

Cox[®] Technic Resource Center, Inc.

mailing address

429 East Dupont Road, PMB 98, Fort Wayne, IN 46825

phone 260-637-6609
toll-free: 800-441-L5S1 (5571)
fax: 260-637-7324
email: info@coxtechnicresourcecenter.com
website:

References:

- 1- Bucci LR: Reversal of osteoarthritis by nutritional intervention. *ACA J of Chiropractic* (11/90): 69-72.
- 2- Cole TC, Ghosh P, Taylor TKF: Arteparon modifies proteoglycan turnover in the intervertebral disc. *British J of Bone and Joint Surgery* 1988; 70B(1):166 .
- 3- Lowther DA: The effect of compression and tension on the behavior of connective tissues. *Aspects of Manipulative Therapy*, Churchill Livinstone 1985:16-21.
- 4- Eismont FL et al: Antibiotic penetration into rabbit nucleus pulposus. *Spine* 12(3): 254-6.
- 5- Wilhelmi, Maier: Experimental studies on the effects of drugs on cartilage. *Ciba Geigy Documenta Geigy*, Basle, Switzerland, 1982.
- 6- D'Ambrosio E et al: Glucosamine sulfate: a controlled clinical investigation in arthrosis. *Pharmatherapeutica* 1981;2:504-8
- 7- Crolle G, D'Este E: Glucosamine sulphate for the management of arthrosis: a controlled clinical investigation. *Curr Med Res Opin* 1980;7:104-9
- 8- Vaz: Double-blind clinical evaluation of relative efficacy of glucosamine sulphate in the management of osteoarthritis of knee in out-patients. *Curr Med Res Opin* '82;8:145-9.
- 9- Pujalte JM et al: Double-blind clinical evaluation of oral glucosamine sulphate in the basic treatment of osteoarthritis." *Curr Med Res Opin* 1980;7:110-14
- 10-Drovanti A et al: Therapeutic activity of oral glucosamine sulfate in osteoarthritis: a placebo-controlled, double-blind investigation. *Clin Ther* 1980;3:260-72
- 11-Benedikt H: Glycosaminoglycans and derivatives for treatment of arthritis. *Chiropractic Products* 1997; May: 92-95
- 12-Soldani G, Romagnoli J: Experiment and clinical pharmacology of glycosaminoglycan (GAGS). *Drugs in Experimental and Clinical Research* 1991; 18(1):81-85.
- 13-Rovetta G: Galactosaminoglycuronglycan sulphate (matrix) in therapy of tibiofibular osteoarthritis of the knee. *Drugs in Experimental and Clin Research* 1991; 18(1):53-57.
- 14-Pruden JF, Balassa LL: The biological activity of bovine cartilage preparations. *Seminars in Arthritis and Rheumatism* 1974; 3(4):287+.
- 15-Pepitone VR: Chondroprotection with chondroitin sulfate. *Drugs in Experimental and Clinical Research* 1991; 17(1):3-7.
- 16-Olivero U et al: Effects of treatment with matrix on elderly people with chronic articular degeneration. *Drugs in Experimental and Clinical Research* 1991; 17(1):45-51.
- 17-Wellburn M: Shotgun approach may quell arthritis, rheumatism, and back pain! *J of Arthritis Research* 1994; Sept:15-22.
- 18-Fassender HM et al: Glucosamine sulfate compared to ibuprofen in osteoarthritis of the knee. *Osteoarthritis and Cartilage* 1994; 2(1):61-69.
- 19-Trentham DE et al: Effects of oral administration of Type II collagen on rheumatoid arthritis. *Science* 1993; 261: .
- 20-"Chicken bone protein aids arthritis sufferers, scientist says." *Dallas Morning News* 24 September 1993:sec. A, p. 6.
- 21-Theodosakis J, Adderly B, Fox B: *The Arthritis Cure*. New York: St. Martin's Press, 1997: 55.
- 22-Sullivan MX, Hess WC: Cystine content of finger nails in arthritis. *JBJS* 1935; 16:185-8.
- 23-Senturia BD: Results of treatment of chronic arthritis and rheumatoid conditions with colloidal sulphur. *JBJS* 1934; 16:119-25.
- 24-Setnikar I et al: Pharmacokinetics of glucosamine in man. *Arzneim Forsch* 1993; 43(1):1109-13.
- 25-Setnikar I et al: Pharmacokinetics of glucosamine in the dog and man. *Arzneim Forsch* 1986; 36(4):729-35.
- 26- *Arzneim Forsch* 1991; 41:542-5
- 27- *Pharmatherapeutica* 1982; 3:157-68
- 28-Reicht A, Forster KK, Fischer M et al: Efficacy and safety of intramuscular glucosamine sulfate in osteoarthritis of the knee. *Arzneimittle-Foschung* 1994; 44(1):75-80
- 29- Murray MT: Irrefutable evidence: glucosamine sulfate proven superior over other forms of glucosamine and chondroitin sulfate. *Vital Communications, Inc.*
