

## Nuts and plasma lipids: An almond diet lowers LDL-C while preserving HDL-C.

Spiller, GA 1998

Journal Of American College Of Nutrition
17(3):285-290.

## Abstract:

Objective: To compare lipid-altering effects of an almond-based diet with an olive oil-based diet, against a cheese and butter-based control diet. Methods: Forty-five free-living hyperlipidemic men (n=12) and women (n=33) with a mean plasma total cholesterol (TC) of 251 ± 30 mg/dL followed one of three diets: almondbased, olive oil-based, or dairy-based for 4 weeks. Total fat in each diet was matched, and the study-provided sources of fat comprised the major portion of fat intake. Results: Reductions in TC and low-density lipoprotein-cholesterol (LDL-C) between the three groups were significantly different from the almond group (both p<0.001). Within group analysis revealed that the almond-based diet induced significant reductions in TC (p<0.05), LDL-C (p<0.001), and the TC:HDL ratio (p<0.001), while HDL-C levels were preserved. TC and HDL-C in the control diet were significantly increased from baseline (both p<0.05). while the olive oil-based diet resulted in no significant changes over the study period. Weight did not change significantly. Conclusion: Results suggest that the more favorable lipidaltering effects induced by the almond group maybe due to interactive or additive effects of the numerous bioactive constituents found in almonds.