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## Clinical studies

Algorta Pineda J, Chinchetru MJ, Aguirre J, Francisco S. [Hypocholesteremic effectiveness of a yogurt containing plant stanol esters]. In Spanish. *Rev Clin Esp* 2005; 205: 63-66.

Alhassan S, Reese KA, Mahurin J, Plaisance EP, Hilson BD, Garner JC, Wee SO, Grandjean PW. Blood lipid responses to plant stanol ester supplementation and aerobic exercise training. *Metabolism* 2006; 55: 541-549.

Andersson A, Karlstrom B, Mohsen R, Vessby B. Cholesterol-lowering effects of a stanol ester-containing low-fat margarine used in conjunction with a strict lipid-lowering diet. *European Heart Journal Supplements* 1999; 1: S80-S90.

Athyros VG, Kakafika AI, Papageorgiou AA, Tziomalos K, Peletidou A, Vosikis C, Karagiannis A, Mikhailidis DP. Effect of a plant stanol ester-containing spread, placebo spread, or Mediterranean diet on estimated cardiovascular risk and lipid, inflammatory and haemostatic factors. *Nutr Metab Cardiovasc Dis* 2011; 21(3): 213-221.

Berendschot TT, Plat J, de Jong A, Mensink RP. Long-term plant stanol and sterol ester-enriched functional food consumption, serum lutein/zeaxanthin concentration and macular pigment optical density. *Br J Nutr* 2009; 101: 1607-1610.

Blair SN, Capuzzi DM, Gottlieb SO, Nguyen T, Morgan JM, Cater NB. Incremental reduction of serum total cholesterol and low-density lipoprotein cholesterol with the addition of plant stanol ester-containing spread to statin therapy. *Am J Cardiol* 2000; 86: 46-52.

Blomqvist SM, Jauhiainen M, van Tol A, Hyvönen M, Torstila I, Vanhanen HT, Miettinen TA, Ehnholm C. Effect of sitostanol ester on composition and size distribution of LDL and HDL. *Nutr Metab Cardiovasc Dis* 1993; 3: 158-164.

Castro Cabezas M, de Vries JH, van Oostrom AJ, Iestra J, van Staveren WA. Effects of a stanol-enriched diet on plasma cholesterol and triglycerides in patients treated with statins. *J Am Diet Assoc* 2006; 106: 1564-1569.

Cater NB, Garcia-Garcia AB, Vega GL, Grundy SM. Responsiveness of plasma lipids and lipoproteins to plant stanol esters. *Am J of Cardiol* 2005; 96(1A): 23D-28D.

Connor WE, Lin DS, Pappu AS, Frohlich J, Gerhard G. Dietary sitostanol and campestanol: accumulation in the blood of humans with sitosterolemia and xanthomatosis and in rat tissues. *Lipids* 2005; 40: 919-923.

Gylling H, Hallikainen M, Nissinen MJ, Miettinen TA. The effect of very high daily plant stanol ester intake on serum lipids, carotenoids, and fat-soluble vitamins. *Clinical Nutrition* 2010; 29: 112-118.

Gylling H, Hallikainen M, Nissinen M, Simonen P, Miettinen TA. Very high plant stanol intake and serum plant stanols and non-cholesterol sterols. *Eur J Nutr* 2010; 49(2): 111-117.

Gylling H, Hallikainen M, Raitakari OT, Laakso M, Vartiainen E, Salo P, Korpelainen V, Sundvall J, Miettinen TA. Long-term consumption of plant stanol and sterol esters, vascular function and genetic regulation. *Br J Nutr* 2008; 101: 1688-95.

Gylling H, Hallikainen M, Simonen P, Miettinen HE, Nissinen MJ, Miettinen TA. Serum and lipoprotein sitostanol and non-cholesterol sterols after an acute dose of plant stanol ester on its long-term consumption. *Eur J Nutr* 2011; doi 10.1007/s00394-011-0249-5.

Gylling H, Miettinen TA. Serum cholesterol and cholesterol and lipoprotein metabolism in hypercholesterolaemic NIDDM patients before and during sitostanol ester-margarine treatment. *Diabetologia* 1994; 37: 773-780.

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Gylling H, Miettinen TA. The effect of cholesterol absorption inhibition on low density lipoprotein cholesterol level. *Atherosclerosis* 1995; 117: 305-308.

Gylling H, Miettinen TA. Effects of inhibiting cholesterol absorption and synthesis on cholesterol and lipoprotein metabolism in hypercholesterolemic non-insulin-dependent diabetic men. *J Lipid Res* 1996; 37: 1776-1785.

