BIBLIOGRAPHY

Laboratory 1

Enoka, R.M. (2015). Neuromechanics of human movement (5th ed.). Human Kinetics.

Floyd, R.T., & Thompson, C. (2020). Manual of structural kinesiology (21st ed.). McGraw Hill.

Levangie, P.K., & Norkin, C.C. (2019). *Joint structure and function: A comprehensive analysis* (6th ed.). F.A. Davis.

Laboratory 2

- Dempster, W.T. (1955). *Space requirements of the seated operator, geometrical, kinematic, and mechanical aspects of the body with special reference to the limbs.* Michigan State University.
- De Leva, P. (1996). Adjustments to Zatsiorsky-Seluyanov's segment inertia parameters. *Journal of biomechanics*, *29*(9), 1223-1230.
- Levangie, P.K., & Norkin, C.C. (2019). *Joint structure and function: A comprehensive analysis*. (6th ed.). F.A. Davis.
- Magee, D.J., & Manske, R.C. (2020). Orthopedic physical assessment (7th ed.). Elsevier.
- Norkin, C.C., & White, D.J. (2016). *Measurement of joint motion: A guide to goniometry* (5th ed.). F.A. Davis.
- Zatsiorsky, V. M. (1990). Methods of determing mass-inertial characteristics of human body segments. *Contemporasy Problems of Biomechnics*.

Laboratory 5

Burkett, B. (2019). Applied sport mechanics. Human Kinetics.

- Enoka, R.M. (2015). *Neuromechanics of human movement*. Human Kinetics.
- Flanagan, S.P. (2019). *Biomechanics: A case-based approach*. Jones & Bartlett Learning.
- Winter, D.A. (2009). *Biomechanics and motor control of human movement*. John Wiley and Sons, Inc.

Laboratory 6

Burkett, B. (2019). Applied sport mechanics. Human Kinetics.

Enoka, R.M. (2015). Neuromechanics of human movement. Human Kinetics.

Flanagan, S.P. (2019). Biomechanics: A case-based approach. Jones & Bartlett Learning.

Winter, D.A. (2009). *Biomechanics and motor control of human movement*. John Wiley and Sons, Inc.

Laboratory 7

Attwells, R.L., Birrell, S.A., Hooper, R.H., & Mansfield, N.J. (2006). Influence of carrying heavy loads on soldiers' posture, movements and gait. *Ergonomics*, *49*(14), 1527-1537.

Birrell, S.A., & Haslam, R.A. (2009). The effect of military load carriage on 3-D lower limb

kinematics and spatiotemporal parameters. *Ergonomics*, 52(10), 1298-1304.

- Birrell, S.A., & Haslam, R.A. (2010). The effect of load distribution within military load carriage systems on the kinetics of human gait. *Applied ergonomics*, *41*(4), 585-590.
- Chander, H., Kodithuwakku Arachchige, S.N.K., Wilson, S.J., Knight, A.C., Burch, R.F.V., Carruth, D.W., Wade, C., & Garner, J.C. (2020 in press). Impact of military footwear type and load carriage on slip initiation biomechanics. *International Journal of Human Factors and Ergonomics*.
- David, G.C. (2005). Ergonomic methods for assessing exposure to risk factors for work-related musculoskeletal disorders. *Occupational Medicine*, 55(3), 190-199.
- Escamilla, R.F., Fleisig, G.S., DeRenne, C., Taylor, M., Moorman, C.T., Imamura, R. & Andrews, J.R. (2009). A comparison of age level on baseball hitting kinematics. *Journal of Applied Biomechanics*, *25*, 210-218.
- Fleisig, G.S., Barrentine, S.W., Zheng, N., Escamilla, R.F., & Andrews, J.R. (1999). Kinematic and kinetic comparison of baseball pitching among various levels of development. *Journal of Biomechanics*, *32*, 1371-1375.
- Fry, A.C., Smith, J.C., & Schilling, B.K. (2003). Effect of knee position on hip and knee torque during the barbell squat. *The Journal of Strength and Conditioning Research*, *17*(4), 629-633.
- Hertel, J. (2019). An updated model of chronic ankle instability. *Journal of Athletic Training*, 54(6), 572-588.
- Herzog, M.M., Kerr, Z.Y., Marshall, S.W., & Wikstrom, E.A. (2019). Epidemiology of ankle sprains and chronic ankle instability. *Journal of Athletic Training*, 54(6), 603-610.
- Konradsen, L., Voigt, M., & Hojsgaard, C. (1997). Ankle inversion injuries: The role of the dynamic defense mechanism. *American Journal of Sports Medicine*, *25*(1), 54-58.
- Kumar, S. (Ed.). (2007). Biomechanics in ergonomics (2nd ed.). CRC Press.
- Li, Y., Ko, J., Zhang, S., Brown, C.N., & Simpson, K.J. (2019). Biomechanics of ankle giving way: A case report of accidental ankle giving way during the drop landing test. *Journal of Sport and Health Science*, *8*(5), 494-502.
- List, R., Gulay, T., Stoop, M., & Lorenzetti, S. (2013). Kinematics of the trunk and the lower extremities during restricted and unrestricted squats. *The Journal of Strength and Conditioning Research*, *27*(6), 1529-1538.
- Majumdar, D., Pal, M.S., & Majumdar, D. (2010). Effects of military load carriage on kinematics of gait. *Ergonomics*, 53(6), 782-791.
- Papadopoulos, E., Nicolopoulos, C., Anderson, E., Curran, M., & Athanasopoulos, S. (2005). The role of ankle bracing in injury prevention, athletic performance and neuromuscular control: A review of the literature. *The Foot*, *15*(1), 1-6.
- Punnett, L., & Wegman, D.H. (2004). Work-related musculoskeletal disorders: The epidemiologic evidence and the debate. *Journal of Electromyography and Kinesiology*, *14*(1), 13-23.
- Putnam, C.A. (1983). Sequential motions of body segments in striking and throwing skills: Description and explanations. *Journal of Biomechanics*, *26*(Suppl), 125-135.
- Whitting, J.W., Meir, R.A., Crowley-McHattan, Z.J., & Holding, R.C. (2016). Influence of footwear type on barbell back squat using 50, 70, and 90% of one repetition maximum: A

biomechanical analysis. *The Journal of Strength and Conditioning Research*, 30(4), 1085-1092.

