

Natural Pharmacy Business – References

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Pg12-14 – Cholesterol – Lamberts CPD

Asdaq S.M., Inamdarb M.N. Potential of garlic and its active constituent, S-allyl cysteine, as antihypertensive and cardioprotective in presence of captopril Phytomedicine., 17 (13) (2010), pp. 1016-1026

Asnicar F, Berry SE, Valdes AM, Nguyen LH, Piccinno G, Drew DA, Leeming E, Gibson R, Le Roy C, Khatib HA, Francis L, Mazidi M, Mompeo O, Valles-Colomer M, Tett A, Beghini F, Dubois L, Bazzani D, Thomas AM, Mirzayi C, Khleborodova A, Oh S, Hine R, Bonnett C, Capdevila J, Danzanvilliers S, Giordano F, Geistlinger L, Waldron L, Davies R, Hadjigeorgiou G, Wolf J, Ordovás JM, Gardner C, Franks PW, Chan AT, Huttenhower C, Spector TD, Segata N. Microbiome connections with host metabolism and habitual diet from 1,098 deeply phenotyped individuals. Nat Med. 2021 Feb;27(2):321-332.

Barbagallo CM, Cefalù AB, Gallo S, Rizzo M, Noto D, Cavera G, Rao Camemi A, Marino G, Caldarella R, Notarbartolo A, Averna MR. Effects of Mediterranean diet on lipid levels and cardiovascular risk in renal transplant recipients. Nephron. 1999;82(3):199-204.

Barkas F, Nomikos T, Liberopoulos E, Panagiotakos D. Diet and Cardiovascular Disease Risk Among Individuals with Familial Hypercholesterolemia: Systematic Review and Meta-Analysis. Nutrients. 2020 Aug 13;12(8):2436.

Calabresi L, Franceschini G. Lecithin:cholesterol acyltransferase, high-density lipoproteins, and atheroprotection in humans. Trends Cardiovasc Med. 2010;20(2):50–53.

Charach G, George J, Afek A, Wexler D, Sheps D, Keren G, Rubinstein A. Antibodies to oxidized LDL as predictors of morbidity and mortality in patients with chronic heart failure. J Card Fail. 2009 Nov;15(9):770-4.

Chiavaroli L, Vigiouliouk E, Nishi SK, Blanco Mejia S, Rahelić D, Kahleová H, Salas-Salvadó J, Kendall CW, Sievenpiper JL. DASH Dietary Pattern and Cardiometabolic Outcomes: An Umbrella Review of Systematic Reviews and Meta-Analyses. Nutrients. 2019 Feb 5;11(2):338.

Craig W.Y , Palomaki G.E and Haddow J.E . [Cigarette smoking and serum lipid and lipoprotein concentrations: An analysis of published data](#). BMJ, 298 (1989), pp. 784-788

de Leiris J, de Lorgeril M, Boucher F. Fish oil and heart health. J Cardiovasc Pharmacol. 2009 Nov;54(5):378-384.

Earnest CP, Artero EG, Sui X, et al. Maximal estimated cardiorespiratory fitness, cardiometabolic risk factors, and metabolic syndrome in the Aerobics Center Longitudinal Study. Mayo Clin Proc. 2013;88(3):259–270

Gebhardt, R. (2002). Inhibition of cholesterol biosynthesis in HepG2 cells by artichoke extracts is reinforced by glucosidase pretreatment. Phytother Res. 16:368–72.

Hallikainen M, Kolehmainen M, Schwab U, Laaksonen DE, Niskanen L, Rauramaa R, Pihlajamäki J, Uusitupa M, Miettinen TA, Gylling H. Serum adipokines are associated with cholesterol metabolism in the metabolic syndrome. Clin Chim Acta. 2007 Aug;383(1-2):126-32

Halliwell B. Free radicals and antioxidants: A personal view. Nutr Rev. 1994;52:253–265.

Hasegawa A, Toshima S, Nakano A, Nagai R. [Oxidized LDL in patients with coronary heart disease and normal subjects]. Nihon Rinsho. 1999 Dec;57(12):2754-8.