Gylling H, Miettinen TA. Baseline intestinal absorption and synthesis of cholesterol regulate its response to hypolipidaemic treatments in coronary patients. *Atherosclerosis* 2002; 160: 477-481.

Gylling H, Miettinen TA. Cholesterol reduction by different plant stanol mixtures and with variable fat intake. *Metabolism* 1999; 48: 575-580.

Gylling H, Miettinen TA. LDL cholesterol lowering by bile acid malabsorption during inhibited synthesis and absorption of cholesterol in hypercholesterolemic coronary subjects. *Nutr Metab Cardiovasc Dis* 2002; 12: 19-23.

Gylling H, Puska P, Vartiainen E, Miettinen TA. Retinol, Vitamin D, carotenes and alpha-tocopherol in serum of moderately hypercholesterolemic population consuming sitostanol ester margarine. *Atherosclerosis* 1999; 145: 279-285.

Gylling H, Puska P, Vartiainen E, Miettinen TA. Serum sterols during stanol ester feeding in a mildly hypercholesterolemic population. *J Lipid Res* 1999; 40: 593-600.

Gylling H, Radhakrishnan R, Miettinen TA. Reduction of serum cholesterol in postmenopausal women with previous myocardial infarction and cholesterol malabsorption induced by dietary sitostanol ester margarine: women and dietary sitostanol. *Circulation* 1997; 96: 4226-4231.

Gylling H, Rajaratnam R, Vartiainen E, Puska P, Miettinen T. Changes in serum level and metabolism of cholesterol with plant stanol esters in postmenopausal women with and without coronary artery disease. *Menopause* 2006; 13: 286-293.

Gylling H, Siimes MA, Miettinen TA. Sitostanol ester margarine in dietary treatment of children with familial hypercholesterolemia. *J Lipid Res* 1995; 36: 1807-1812.

Hallikainen M, Kurl S, Laakso M, Miettinen TA, Gylling H. Plant stanol esters lower LDL cholesterol level in statin-treated subjects with type 1 diabetes by interfering the absorption and synthesis of cholesterol. *Atherosclerosis* 2011; 217: 473-478.

Hallikainen M, Lyyra LT, Laitinen T, Agren JJ, Pihlajamäki J, Rauramaa R, Miettinen TA, Gylling H. Endothelial function in hypercholesterolemic subjects: Effects of plant stanol and sterol esters. *Atherosclerosis* 2006; 188: 425-432.

Hallikainen M, Lyyra-Laitinen T, Laitinen T, Moilanen L, Miettinen TA, Gylling H. Effects of plant stanol esters on serum cholesterol concentrations, relative markers of cholesterol metabolism and endothelial function in type 1 diabetes. *Atherosclerosis* 2008; 199: 432-439.

Hallikainen M, Sarkkinen ES, Gylling H, Erkkilä AT, Uusitupa MI. Comparison of the effects of plant sterol ester and plant stanol ester-enriched margarines in lowering serum cholesterol concentrations in hypercholesterolaemic subjects on a low-fat diet. *Eur J Clin Nutr* 2000; 54: 715-725.

Hallikainen M, Sarkkinen ES, Uusitupa MI. Effects of low-fat stanol ester enriched margarines on concentrations of serum carotenoids in subjects with elevated serum cholesterol concentrations. *Eur J Clin Nutr* 1999; 53: 966-969.

Hallikainen MA, Sarkkinen ES, Uusitupa MIJ. Plant stanol esters affect serum cholesterol concentrations of hypercholesterolemic men and women in a dose-dependent manner. *J Nutr* 2000; 130: 767-776.

21 December 2011

Hallikainen M, Sarkkinen E, Wester I, Uusitupa M. Short-term LDL cholesterol-lowering efficacy of plant stanol esters. *BMC Cardiovasc Disord* 2002; 2: 14.

Hallikainen MA, Uusitupa MI. Effects of 2 low-fat stanol ester-containing margarines on serum cholesterol concentrations as part of a low-fat diet in hypercholesterolemic subjects. *Am J Clin Nutr* 1999; 69: 403-410.

Hedman M, Miettinen TA, Gylling H, Ketomäki A, Antikainen M. Serum noncholesterol sterols in children with heterozygous familial hypercholesterolemia undergoing pravastatin therapy. *J Pediatr* 2006; 148: 241-246.

Homma Y, Ikeda I, Ishikawa T, Tateno M, Sugano M, Nakamura H. Decrease in plasma low-density lipoprotein cholesterol, apolipoprotein B, cholesteryl ester transfer protein, and oxidized low-density lipoprotein by plant stanol ester-containing spread: a randomized, placebo-controlled trial. *Nutrition* 2003; 19: 369-374.