- 30-Aitman: *Arthritis and Rheumatism* 1991; 31(1)
- 31-Hutton et al: Analysis of chondroitin sulfate in lumbar intervertebral discs at two different stages of degeneration as assessed by discogram. *J of Spinal Disorders* 1997; 10(1)
- 32-Bishop PB, Bray RC: Abnormal joint mechanics and the proteoglycan composition of normal and healing rabbit medial collateral ligament. *JMPT* 1994; 16(5):300-5
- 33-Melrose, Ghosh, Taylor, Osti, Vernon-Roberts: A longitudinal study of the matrix changes induced in the intervertebral disc by surgical damage to the anulus fibrosus. *Journal of Orthopedic Research*, vol. 10
- 34-Ratliffe: Increased release of matrix componenets from articular cartilage in experimental canine osteoarthritis. *J of Orthopedic Research*, vol. 10
- 35-Olsen: *Acta Orthop Scand* 1989; 60(1):23-25
- 36-*Internaional Society for the Study of the Lumbar Spine*. Proceedings published by Saunders. 1990:13.
- 37-Uebelhart D: Effects of oral chondroitin sulfate on the progression of knee osteoarthritis: a pilot study. *Osteoarthritis and Cartilage* 1998; 68(A):39-46
- 38-Bucci L, Poor, G: Efficacy and tolerability of oral chondroitin sulfate as symptomatic slow-acting drug for osteoarthritis in the treatment of knee osteoarthritis. *Osteoarthritis and Cartilage* 1998; 68(A):14-21
- 39-Wang SZ, Rui YF, Tan Q, Wang C. Enhancing intervertebral disc repair and regeneration through biology :platelet-rich plasma as an alternative strategy. *Arthritis Res Ther*. 2013 Oct 28;15(5):220. [Epub ahead of print]
- 40-John I. Boxberger. Nucleus pulposus glycosaminoglycan content is correlated with axial mechanics in rat lumbar motion segments. *J OF ORTHOPAEDIC RESEARCH*, Issue 9 2006
- 41-Cho, H; Park, SH; Lee, S; Kang, M; Hasty, KA; Kim, SJ. Snapshot of degenerative aging of porcine intervertebral disc: a model to unravel the molecular mechanisms. *EXPERIMENTAL AND MOLECULAR MEDICINE* 43 (6). JUN 30 2011. p.334-340
- 42-Zhao, CQ; Wang, LM; Jiang, LS; Dai, LY. The cell biology of intervertebral disc aging and degeneration. *AGEING RESEARCH REVIEWS* 6 (3). OCT 2007. p.247-261
- 43-Sasaki N, Henriksson H, Runesson E, et al: Physical Exercise Affects Cell Proliferation in Lumbar Intervertebral Disc Regions in Rats. *Spine* 2012; 37(17): 1440-1447
- 44-Guehring, Thorsten MD*; Omlor, Georg W. MD*; Lorenz, Helga DVM*; Engelleiter, Karl MD*; Richter, Wiltrud PhD*; Carstens, Claus MD*; Kroeber, Markus MD: Disc Distraction Shows Evidence of Regenerative Potential in Degenerated Intervertebral Discs as Evaluated by Protein Expression, Magnetic Resonance Imaging, and Messenger Ribonucleic Acid Expression Analysis. *Spine: Volume 31(15)* 1 July 2006 pp 1658-1665
- 45-Mavrogenatou, Eleni PhD; Kletsas, Dimitris PhD The Effect of Glucosamine Sulfate on the Proliferative Potential and Glycosaminoglycan Synthesis of Nucleus Pulposus Intervertebral Disc Cells. *Spine: 15 February 2013 - Volume 38 - Issue 4 - p 308-314*
- 46-Hee, HT; Zhang, JT; Wong, HK. Effects of Cyclic Dynamic Tensile Strain on Previously Compressed Inner Annulus Fibrosus and Nucleus Pulposus Cells of Human Intervertebral Disc- An In Vitro Study. *JOURNAL OF ORTHOPAEDIC RESEARCH* 28 (4). APR 2010. p.503-9
- 47-Hee, HT; Chuah, YJ; Tan, BHM; Setiobudi, T; Wong, HK. Vascularization and Morphological Changes of the Endplate After Axial Compression and Distraction of the Intervertebral Disc. *SPINE* 36 (7). APR 1 2011. p.505-511
- 48-Daniells S (Nutra USA): Anti-Inflammatory Properties of Perna Canaliculus: Studies support green-lipped mussel's anti-inflammatory properties. <http://www.nutraingredients-usa.com/news/ng.asp?id=79246-lyprinol-green-lipped-mussel-omega> (sourced on 7/15/12)
- 49-Hochberg MC, Clegg DO: Potential effects of chondroitin sulfate on joint swelling: a GAIT report. *Arthritis Rheum*. 2009 Feb;60(2):524-33
- 50-Wim J van Blitterswijk, Jos CM van de Nes, Paul IJM Wuisman: Glucosamine and chondroitin sulfate supplementation to treat symptomatic disc degeneration : biochemical rationale and case report. *BMC Complementary and Alternative Medicine* 2003;3:2