Heitzer T, Yla-Herttuala S, Luoma J et al. Cigarette smoking potentiates endothelial dysfunction of forearm resistance vessels in patients with hypercholesterolemia: Role of oxidized LDL. *Circulation*, 9 (1996), pp. 1346-1353

HSIS. State of the Nation: Dietary Trends in the UK 20 Years On. 2019. <https://www.hsis.org/wp-content/uploads/2019/08/HSIS-report-2019-artwork-screen-res.pdf>

Iwamoto T, Hosoda K, Hirano R, Kurata H, Matsumoto A, Miki W, Kamiyama M, Itakura H, Yamamoto S, Kondo K. Inhibition of low-density lipoprotein oxidation by astaxanthin. *J Atheroscler Thromb*. 2000;7:216–222.

Kamal-Eldin A, Moazzami A. Plant sterols and stanols as cholesterol-lowering ingredients in functional foods. *Recent Pat Food Nutr Agric*. 2009 Jan;1(1):1-14.

Kennedy EP, Lehninger AL 1949. Oxidation of fatty acids and tricarboxylic acid cycle intermediates by isolated rat liver mitochondria. *J Biol Chem* 179: 957–972

LeBlanc MJ, Brunet S, Bouchard G, Lamireau T, Yousef IM, Gavino V, Lévy E, Tuchweber B. Effects of dietary soybean lecithin on plasma lipid transport and hepatic cholesterol metabolism in rats. *J Nutr Biochem*. 2003 Jan;14(1):40-8.

Lira F, Yamashita A, Uchida M, et al. Low and moderate, rather than high intensity strength exercise induces benefit regarding plasma lipid profile. *Diabetol Metab Syndr*. 2010;2:31.

Markin AM et al. Effects of pro-inflammatory cytokines on cholesterol accumulation in monocyte cell line culture. *Atherosclerosis*. 2020:315ff

Martínez-González MA, Gea A, Ruiz-Canela M. The Mediterranean Diet and Cardiovascular Health. *Circ Res*. 2019 Mar;124(5):779-798.

Mathew BC, Prasad NV and Prabodh R, Cholesterol-lowering effect of organosulphur compounds from garlic: a possible mechanism of action. *Kathmandu Univ Med J* 2: 100–102 (2004).cu

McDonald D, Hyde E, Debelius JW, Morton JT, Gonzalez A, Ackermann G, Aksenov AA, Behsz B, Brennan C, Chen Y, DeRight Goldasich L, Dorrestein PC, Dunn RR, Fahimipour AK, Gaffney J, Gilbert JA, Gogul G, Green JL, Hugenholtz P, Humphrey G, Huttenhower C, Jackson MA, Janssen S, Jeste DV, Jiang L, Kelley ST, Knights D, Kosciolk T, Ladau J, Leach J, Marotz C, Meleshko D, Melnik AV, Metcalf JL, Mohimani H, Montassier E, Navas-Molina J, Nguyen TT, Peddada S, Pevzner P, Pollard KS, Rahnavard G, Robbins-Pianka A, Sangwan N, Shorenstein J, Smarr L, Song SJ, Spector T, Swafford AD, Thackray VG, Thompson LR, Tripathi A, Vázquez-Baeza Y, Vrbanc A, Wischmeyer P, Wolfe E, Zhu Q; American Gut Consortium; Knight R. American Gut: an Open Platform for Citizen Science Microbiome Research. *mSystems*. 2018 May 15;3(3)

Meslier V, Laiola M, Roager HM, De Filippis F, Roume H, Quinquis B, Giacco R, Mennella I, Ferracane R, Pons N, Pasolli E, Rivellese A, Dragsted LO, Vitaglione P, Ehrlich SD, Ercolini D. Mediterranean diet intervention in overweight and obese subjects lowers plasma cholesterol and causes changes in the gut microbiome and metabolome independently of energy intake. *Gut*. 2020 Jul;69(7):1258-1268. L

Natural Medicines Comprehensive Database [Internet]. Fish Oil Mechanism of Action—[cited 2010 Sept 11].

