

DAFTAR PUSTAKA

- Agarwal, I., Glazer, N. L., Barasch, E., Biggs, M. L., Djoussé, L., Fitzpatrick, A. L., Gottdiener, J. S., Ix, J. H., Kizer, J. R., Rimm, E. B., Siscovick, D. S., Tracy, R. P., Zieman, S. J., & Mukamal, K. J. (2014). Fibrosis- Related Biomarkers and Risk of Total and Cause-Specific Mortality. *American Journal of Epidemiology*, 179(11), 1331–1339. <https://doi.org/10.1093/aje/kwu067>
- Ahangar, P., Mills, S. J., & Cowin, A. J. (2020). Mesenchymal Stem Cell Secretome as an Emerging Cell-Free Alternative for Improving Wound Repair. *International Journal of Molecular Sciences*, 21(19), 7038. <https://doi.org/10.3390/ijms21197038>
- Alim, A. (2019). *Mechanisms in Tendon Healing* (Vol. 1710). Acta Universitatis Upsaliensis. <https://doi.org/10.33063/diva-427327>
- Alim, A., Peterson, M., & Pejler, G. (2020). Do Mast Cells Have a Role in Tendon Healing and Inflammation? *Cells*, 9(5), 1134. <https://doi.org/10.3390/cells9051134>
- Awad, H. A., Butler, D. L., Boivin, G. P., Smith, F. N., Malaviya, P., Huibregtse, B., & Caplan, A. I. (1999). Autologous mesenchymal stem cell-mediated repair of tendon. *Tissue engineering*, 5(3), 267-277.
- Bass, LMT, E. (2012). Tendinopathy: Why the Difference Between Tendinitis and Tendinosis Matters. *International Journal of Therapeutic Massage & Bodywork: Research, Education, & Practice*, 5(1), 14–17. <https://doi.org/10.3822/ijtmb.v5i1.153>
- Bavin, E. P., Smith, O., Baird, A. E. G., Smith, L. C., & Guest, D. J. (2015). Equine Induced Pluripotent Stem Cells have a Reduced Tendon Differentiation Capacity Compared to Embryonic Stem Cells. *Frontiers in Veterinary Science*, 2. <https://doi.org/10.3389/fvets.2015.00055>
- Benjamin, M., Kaiser, E., & Milz, S. (2008). Structure-function relationships in tendons: A review. *Journal of Anatomy*, 212(3), 211–228. <https://doi.org/10.1111/j.1469-7580.2008.00864.x>
- Beredjiklian, P. K. (2003). BIOLOGIC ASPECTS OF FLEXOR TENDON LACERATION AND REPAIR: *The Journal of Bone and Joint Surgery-American Volume*, 85(3), 539–550. <https://doi.org/10.2106/00004623-200303000-00025>
- Bhasin, S., He, E. J., Kawakubo, M., Schroeder, E. T., Yarasheski, K., Opitck, G. J., Reicin, A., Chen, F., Lam, R., Tsou, J. A., Castaneda-Sceppa, C., Binder, E. F., Azen, S. P., & Sattler, F. R. (2009). N- Terminal Propeptide of Type III Procollagen as a Biomarker of Anabolic Response to Recombinant Human GH and Testosterone. *The Journal of Clinical Endocrinology & Metabolism*, 94(11), 4224– 4233. <https://doi.org/10.1210/jc.2009-1434>
- Bi, Y., Ehrchiou, D., Kilts, T. M., Inkson, C. A., Embree, M. C., Sonoyama, W., Li, L., Leet, A. I., Seo, B.-M., Zhang, L., Shi, S., & Young, M. F. (2007). Identification of tendon stem/progenitor cells and the role of the extracellular matrix in their niche. *Nature Medicine*, 13(10), 1219– 1227. <https://doi.org/10.1038/nm1630>



- Boyer, M. I., Gelberman, R. H., Burns, M. E., Dinopoulos, H., Hofem, R., & Silva, M. J. (2001). Intrasynovial flexor tendon repair. An experimental study comparing low and high levels of in vivo force during rehabilitation in canines. *The Journal of Bone and Joint Surgery. American Volume*, 83(6), 891–899.
