interventions on strength, balance and falls in middle-aged adults: A systematic review and meta-analysis. *Sports Medicine*, 9, doi.org/10.1186/s40798-023-00606-3.
- J. Adriana, M. Moessinger, A. Charles, & C. Postal (2019). Exploring the contribution of executive functions to on-road driving performance during aging: A latent variable analysis. *Accident Analysis & Prevention*, 127, 96–109, doi.org/10.1016/j.aap.2019.02.010.
- S. Ali (2022). A quarter of US adults are physically inactive: CDC Report. *The Hill*. Retrieved from <https://thehill.com/changing-america/well-being/longevity/592061-a-quarter-of-us-adults-are-physically-inactive-cdc/>.
- M.L. Alosco, M.S. Penn, M.B. Spitznagel, M.J. Cleveland, B.R. Ott, & J. Gunstad (2015). Reduced physical fitness in patients with heart failure as a possible risk factor for impaired driving performance. *The American Journal of Occupational Therapy*, 69, doi.org/10.5014/ajot.2015.013573.
- A.F. Ambrose, G. Paul, & J.M. Hausdorff (2013). Risk factors for falls among older adults: *A review of the literature*. *Maturitas*, 75, 51–61.
- U.B. Aslan, U. Cavlak, N. Yagci, & B. Akdag (2008). Balance performance, aging, and falling: A comparative study based on a Turkish sample. *Archives of Gerontology and Geriatrics*, 46, 283–292.
- W.R. Boot, C. Stothart, & N. Charness (2014). Improving safety of aging road users: A mini-review. *Gerontology*, 60, 90–96, doi.org/10.1159/000354212.
- J.S. Brach & J.M. VanSwearingen (2013). Interventions to improve walking in older adults. *Current Translational Geriatrics and Gerontology Reports*, 2, 230–238.
- J.E. Burkhart, A.M. Berger, M. Creedon, & A.T. McGavock (1998). Mobility and independence: Changes and challenges for older drivers. *Administration on Aging*. Retrieved from www.aoa.gov/research/drivers.html.
- Centers for Disease Control and Prevention (2022). *Overcoming barriers to physical activity*. Retrieved from <https://www.cdc.gov/physicalactivity/basics/adding-pa/barriers.html>.
- Centers for Disease Control and Prevention (2022). *A CDC compendium of effective fall interventions: What works well for community-dwelling*

- older adults. Retrieved from
www.cdc.gov/falls/pdf/Steady_Compendium_2023_508.pdf
- Centers for Disease Control and Prevention (2023). *Older adult fall prevention*. Retrieved from <https://www.cdc.gov/falls/facts.html>.
- Z. Chen, W. Li, M. Ho, & P. Chau (2021). The prevalence of Sarcopenia in Chinese older adults: Meta-analysis and meta-regression. *Nutrition, 13*, doi.org/10.3390/nu13051441.
- I.H. Cho, S.Y. Park, & S.S. Yeo (2023). Difference in gait characteristics during attention-demanding tasks in young and elderly adults. *Journal of Korean Physical Therapy, 35*, 64–70, doi.org/10.18857/jkpt.2023.35.3.64.
- H. Choi, R.F. Schoeni, A. Steptoe, T. Cho, & K.M. Langa (2022). Differential trends in disability among rich and poor adults in the United States and England from 2002 to 2016. *The Journals of Gerontology, 77*, 189–S198, doi.org/10.1093/geronb/gbac029.
- S.N. Costa, L.H.B. Ferreira, & P.C.B. Bento (2023). Effects of home-based exercise programs on mobility, muscle strength, balance and gait in community dwelling older adults: A systematic review and meta-analysis. *Journal of Aging and Physical Activity, 31*, 693–704, doi.org/10.1123/japa.2022–0221.
- L. Dautzenberg, S. Beglinger, S. Tsokani, S. Zevgiti, R.C.M.A. Raijmann, & N. Rodondi (2021). Interventions for preventing falls and fall-related fractures in community-dwelling older adults: A systematic review and network meta-analysis. *Journal of the American Geriatrics Society, 69*, 2973–2984, doi.org/10.1111/jgs.17375.
- A.J. Devasahayam, K. Farwell, B. Lim, A. Morton, N. Fleming, D. Jagroop, R. Aryan, T.M. Saumur, & A. Mansfield (2022). The effect of reactive balance training on falls in daily life: An updated systematic review and meta-analysis. *Physical Therapy, 103*, doi.org/10.1093/ptj/pzac154.
- N. Elgaddal, E.A. Kramarow, & C. Reuben (2022). *Physical activity among adults aged 18 and over: United States, 2020*. NCHS Data Brief, No. 443. Hyattsville, MD: National Center for Health Statistics, doi.org/10.15620/cdc:120213.
- P. Era, P. Sainio, S. Koskinen, J. Ohlgren, & T. Harkanen (2011). Psychomotor speed in a random sample of 7979 subjects aged 30 years and over. *Aging Clinical and Experimental Research, 23*, 135–144.
- B.Q. Farah, W.L. do Prado, N. Malik, M.C. Lofrano-Prado, P.H. de Melo, J.P. Botero, et al. (2021). Barriers to physical activity during the