Laboratory 8

- Chavda, S., Bromley, T., Jarvis, P., Williams, S., Bishop, C., Turner, A.N., Lake, J.P., Mundy, P.D. (2018). Force-time characteristics of the countermovement jump: Analyzing the curve in Excel. *Strength & Conditioning Journal*, *40*, 67-77.
- Cormie, P., McGuigan, M.R., & Newton, R.U. (2010a). Adaptations in athletic performance after ballistic power versus strength training. *Medicine & Science in Sports & Exercise*, 42, 1582-1598.
- Cormie, P., McGuigan, M.R., & Newton, R.U. (2010b). Influence of strength on magnitude and mechanisms of adaptation to power training. *Medicine & Science in Sports & Exercise*, *42*, 1566-1581.
- Garhammer, J., & Gregor, R. (1992). Propulsion forces as a function of intensity for weightlifting and vertical jumping. *Journal of Applied Sport Science Research*, *6*, 129-134.
- Pontillo, M., Hines, S., Sennett, B. (2020). Prediction of lower extremity injuries from vertical jump kinetic data in collegiate athletes. *Journal of Orthopaedic and Sports Physical Therapy*, *50*, CSM30.

Laboratory 9

- Aagaard, P., Simonsen, E.B., Andersen, J.L., Magnusson, P., & Dyhre-Poulsen, P. (2002). Increased rate of force development and neural drive of human skeletal muscle following resistance training. *Journal of Applied Physiology*, *93*, 1318-1326.
- Chavda, S., Bromley, T., Jarvis, P., Williams, S., Bishop, C., Turner, A.N., Lake, J.P., Mundy, P.D. (2018). Force-time characteristics of the countermovement jump: Analyzing the curve in Excel. *Strength & Conditioning Journal*, *40*, 67-77.
- Kirby, T.J., McBride, J.M., Haines, T.L., & Dayne, A.M. (2011). Relative net vertical impulse determines jumping performance. *Journal of Applied Biomechanics*, *27*, 207-214.
- Laffaye, G., & Wagner, P. (2013). Eccentric rate of force development determines jumping performance. *Computer Methods in Biomechanics and Biomedical Engineering*, *16*, 82-83.
- Winter, E.M. (2005). Jumping: Power or impulse? *Medicine and Science in Sports and Exercise*, *37*, 523.

Laboratory 10

Burkett, B. (2019). Applied sport mechanics. Human Kinetics.

Enoka, R.M. (2015). Neuromechanics of human movement. Human Kinetics.

- Flanagan, S.P. (2019). *Biomechanics: A case-based approach*. Jones & Bartlett Learning.
- Winter, D.A. (2009). *Biomechanics and motor control of human movement*. John Wiley and Sons, Inc.

Laboratory 11

Burkett, B. (2019). Applied sport mechanics. Human Kinetics.

Enoka, R.M. (2015). Neuromechanics of human movement. Human Kinetics.

Flanagan, S.P. (2019). *Biomechanics: A case-based approach*. Jones & Bartlett Learning.

Winter, D.A. (2009). *Biomechanics and motor control of human movement*. John Wiley and Sons, Inc.

Laboratory 12

- Bell, D.R., Guskiewicz, K.M., Clark, M.A., & Padua, D.A. (2011). Systematic review of the balance error scoring system. *Sports Health*, *3*(3), 287-295.
- Berg, K., Wood-Dauphinee, S, Williams, J.I., & Maki, B. (1992). Measuring balance in the elderly: Validation of an instrument. *Canadian Journal of Public Health*, 2(July/August supplement), S7-S11.
- Enoka, R.M. (2015). Neuromechanics of human movement (5th ed.). Human Kinetics.
- Horak, F.B. (2006). Postural orientation and equilibrium: What do we need to know about neural control of balance to prevent falls? *Age and Ageing*, *35*(suppl 2), ii7-ii11.
- Kandel, E.R., Schwartz, J.H., Jessell, T.M., Siegelbaum, S., Hudspeth, A.J., & Mack, S. (Eds.). (2021). *Principles of neural science* (6th ed.). McGraw-Hill.
- Levangie, P.K., & Norkin, C.C. (2019). *Joint structure and function: A comprehensive analysis* (6th ed.). F.A. Davis.
- Rodgers, M.M., & Cavanagh, P.R. (1984). Glossary of biomechanical terms, concepts, and units. *Physical Therapy*, 64(12), 1886-1902.
- Winter, D.A. (1995). Human balance and posture control during standing and walking. *Gait & Posture*, *3*(4), 193-214.

Laboratory 13

Enoka, R.M. (2015). Neuromechanics of human movement (5th ed.). Human Kinetics.

- Levangie, P.K., & Norkin, C.C. (2019). *Joint structure and function: A comprehensive analysis* (6th ed.). F.A. Davis.
- Winter, D.A. (1995). Human balance and posture control during standing and walking. *Gait & posture*, *3*(4), 193-214.