Orekhov AN and Tertov VV, In vitro effect of garlic powder extract on lipid content in normal and atherosclerotic human aortic cells. *Lipids* 32: 1055–1060 (1997).

Ormazabal, V., Nair, S., Elfeky, O. et al. Association between insulin resistance and the development of cardiovascular disease. *Cardiovasc Diabetol* 17, 122 (2018).

PAGB. Towards a Healthier Britain. 2010.

Piché ME, Poirier P, Lemieux I, Després JP. Overview of Epidemiology and Contribution of Obesity and Body Fat Distribution to Cardiovascular Disease: An Update. *Prog Cardiovasc Dis*. 2018 Jul-Aug;61(2):103-113.

Public Health England. Health Matters: Preventing Cardiovascular disease. 2019

Qiang, Z., Lee, S.O., Ye, Z., Wu, X. and Hendrich, S. (2012). Artichoke extract lowered plasma cholesterol and increased fecal bile acids in Golden Syrian hamsters. *Phytother Res*. 26:1048–52.

Russell DW. Cholesterol biosynthesis and metabolism. *Cardiovasc Drugs Ther*. 1992 Apr;6(2):103-10.

Safaa, M., Hanaa, A., Abdel, F., Nahila A and Abdelaaty S. (2013). *Cynara scolymus* for relieving on nonalcoholic steatohepatitis induced in rat. *Int. J. Pharm Pharmac Sci*. 5:57–66.

Sahebkar A, Pirro M, Banach M, Mikhailidis DP, Atkin SL, Cicero AFG. Lipid-lowering activity of artichoke extracts: A systematic review and meta-analysis. *Crit Rev Food Sci Nutr*. 2018;58(15):2549-2556.

Siscovick DS, Barringer TA, Fretts AM, Wu JH, Lichtenstein AH, Costello RB, Kris-Etherton PM, Jacobson TA, Engler MB, Alger HM, Appel LJ, Mozaffarian D; American Heart Association Nutrition Committee of the Council on Lifestyle and Cardiometabolic Health; Council on Epidemiology and Prevention; Council on Cardiovascular Disease in the Young; Council on Cardiovascular and Stroke Nursing; and Council on Clinical Cardiology. Omega-3 Polyunsaturated Fatty Acid (Fish Oil) Supplementation and the Prevention of Clinical Cardiovascular Disease: A Science Advisory From the American Heart Association. *Circulation*. 2017 Apr 11;135(15)

Ursoniu S., Sahebkar A., Serban M.C., Banach M. Lipid profile and glucose changes after supplementation with astaxanthin: A systematic review and meta-analysis of randomized controlled trials. *Arch. Med. Sci. AMS*. 2015;11:253–266.

Wojcicki J, Pawlik A, Samochawiec L, Katdenska M, Mysliwiec Z: Clinical evaluation of lecithin as a lipid-lowering agent. Short communication. *Phytother Res* 9: 597–599, 1995.

Xiong XJ, Wang PQ, Li SJ, Li XK, Zhang YQ, Wang J. Garlic for hypertension: A systematic review and meta-analysis of randomized controlled trials. *Phytomedicine*. 2015 Mar 15;22(3):352-61.

Yoshida H, Yanai H, Ito K, Tomono Y, Koikeda T, Tsukahara H, Tada N. Administration of natural astaxanthin increases serum HDL-cholesterol and adiponectin in subjects with mild hyperlipidemia. *Atherosclerosis*. 2010 Apr;209(2):520-3.

[Zavodnik](#) IB. Mitochondria, calcium homeostasis and calcium signaling *Biomed Khim* 2016 Mar;62(3):311-7.

Zeng T, Guo FF, Zhang CL, Song FY, Zhao XL, Xie KQ. A meta-analysis of randomized, double-blind, placebo-controlled trials for the effects of garlic on serum lipid profiles. *J Sci Food Agric*. 2012 J