- COVID-19 pandemic in adults: A cross-sectional study. *Sport Sciences for Health*, 17, 441–447, doi.org/10.1007/s11332-020-00724-5.
- T. Franke, C. Tong, M.C. Ashe, H. McKay, J. Sims-Gould, & The Walk the Talk Team (2013). The secrets of highly active older adults. *Journal of Aging Studies*, 27, 398–409.
- E. Fuller-Thompson, J. Ferreira, & K.M. Ahlin (2023). Temporal trends (from 2008 to 2017) in functional limitations and limitations in activities of daily living: Findings from a nationally representative sample of 5.4 million older Americans. *International Journal of Environmental Research and Public Health*, 20, doi.org/10.3390/ijerph20032665.
- E. Gambaro, C. Gramaglia, D. Azzolina, D. Campani, A. Dal Molin, & P. Zeppego (2022). The complex associations between late life depression, fear of falling and risk of falls: A systematic review and meta-analysis. *Ageing Research Reviews*, 73, doi.org/10.1016/j.arr.2021.101532.
- E.S.A. Gomes, K.A. Ramsey, A.G.M. Rojer, E.M. Reijnierse, & A.B. Maier (2021). The association of objectively measured physical activity and sedentary behavior with (instrumental) activities of daily living in community-dwelling older adults: A systematic review. *Clinical Interventions in Aging*, 16, 1877–1915, doi.org/10.2147/CIA.S326686.
- W. Greve (2023). Adaptation across the lifespan: Towards a processual evolutionary explanation of human development. *Integrative Psychological and Behavioral Science*, 57, 1119–1139, doi.org/10.1007/s12124-023-09767-y.
- J.M. Haddad, S. Rietdyk, L.J. Claxton, & J. Huber (2013). Task-dependent postural control throughout the lifespan. *Exercise and Sport Sciences Reviews*, 41, 123–132.
- S. Hansen, K.B. Newbold, D.M. Scott, B. Vrkljan, & A. Grenier (2020). To drive or not to drive: Driving cessation amongst older adults in rural and small towns in Canada. *Journal of Transport Geography*, 86, doi.org/10.1016/j.jtrangeo.2020.102773.
- Y. Hu, S.J. Petruzzello & M. Hernandez (2023). Beta cortical oscillatory activities and their relationship to postural control in a standing balance demanding test: Influence of aging. *Frontiers of Aging Neuroscience*, 15, doi.org/10.3389/fnagi.2023.1126002.
- R.M. Hulteen, B. Terlizzi, T.C. Abrams, R.S. Sacko, A. De Meester, C. Pesce, D.F. Stodden, et al. (2023). Reinvest to assess: Advancing