- Boyer, M. I., Strickland, J. W., Engles, D., Sachar, K., & Leversedge, F. J. (2003). Flexor tendon repair and rehabilitation: State of the art in 2002. *Instructional Course Lectures*, 52, 137–161.
- Buckley, M. R., Evans, E. B., Matuszewski, P. E., Chen, Y.-L., Satchel, L.N., Elliott, D. M., Soslowsky, L. J., & Dodge, G. R. (2013). Distributions of types I, II and III collagen by region in the human supraspinatus tendon. *Connective Tissue Research*, 54(6), 374–379. <https://doi.org/10.3109/03008207.2013.847096>
- Chan, B. P., Fu, S. C., Qin, L., Rolf, C., & Chan, K. M. (2006). Supplementation-time Dependence of Growth Factors in Promoting Tendon Healing: *Clinical Orthopaedics and Related Research*, 448, 240–247. <https://doi.org/10.1097/01.blo.0000205875.97468.e4>
- Chang, J., Most, D., Thunder, R., Mehrara, B., Longaker, M. T., & Lineaweaver, W. C. (1998). Molecular studies in flexor tendon wound healing: The role of basic fibroblast growth factor gene expression. *The Journal of Hand Surgery*, 23(6), 1052–1058. [https://doi.org/10.1016/S0363-5023\(98\)80015-4](https://doi.org/10.1016/S0363-5023(98)80015-4)
- Chen, C. H., Cao, Y., Wu, Y. F., Bais, A. J., Gao, J. S., & Tang, J. B. (2008). Tendon Healing In Vivo: Gene Expression and Production of Multiple Growth Factors in Early Tendon Healing Period. *The Journal of Hand Surgery*, 33(10), 1834–1842. <https://doi.org/10.1016/j.jhsa.2008.07.003>
- Chen, T., You, Y., Jiang, H., & Wang, Z. Z. (2017). Epithelial–mesenchymal transition (EMT): A biological process in the development, stem cell differentiation, and tumorigenesis. *Journal of cellular physiology*, 232(12), 3261–3272.
- Childress, M. A., & Beutler, A. (2013). Management of chronic tendon injuries. *American Family Physician*, 87(7), 486–490.
- Civitelli, R., Armamento-Villareal, R., & Napoli, N. (2009). Bone turnover markers: Understanding their value in clinical trials and clinical practice. *Osteoporosis International*, 20(6), 843–851. <https://doi.org/10.1007/s00198-009-0838-9>
- Costa-Almeida, R., Berdecka, D., Rodrigues, M. T., Reis, R. L., & Gomes, M. E. (2018). Tendon explant cultures to study the communication between adipose stem cells and native tendon niche. *Journal of Cellular Biochemistry*, 119(4), 3653–3662. <https://doi.org/10.1002/jcb.26573>
- Costa-Almeida, R., Calejo, I., & Gomes, M. E. (2019). Mesenchymal Stem Cells Empowering Tendon Regenerative Therapies. *International Journal of Molecular Sciences*, 20(12), 3002. <https://doi.org/10.3390/ijms20123002>
- Costa-Almeida, R., Calejo, I., Reis, R. L., & Gomes, M. E. (2018). Crosstalk between adipose stem cells and tendon cells reveals a temporal regulation of tenogenesis by matrix deposition and remodeling. *Journal of Cellular Physiology*, 233(7), 5383–5395. <https://doi.org/10.1002/jcp.26363>
- P. M., Wade, J. C., Taylor, M. R., & Holland, C. V. (1997). Serum concentrations of carboxyl-terminal propeptide of type I procollagen, amino-terminal propeptide of type III procollagen, cross-linked carboxyl-terminal telopeptide of type I collagen, and their interrelationships in



- schoolchildren. *Clinical Chemistry*, 43(9), 1577– 1581.
