REFERENCES

Chapter 1

- Aboodarda, S.J., J. George, A.H. Mokhtar, and M. Thompson. 2011. "Muscle Strength and Damage Following Two Modes of Variable Resistance Training." *J Sports Sci Med* 10: 635-642.
- Aboodarda, S.J., M.S.A. Hamid, A.M.C. Muhamed, F. Ibrahim, and M. Thompson. 2013. "Resultant Muscle Torque and Electromyographic Activity During High Intensity Elastic Resistance and Free Weight Exercises." *Eur J Sport Sci* 13 (2): 155-163.
- Aboodarda, S.J., P.A. Page, and D.G. Behm. 2015. "Eccentric and Concentric Jumping Performance During Augmented Jumps With Elastic Resistance: A Meta-Analysis." *Int J Sports Phys Ther* 10, (6): 839-849.
- Aboodarda, S.J., P.A. Page, and D.G. Behm. 2016. "Muscle Activation Comparisons Between Elastic and Isoinertial Resistance: A Meta-Analysis." *Clin Biomech (Bristol, Avon)* 39 (November): 52-61.
- Biscarini, A. 2012. "Determination and Optimization of Joint Torques and Joint Reaction Forces in Therapeutic Exercises With Elastic Resistance." *Med Eng Phys* 34 (1): 9-16.
- Calatayud, J., S. Borreani, J.C. Colado, F. Martin, and M.E. Rogers. 2014. "Muscle Activity Levels in Upper-Body Push Exercises With Different Loads and Stability Conditions." *Phys Sportsmed* 42 (4): 106-119.
- Colado, J.C., and N.T. Triplett. 2008. "Effects of a Short-Term Resistance Program Using Elastic Bands Versus Weight Machines for Sedentary Middle-Aged Women." *J Strength Cond Res* 22 (5): 1441-1448.
- Hughes, C.J., K. Hurd, A. Jones, and S. Sprigle. 1999. "Resistance Properties of Thera-Band Tubing During Shoulder Abduction Exercise." *J Orthop Sports Phys Ther* 29 (7): 413-420.
- Jakobsen, M.D., E. Sundstrup, C.H. Andersen, P. Aagaard, and L.L. Andersen. 2013. "Muscle Activity During Leg Strengthening Exercise Using Free Weights and Elastic Resistance: Effects of Ballistic Vs Controlled Contractions." *Hum Mov Sci* 32 (1): 65-78.
- Sundstrup, E., M.D. Jakobsen, C.H. Andersen, K. Jay, and L.L. Andersen. 2012. "Swiss Ball Abdominal Crunch With Added Elastic Resistance Is an Effective Alternative to Training Machines." *Int J Sports Phys Ther* 7 (4): 372-380.

Chapter 2

- Hughes, C.J., K. Hurd, A. Jones, and S. Sprigle. 1999. "Resistance Properties of Thera-Band Tubing During Shoulder Abduction Exercise." *J Orthop Sports Phys Ther* 29 (7): 413-20.
- Page, P., L. Andersen, J.C. Colado, M. Rogers, M. Voight, and D. Behm. 2019. "The Science of Elastic Resistance Exercise Dosing." *J Perform Health Res* 3 (1): 19-29. In Review.
- Page, P., R. Topp, P. Maloney, E. Jaeger, A. Labbe, and G.W. Stewart. 2017. "A Comparison of Resistive Torque Generated by Elastic Resistance and Isotonic Resistance (Abstract)." *J Orthop Sports Phys Ther* 47 (1): A203.
- 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.