Homma Y, Ishikawa T, Tateno M, Mitaniyama A, Sugano M. Cholesterol and apolipoprotein lowering effect of plant stanol ester in healthy Japanese men and women. A randomized, placebo controlled study. *J Jpn Soc Nutr Food Sci* 2000, 53:155-162.

Hyun JY, Oh YK, Joo BK, Lee JH, Jang Y, Liponkoski L, Salo P. Plant stanol esters in low-fat yogurt reduces total and low-density lipoprotein cholesterol and low-density lipoprotein oxidation in normocholesterolemic and mildly hypercholesterolemic subjects. *Nutrition Research* 2005; 25: 743-753.

Ishiwata K, Homma Y, Ishikawa T, Nakamura H, Handa S. Influence of apolipoprotein E phenotype on metabolism of lipids and apolipoproteins after plant stanol ester ingestion in Japanese subjects. *Nutrition* 2002; 18: 561-565.

Jakulj L, Vissers MN, Rodenburg J, Wiegman A, Trip MD, Kastelein JJP. Plant stanols do not restore endothelial function in prepubertal children with familial hypercholesterolemia despite reduction of low-density lipoprotein cholesterol levels. *J Pediatr* 2006; 148: 495-500.

Jauhiainen T, Salo P, Niittynen L, Poussa T, Korpela R. Effects of low-fat hard cheese enriched with plant stanol esters on serum lipids and apolipoprotein B in mildly hypercholesterolaemic subjects. *Eur J Clin Nutr* 2006; 60: 1253-1257.

Jones PJ, Raeini-Sarjaz M, Ntanos FY, Vanstone CA, Feng JY, Parsons WE. Modulation of plasma lipid levels and cholesterol kinetics by phytosterol versus phytostanol esters. *J Lipid Res* 2000; 41: 697-705.

de Jong A, Plat J, Mensink RP. Plant sterol or stanol consumption does not affect erythrocyte osmotic fragility in patients on statin treatment. *Eur J Clin Nutr* 2006; 60: 985-990.

de Jong A, Plat J, Bast A, Godschalk RWL, Basu S, Mensink RP. Effects of plant sterol and stanol ester consumption on lipid metabolism, antioxidant status and markers of oxidative stress, endothelial function and low-grade inflammation in patients on current statin treatment. *Eur J Clin Nutr* 2008; 62: 263-273.

de Jong A, Plat J, Lütjohann D, Mensink RP. Effects of long-term plant sterol or stanol ester consumption on lipid and lipoprotein metabolism in subjects on statin treatment. *Br J Nutr* 2008; 100: 937-941.

de Jong N, Zuur A, Wolfs MC, Wendel-Vos GC, van Raaij JM, Schuit AJ. Exposure and effectiveness of phytosterol-/stanol-enriched margarines. *Eur J Clin Nutr* 2007; 61: 1407-1415.

Kelly ER, Plat J, Mensink RP, Berendschot TTJM. Effects of long term plant sterol and -stanol consumption on the retinal vasculature: A randomized controlled trial in statin users. *Atherosclerosis* 2011; 214: 225-230.

Ketomäki A, Gylling H, Miettinen TA. Non-cholesterol sterols in serum, lipoproteins, and red cells in statin-treated FH subjects off and on plant stanol and sterol ester spreads. *Clin Chim Acta* 2005; 353: 75-86.