References for DISCAT PLUS
Brochure—Page 1



Cox[®] Technic Resource Center, Inc.

mailing address

429 East Dupont Road, PMB 98, Fort Wayne, IN 46825

phone 260-637-6609
toll-free: 800-441-L5S1 (5571)
fax: 260-637-7324
email: info@coxtechnicresourcecenter.com
website:

References:

- 51-Cho, H; Park, SH; Lee, S; Kang, M; Hasty, KA; Kim, SJ. Snapshot of degenerative aging of porcine intervertebral disc: a model to unravel the molecular mechanisms. *EXPERIMENTAL AND MOLECULAR MEDICINE* 43 (6). JUN 30 2011. p.334-340
- 52-Bao X, Nishimura S, Mikami T: Chondroitin Sulfate/Dermatan Sulfate Hybrid Chains from Embryonic Pig Brain, Which Contain a Higher Proportion of L-Iduronic Acid than Those from Adult Pig Brain, Exhibit Neurotogenic and Growth Factor Binding Activities. *Journal of Biological Chemistry* www.jbc.org First Published on December 29, 2003, March 12, 2004 *The Journal of Biological Chemistry*, 279, 9765-9776.
- 53-Gu W, Zhu Q, Gao X, Brown M. Simulation of the Progression of Intervertebral Disc Degeneration Due to Decreased Nutritional Supply. *Spine* 2014;39(24):E1411-E1417
- 54-Shirazi-Adl A, Taheria M, Urban JPG: Analysis of cell viability in intervertebral disc: Effects of endplate permeability on cell population. *J of Biomechanics* 2010; 43(7):1330-1336
- 55-Zao CQ, Wang LM, Jiang LS, Dai LY. The cell biology of intervertebral disc aging and degeneration. *AGEING RESEARCH REVIEWS* 2007;6(3):247-261
- 56-Bishnoi M, Jain A, Hurkat P, Jain SK. Chondroitin sulphate: a focus on osteoarthritis. *Glycoconj J*. 2016 Oct;33(5):693-705. doi: 10.1007/s10719-016-9665-3. Epub 2016 May 19.
- 57-Schleich C, Müller-Lutz A, Eichner M, Schmitt B, Matuschke F, Ittersohl B, Zilkens C, Wittsack H, Antoch G, Miese F. Glycosaminoglycan Chemical Exchange Saturation Transfer of Lumbar Intervertebral Discs in Healthy Volunteers. *Spine* 2016;41(2) - p 146-152 doi: 10.1097/BRS.0000000000001144
- 58-Deng M, Yuan J, Chen WT, Chan Q, Griffith JF, Wang YX. Evaluation of Glycosaminoglycan in the Lumbar Disc Using Chemical Exchange Saturation Transfer MR at 3.0 Tesla: Reproducibility and Correlation with Disc Degeneration. *Biomed Environ Sci*. 2016;(1) - p 47-55. doi: 10.3967/bes2016.005.
- 59-Pearce RH, Grimmer BJ, Adams ME: Degeneration and chemical composition of the human intervertebral disc. *J Ortho Research* 1987;5(2):198-205.
- 60-Cho H, Park SH, Lee S, Kang M, Hasty KA, Kim SJ. Snapshot of degenerative aging of porcine intervertebral disc: a model to unravel the molecular mechanisms. *EXPERIMENTAL AND MOLECULAR MEDICINE* 2011;43(6):334-340
- 61-Jacobs L, Vo N, Coelho JP, Dong Q, Bechara B, Woods B. Glucosamine Supplementation Demonstrates a Negative Effect on Intervertebral Disc Matrix in an Animal Model of Disc Degeneration. *Spine* 2013;38(12):984-990