- approaches to motor competence measurement across the lifespan. *Sports Medicine*, 53, 33–50, doi.org/10.1007/s40279-022-01750-8.
- D.A. Jehu, J.C. Davis, R.S. Falck, K.J. Bennett, D. Tai, M.F. Souza, B.R. Cavalcante a b, M. Zhao, & T. Liu-Ambrose (2021). Risk factors for recurrent falls in older adults: A systematic review with meta-analysis. *Maturitas*, 144, 23–28, doi.org/10.1016/j.maturitas.2020.10.021.
- H. Karimimoghadam, M.A. Cavan, & G. Karbasi (2022). Exercise effectiveness on reaction and response times in older people. *Chronic Diseases Journal*, 10, 247–252, doi.org/1022122/cdj.v10i4.773.
- G.C. Kay & D. McLaughlin (2014). Relationship between obesity and driving. *Current Obesity Reports*, 3, 336–340.
- K. Knoll, R. Yeong, J. Hamm, K. Hammer, H. Heimbuch, J. Holloway, D. Jurivich, P. Lahr, B. McGrath, K. Parker, S. Robinson-Lane, E. Stover, G. Tomkinson, & R. McGrath (2022). The prevalence and trends of instrumental activities of daily living impairments in the United States from 2008–2018. *Journal of Alzheimer's Disease Reports*, 7, 271–278, doi.org/10.3233/ADR-220107.
- S. Ko, J.G. Jerome, E.M. Simonsick, S. Studenski, J.M. Hausdorff, & L. Ferrucci (2018). Differential associations between dual-task walking abilities and usual gait patterns in healthy older adults: Results from the Baltimore longitudinal study of aging. *Gait & Posture*, 63, 63–67, doi.org/10.1016/j.gaitpost.2018.04.039.
- A.E. Kornadt, E.M. Kessler, S. Wurm, C.E. Bowen, M. Gabrian, & V. Klusmann (2020) Views on ageing: A lifespan perspective. *European Journal of Ageing*, 17, 387–401, doi.org/10.1007/s10433-019-00535-9.
- A. Kumar, K. Delbaer, G. A.R. Zijlstra, H. Carpenter, S. Iliffe, T. Masud, et al. (2016). Exercise for reducing fear of falling in older people living in the community. *Cochrane Systematic Review and Meta-Analysis. Age and Ageing*, 45, 345–352, doi.org/10.1093/ageing/afw036.
- S.S. Kuys, N.M. Peel, K. Klein, A. Slater, & R.E. Hubbard (2014). Gait speed in ambulant older people in long term care: A systematic review and meta-analysis. *Journal of the American Medical Directors Association*, 15, 194–200.
- A. Macie, T. Matson, & A. Schinkel-Ivy (2023). Age affects the relationships between kinematics and postural stability during gait. *Gait & Posture*, 102, 86–92, doi.org/10.1016/j.gaitpost.2023.03.004.
- S. Maharaj (2021). Static versus dynamic balance exercises. *Propel Physical Therapy*. Retrieved from

<https://propelphysiotherapy.com/exercise/static-balance-vs-dynamic-balance-exercises>.

- P. Manckoundia, S. Buatois, R. Gueguen, C. Perret-Guillaume, M. Laurain, P. Pfitzenmeyer, et al. (2008). Clinical determinants of failure in balance tests in elderly subjects. *Archives of Gerontology and Geriatrics*, *47*, 217–228.
- A. Markov, L. Hauser, & H. Chaabene (2023). Effects of concurrent strength and endurance training on measures of physical fitness in healthy middle-aged and older adults: A systematic review with meta-analysis. *Sports Medicine*, *53*, 437–455, doi.org/10.1007/s40279-022-01764-2.
- T. Matson & A. Schinkel-Ivy (2020). How does balance during functional tasks change across older adulthood? *Gait & Posture*, *75*, 34–39, doi.org/10.1016/j.gaitpost.2019.09.020.
- S.G.R. Neri, J.S. Oliveira, A.B. Dario, R.M. Lima, & A. Tiedemann (2020). Does obesity increase the risk and severity of falls in people aged 60 years and older? A systematic review and meta-analysis of observational studies. *The Journals of Gerontology: Series A*, *75*, 952–960, doi.org/10.1093/gerona/glz272.
- J.O. Nnodim & R.L. Yung (2015). Balance and its clinical assessment in older adults: A review. *Journal of Geriatrics and Medical Gerontology*, *1*, doi.org/10.23937/2469-58581510003.
- K.L. Piercy, R.P. Troiano, R.M. Ballard, S.A. Carlson, J.E. Fulton, G. Galuska, et al. (2018) Special communication: The physical activity guidelines for Americans. *JAMA*, *320*, 2020–2028, doi.org/10.1001/jama.2018.14854.
- Y. Ren, C. Lin, Q. Zhou, Z. Yingyuan, G. Wang, & A. Lu (2023). Effectiveness of virtual reality games in improving physical function, balance and reducing falls in balance-impaired older adults: A systematic review and meta-analysis. *Archives of Gerontology and Geriatrics*, *108*, doi.org/10.1016/j.archger.2023.104924.
- F. Rodrigues, C. Domingos, D. Monteiro, & P. Morouço (2022). Review on aging, sarcopenia, Falls, and resistance training in community-dwelling older adults. *International Journal of Environmental Research and Public Health*, *19*, doi.org/10.3390/ijerph19020874.
- N. Salari, N. Darvishi, M. Ahmadipanah, S. Shohaimi, & M. Mohammadi (2022). Global prevalence of falls in the older adults: A comprehensive systematic review and meta-analysis. *Journal of Orthopaedic Surgery and Research*, *17*, 334, doi.org/10.1186/s13018-022-03222-1.

