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References: Inventory of Plant-Based Clinical Interventions | Micaela Karlsen, MSPH

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1. Ornish, D., et al., *Can lifestyle changes reverse coronary heart disease? The Lifestyle Heart Trial*. Lancet, 1990. **336**(8708): p. 129-33.
2. Gould, K.L., et al., *Changes in myocardial perfusion abnormalities by positron emission tomography after long-term, intense risk factor modification*. JAMA, 1995. **274**(11): p. 894-901.
3. Ornish, D., et al., *Intensive lifestyle changes for reversal of coronary heart disease*. JAMA, 1998. **280**(23): p. 2001-7.
4. Yamashita, T., et al., *Arterial compliance, blood pressure, plasma leptin, and plasma lipids in women are improved with weight reduction equally with a meat-based diet and a plant-based diet*. Metabolism, 1998. **47**(11): p. 1308-14.
5. Medkova, I.L., et al., *[Leveling the hyperlipidemic effect of beta-adrenoblockers by means of antiatherogenic vegetarian diet]*. Klin Med (Mosk), 2004. **82**(6): p. 58-60.
6. Colombo, C., et al., *Plant-based diet, serum fatty acid profile, and free radicals in postmenopausal women: the diet and androgens (DIANA) randomized trial*. Int J Biol Markers, 2005. **20**(3): p. 169-76.
7. Gardner, C.D., et al., *The effect of a plant-based diet on plasma lipids in hypercholesterolemic adults: a randomized trial*. Ann Intern Med, 2005. **142**(9): p. 725-33.
8. Medkova, I.L., et al., *[The treatment of coronary heart disease by beta-adrenoblockers or thiazide diuretics preparation in combination with vegetarian diet]*. Vopr Pitan, 2005. **74**(3): p. 39-41.
9. Barnard, N.D., et al., *A low-fat vegan diet improves glycemic control and cardiovascular risk factors in a randomized clinical trial in individuals with type 2 diabetes*. Diabetes Care, 2006. **29**(8): p. 1777-83.
10. Elkan, A.C., et al., *Gluten-free vegan diet induces decreased LDL and oxidized LDL levels and raised atheroprotective natural antibodies against phosphorylcholine in patients with rheumatoid arthritis: a randomized study*. Arthritis Res Ther, 2008. **10**(2): p. R34.
11. Ieromuzo, A.A., et al., *[Influence of combined lacto-vegetarian diet and selective beta-blocking agents on clinical and metabolic indices in patients with coronary heart disease]*. Vopr Pitan, 2012. **81**(5): p. 79-82.
12. Macknin, M., et al., *Plant-Based, No-Added-Fat or American Heart Association Diets: Impact on Cardiovascular Risk in Obese Children with Hypercholesterolemia and Their Parents*. J Pediatr, 2015. **166**(4): p. 953-959 e3.
13. Wright, N., et al., *The BROAD study: A randomised controlled trial using a whole food plant-based diet in the community for obesity, ischaemic heart disease or diabetes*. Nutr Diabetes, 2017. **7**(3): p. e256.
14. Nicholson, A.S., et al., *Toward improved management of NIDDM: A randomized, controlled, pilot intervention using a lowfat, vegetarian diet*. Prev Med, 1999. **29**(2): p. 87-91.
15. Tuomilehto, J., et al., *Prevention of type 2 diabetes mellitus by changes in lifestyle among subjects with impaired glucose tolerance*. N Engl J Med, 2001. **344**(18): p. 1343-50.
16. Barnard, N.D., et al., *A low-fat vegan diet and a conventional diabetes diet in the treatment of type 2 diabetes: a randomized, controlled, 74-wk clinical trial*. Am J Clin Nutr, 2009. **89**(5): p. 1588S-1596S.

17. Kahleova, H., et al., *Vegetarian diet improves insulin resistance and oxidative stress markers more than conventional diet in subjects with Type 2 diabetes*. *Diabet Med*, 2011. **28**(5): p. 549-59.