21 December 2011

- Ketomäki A, Gylling H, Miettinen TA. Effects of plant stanol and sterol esters on serum phytosterols in a family with familial hypercholesterolemia including a homozygous subject. *J Lab Clin Med* 2004; 143: 255-262.
- Ketomäki A, Gylling H, Miettinen TA. Removal of intravenous Intralipid in patients with familial hypercholesterolemia during inhibition of cholesterol absorption and synthesis. *Clin Chim Acta* 2004; 344: 83-93.
- Ketomäki AM, Gylling H, Antikainen M, Siimes MA, Miettinen TA. Red cell and plasma plant sterols are related during consumption of plant stanol and sterol ester spreads in children with hypercholesterolemia. *J Pediatr* 2003; 142: 524-531.
- Kratz M, Kannenberg F, Gramenz E, Berning B, Trautwein G, Assmann G, Rust S. Similar serum plant sterol responses of human subjects heterozygous for a mutation causing sitosterolemia and controls to diets enriched in plant sterols or stanols. *Eur J Clin Nutr* 2007; 61: 896-905.
- Kriengsinyos W, Sumriddetatchajorn K, Yamborisut U. Reduction of LDL-cholesterol in mildly hypercholesterolemic Thais with plant stanol ester-fortified soy milk. *J Med Assoc Thai* 2011; 94: 1327-1336.
- Lagström H, Helenius H, Salo P. Serum cholesterol-lowering efficacy of stanol ester incorporated in gelatin capsules. *Scand J Food Nutr* 2006; 50: 124-130.
- Laitinen K, Isolauri E, Kaipiainen L, Gylling H, Miettinen TA. Plant stanol ester spreads as components of a balanced diet for pregnant and breast-feeding women: evaluation of clinical safety. *Br J Nutr* 2008; 101: 1979-1804.
- Mensink RP, Ebbing S, Lindhout M, Plat J, van Heugten MM. Effects of plant stanol esters supplied in low-fat yoghurt on serum lipids and lipoproteins, non-cholesterol sterols and fat soluble antioxidant concentrations. *Atherosclerosis* 2002; 160: 205-213.
- Mensink RP, de Jong A, Lütjohann D, Haenen GRMM, Plat J. Plant stanols dose-dependently decrease LDL-cholesterol concentrations, but not cholesterol-standardized fat-soluble antioxidant concentrations, at intakes up to 9 g/d. *Am J Clin Nutr* 2010; 42: 24-33.
- Miettinen TA, Puska P, Gylling H, Vanhanen H, Vartiainen E. Reduction of serum cholesterol with sitostanol-ester margarine in a mildly hypercholesterolemic population. *N Engl J Med* 1995; 333:1308-1312.
- Miettinen TA, Vuoristo M, Nissinen M, Järvinen HJ, Gylling H. Serum, biliary, and fecal cholesterol and plant sterols in colectomized patients before and during consumption of stanol ester margarine. *Am J Clin Nutr* 2000; 71: 1095-1102.
- Miettinen TA, Vanhanen H. Dietary sitostanol related to absorption, synthesis and serum level of cholesterol in different apolipoprotein E phenotypes. *Atherosclerosis* 1994; 105: 217-226.
- Nguyen TT, Dale LC, von Bergmann K, Croghan IT. Cholesterol-lowering effect of stanol ester in a US population of mildly hypercholesterolemic men and women: a randomized controlled trial. *Mayo Clinic Proceedings*. Mayo Clinic 1999; 74: 1198-1206.
- Niinikoski H, Viikari J, Palmu T. Cholesterol-lowering effect and sensory properties of sitostanol ester margarine in normocholesterolemic adults. *Scandinavian Journal of Nutrition/Naringsforskning* 1997; 41: 9-12.
- Nissinen MJ, Gylling H, Miettinen TA. Effects of plant stanol esters supplied in a fat free milieu by pastilles on cholesterol metabolism in colectomized human subjects. *Nutr Metab Cardiovasc Dis* 2006; 16: 426-435.
- Nissinen M, Gylling H, Vuoristo M, Miettinen TA. Micellar distribution of cholesterol and phytosterols after duodenal plant stanol ester infusion. *Am J Physiol Gastrointest Liver Physiol* 2002; 282: G1009-G1015.