- R.A. Schmidt & T.D. Lee (2019). *Motor learning and performance*, 6th ed. Champaign, IL: Human Kinetics.
- L.D. Sialino, L.A. Schaap, S.H. van Oostrom, H.S.J. Picavet, J.W.R. Twisk, W.M.M. Verschuren, et al. (2021). The sex difference in gait speed among older adults: How do sociodemographic, lifestyle, social and health determinants contribute? *BMC Geriatrics*, 21, doi.org/10.1186/s12877-021-02279-7.
- H. Singh & A. Kathuria (2021). Analyzing driver behavior under naturalistic driving conditions: A review. *Accident Analysis & Prevention*, 150, doi.org/10.1016/j.aap.2020.105908.
- L.H. Sloom, S. Malheiros, S. Truijen, W. Saeys, K. Mombaur, A. Halleman, & T. van Criel (2021). Decline in gait propulsion in older adults over age decades. *Gait & Posture*, 90, 475–482, doi.org/10.1016/j.gaitpost.2021.09.166.
- H. Tanaka & D.R. Seals (2003). Invited review: Dynamic exercise performance in Masters Athletes: Insight into the effects of primary human aging on physiological functional capacity. *Journal of Applied Physiology*, 95, 2152–2162.
- P.A. Tun & M.E. Lachman (2008). Age difference in reaction time and attention in a national telephone sample of adults: Education, sex, and task complexity matter. *Developmental Psychology*, 44, 1421–1429.
- United Nations, Department of Economic and Social Affairs, Population Division (2019). *World population ageing 2019: Highlights* (ST/ESA/SER.A/430).
- United Nations Department of Economic and Social Affairs, Population Division (2022a). *World population prospects 2022: Summary of results*. UN DESA/POP/2022/TR/NO. 3. United Nations, Department of Economic and Social Affairs, Population Division (2022b). *World population prospects*. Retrieved from <https://population.un.org/wpp/Graphs/Probabilistic/POP/0-14/900>.
- United States Department of Transportation, National Highway Traffic Safety Administration (2023). *Traffic safety facts: Older population*. Retrieved from <https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/813491>.
- U.S. Department of Health and Human Services (2018). *Physical activity guidelines for Americans*, 2nd ed. Washington, DC: U.S. Department of Health and Human Services.

- U. S. Department of Health and Human Services, National Institute on Aging (2023). *Global aging*. Retrieved from www.nia.nih.gov/research/dbsr/global-aging.
- U.S. Department of Health and Human Services, Office of Disease Preventions and Health Promotion (2020). *Healthy people 2030*. Retrieved from <https://health.gov/healthypeople/objectives-and-data/browse-objectives/physical-activity>.
- N. van der Velde, L.J. Seppala, S. Hartikainen, N. Kamkar, L. Mallet, T. Masud, et al. (2023). European position paper on polypharmacy and fall-risk-increasing drugs recommendations in the World Guidelines for falls prevention and management: Implications and implementation. *European Geriatric Medicine*, *14*, 649–658, doi.org/10.1007/s41999-023-00824-8.
- N. Van Humbeeck, R. Kliegl, & R.T. Krampe (2023). Lifespan changes in postural control. *Scientific Reports*, *13*, doi.org/10.1038/s41598-022-26934-0.
- P. Verhaegen (2014). *The elements of cognitive change: Metaanalysis of age-related differences in processing speed and their consequence*. New York: Oxford University Press.
- W. Weng, Y. Cheng, T. Yang, S. Lee, Y. Yang, & R. Wang (2022). Effects of strength exercises combined with other training on physical performance in frail older adults: A systematic review and meta-analysis. *Archives of Gerontology and Geriatrics*, *102*, doi.org/10.1016/j.archger.2022.104757.
- T. Wiedenmann, S. Held, L. Rappelt, M. Grauduszus, S. Spickermann, L. Donath, et al. (2023). Exercise based reduction of falls in community dwelling older adults: A network meta-analysis. *European Review of Aging and Physical Activity*, *20*, doi.org/10.1186/s11556-023-00311-w.
- World Health Organization (2022). *Global status report on physical activity 2022*. Retrieved from <https://www.who.int/teams/health-promotion/physical-activity/global-status-report-on-physical-activity-2022>.
- K. Wunsch, K. Kienberger, & C. Niessner (2022). Changes in physical activity patterns due to the covid-19 pandemic: A systematic review and meta-analysis. *Environmental Research and Public Health*, *19*, doi.org/10.3390/ijerph19042250.
- M. Zhai, Y. Huang, S. Zhou, Y. Jin, C. Pei, L. Wen, et al. (2023). Effects of age-related changes in trunk and lower limb range of motion on gait.