- Curcio, F., Ferro, G., Basile, C., Liguori, I., Parrella, P., Pirozzi, F., Della- Morte, D., Gargiulo, G., Testa, G., Tocchetti, C. G., Bonaduce, D., & Abete, P. (2016). Biomarkers in sarcopenia: A multifactorial approach. *Experimental Gerontology*, 85, 1–8. <https://doi.org/10.1016/j.exger.2016.09.007>
- Dahlgren, L. A., Mohammed, H. O., & Nixon, A. J. (2005). Temporal expression of growth factors and matrix molecules in healing tendon lesions. *Journal of Orthopaedic Research*, 23(1), 84–92. <https://doi.org/10.1016/j.orthres.2004.05.007>
- Ditsios, K. T., Burns, M. E., Boyer, M. I., Gelberman, R. H., & Silva, M. J. (2002). The rigidity of repaired flexor tendons increases following ex vivo cyclic loading. *Journal of Biomechanics*, 35(6), 853–856. [https://doi.org/10.1016/S0021-9290\(02\)00013-1](https://doi.org/10.1016/S0021-9290(02)00013-1)
- Docheva, D., Müller, S. A., Majewski, M., & Evans, C. H. (2015). Biologics for tendon repair. *Advanced Drug Delivery Reviews*, 84, 222–239. <https://doi.org/10.1016/j.addr.2014.11.015>
- Dourte, L. M., Perry, S. M., Getz, C. L., & Soslowsky, L. J. (2010). Tendon Properties Remain Altered in a Chronic Rat Rotator Cuff Model. *Clinical Orthopaedics & Related Research*, 468(6), 1485–1492. <https://doi.org/10.1007/s11999-009-1206-y>
- Farhat, Y. M., Al-Maliki, A. A., Easa, A., O'Keefe, R. J., Schwarz, E. M., & Awad, H. A. (2015). TGF- β 1 Suppresses Plasmin and MMP Activity in Flexor Tendon Cells via PAI-1: Implications for Scarless Flexor Tendon Repair: TGF- β 1 SUPPRESSES PROTEASES VIA PAI-1 IN TENOCYTES. *Journal of Cellular Physiology*, 230(2), 318–326. <https://doi.org/10.1002/jcp.24707>
- Flint, J. H., Wade, A. M., Giuliani, J., & Rue, J.-P. (2014). Defining the Terms Acute and Chronic in Orthopaedic Sports Injuries: A Systematic Review. *The American Journal of Sports Medicine*, 42(1), 235–241. <https://doi.org/10.1177/0363546513490656>
- Flodin, J., Juthberg, R., Edman, G., & Flodin, J. (2019). Patient-Reported Outcome and Healing Biomarkers in Patients Treated by Female versus Male Surgeons– A cohort study on Achilles tendon ruptures. *Muscle Ligaments and Tendons Journal*, 09(04), 531. <https://doi.org/10.32098/mltj.04.2019.07>
- Fragala, M. S., Jajtner, A. R., Beyer, K. S., Townsend, J. R., Emerson, N. S., Scanlon, T. C., Oliveira, L. P., Hoffman, J. R., & Stout, J. R. (2014). Biomarkers of muscle quality: N-terminal propeptide of type III procollagen and C-terminal agrin fragment responses to resistance exercise training in older adults. *Journal of Cachexia, Sarcopenia and Muscle*, 5(2), 139–148. <https://doi.org/10.1007/s13539-013-0120-z>
- González, M. A., Gonzalez–Rey, E., Rico, L., Büscher, D., & Delgado, M. (2009). Adipose-derived mesenchymal stem cells alleviate experimental colitis by inhibiting inflammatory and autoimmune responses. *Gastroenterology*, 136(3), 978-989.
- Gonzalez-Lopez, L., Rocha-Muñoz, A. D., Olivas-Flores, E. M., Garcia-Gonzalez, A., Peguero-Gómez, A. R., Flores-Navarro, J., Villa-Manzano, A. I., Zavaleta-Muñiz, S. A., Salazar-Paramo, M., Mejía, M., Juárez-Contreras, P., Vazquez-del Mercado, M., Cardona- Muñoz, E. G., Trujillo-Hernández, B., Nava-Zavala, A. H., & Gamez- Nava, J. I. (2015). Niveles de propéptido aminoterminal de procolágeno tipos i y iii / gravedad de la enfermedad pulmonar intersticial en mujeres mexicanas con esclerosis sistémica progresiva. *Archivos de Bronconeumología*, 51(9), 440–448.