21 December 2011

- Nissinen MJ, Vuoristo M, Gylling H, Miettinen TA. Respective hydrolysis and esterification of esterified and free plant stanols occur rapidly in human intestine after their duodenal infusion in triacyl- or diacylglycerol. *Lipids* 2007; 42: 603-612.
- Noakes M, Clifton P, Ntanos F, Shrapnel W, Record I, McInerney J. An increase in dietary carotenoids when consuming plant sterols or stanols is effective in maintaining plasma carotenoid concentrations. *Am J Clin Nutr* 2002; 75: 79-86.
- Noakes M, Clifton PM, Doornbos AM, Trautwein EA. Plant sterol ester-enriched milk and yoghurt effectively reduce serum cholesterol in modestly hypercholesterolemic subjects. *Eur J Nutr* 2005; 44: 214-222.
- Normén L, Dutta P, Lia A, Andersson H. Soy sterol esters and beta-sitosterol ester as inhibitors of cholesterol absorption in human small bowel. *Am J Clin Nutr* 2000; 71: 908-913.
- Normén L, Ellegård L, Janssen HG, Steenbergen H, Trautwein E, Andersson H. Phytosterol and phytostanol esters are effectively hydrolysed in the gut and do not affect fat digestion in ileostomy subjects. *Eur J Nutr* 2006; 45: 165-170.
- O'Neill FH, Brynes A, Mandeno R, Rendell N, Taylor G, Seed M, Thompson GR. Comparison of the effects of dietary plant sterol and stanol esters on lipid metabolism. *Nutr Metab Cardiovasc Dis* 2004; 14: 133-142.
- O'Neill FH, Sanders TA, Thompson GR. Comparison of efficacy of plant stanol ester and sterol ester: short-term and longer-term studies. *Am J Cardiol* 2005; 96: 29-36.
- Plat J, Brufau G, Dallinga-Thie GM, Dasselaaar M, Mensink RP. A plant stanol yoghurt drink alone or combined with a low-dose statin lowers serum triacylglycerol and non-HDL-cholesterol in metabolic syndrome patients. *J Nutr* 2009; 139: 1143-1149.
- Plat J, Mensink RP. Vegetable oil based versus wood based stanol ester mixtures: effects on serum lipids and hemostatic factors in non-hypercholesterolemic subjects. *Atherosclerosis* 2000; 148: 101-112.
- Plat J, Mensink RP. Effects of diets enriched with two different plant stanol ester mixtures on plasma ubiquinol-10 and fat-soluble antioxidant concentrations. *Metabolism* 2001; 50: 520-529.
- Plat J, Mensink RP. Relationship of genetic variation in genes encoding apolipoprotein A-IV, scavenger receptor BI, HMG-CoA reductase, CETP and apolipoprotein E with cholesterol metabolism and the response to plant stanol ester consumption. *Eur J Clin Invest* 2002; 32:242-250.
- Plat J, Mensink RP. Plant stanol esters lower serum triacylglycerol concentrations via a reduced hepatic VLDL-1 production. *Lipids* 2009; 44(12): 1149-1153.
- Plat J, van Onselen EN, van Heugten MM, Mensink RP. Effects on serum lipids, lipoproteins and fat soluble antioxidant concentrations of consumption frequency of margarines and shortenings enriched with plant stanol esters. *Eur J Clin Nutr* 2000; 54: 671-677.
- Raeini-Sarjaz M, Ntanos FY, Vanstone CA, Jones PJ. No changes in serum fat-soluble vitamin and carotenoid concentrations with the intake of plant sterol/stanol esters in the context of a controlled diet. *Metabolism* 2002; 51:652-656.
- Raitakari OT, Salo P, Ahotupa M. Carotid artery compliance in users of plant stanol ester margarine. *Eur J Clin Nutr* 2008; 62: 218-224.
- Raitakari OT, Salo P, Gylling H, Miettinen TA. Plant stanol ester consumption and arterial elasticity and endothelial function. *Br J Nutr* 2008;100: 603-608.

21 December 2011

Relas H, Gylling H, Miettinen TA. Effect of stanol ester on postabsorptive squalene and retinyl palmitate. *Metabolism* 2000; 49: 473-478.

Salo P, Wester I. Low-fat formulations of plant stanols and sterols. *Am J Cardiol* 2005; 96: 51D-54D.

Schiepers OJ, de Groot RHM, van Boxtel MPJ, Jolles J, de Jong A, Lütjohann D, Plat J, Mensink RP. Consuming functional foods enriched with plant sterol or stanol esters for 85 weeks does not affect neurocognitive functioning or mood in statin-treated hypercholesterolemic individuals. *J Nutr* 2009; 139: 1368-1373.

Seppo L, Jauhiainen T, Nevala R, Poussa T, Korpela R. Plant stanol esters in low-fat milk products lower serum total and LDL cholesterol. *Eur J Nutr* 2007; 46: 111-117.

Sutton D, Davey T, Venkatraman G, Hart K. Can a functional food exert a cholesterol lowering effect in renal transplant patients? *J Ren Care* 2009; 35: 42-47.

Tammi A, Rönnemaa T, Gylling H, Rask-Nissilä L, Viikari J, Tuominen J, Pulkki K, Simell O. Plant stanol ester margarine lowers serum total and low-density lipoprotein cholesterol concentrations of healthy children: the STRIP project. Special Turku Coronary Risk Factors Intervention Project. *J Pediatr* 2000; 136: 503-510.

Tammi A, Rönnemaa T, Miettinen TA, Gylling H, Rask-Nissilä L, Viikari J, Tuominen J, Marniemi J, Simell O. Effects of gender, apolipoprotein E phenotype and cholesterol-lowering by plant stanol esters in children: The STRIP study. *Acta Paediatr* 2002; 91: 1155-1162.

Theuwissen E, Mensink RP. Simultaneous intake of beta-glucan and plant stanol esters affects lipid metabolism in slightly hypercholesterolemic subjects. *J Nutr* 2007; 137: 583-588.