18. Turner-McGrievy, G.M., et al., *Decreases in dietary glycemic index are related to weight loss among individuals following therapeutic diets for type 2 diabetes*. *J Nutr*, 2011. **141**(8): p. 1469-74.
19. Kahleova, H., et al., *Vegetarian diet-induced increase in linoleic acid in serum phospholipids is associated with improved insulin sensitivity in subjects with type 2 diabetes*. *Nutr Diabetes*, 2013. **3**: p. e75.
20. Lee, Y.M., et al., *Effect of a Brown Rice Based Vegan Diet and Conventional Diabetic Diet on Glycemic Control of Patients with Type 2 Diabetes: A 12-Week Randomized Clinical Trial*. *PLoS One*, 2016. **11**(6): p. e0155918.
21. Veleba, J., et al., *"A Vegetarian vs. Conventional Hypocaloric Diet: The Effect on Physical Fitness in Response to Aerobic Exercise in Patients with Type 2 Diabetes." A Parallel Randomized Study*. *Nutrients*, 2016. **8**(11).
22. Kjeldsen-Kragh, J., *Rheumatoid arthritis treated with vegetarian diets*. *Am J Clin Nutr*, 1999. **70**(3 Suppl): p. 594S-600S.
23. Azad, K.A., et al., *Vegetarian diet in the treatment of fibromyalgia*. *Bangladesh Med Res Counc Bull*, 2000. **26**(2): p. 41-7.
24. Kaartinen, K., et al., *Vegan diet alleviates fibromyalgia symptoms*. *Scand J Rheumatol*, 2000. **29**(5): p. 308-13.
25. Agren, J.J., et al., *Divergent changes in serum sterols during a strict uncooked vegan diet in patients with rheumatoid arthritis*. *Br J Nutr*, 2001. **85**(2): p. 137-9.
26. Hafstrom, I., et al., *A vegan diet free of gluten improves the signs and symptoms of rheumatoid arthritis: the effects on arthritis correlate with a reduction in antibodies to food antigens*. *Rheumatology (Oxford)*, 2001. **40**(10): p. 1175-9.
27. Nenonen, M.T., et al., *Uncooked, lactobacilli-rich, vegan food and rheumatoid arthritis*. *Br J Rheumatol*, 1998. **37**(3): p. 274-81.
28. Clinton, C.M., et al., *Whole-foods, plant-based diet alleviates the symptoms of osteoarthritis*. *Arthritis*, 2015. **2015**: p. 708152.
29. Barnard, N.D., et al., *Acceptability of a low-fat vegan diet compares favorably to a step II diet in a randomized, controlled trial*. *J Cardiopulm Rehabil*, 2004. **24**(4): p. 229-35.
30. Barnard, N.D., et al., *A low-fat vegan diet elicits greater macronutrient changes, but is comparable in adherence and acceptability, compared with a more conventional diabetes diet among individuals with type 2 diabetes*. *J Am Diet Assoc*, 2009. **109**(2): p. 263-72.
31. Hyder, J.A., et al., *Adopting a plant-based diet minimally increased food costs in WHEL Study*. *Am J Health Behav*, 2009. **33**(5): p. 530-9.
32. Katcher, H.I., et al., *A worksite vegan nutrition program is well-accepted and improves health-related quality of life and work productivity*. *Ann Nutr Metab*, 2010. **56**(4): p. 245-52.
33. Lazor, K., N. Chapman, and E. Levine, *Soy goes to school: acceptance of healthful, vegetarian options in Maryland middle school lunches*. *J Sch Health*, 2010. **80**(4): p. 200-6.

34. Sharma, S., R.K. Sharma, and A. Parashar, *Comparison of the nutritional status and outcome in thermal burn patients receiving vegetarian and non-vegetarian diets*. Indian J Plast Surg, 2014. **47**(2): p. 236-41.
35. Burke, L.E., et al., *Effects of a vegetarian diet and treatment preference on biochemical and dietary variables in overweight and obese adults: a randomized clinical trial*. Am J Clin Nutr, 2007. **86**(3): p. 588-96.
