

Mediterranean Diet Helps Blood Sugar Health

By Greg Arnold, DC, CSCS, June 19, 2008, abstracted from "Adherence to Mediterranean diet and risk of developing diabetes: prospective cohort study" in the June 2008 of the British Medical Journal

Link – http://www.nowfoods.com/M102482.htm?cat=Diabetes

The Mediterranean Diet (MD) is characterized by high consumption of olive oil, fish, nuts and fruits and vegetables. It has not only been found to decrease mortality by 23 percent¹ but also elicits a number of health benefits including helping to <u>increase antioxidant levels</u>², improve <u>mental</u> <u>health</u>³, <u>peripheral vascular health</u>⁴, and <u>heart health</u>⁵ while <u>playing no role in obesity</u>⁶.

Now a new study⁷ has found that the MD may help blood sugar health and Type 2 Diabetes T2D), which currently affects 17 million Americans and costs our healthcare system \$132 billion per year⁸.

In the study, over 13,000 patients participating in the SUN Project in Spain⁹ completed a 136-item food frequency questionnaire¹⁰, as well as a questionnaire on physical activity¹¹. They also measured their adherence to the MD, using a method¹² based on the six "protective components" of the MD (fatty acid intake, legumes, grains, fruits, vegetables, or fish). The patients were assigned to one of three groups, based on their adherence to the MD:

Group 1 - Low adherence to the MD (a score of 0-2) Group 2 - Moderate adherence to the MD (score of 3-6)

Group 3 - High adherence to the MD (score of 7-9)

The researchers found that compared to the low adherence group, those in the high adherence group had an 83% reduced risk of diabetes, while the moderate group had a 60% reduced risk. For the researchers, the MD ^m might have a substantial potential for prevention" of T2D and that "adherence to a Mediterranean diet is associated with a reduced risk of diabetes."

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Reference:

¹ Trichopoulou, A., et al., Adherence to a Mediterranean diet and survival in a Greek population. *N Engl J Med*, *2003.* 348(26): p. 2599-608

² Pitsavos C. Adherence to the Mediterranean diet is associated with total antioxidant capacity in healthy adults: the ATTICA study *Am. J. Clinical Nutrition*, Sep 2005; 82: 694 – 699

³ Scarmeas N. Mediterranean Diet, Alzheimer Disease, and Vascular Mediation. *Arch Neurol.* 2006;63:(doi:10.1001/archneur.63.12.noc60109)

⁴ Raffaele Antonelli-Incalzi Association between nutrient intake and peripheral artery disease: Results from the In CHIANTI study. *Atherosclerosis* 2006; 186(1): 200-206

⁵ Estruch R. Effects of Mediterranean-Style Diet on Cardiovascular Risk Factors. *Ann Intern Med.* 2006;145:1-11.

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⁶ Trichopoulou A. Mediterranean diet in relation to body mass index and waist-to-hip ratio: the Greek European Prospective Investigation into Cancer and Nutrition Study. *Am. J. Clinical Nutrition*, Nov 2005; 82: 935 – 940

⁷ Martinez-Gonzalez MA. Adherence to Mediterranean diet and risk of developing diabetes: prospective cohort study. *BMJ 2008*; 336:1348-1351. doi:10.1136/bmj.39561.501007

⁸ Hogan, P., T. Dall, et al. (2003). "Economic costs of diabetes in the US in 2002." *Diabetes Care* 26(3): 917-32

⁹ Martinez-Gonzalez MA, Sanchez-Villegas A, de Irala J, Marti A, Martinez JA. Mediterranean diet and stroke: objectives and design of the SUN project. *Nutr Neurosci 2002*;5:65-73

¹⁰ Martin-Moreno JM, Boyle P, Gorgojo L, Maisonneuve P, Fernandez-Rodriguez JC, Salvini S, et al. Development and validation of a food frequency questionnaire in Spain. *Int J Epidemiol 1993*;22:512-9

¹¹ Martinez-Gonzalez MA, Lopez-Fontana C, Varo JJ, Sánchez-Villegas A, Martinez JA. Validation of the Spanish version of the physical activity questionnaire used in the nurses' health study and health professionals' follow-up study. *Public Health Nutr* 2005;8:920-7

¹² Trichopoulou A, Kouris-Blazos A, Wahlquivist M, Gnardellis D, Lagiou P, Polychronopoulos E, et al. Diet and overall survival in elderly people. *BMJ 1995*;311:1457-60

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