Theuwissen E, Plat J, van der Kallen CJ, van Greevenbroek MM, Mensink RP. Plant stanol supplementation decreases serum triacylglycerols in subjects with overt hypertriglyceridemia. *Lipids* 2009; 44(12): 1131-1140.

Theuwissen E, Plat J, Mensink RP. Consumption of oat beta-glucan with or without plant stanols did not influence inflammatory markers in hypercholesterolemic subjects. *Mol Nutr Food Res* 2009; 53: 370-376.

Thuluva SC, Igel M, Giesa U, Lütjohann D, Sudhop T, von Bergmann K. Ratio of lathosterol to campesterol in serum predicts the cholesterol-lowering effect of sitostanol-supplemented margarine. *Int J Clin Pharmacol Ther* 2005; 43: 305-310.

Vanhanen H. Cholesterol malabsorption caused by sitostanol ester feeding and neomycin in pravastatin-treated hypercholesterolaemic patients. *Eur J Clin Pharmacol* 1994; 47: 169-176.

Vanhanen HT, Blomqvist S, Ehnholm C, Hyvönen M, Jauhiainen M, Torstila I, Miettinen TA. Serum cholesterol, cholesterol precursors, and plant sterols in hypercholesterolemic subjects with different apoE phenotypes during dietary sitostanol ester treatment. *J Lipid Res* 1993; 34: 1535-1544.

Vanhanen HT, Kajander J, Lehtovirta H, Miettinen TA. Serum levels, absorption efficiency, faecal elimination and synthesis of cholesterol during increasing doses of dietary sitostanol esters in hypercholesterolaemic subjects. *Clin Sci* 1994; 87: 61-67.

Vorlat A, Conraads VM, Vrints CJ. Regular use of margarine-containing stanol/sterol esters reduces total and low-density lipoprotein (LDL) cholesterol and allows reduction of statin therapy after cardiac transplantation: preliminary observations. *J Heart Lung Transplant* 2003; 22: 1059-1062.

21 December 2011

Vuorio AF, Gylling H, Turtola H, Kontula K, Ketonen P, Miettinen TA. Stanol ester margarine alone and with simvastatin lowers serum cholesterol in families with familial hypercholesterolemia caused by the FH-North Karelia mutation. *Arterioscler Thromb Vasc Biol* 2000; 20: 500-506.

Weststrate JA, Meijer GW. Plant sterol-enriched margarines and reduction of plasma total- and LDL-cholesterol concentrations in normocholesterolaemic and mildly hypercholesterolaemic subjects. *Eur J Clin Nutr* 1998; 52: 334-343.

Williams CL, Bollella MC, Strobino BA, Boccia L, Campanaro L. Lipid-lowering effects of a plant stanol ester spread in young children. *Eur Heart J Supplements* 1999; 1: S96-S103.

Williams CL, Bollella MC, Strobino BA, Boccia L, Campanaro L. Plant stanol ester and bran fiber in childhood: effects on lipids, stool weight and stool frequency in preschool children. *J Am Coll Nutr* 1999; 18: 572-581.

Woodgate D, Chan CHM, Conquer JA. Cholesterol-lowering ability of a phytostanol softgel supplement in adults with mild to moderate hypercholesterolemia. *Lipids* 2006; 41: 127-132.

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## Review articles / meta-analyses

Abumweis SS, Barake R, Jones PJ. Plant sterols/stanols as cholesterol lowering agents: A meta-analysis of randomized controlled trials. *Food Nutr Res* 2008;52. DOI: 10.3402/fnr.v52i0.1811.

Cater NB. Plant stanol ester: Review of cholesterol-lowering efficacy and implications for coronary heart disease risk reduction. *Prev Cardiol* 2000; 3: 121-130.

Calvo Romero JM, Lima Rodríguez EM. ["Natural" treatments of hypercholesterolemia]. *Rev Clin Esp* 2006; 206:504-506. *In Spanish*.

Clifton P. Lowering cholesterol. A review on the role of plant sterols. *Aust Fam Phys* 2009; 38: 218-221.

Clifton P, Colquhoun D, Hewat C. Dietary Intervention to lower serum cholesterol. *Aust Fam Phys* 2009; 38: 424-428.

Demonty I, Ras RT, van der Knaap HC, Duchateau GS, Meijer L, Zock PL, Geleijnse JM, Trautwein EA. Continuous dose-response relationship of the LDL-cholesterol-lowering effect of phytosterol intake. *J Nutr* 2009; 139: 271-284.