BMC Musculoskeletal Disorders, 24, 2, doi.org/10.1186/s12891-023-06301-4.

- W. Zheng & Z. Huang (2023). Onset of ADL and IADL limitation among Chinese middle-aged and older adults. *PLoS ONE*, 18, doi.org/10.1371/journal.pone.0287856.
- T. Zou, S. Cao, W. Liu, L. Li, J. Jiang, & L. Wu (2021). Is simple reaction time or choice reaction time an indicator of all-cause mortality or CVD mortality? *Public Health*, 199, 34–41, doi.org/10.1016/j.puhe.2021.07.045 .

- American Psychological Association (2014). *Standards for educational and psychological testing*. Washington, DC: American Psychological Association.
- S.J. Bagnato, J.T. Neisworth, & K. Pretti-Frontczak (2010). *Linking authentic assessment & early childhood intervention: Best measures for best practices*, 1st ed. Baltimore, MD: Paul H. Brookes.
- N. Bayley & G.P. Aylward (2019). *Bayley scales of infant and toddler development*, 4th ed. San Antonio, TX: Psychological Corporation.
- R. Bernabeu-Mora, F. Medina-Mirapeix, E. Liamazares-Herran, G. Garcia-Guillamon, L.M. Gimerez-Gimerez, & J.M. Sanchez-Nieto (2015). The short physical performance battery is a discriminative tool for identifying patients with COPD at risk of disability. *International Journal of Chronic Obstructive Pulmonary Disease*, 10, 2619–2626.
- A.H. Brigance (2014). *Brigance inventory of early development-III*. North Billerica, MA: Curriculum Associates, Inc.
- R.H. Bruininks & B.D. Bruininks (2005). *Bruininks-Oseretsky test of motor proficiency*, 1st ed. San Antonio, TX: Pearson Assessments.
- A.W. Burton & D.E. Miller (1998). *Movement skill assessment*. Champaign, IL: Human Kinetics.
- J.F. Carlson, K.F. Geisinger, & J.L. Jonson (2021). *The twenty-first mental measurements yearbook*. Lincoln, NE: Institute of Mental Measurements.
- Y.T. Chen, J.M. Barcelona, J.D. Cance, H.D. Calvert, S.P. Barnes, J. Wargo, et al. (2020). Development of the president youth fitness program index: A scale of organizational-level capacity. *Research Quarterly for Exercise and Sport*, 91(1), 172–178, doi.org/10.1080/02701367.2019.1654066.
- Cooper Institute (2017). *FITNESSGRAM administration manual*, 5th ed. Dallas: The Cooper Institute.
- Cooper Institute (2023). *What is FITNESSGRAM?* Retrieved from <https://fitnessgram.net/about/#:~:text=About>. FitnessGram, country in over 20,000 schools.
- M.E. Cress, Y. Gondo, A. Davey, S. Anderson, S. Kim, & L.W. Poon (2010). Assessing physical performance in centenarians: Norms and an extended scale from the Georgia centenarian study. *Gerontology and Geriatrics Research*, 2010, doi.org/10.1155/2010/310610.
- R. Folio & R.R. Fewell (2000). *Peabody developmental motor scale*, 1st ed. Los Angeles, CA: Western Psychological Services.