<https://doi.org/10.1016/j.arbres.2014.06.018>

- Goodpaster, B. H., Park, S. W., Harris, T. B., Kritchevsky, S. B., Nevitt, M., Schwartz, A. V., Simonsick, E. M., Tylavsky, F. A., Visser, M., Newman, A. B., & for the Health ABC Study. (2006). The Loss of Skeletal Muscle Strength, Mass, and Quality in Older Adults: The Health, Aging and Body Composition Study. *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*, 61(10), 1059–1064. <https://doi.org/10.1093/gerona/61.10.1059>
- Harkin, E., Pinzur, M., & Schiff, A. (2017). Treatment of Acute and Chronic Tibialis Anterior Tendon Rupture and Tendinopathy. *Foot and Ankle Clinics*, 22(4), 819–831. <https://doi.org/10.1016/j.fcl.2017.07.009>
- Heisterbach, P. E., Todorov, A., Flückiger, R., Evans, C. H., & Majewski, M. (2012). Effect of BMP-12, TGF- β 1 and autologous conditioned serum on growth factor expression in Achilles tendon healing. *Knee Surgery, Sports Traumatology, Arthroscopy*, 20(10), 1907–1914. <https://doi.org/10.1007/s00167-011-1772-x>
- Ho, J. O., Sawadkar, P., & Mudera, V. (2014). A review on the use of cell therapy in the treatment of tendon disease and injuries. *Journal of Tissue Engineering*, 5, 204173141454967. <https://doi.org/10.1177/2041731414549678>
- Hoffmann, A., & Gross, G. (2007). Tendon and ligament engineering in the adult organism: Mesenchymal stem cells and gene-therapeutic approaches. *International Orthopaedics*, 31(6), 791–797. <https://doi.org/10.1007/s00264-007-0395-9>
- Howard, R. F., Ondrovic, L., & Greenwald, D. P. (1997). Biomechanical analysis of four-strand extensor tendon repair techniques. *The Journal of Hand Surgery*, 22(5), 838–842. [https://doi.org/10.1016/S0363-5023\(97\)80078-0](https://doi.org/10.1016/S0363-5023(97)80078-0)
- Hu, X.-R. (2014). Value of MR diffusion imaging in hepatic fibrosis and its correlations with serum indices. *World Journal of Gastroenterology*, 20(24), 7964. <https://doi.org/10.3748/wjg.v20.i24.7964>
- James, R., Kesturu, G., Balian, G., & Chhabra, A. B. (2008). Tendon: Biology, Biomechanics, Repair, Growth Factors, and Evolving Treatment Options. *Journal of Hand Surgery*, 33(1), 102–112. <https://doi.org/10.1016/j.jhsa.2007.09.007>
- Järvinen, T. A. H., Kannus, P., Maffulli, N., & Khan, K. M. (2005). Achilles Tendon Disorders: Etiology and Epidemiology. *Foot and Ankle Clinics*, 10(2), 255–266. <https://doi.org/10.1016/j.fcl.2005.01.013>
- Koivisto, H., Hietala, J., & Niemelä, O. (2007). An Inverse Relationship Between Markers of Fibrogenesis and Collagen Degradation in Patients With or Without Alcoholic Liver Disease. *The American Journal of Gastroenterology*, 102(4), 773–779. <https://doi.org/10.1111/j.1572-0241.2006.01036.x>
- Kong, D., Xu, L., Yu, Y., Zhu, W., Andrews, D. W., Yoon, Y., & Kuo, T. H. (2005). Regulation of Ca²⁺-induced permeability transition by Bcl-2 is antagonized by Drp1 and hFis1. *Molecular and Cellular Biochemistry*, 272(1–2), 187–199. <https://doi.org/10.1007/s11010-005-7323-3>
- Krege, J. H., Lane, N. E., Harris, J. M., & Miller, P. D. (2014). PINP as a biological response marker during teriparatide treatment for osteoporosis. *Osteoporosis International*, 25(9), 2159–2171. <https://doi.org/10.1007/s00198-014-2646-0>
- Consiglio, A., Rossi, D., Tassan, S., Peregò, R., Cremonesi, F., & Parolini, O. (2013). Conditioned medium from horse amniotic membrane-derived multipotent progenitor cells: immunomodulatory activity in vitro and first clinical application in tendon and ligament injuries in vivo. *Stem cells and development*, 22(22), 3015–3024.