36. Turner-McGrievy, G.M., N.D. Barnard, and A.R. Scialli, *A two-year randomized weight loss trial comparing a vegan diet to a more moderate low-fat diet*. Obesity (Silver Spring), 2007. **15**(9): p. 2276-81.
37. Burke, L.E., et al., *A randomized clinical trial of a standard versus vegetarian diet for weight loss: the impact of treatment preference*. Int J Obes (Lond), 2008. **32**(1): p. 166-76.
38. Turner-McGrievy, G.M., et al., *Comparative effectiveness of plant-based diets for weight loss: A randomized controlled trial of five different diets*. Nutrition, 2015. **31**(2): p. 350-8.
39. Huang, R.Y., et al., *Vegetarian Diets and Weight Reduction: a Meta-Analysis of Randomized Controlled Trials*. J Gen Intern Med, 2016. **31**(1): p. 109-16.
40. Rauma, A.L., et al., *Effect of a strict vegan diet on energy and nutrient intakes by Finnish rheumatoid patients*. Eur J Clin Nutr, 1993. **47**(10): p. 747-9.
41. Turner-McGrievy, G.M., et al., *Effects of a low-fat vegan diet and a Step II diet on macro- and micronutrient intakes in overweight postmenopausal women*. Nutrition, 2004. **20**(9): p. 738-46.
42. Dewell, A., et al., *A very-low-fat vegan diet increases intake of protective dietary factors and decreases intake of pathogenic dietary factors*. J Am Diet Assoc, 2008. **108**(2): p. 347-56.
43. Merrill, R.M. and S.G. Aldana, *Consequences of a plant-based diet with low dairy consumption on intake of bone-relevant nutrients*. J Womens Health (Larchmt), 2009. **18**(5): p. 691-8.
44. Levin, S.M., et al., *A worksite programme significantly alters nutrient intakes*. Public Health Nutr, 2010. **13**(10): p. 1629-35.
45. Ornish, D.M., et al., *Dietary trial in prostate cancer: Early experience and implications for clinical trial design*. Urology, 2001. **57**(4 Suppl 1): p. 200-1.
46. Frattaroli, J., et al., *Clinical events in prostate cancer lifestyle trial: results from two years of follow-up*. Urology, 2008. **72**(6): p. 1319-23.
47. Barnard, N.D., et al., *Effectiveness of a low-fat vegetarian diet in altering serum lipids in healthy premenopausal women*. Am J Cardiol, 2000. **85**(8): p. 969-72.
48. Fernandes, J., et al., *The effect of a virtually cholesterol-free, high-linoleic-acid vegetarian diet on serum lipoproteins of children with familial hypercholesterolemia (type II-A)*. Acta Paediatr Scand, 1981. **70**(5): p. 677-82.
49. Rueda-Clausen, C.F., et al., *Olive, soybean and palm oils intake have a similar acute detrimental effect over the endothelial function in healthy young subjects*. Nutr Metab Cardiovasc Dis, 2007. **17**(1): p. 50-7.
50. Wirths, W., et al., *[Effect of an ovo-lacto-vegetarian diet on nutrition and blood status. I. Method, food consumption, administration of nutrients and anthropometry]*. Z Ernahrungswiss, 1987. **26**(4): p. 230-49.
51. Kohlenberg-Mueller, K. and L. Raschka, *Calcium balance in young adults on a vegan and lactovegetarian diet*. J Bone Miner Metab, 2003. **21**(1): p. 28-33.

52. Kristensen, M.B., et al., *Total zinc absorption in young women, but not fractional zinc absorption, differs between vegetarian and meat-based diets with equal phytic acid content.* Br J Nutr, 2006. **95**(5): p. 963-7.
53. Remer, T., A. Neubert, and F. Manz, *Increased risk of iodine deficiency with vegetarian nutrition.* Br J Nutr, 1999. **81**(1): p. 45-9.
54. Breslau, N.A., et al., *Relationship of animal protein-rich diet to kidney stone formation and calcium metabolism.* J Clin Endocrinol Metab, 1988. **66**(1): p. 140-6.