Devaraj S, Jialal I. The role of dietary supplementation with plant sterols and stanols in the prevention of cardiovascular disease. *Nutr Rev* 2006; 64: 348-354.

Grundt SM. Stanol esters as a component of maximal dietary therapy in the National Cholesterol Education Program Adult Treatment Panel III report. *Am J Cardiol* 2005; 96: 47-50.

Guyton JR. Combination drug therapy for combined hyperlipidemia. *Curr Cardiol Rep* 1999; 1: 244-250.

Gylling H, Miettinen TA. Combination therapy with statins. *Curr Opin Investig Drugs* 2002; 3: 1318-1323.

Gylling H, Miettinen TA. The effect of plant stanol- and sterol-enriched foods on lipid metabolism, serum lipids and coronary heart disease. *Ann Clin Biochem* 2005; 42: 254-263.

Gylling H, Miettinen TA. The effects of plant stanol ester on different subject groups. *Eur Cardiol* 2010; 6(3) :18-21.

Gylling H, Miettinen TA. Plant stanol consumption for cardiovascular health: what do we know about efficacy and safety? *Clin Lipidol* 2010; 5(6): 827-833.

Hasler CM, Kundrat S, Wool D. Functional foods and cardiovascular disease. *Curr Atheroscler Rep* 2000; 2: 467-475.

Van Horn L, McCoin M, Kris-Etherton PM, Burke F, Carson JAS, Champagne CM, Karmally W, Sikand G. The evidence for dietary prevention and treatment of cardiovascular disease. *J Am Diet Assoc* 2008; 108: 287-331.

de Jong A, Plat J, Mensink RP. Metabolic effects of plant sterols and stanols. *J Nutr Biochem* 2003; 14: 362-369.

Katan MB, Boekschooten MV, Connor WE, Mensink RP, Seidell J, Vessby B, Willett W. Which are the greatest recent discoveries and the greatest future challenges in nutrition? *Eur J Clin Nutr* 2009; 63: 2-10.

Katan MB, Grundt SM, Jones P, Law M, Miettinen T, Paoletti R. Efficacy and safety of plant stanols and sterols in the management of blood cholesterol levels. *Mayo Clin Proc* 2003; 78: 965-978.

Kerckhoffs DA, Brouns F, Hornstra G, Mensink RP. Effects on the human serum lipoprotein profile of beta-glucan, soy protein and isoflavones, plant sterols and stanols, garlic and tocotrienols. *J Nutrition* 2002; 132: 2494-2505.

21 December 2011

Law M. Plant sterol and stanol margarines and health. *BMJ* 2000; 320: 861-864.

Law MR. Plant sterol and stanol margarines and health. *West J Med* 2000; 173: 43-7.

Marangoni F, Poli A. Phytosterols and cardiovascular health. *Pharmacol Res* 2010; 61(3): 193-199.

Martins SL, Silva HF, Novaes MR, Ito MK. [Therapeutic effects of phytosterols and phytostanols in cholesterolemia]. *Arch Latinoam Nutr* 2004; 54: 257-263. *In Portuguese.*

Miettinen TA. Cholesterol absorption inhibition: a strategy for cholesterol-lowering therapy. *Int J Clin Pract* 2001; 55: 710-716.

Miettinen TA, Gylling H. Regulation of cholesterol metabolism by dietary plant sterols. *Curr Opin Lipidol* 1999; 10: 9-14.

Miettinen TA, Gylling H. Non-nutritive bioactive constituents of plants: phytosterols. *Int J Vitam Nutr Res* 2003; 73: 127-134.

Miettinen TA, Gylling H. Plant stanol and sterol esters in prevention of cardiovascular diseases. *Ann Med* 2004; 36: 126-134.

Miettinen TA, Gylling H. Effect of statins on noncholesterol sterol levels: implications for use of plant stanols and sterols. *Am J Cardiol* 2005; 96: 40-46.

Miettinen TA, Gylling H. Plant stanol and sterol esters in prevention of cardiovascular diseases: a review. *Int J Clin Pharmacol Ther* 2006; 44: 247-250.

Moruisi KG, oosthuizen W, Opperman AM. Phytosterols/Stanol lower cholesterol concentrations in Familial hypercholesterolemic subjects: a systematic review with meta-analysis. *J Am Coll Nutr* 2006; 25: 41-48.

Musa-Veloso K, Poon TH, Elliot JA, Chung C. A comparison of the LDL-cholesterol lowering efficacy of plant stanols and plant sterols over a continuous dose range: Results of a meta-analysis of randomized, placebo-controlled trials. *Prostag Leukotrien Ess Fatty Acids* 2011; 85: 9-28.