- 62-Bascoul C, Garaiova I, Plummer, Harwood, Caterson, Hughes. Glucosamine Hydrochloride but Not Chondroitin Sulfate Prevents Cartilage Degradation and Inflammation Induced by Interleukin-1 α in Bovine Cartilage Explants. *Cartilage* 2016;(1):70-81. doi: 10.1177/1947603515603762
- 63-Treschow AP, Hodges LD, Wright, Wynne PM, Kalafatis N, Macrides TA. "Novel anti-inflammatory ?-3 PUFAs from the New Zealand green-lipped mussel, *Perna canaliculus*" *Comparative Biochemistry and Physiology* 147(B): 645-656
- 64-McPhee S, Hodges LD, Wright, Wynne P, Kalafatis N, Harney DW, Macrides TA. "Anti-cyclooxygenase effects of lipid extracts from the New Zealand green-lipped mussel, *Perna canaliculus*" *Comparative Biochemistry and Physiology* 146(B):346-356
- 65-Tat SK, Pelletier JP, Mineau F, Duval N, Martel-Pelletier J. Variable effects of 3 different chondroitin sulfate compounds on human osteoarthritic cartilage/chondrocytes: relevance of purity and production process. *J Rheumatol*. 2010;37(3):656-64. doi: 10.3899/jrheum.090696. Epub 2010 Jan 28.
- 66-Morreale P, Manopulo R, Galati M, Bocconeri L, Saponati G, Bocchi L. Comparison of the antiinflammatory efficacy of chondroitin sulfate and diclofenac sodium in patients with knee osteoarthritis. *J Rheumatol* 1996;23(8):1385-91.
- 67-Volpi N. The pathobiology of osteoarthritis and the rationale for using the chondroitin sulfate for its treatment. *Curr Drug Targets Immune Endocr Metabol Disord*. 2004;4(2):119-27.
- 68-Alekseeva LI, Benevolenskaia LI, Nasonov EL, Chichasova NV, Kariakin AN. [Structum (chondroitin sulfate)--a new agent for the treatment of osteoarthritis]. *Ter Arkh*. 1999;71(5):51-3
- 69-Maheu E, Rannou F, Reginster JY. Efficacy and safety of hyaluronic acid in the management of osteoarthritis: Evidence from real-life setting trials and surveys. *Semin Arthritis Rheum*. 2015 Dec 2. pii: S0049-0172(15)00286-3. doi: 10.1016/j.semarthrit.2015.11.008. [Epub ahead of print]
- 70-Man AJ, Leach JK, Bannerman P. Redirection of neurite outgrowth by coupling chondroitin sulfate proteoglycans to polymer membranes. *Ann Biomed Eng*. 2014;42(6):1271-81. doi: 10.1007/s10439-014-0991-y. Epub 2014 Feb 26.
- 71-Bao X, Shuji N, Tadahisa M. Chondroitin Sulfate/Dermatan Sulfate Hybrid Chains from Embryonic Pig Brain, Which Contain a Higher Proportion of L-Iduronic Acid than Those from Adult Pig Brain, Exhibit Neurotogenic and Growth Factor Binding Activities. *Journal of Biological Chemistry* www.jbc.org First Published on December 29, 2003, March 12, 2004 *The Journal of Biological Chemistry*, 279, pgs. 9765-9776.
- 72-Nemoto W, Yamada K, Ogata Y, Nakagawasa O, Onodera K, Sakurai H, Tan-No K. Chondroitin sulfate attenuates formalin-induced persistent tactile allodynia. *J Pharmacol Sci*. 2016 Aug 5. pii: S1347-8613(16)30091-3. doi: 10.1016/j.jpshs.2016.07.009. [Epub ahead of print]
- 73-Mazuro VI, Velyacva IB. Structum in combined treatment of low back pain syndrome. *Terapevticheskii arkhiv* 2004;76(8):68-71