- Li, Z. J., Yang, Q. Q., & Zhou, Y. L. (2021). Basic Research on Tendon Repair: Strategies, Evaluation, and Development. *Frontiers in Medicine*, 8, 664909. <https://doi.org/10.3389/fmed.2021.664909>
- Lin, T. W., Cardenas, L., & Soslowky, L. J. (2004). Biomechanics of tendon injury and repair. *Journal of Biomechanics*, 37(6), 865–877. <https://doi.org/10.1016/j.jbiomech.2003.11.005>
- Lohan, P., Murphy, N., Treacy, O., Lynch, K., Morcos, M., Chen, B., ... & Ritter, T. (2018). Third-party allogeneic mesenchymal stromal cells prevent rejection in a pre-sensitized high-risk model of corneal transplantation. *Frontiers in immunology*, 9, 2666.
- Lui, P. P. Y., & Chan, K. M. (2011). Tendon-derived stem cells (TDSC-Sec): from basic science to potential roles in tendon pathology and tissue engineering applications. *Stem cell reviews and reports*, 7, 883-897.
- Madahar, P., Duprez, D. A., Podolanczuk, A. J., Bernstein, E. J., Kawut, S. M., Raghu, G., Barr, R. G., Gross, M. D., Jacobs, D. R., & Lederer, D. J. (2018). Collagen biomarkers and subclinical interstitial lung disease: The Multi-Ethnic Study of Atherosclerosis. *Respiratory Medicine*, 140, 108–114. <https://doi.org/10.1016/j.rmed.2018.06.001>
- Ma, H., Lam, P. K., Siu, W. S., Tong, C. S. W., Lo, K. K. Y., Koon, C. M., ... & Leung, P. C. (2021). Adipose tissue-derived mesenchymal stem cells (Admscs) and admsc-derived secretome expedited wound healing in a rodent model—a preliminary study. *Clinical, Cosmetic and Investigational Dermatology*, 753-764.
- Maffulli, N., Wong, J., & Almekinders, L. C. (2003). Types and epidemiology of tendinopathy. *Clinics in Sports Medicine*, 22(4), 675–692. [https://doi.org/10.1016/S0278-5919\(03\)00004-8](https://doi.org/10.1016/S0278-5919(03)00004-8)
- Mansour, I. N., Bress, A. P., Groo, V., Ismail, S., Wu, G., Patel, S. R., Duarte, J. D., Kittles, R. A., Stamos, T. D., & Cavallari, L. H. (2016). Circulating Procollagen Type III N-Terminal Peptide and Mortality Risk in African Americans With Heart Failure. *Journal of Cardiac Failure*, 22(9), 692–699. <https://doi.org/10.1016/j.cardfail.2015.12.016>
- Mehallo, C. J., Drezner, J. A., & Bytowski, J. R. (2006). Practical Management: Nonsteroidal Antiinflammatory Drug (NSAID) Use in Athletic Injuries. *Clinical Journal of Sport Medicine*, 16(2), 170–174. <https://doi.org/10.1097/00042752-200603000-00015>
- Moshiri, A. (2013). Tendon and Ligament Tissue Engineering, Healing and Regenerative Medicine. *Journal of Sports Medicine & Doping Studies*, 03(02). <https://doi.org/10.4172/2161-0673.1000126>
- Müller, S. A., Todorov, A., Heisterbach, P. E., Martin, I., & Majewski, M. (2015). Tendon healing: An overview of physiology, biology, and pathology of tendon healing and systematic review of state of the art in tendon bioengineering. *Knee Surgery, Sports Traumatology, Arthroscopy*, 23(7), 2097–2105. <https://doi.org/10.1007/s00167-013-2680-z>
- Nagase, H., Brew, K. (2003). Designing TIMP (tissue inhibitor of metalloproteinases) variants that are selective metalloproteinase inhibitors. *Biochem. Soc. Symp*, 201–212.
- Nourissat, G., Berenbaum, F., & Duprez, D. (2015). Tendon injury: From biology to tendon repair. *Nature Reviews Rheumatology*, 11(4), 223–233. <https://doi.org/10.1038/nrrheum.2015.26>
- ., Via, A. G., & Maffulli, N. (2011). Role of growth factors in rotator cuff healing. *Sports Medicine and Arthroscopy Review*, 19(3), 218–226. <https://doi.org/10.1097/JSA.0b013e3182250c78>
- A., Moshiri, A., & Meimandi-Parizi, A. (2014). Role of embedded pure xenogenous bovine platelet gel on experimental tendon healing,



- modelling and remodelling. *BioDrugs*, 28, 537-556.