55. Caso, G., et al., *Albumin synthesis is diminished in men consuming a predominantly vegetarian diet.* J Nutr, 2000. **130**(3): p. 528-33.
56. Havlicek, J. and P. Lenochova, *The effect of meat consumption on body odor attractiveness.* Chem Senses, 2006. **31**(8): p. 747-52.
57. Hietavala, E.M., et al., *Low-protein vegetarian diet does not have a short-term effect on blood acid-base status but raises oxygen consumption during submaximal cycling.* J Int Soc Sports Nutr, 2012. **9**(1): p. 50.
58. Iacono, G., et al., *Intolerance of cow's milk and chronic constipation in children.* N Engl J Med, 1998. **339**(16): p. 1100-4.
59. Barnard, R.J., et al., *Role of diet and exercise in the management of hyperinsulinemia and associated atherosclerotic risk factors.* Am J Cardiol, 1992. **69**(5): p. 440-4.
60. Chetty, N. and B.A. Bradlow, *The effects of a vegetarian diet on platelet function and fatty acids.* Thromb Res, 1983. **30**(6): p. 619-24.
61. DeRose, D.J., et al., *Vegan diet-based lifestyle program rapidly lowers homocysteine levels.* Prev Med, 2000. **30**(3): p. 225-33.
62. Esselstyn, C.B., Jr., *Updating a 12-year experience with arrest and reversal therapy for coronary heart disease (an overdue requiem for palliative cardiology).* Am J Cardiol, 1999. **84**(3): p. 339-41, A8.
63. Esselstyn, C.B., Jr., et al., *A strategy to arrest and reverse coronary artery disease: a 5-year longitudinal study of a single physician's practice.* J Fam Pract, 1995. **41**(6): p. 560-8.
64. Esselstyn Jr, C.G., G; Doyle, J; Golubic, M; Roizen, MF, *A way to reverse CAD?* Journal of Fam. Pract., 2014. **63**(7).
65. Ivanov, A.N., I.L. Medkova, and L.I. Mosiakina, *[The effect of an antiatherogenic vegetarian diet on the clinico-hemodynamic and biochemical indices in elderly patients with ischemic heart disease].* Ter Arkh, 1999. **71**(2): p. 75-8.
66. Kempner, W., *Treatment of heart and kidney disease and of hypertensive and arteriosclerotic vascular disease with the rice diet.* Ann Intern Med, 1949. **31**(5): p. 821-56, illust.
67. Kempner, W., *Treatment of hypertensive vascular disease with rice diet.* Arch Intern Med, 1974. **133**(5): p. 758-90.
68. Masarei, J.R., et al., *Effects of a lacto-ovo vegetarian diet on serum concentrations of cholesterol, triglyceride, HDL-C, HDL2-C, HDL3-C, apoprotein-B, and Lp(a).* Am J Clin Nutr, 1984. **40**(3): p. 468-78.
69. Medkova, I.L., et al., *[Blood lipids and intensity of free radical oxidant processes in elderly patients with ischemic heart disease on antiatherogenic vegetarian diet].* Klin Med (Mosk), 2000. **78**(1): p. 21-4.

70. Vinagre, J.C., et al., *Plasma kinetics of chylomicron-like emulsion and lipid transfers to high-density lipoprotein (HDL) in lacto-ovo vegetarian and in omnivorous subjects*. Eur J Nutr, 2014. **53**(3): p. 981-7.
71. Sutcliffe, J.T., et al., *C-reactive protein response to a vegan lifestyle intervention*. Complement Ther Med, 2015. **23**(1): p. 32-7.
72. Demark-Wahnefried, W., et al., *Pilot study of dietary fat restriction and flaxseed supplementation in men with prostate cancer before surgery: exploring the effects on hormonal levels, prostate-specific antigen, and histopathologic features*. Urology, 2001. **58**(1): p. 47-52.