- 74-Shostak NA et al: Low back pain in spinal osteochondrosis: experience of treatment with chondroprotective drug (article Russian). *Terapevticheskii Arkhiv* 2002;74(8):67-69
- 75-Seleznova S, Zabara A, Mamuladze D. THE CURRENT PROBLEMS OF NONSPECIFIC BACK PAIN. *Georgian Med News*. 2016;(250):61-66
- 76-Singh JA, Noorbaloochi S, MacDonald R, Maxwell. Chondroitin For Osteoarthritis. *Cochrane Database Syst Rev*. 2015 Jan 28;1:CD005614. doi: 10.1002/14651858.CD005614.pub2.
- 77-Hochberg MC, Clegg DO: Potential effects of chondroitin sulfate on joint swelling: a GAIT report. *Arthritis Rheum*. 2009;60(2):524-33
- 78-Monfort J, Martel-Pelletier J, Pelletier JP. Chondroitin sulphate for symptomatic osteoarthritis: critical appraisal of meta-analyses. *Curr Med Res Opin*. 2008;24(5):303-8. doi: 10.1185/030079908X297231 Epub 2008 Apr 15.
- 79-Tyler S, Ryan D, Yuntao Z. et al: Corneal Sulfated Glycosaminoglycans and Their Effects on Trigeminal Nerve Growth Cone Behavior In Vitro: Roles for ECM in Cornea Innervation. *Investigative Ophthalmology & Visual Science* www.iovs.org Published online before print November 6, 2012, *Ophthalmol. Vis. Sci*. 2012;53(13):8118-8137
- 80-Kantor ED, Zhang X, Wu K, Signorello LB, Chan AT, Fuchs CS, Giovannucci EL. Use of glucosamine and chondroitin supplements in relation to risk of colorectal cancer: Results from the Nurses' Health Study and Health Professionals follow-up study. *Int J Cancer* 2016;139(9):1949-57. doi: 10.1002/ijc.30250. Epub 2016 Jul 18.
- 81-Kantor ED, Lampe JW, Peters U, Shen DD, Vaughan TL, White E. Use of glucosamine and chondroitin supplements and risk of colorectal cancer. *Cancer Causes Control* 2013;24(6):1137-46. doi: 10.1007/s10552-013-0192-2. Epub 2013 Mar 26.
- 82-Kantor ED, Lampe JW, Navarro SL, Song X, Milne GL, White E. Associations between glucosamine and chondroitin supplement use and biomarkers of systemic inflammation. *J Altern Complement Med*. 2014; 20(6):479-85. doi: 10.1089/acm.2013.0323. Epub 2014 Apr 16.
- 83-Brasky TM, Lampe JW, Slatore CG, White E. Use of glucosamine and chondroitin and lung cancer risk in the VITamins And Lifestyle (VITAL) cohort. *Cancer Causes Control* 2011;22(9):1333-42. doi: 10.1007/s10552-011-9806-8. Epub 2011 Jun 25.
- 84-Satia JA, Littman A, Slatore CG, Galanko JA, White E. Associations of herbal and specialty supplements with lung and colorectal cancer risk in the VITamins and Lifestyle study. *Cancer Epidemiol Biomarkers Prev*. 2009;18(5):1419-28. doi: 10.1158/1055-9965.EPI-09-0038.
- 85-Porter K1, Hoey L2, Hughes CF3, Ward M4, McNulty H5. Causes, Consequences and Public Health Implications of Low B-Vitamin Status in Ageing. *Nutrients*. 2016 Nov 16;8(11). pii: E725.
- 86-Bailey RL, van Wijngaarden JP. The Role of B-Vitamins in Bone Health and Disease in Older Adults. *Curr Osteoporos. Rep*. 2015 May 28. [Epub ahead of print]

References for DISCAT PLUS
Brochure—Page 2