- Parmar, K. (2018). Tendon and ligament: Basic science, injury and repair. *Orthopaedics and Trauma*, 32(4), 241–244. <https://doi.org/10.1016/j.mporth.2018.05.008>
- Petersen, W., Unterhauser, F., Pufe, T., Zantop, T., Südkamp, N. P., & Weiler, A. (2003). The angiogenic peptide vascular endothelial growth factor (VEGF) is expressed during the remodeling of free tendon grafts in sheep. *Archives of Orthopaedic and Trauma Surgery*, 123(4), 168–174. <https://doi.org/10.1007/s00402-002-0462-z>
- Phinney, D. G., & Prockop, D. J. (2007). Concise Review: Mesenchymal Stem/Multipotent Stromal Cells: The State of Transdifferentiation and Modes of Tissue Repair—Current Views. *Stem Cells*, 25(11), 2896–2902. <https://doi.org/10.1634/stemcells.2007-0637>
- Pryce, B. A., Watson, S. S., Murchison, N. D., Staverosky, J. A., Dünker, N., & Schweitzer, R. (2009). Recruitment and maintenance of tendon progenitors by TGF β signaling are essential for tendon formation.
- Quintero, D., Perucca Orfei, C., Kaplan, L. D., de Girolamo, L., Best, T. M., & Kouroupis, D. (2023). The roles and therapeutic potential of mesenchymal stem/stromal cells and their extracellular vesicles in tendinopathies. *Frontiers in Bioengineering and Biotechnology*, 11, 1040762. <https://doi.org/10.3389/fbioe.2023.1040762>
- Rhatomy, S., Prasetyo, T. E., Setyawan, R., Soekarno, N. R., Romaniyanto, F. N. U., Sedjati, A. P., Sumarwoto, T., Utomo, D. N., Suroto, H., Mahyudin, F., & Prakoeswa, C. R. S. (2020). Prospect of stem cells conditioned medium (secretome) in ligament and tendon healing: A systematic review. *Stem Cells Translational Medicine*, 9(8), 895–902. <https://doi.org/10.1002/sctm.19-0388>
- Rosenbaum, A. J., Wicker, J. F., Dines, J. S., Bonasser, L., Razzano, P., Dines, D. M., & Grande, D. A. (2010). Histologic Stages of Healing Correlate with Restoration of Tensile Strength in a Model of Experimental Tendon Repair. *HSS Journal*, 6(2), 164–170. <https://doi.org/10.1007/s11420-009-9152-5>
- Rossignol, M., Abouelfath, A., Lassalle, R., Merlière, Y., Droz, C., Bégaud, B., Depont, F., Moride, Y., Blin, P., Moore, N., & Fourier-Réglat, A. (2009). The CADEUS study: Burden of nonsteroidal anti-inflammatory drug (NSAID) utilization for musculoskeletal disorders in blue collar workers. *British Journal of Clinical Pharmacology*, 67(1), 118–124. <https://doi.org/10.1111/j.1365-2125.2008.03318.x>
- Ryan, J. D. (2010). Principles and techniques of tendon and ligament repair. In *Reconstructive Surgery of the Foot and Leg, Update 2010* (pp. 290–294). The Podiatry Institute.
- Sandrey, M. A. (2003). Acute and chronic tendon injuries: factors affecting the healing response and treatment. *Journal of sport rehabilitation*, 12(1), 70-91.
- Sciore, P., Boykiw, R., & Hart, D. A. (1998). Semiquantitative reverse transcription-polymerase chain reaction analysis of mRNA for growth factors and growth factor receptors from normal and healing rabbit medial collateral ligament tissue. *Journal of Orthopaedic Research*, 16(4), 429–437. <https://doi.org/10.1002/jor.1100160406>
- ., Squier, K., Alfredson, H., Bahr, R., Cook, J. L., Coombes, B., De Vos, R.-J., Fu, S. N., Grimaldi, A., Lewis, J. S., Maffulli, N., Magnusson, S., Malliaras, P., Mc Auliffe, S., Oei, E. H. G., Purdam, C. R., Rees, J. D., Rio, E. K., Gravare Silbernagel, K., ... Zwerver, J. (2020). ICON 2019: International Scientific Tendinopathy Symposium Consensus: Clinical Terminology. *British Journal of Sports Medicine*, 54(5), 260–262.