73. Hill, P.B. and E.L. Wynder, *Effect of a vegetarian diet and dexamethasone on plasma prolactin, testosterone and dehydroepiandrosterone in men and women*. Cancer Lett, 1979. **7**(5): p. 273-82.
74. Nguyen, J.Y., et al., *Adoption of a plant-based diet by patients with recurrent prostate cancer*. Integr Cancer Ther, 2006. **5**(3): p. 214-23.
75. Ornish, D., et al., *Increased telomerase activity and comprehensive lifestyle changes: a pilot study*. Lancet Oncol, 2008. **9**(11): p. 1048-57.
76. Saxe, G.A., et al., *Potential attenuation of disease progression in recurrent prostate cancer with plant-based diet and stress reduction*. Integr Cancer Ther, 2006. **5**(3): p. 206-13.
77. Tsutsumi, M., et al., *[A low-fat and high soybean protein diet for patients with elevated serum PSA level: alteration of QOL and serum PSA level after the dietary intervention]*. Hinyokika Kyo, 2002. **48**(4): p. 207-11.
78. Donaldson, M.S., N. Speight, and S. Loomis, *Fibromyalgia syndrome improved using a mostly raw vegetarian diet: an observational study*. BMC Complement Altern Med, 2001. **1**: p. 7.
79. Fujita, A., et al., *[Effects of a low calorie vegan diet on disease activity and general conditions in patients with rheumatoid arthritis]*. Rinsho Byori, 1999. **47**(6): p. 554-60.
80. McDougall, J., et al., *Effects of a very low-fat, vegan diet in subjects with rheumatoid arthritis*. J Altern Complement Med, 2002. **8**(1): p. 71-5.
81. Swank, R.L. and B.B. Dugan, *Effect of low saturated fat diet in early and late cases of multiple sclerosis*. Lancet, 1990. **336**(8706): p. 37-9.
82. Swank, R.L. and A. Grimsgaard, *Multiple sclerosis: the lipid relationship*. Am J Clin Nutr, 1988. **48**(6): p. 1387-93.
83. Festugato, M., *Pilot study on which foods should be avoided by patients with psoriasis*. An Bras Dermatol, 2011. **86**(6): p. 1103-8.
84. Lithell, H., et al., *A fasting and vegetarian diet treatment trial on chronic inflammatory disorders*. Acta Derm Venereol, 1983. **63**(5): p. 397-403.
85. Tanaka, T., et al., *Vegetarian diet ameliorates symptoms of atopic dermatitis through reduction of the number of peripheral eosinophils and of PGE2 synthesis by monocytes*. J Physiol Anthropol Appl Human Sci, 2001. **20**(6): p. 353-61.
86. Andrews, J.M., et al., *Effect of a lacto-ovo vegetarian diet on fasting small intestinal motility*. Scand J Gastroenterol, 2001. **36**(10): p. 1037-43.
87. Walkowiak, J., et al., *Adaptive changes of pancreatic protease secretion to a short-term vegan diet: influence of reduced intake and modification of protein*. Br J Nutr, 2012. **107**(2): p. 272-6.

Last updated: April, 2017

References: Inventory of Plant-Based Clinical Interventions | Micaela Karlsen, MSPH

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88. Johansson, G., E. Callmer, and J.A. Gustafsson, *Changing from a mixed diet to a Scandinavian vegetarian diet: effects on nutrient intake, food choice, meal pattern and cooking methods*. Eur J Clin Nutr, 1992. **46**(10): p. 707-16.
89. Jibani, M.M., et al., *Predominantly vegetarian diet in patients with incipient and early clinical diabetic nephropathy: effects on albumin excretion rate and nutritional status*. Diabet Med, 1991. **8**(10): p. 949-53.
90. Kempner, W., et al., *Treatment of massive obesity with rice/reduction diet program. An analysis of 106 patients with at least a 45-kg weight loss*. Arch Intern Med, 1975. **135**(12): p. 1575-84.
91. McDougall, J., et al., *Effects of 7 days on an ad libitum low-fat vegan diet: the McDougall Program cohort*. Nutr J, 2014. **13**: p. 99.