Chapter 3

- Andersen, L.L., J. Vinstrup, M.D. Jakobsen, and E. Sundstrup. 2017. "Validity and Reliability of Elastic Resistance Bands for Measuring Shoulder Muscle Strength." *Scand J Med Sci Sports* 27 (8): 887-894.
- Behm, D.G., and K.G. Anderson. 2006. "The Role of Instability With Resistance Training." *J Strength Cond Res* 20 (3): 716-722.
- Colado, J.C., X. Garcia-Masso, T.N. Triplett, J. Flandez, S. Borreani, and V. Tella. 2012. "Concurrent Validation of the Omni-Resistance Exercise Scale of Perceived Exertion With Thera-Band Resistance Bands." *J Strength Cond Res* 26 (11): 3018-3024.
- Colado, J.C., F.M. Pedrosa, A. Juesas, P. Gargallo, J.J. Carrasco, J. Flandez, M.U. Chupel, A.M. Teixeira, and F. Naclerio. 2018. "Concurrent Validation of the Omni-Resistance Exercise Scale of Perceived Exertion With Elastic Bands in the Elderly." *Exp Gerontol* 103 (March): 11-16.
- Colado, J.C., and N.T. Triplett. 2008. "Effects of a Short-Term Resistance Program Using Elastic Bands Versus Weight Machines for Sedentary Middle-Aged Women." *J Strength Cond Res* 22 (5): 1441-1448.
- Garber, C.E., B. Blissmer, M.R. Deschenes, B.A. Franklin, M.J. Lamonte, I.M. Lee, D.C. Nieman, D.P. Swain, and Medicine American College of Sports. 2011. "American College of Sports Medicine Position Stand. Quantity and Quality of Exercise for Developing and Maintaining Cardiorespiratory, Musculoskeletal, and Neuromotor Fitness in Apparently Healthy Adults: Guidance for Prescribing Exercise." *Med Sci Sports Exerc* 43 (7): 1334-1359.
- Reibe, D., ed. 2018. ACSM's Guidelines for Exercise Testing and Prescription. 10th ed. Philadelphia: Wolters Kluwer.
- Topp, R., A. Mikesky, and K. Thompson. 1998. "Determinants of Four Functional Tasks Among Older Adults: An Exploratory Regression Analysis." *J Orthop Sports Phys Ther* 27 (2): 144-153.
- U.S. Department of Health and Human Services (HHS). 2018. *Physical Activity Guidelines for Americans*. 2nd ed. Washington, DC: U.S. Department of Health and Human Services. Available online: https://health.gov/PAGuidelines

Chapter 5

- Andersen, L.L., C.A. Saervoll, O.S. Mortensen, O.M. Poulsen, H. Hannerz, and M.K. Zebis. 2011. "Effectiveness of Small Daily Amounts of Progressive Resistance Training for Frequent Neck/Shoulder Pain: Randomised Controlled Trial." *Pain* 152 (2): 440-446.
- Brandt, M., M.D. Jakobsen, K. Thorborg, E. Sundstrup, K. Jay, and L.L. Andersen. 2013. "Perceived Loading and Muscle Activity During Hip Strengthening Exercises: Comparison of Elastic Resistance and Machine Exercises." *Int J Sports Phys Ther* 8 (6): 811-819.
- Hopkins, J.T., C.D. Ingersoll, M.A. Sandrey, and S.D. Bleggi. 1999. "An Electromyographic Comparison of 4 Closed Chain Exercises." *J Athl Train* 34 (4): 353-357.
- Jakobsen, M.D., E. Sundstrup, C.H. Andersen, T. Bandholm, K. Thorborg, M.K. Zebis, and L.L. Andersen. 2012. "Muscle Activity During Knee-Extension Strengthening Exercise Performed With Elastic Tubing and Isotonic Resistance." Int J Sports Phys Ther 7 (6): 606-616.
- Jakobsen, M.D., E. Sundstrup, C.H. Andersen, R. Persson, M.K. Zebis, and L.L. Andersen. 2014. "Effectiveness of Hamstring Knee Rehabilitation Exercise Performed in Training Machine Vs. Elastic Resistance: Electromyography Evaluation Study." *Am J Phys Med Rehabil* 93 (4): 320-327.
- Reinold, M.M., K.E. Wilk, G.S. Fleisig, N. Zheng, S.W. Barrentine, T. Chmielewski, R.C. Cody, G.G. Jameson, and J.R. Andrews. 2004. "Electromyographic Analysis of the Rotator Cuff and Deltoid Musculature During Common Shoulder External Rotation Exercises." *J Orthop Sports Phys Ther* 34 (7): 385-394.