Musa-Veloso K, Poon TH. Rebuttal to comment from Demonty et al. (2011). *Prostag Leukotrien Ess Fatty Acids* 2011; 85: 189-93.

Naumann E, Plat J, Kester AD, Mensink RP. The baseline serum lipoprotein profile is related to plant stanol induced changes in serum lipoprotein cholesterol and triacylglycerol concentrations. *J Am Coll Nutr* 2008; 27: 117-26.

Nguyen TT. The cholesterol-lowering action of plant stanol esters. *J Nutr* 1999; 129: 2109-2112.

Patch CS, Tapsell LC, Williams PG. Plant sterol/stanol prescription is an effective treatment strategy for managing hypercholesterolemia in outpatient clinical practice. *J Am Diet Assoc* 2005; 105:46-52.

Perova NV. [Non-pharmaceutical hypercholesterolemia management by plant stanol-enriched product consumption]. *Cardiovascular Therapy and Prevention Journal* 2006; Issue 5. *In Russian.*

Perova NV. [Plant stanol ethers: perspectives and effects in non-pharmaceutical prevention of atherosclerotic cardiovascular pathology]. *Cardiovascular Therapy and Prevention Journal* 2006; Issue 6. *In Russian.*

Perova NV, Metelskaia VA. 11: [Plant sterols and stanols as the dietary factors lowering hypercholesterolemia by inhibition of intestinal cholesterol absorption]. *Kardiologiia* 2008; 48: 62-9. *In Russian.*

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Plat J, Kerckhoffs DA, Mensink RP. Therapeutic potential of plant sterols and stanols. *Curr Opin Lipidol* 2000; 11: 571-576.

Plat J, Mensink RP. Plant stanol and sterol esters in the control of blood cholesterol levels: mechanism and safety aspects. *Am J Cardiol* 2005; 96: 15D-22D.

Poli A, Marangoni F, Paoletti R et al. Non-pharmacological control of plasma cholesterol levels. *Nutr Metab Cardiovasc Dis* 2008; 18: S1-S16.

Puspa J, Klör HU. [Plant sterols and stanols]. *Ther Umsch* 2007; 64:153-1599. *In German*.

Reynolds TM, Mardani A, Twomey PJ, Wierzbickid AS. Targeted versus global approaches to the management of hypercholesterolaemia. *J R Soc Promot Health* 2008; 128: 248-54.

Salo P, Rosin S. Impact of plant stanol ester on risk of cardiovascular disease. *Agro Food Industry Hi-tech* 2009; 20: 15-17.

Scholle JM, Baker WL, Talati R, Coleman CI. The Effect of adding plant sterols or stanols to statin therapy in hypercholesterolemic patients: systematic review and meta-analysis. *J Am Coll Nutr* 2009; 28(5): 517-524.

Stone NJ. The optimal dietary strategy to manage risk associated with various dyslipidemias. *Curr Cardiol Rep* 2001; 3: 391-400.

Stone NJ, Van Horn L. Therapeutic lifestyle change and Adult Treatment Panel III: evidence then and now. *Curr Atheroscler Rep* 2002; 4: 433-43.

Talati R, Sobieraj DM, Makanji SS, Phung OJ, Coleman CI. The comparative efficacy of plant sterols and stanols on serum lipids: a systematic review and meta-analysis. *J Am Diet Assoc* 2010; 110: 719-726.

Thompson GR. Additive effects of plant sterol and stanol esters to statin therapy. *Am J Cardiol* 2005; 96: 37-39.

Thompson GR, Grundy SM. History and development of plant sterol and stanol esters for cholesterol-lowering purposes. *Am J Cardiol* 2005; 96: 3-9.

Thompson PD. What's new in lipid management? *Pharmacotherapy* 2003; 23: 34S-40S.

Tikkanen MJ. Plant sterols and stanols. *Handb Exp Pharmacol* 2005; (170): 215-230.

Vuorio AF, Kovanen PT, Gylling H. Hypolipidemic treatment of heterozygous familial hypercholesterolemia: a lifelong challenge. *Expert Rev Cardiovasc Ther* 2004; 2: 405-415.

Wester I. Dose-responsiveness to plant stanol esters. *Eur Heart J* 1999; 1 (Supplement S): S104-S108.

Wu T, Fu J, Yang Y, Zhang L, Han J. 7.The effects of phytosterols/stanols on blood lipid profiles: a systematic review with meta-analysis. *Asia Pac J Clin Nutr* 2009;18:179-86.