<https://doi.org/10.1136/bjsports-2019-100885>

- Sevivas, N., Teixeira, F. G., Portugal, R., Araújo, L., Carriço, L. F., Ferreira, N., Vieira da Silva, M., Espregueira-Mendes, J., Anjo, S., Manadas, B., Sousa, N., Salgado, A. J., & Serra, S. C. (2017). Mesenchymal Stem Cell Secretome: A Potential Tool for the Prevention of Muscle Degenerative Changes Associated With Chronic Rotator Cuff Tears. *The American Journal of Sports Medicine*, 45(1), 179–188. <https://doi.org/10.1177/0363546516657827>
- Sevivas, N., Teixeira, F. G., Portugal, R., Direito-Santos, B., Espregueira-Mendes, J., Oliveira, F. J., ... & Salgado, A. J. (2018). Mesenchymal stem cell secretome improves tendon cell viability in vitro and tendon-bone healing in vivo when a tissue engineering strategy is used in a rat model of chronic massive rotator cuff tear. *The American journal of sports medicine*, 46(2), 449-459.
- Shamrock, A. G., & Varacallo, M. (2023). Achilles Tendon Rupture. In *StatPearls*. StatPearls Publishing. <http://www.ncbi.nlm.nih.gov/books/NBK430844/>
- Smith, L., Xia, Y., Galatz, L. M., Genin, G. M., & Thomopoulos, S. (2012). Tissue-engineering strategies for the tendon/ligament-to-bone insertion. *Connective tissue research*, 53(2), 95-105.
- Stone, P. J. (2000). Potential use of collagen and elastin degradation markers for monitoring liver fibrosis in schistosomiasis. *Acta Tropica*, 77(1), 97–99. [https://doi.org/10.1016/S0001-706X\(00\)00118-2](https://doi.org/10.1016/S0001-706X(00)00118-2)
- Strickland, J. W. (2000). Development of flexor tendon surgery: Twenty-five years of progress. *The Journal of Hand Surgery*, 25(2), 214–235. <https://doi.org/10.1053/jhsu.2000.jhsu25a0214>
- Su, Y., Gu, H., Weng, D., Zhou, Y., Li, Q., Zhang, F., Zhang, Y., Shen, L., Hu, Y., & Li, H. (2017). Association of serum levels of laminin, type IV collagen, procollagen III N-terminal peptide, and hyaluronic acid with the progression of interstitial lung disease. *Medicine*, 96(18), e6617. <https://doi.org/10.1097/MD.00000000000006617>
- Szulc, P., Naylor, K., Hoyle, N. R., Eastell, R., & Leary, E. T. (2017). Use of CTX-I and PINP as bone turnover markers: National Bone Health Alliance recommendations to standardize sample handling and patient preparation to reduce pre-analytical variability. *Osteoporosis International*, 28(9), 2541–2556. <https://doi.org/10.1007/s00198017-4082-4>
- Tamama, K., & Kerpedjieva, S. S. (2012). Acceleration of wound healing by multiple growth factors and cytokines secreted from multipotential stromal cells/mesenchymal stem cells. *Advances in wound care*, 1(4), 177-182.
- Thomopoulos, S., Parks, W. C., Rifkin, D. B., & Derwin, K. A. (2015). Mechanisms of tendon injury and repair. *Journal of Orthopaedic Research*, 33(6), 832–839. <https://doi.org/10.1002/jor.22806>
- Valkering, K. P., Aufwerber, S., Ranuccio, F., Lunini, E., Edman, G., & Ackermann, P. W. (2017). Functional weight-bearing mobilization after Achilles tendon rupture enhances early healing response: a single-blinded randomized controlled trial. *Knee Surgery, Sports Traumatology, Arthroscopy*, 25, 1807-1816.