- J.M. Gurainik, E.M. Simonsick, L. Ferrucci, R.J. Glynn, L.F. Berkman, D.G. Blazer, et al. (1994). A short physical performance battery assessing lower extremity function: Association with self-reported disability and prediction of mortality and nursing home admission. *Journal of Gerontology*, *49*, M85–94.
- J. Haubenstricker (1990). Summary of fundamental motor skill stage characteristics: *Motor performance study—MSU*. Unpublished materials, Michigan State University, East Lansing, MI.
- L.D. Jong, A.D. Peters, S. Gawler, N. Chalmers, C. Henderson, J. Hooper, et al. (2018). The appeal of the Functional Fitness MOT to older adults and health professionals in an outpatient setting: A mixed-method feasibility study. *Clinical Interventions in Aging*, *13*, 1815–1829.
- A.C. Lacy & S.M. Williams (2018). *Measurement and evaluation in physical education and exercise science*, 8th ed. London: Taylor & Francis.
- B. Langhammer & J.K. Stanghelle (2011). Functional fitness in elderly Norwegians measured with the senior fitness test. *Advances in Physiotherapy*, *13*, 137–144.
- B. Langhammer & J.K. Stanghelle (2015). The senior fitness test. *Journal of Physiotherapy*, *61*, 163.
- T.W. Linder (1996). *Observing Kassandra: A transdisciplinary play-based assessment of a child with severe disabilities* (videotape). Baltimore, MD: Paul H. Brookes.
- T.W. Linder (2008a). *Transdisciplinary play-based assessment*, 1st ed. Baltimore, MD: Paul H. Brookes.
- T.W. Linder (2008b). *Transdisciplinary play-based intervention*, 1st ed. Baltimore, MD: Paul H. Brookes.
- T.W. Linder (2008c). *Administration guide for TPBA2 & TPBA2*. Baltimore, MD: Paul H. Brookes.
- E.M. Loois & W.F. Erasing (1979). *Assessing and programming gross motor development for children*, 2nd ed. Loudonville, OH: Mohican Textbook Publishing.
- J. Morrow, D. Mood, J. Disch, & M. Kang (2016). *Measurement and evaluation in human performance*, 5th ed. Champaign, IL: Human Kinetics.
- E.A. Pitchford & K. Webster (2021). Clinical validity of the Test of Gross Motor Development-3 in children with disabilities from the U.S. national normative sample. *Adapted Physical Activity Quarterly*, *38*(1), 62–78, doi.org/10.1123/apaq.2020–0023.

- Presidential Youth Fitness Program (2013). *Presidential youth fitness program physical educator resource guide* (Internet Resource). Silver Spring, MD: National Foundational on Fitness, Sports and Nutrition.
- Presidential Youth Fitness Program (2016). *Presidential youth fitness program evaluation report: 2013–2016*. Retrieved from https://pyfp.org/doc/PYFP_Process_Evaluation_Report_2013_2016_cleared.pdf.
- Presidential Youth Fitness Program (2018). *Presidential youth fitness program summary evaluation report*. Retrieved from https://pyfp.org/doc/icf_pyfp_summary_evaluation_report_11_30_18_final.pdf.
- R.E. Rikli & C.J. Jones (2013). *Senior fitness test manual*, 1st ed. Champaign, IL: Human Kinetics.
- M.A. Robertson & L.E. Halverson (1984). *Developing children—Their changing movement*. Philadelphia, PA: Lea & Febiger.
- A. Shams, L.L. Hardy, R. Vameghi, E.M. Loovis, & P.S. Dehkordi (2022). Validity and reliability of the Persian translation of the Ohio State University Scale of Intra-Gross Motor Assessment (OSU-SIGMA). *Sport Science Health, 19*, 861–867, doi.org/10.1007/s11332-022-00971-8.
- R. Suomi & J. Suomi (1997). Effectiveness of a training program with physical education students and experienced physical education teachers in scoring the test of gross motor development. *Perceptual and Motor Skills, 84*, 771–778.
- D.A. Ulrich (1984). The reliability of classification decisions made with the objectives based motor skill assessment instrument. *Adapted Physical Activity Quarterly, 1*, 52–60.
- D.A. Ulrich (2019). *Test of gross motor development-3*. Austin, TX: Pro-Ed.
- N. Veronese, F. Bolzetta, E.D. Toffanello, G. Zambon, M.D. Rui, E. Perissinotto, et al. (2014). Association between short physical performance battery and falls in older people: The Progetto Veneto Anziani study. *Rejuvenation Research, 17*(3), 276–284, doi.org/10.1089/rej.2013.1491.
- S. Volpato, M. Cavalieri, F. Sioulis, G. Guerra, C. Maraldi, G. Zuliani, et al. (2011). Predictive value of the short physical performance battery following hospitalization in older patients. *The Journal of Gerontology, 66A*, 89–96.

J.P. Winnick & F.X. Short (2014). *Brockport physical fitness test*, 1st ed.
Champaign, IL: Human Kinetics .