- Serner, A., M.D. Jakobsen, L.L. Andersen, P. Holmich, E. Sundstrup, and K. Thorborg. 2014. "EMG Evaluation of Hip Adduction Exercises for Soccer Players: Implications for Exercise Selection in Prevention and Treatment of Groin Injuries." *Br J Sports Med* 48 (14): 1108-1114.
- Thigpen, C.A., D.A. Padua, N. Morgan, C. Kreps, and S.G. Karas. 2006. "Scapular Kinematics During Supraspinatus Rehabilitation Exercise: A Comparison of Full-Can Versus Empty-Can Techniques." *Am J Sports Med* 34 (4): 644-652.
- Willett, G.M., J.B. Paladino, K.M. Barr, J.N. Korta, and G.M. Karst. 1998. "Medial and Lateral Quadriceps Muscle Activity During Weight-Bearing Knee Extension Exercise." *J Sport Rehabil* 7: 248-257.

Chapter 6

- Calatayud, J., S. Borreani, J.C. Colado, F. Martin, and M.E. Rogers. 2014. "Muscle Activity Levels in Upper-Body Push Exercises With Different Loads and Stability Conditions." *Phys Sportsmed* 42 (4): 106-119.
- Choi, W.J., T.L. Yoon, S.A. Choi, J.H. Lee, and H.S. Cynn. 2017. "Different Weight Bearing Push-Up Plus Exercises With and Without Isometric Horizontal Abduction in Subjects With Scapular Winging: A Randomized Trial." *J Bodyw Mov Ther* 21 (3): 582-588.
- Decker, M.J., R.A. Hintermeister, K.J. Faber, and R.J. Hawkins. 1999. "Serratus Anterior Muscle Activity During Selected Rehabilitation Exercises." *Am J Sports Med* 27 (6): 784-791.
- Hintermeister, R.A., G.W. Lange, J.M. Schultheis, M.J. Bey, and R.J. Hawkins. 1998. "Electromyographic Activity and Applied Load During Shoulder Rehabilitation Exercises Using Elastic Resistance." *Am J Sports Med* 26 (2): 210-220.
- Iversen, V.M., P.J. Mork, O. Vasseljen, R. Bergquist, and M.S. Fimland. 2017. "Multiple-Joint Exercises Using Elastic Resistance Bands Vs. Conventional Resistance-Training Equipment: A Cross-Over Study." *Eur J Sport Sci* 17 (8): 973-982.
- Reinold, M.M., K.E. Wilk, G.S. Fleisig, N. Zheng, S.W. Barrentine, T. Chmielewski, R.C. Cody, G.G. Jameson, and J.R. Andrews. 2004. "Electromyographic Analysis of the Rotator Cuff and Deltoid Musculature During Common Shoulder External Rotation Exercises." *J Orthop Sports Phys Ther* 34 (7): 385-394.
- Witt, D., N. Talbott, and S. Kotowski. 2011. "Electromyographic Activity of Scapular Muscles During Diagonal Patterns Using Elastic Resistance and Free Weights." *Int J Sports Phys Ther* 6 (4): 322-332.

Chapter 7

- Berry, J.W., T.S. Lee, H.D. Foley, and C.L. Lewis. 2015. "Resisted Side Stepping: The Effect of Posture on Hip Abductor Muscle Activation." *J Orthop Sports Phys Ther* 45 (9): 675-682.
- Colado, J.C., and N.T. Triplett. 2008. "Effects of a Short-Term Resistance Program Using Elastic Bands Versus Weight Machines for Sedentary Middle-Aged Women." *Strength Cond Res* 22 (5): 1441-1448.
- Cordova, M.L., L.S. Jutte, and J.T. Hopkins. 1999. "EMG Comparison of Selected Ankle Rehabilitation Exercises." *J Sport Rehabil* 8 (3): 209-218.
- Hintermeister, R.A., M.J. Bey, G.W. Lange, J.R. Steadman, and C.J. Dillman. 1998. "Quantification of Elastic Resistance Knee Rehabilitation Exercises." *J Orthop Sports Phys Ther* 28 (1): 40-50.
- Hoogenboom, B.J., A. Stinson, A. Huyser, and M. Suter. 2018. "2D Video Analysis of the Effects of Theraband CLX Neuromuscular Exercises on Overhead Deep Squat: An Observational Cohort Study." *J Perform Health Res* 2 (1): 27-39.
- Hopkins, J.T., C.D. Ingersoll, M.A. Sandrey, and S.D. Bleggi. 1999. "An Electromyographic Comparison of 4 Closed Chain Exercises." *J Athl Train* 34 (4): 353-357.