- P., Casciato, P., Diaz Carrasco, J. M., Gadano, A., Galdame, O., Galoppo, M. C., Mullen, E., De Matteo, E., & Preciado, M. V. (2011). The Role of Serum Biomarkers in Predicting Fibrosis Progression in Pediatric and Adult Hepatitis C Virus Chronic Infection. *PLoS ONE*, 6(8), e23218. <https://doi.org/10.1371/journal.pone.0023218>
- aard, P., Jørgensen, J. O. L., Olesen, J. L., Bosnjak, E., Holm, L.,



- Frystyk, J., Langberg, H., Kjaer, M., & Hansen, M. (2012). Local administration of growth hormone stimulates tendon collagen synthesis in elderly men. *Journal of Applied Physiology*, 113(9), 1432–1438. <https://doi.org/10.1152/jappphysiol.00816.2012>
- Voleti, P. B., Buckley, M. R., & Soslowky, L. J. (2012). Tendon Healing: Repair and Regeneration. *Annual Review of Biomedical Engineering*, 14(1), 47–71. <https://doi.org/10.1146/annurev-bioeng-071811-150122>
- Wan Nor Arifin, & Wan Mohd Zahiruddin. (2017). Sample Size Calculation in Animal Studies Using Resource Equation Approach. *Malaysian Journal of Medical Sciences*, 24(5), 101–105. <https://doi.org/10.21315/mjms2017.24.5.11>
- Wilcox, C. M., Cryer, B., & Triadafilopoulos, G. (2005). Patterns of Use and Public Perception of Over-the-Counter Pain Relievers: Focus on Nonsteroidal Antiinflammatory Drugs. *The Journal of Rheumatology*, 32(11), 2218–2224.
- Wu, F., Nerlich, M., & Docheva, D. (2017). Tendon injuries: Basic science and new repair proposals. *EFORT Open Reviews*, 2(7), 332–342. <https://doi.org/10.1302/2058-5241.2.160075>
- Wu, T., Liu, Y., Wang, B., Sun, Y., Xu, J., Yuk-Wai, L. W., ... & Li, G. (2016). The use of cocultured mesenchymal stem cells with tendon-derived stem cells as a better cell source for tendon repair. *Tissue Engineering Part A*, 22(19-20), 1229-1240.
- Würgler-Hauri, C. C., Dourte, L. M., Baradet, T. C., Williams, G. R., & Soslowky, L. J. (2007). Temporal expression of eight growth factors in tendon to bone healing in a rat supraspinatus model. *Journal of Shoulder and Elbow Surgery / American Shoulder and Elbow Surgeons ... [et Al.]*, 16(5), S198–S203. <https://doi.org/10.1016/j.jse.2007.04.003>
- Xu, K., Sun, Y., Al-Ani, M. K., Wang, C., Sha, Y., Sung, K. P., ... & Yang, L. (2018). Synergistic promoting effects of bone morphogenetic protein 12/connective tissue growth factor on functional differentiation of tendon derived stem cells and patellar tendon window defect regeneration. *Journal of Biomechanics*, 66, 95-102.
- Zhang, A. Y., & Chang, J. (2003). Tissue engineering of flexor tendons. *Clinics in Plastic Surgery*, 30(4), 565–572. [https://doi.org/10.1016/S0094-1298\(03\)00074-9](https://doi.org/10.1016/S0094-1298(03)00074-9)
- Zhang, J., & Wang, J. H. (2013). The effects of mechanical loading on tendons-an in vivo and in vitro model study. *PloS one*, 8(8), e71740.
- Zheng, M. (2002). ROC curves in evaluation of serum fibrosis indices for hepatic fibrosis. *World Journal of Gastroenterology*, 8(6), 1073. <https://doi.org/10.3748/wjg.v8.i6.1073>
- Zhou, X., Li, J., Giannopoulos, A., Kingham, P. J., & Backman, L. J. (2021). Secretome from In Vitro Mechanically Loaded Myoblasts Induces Tenocyte Migration, Transition to a Fibroblastic Phenotype and Suppression of Collagen Production. *International Journal of Molecular Sciences*, 22(23),13089. <https://doi.org/10.3390/ijms222313089>
- Zun X, Luciano, A., Pieper, C. F., Bain, J. R., Kraus, V. B., Kraus, W. E., Morey, M. C., & Cohen, H. J. (2018). Combined Inflammation and Metabolism Biomarker Indices of Robust and Impaired Physical Function in Older Adults. *Journal of the American Geriatrics Society*, 66(7), 1353–1359. <https://doi.org/10.1111/jgs.15393>