- Iversen, V.M., P.J. Mork, O. Vasseljen, R. Bergquist, and M.S. Fimland. 2017. "Multiple-Joint Exercises Using Elastic Resistance Bands Vs. Conventional Resistance-Training Equipment: A Cross-Over Study." *Eur J Sport Sci* 17 (8): 973-982.
- Kang, M.H., J.H. Jang, T.H. Kim, and J.S. Oh. 2014. "Effects of Shoulder Flexion Loaded by an Elastic Tubing Band on Emg Activity of the Gluteal Muscles During Squat Exercises." *J Phys Ther Sci* 26 (11): 1787-1789.
- Reinold, M.M., K.E. Wilk, G.S. Fleisig, N. Zheng, S.W. Barrentine, T. Chmielewski, R.C. Cody, G.G. Jameson, and J.R. Andrews. 2004. "Electromyographic Analysis of the Rotator Cuff and Deltoid Musculature During Common Shoulder External Rotation Exercises." *J Orthop Sports Phys Ther* 34 (7): 385-394.
- Selkowitz, D.M., G.J. Beneck, and C.M. Powers. 2013. "Which Exercises Target the Gluteal Muscles While Minimizing Activation of the Tensor Fascia Lata? Electromyographic Assessment Using Fine-Wire Electrodes." *J Orthop Sports Phys Ther* 43 (2): 54-64.
- Spracklin, K.F., D.C. Button, and I. Halperin. 2018. "Looped Band Placed Around Thighs Increases EMG of Gluteal Muscles Without Hindering Performance During Squatting." *J Perform Health Res* 1 (1): 60-71.
- Sundstrup, E., M.D. Jakobsen, C.H. Andersen, T. Bandholm, K. Thorborg, M.K. Zebis, and L.L. Andersen. 2014. "Evaluation of Elastic Bands for Lower Extremity Resistance Training in Adults With and Without Musculo-Skeletal Pain." *Scand J Med Sci Sports* 24 (5): e353-e359.

Chapter 8

- Gottschall, J.S., J. Mills, and B. Hastings. 2013. "Integration Core Exercises Elicit Greater Muscle Activation Than Isolation Exercises." *J Strength Cond Res* 27 (3): 590-596.
- Sundstrup, E., M.D. Jakobsen, C.H. Andersen, K. Jay, and L.L. Andersen. 2012. "Swiss Ball Abdominal Crunch With Added Elastic Resistance Is an Effective Alternative to Training Machines." *Int J Sports Phys Ther* 7 (4): 372-380.
- Vinstrup, J., E. Sundstrup, M. Brandt, M.D. Jakobsen, J. Calatayud, and L.L. Andersen. 2015. Core Muscle Activity, Exercise Preference, and Perceived Exertion During Core Exercise With Elastic Resistance Versus Machine." *Scientifica* 2015 (403068): 1-6.

Chapter 10

Garber, C.E., B. Blissmer, M.R. Deschenes, B.A. Franklin, M.J. Lamonte, I.M. Lee, D.C. Nieman, D.P. Swain, and Medicine American College of Sports. 2011. "American College of Sports Medicine Position Stand. Quantity and Quality of Exercise for Developing and Maintaining Cardiorespiratory, Musculoskeletal, and Neuromotor Fitness in Apparently Healthy Adults: Guidance for Prescribing Exercise." *Med Sci Sports Exerc* 43 (7): 1334-1359.