

SUPPLEMENTAL MATERIAL

Low prevalence of mutations in known loci for autosomal dominant hypercholesterolemia in a multi-ethnic patient cohort

First Author: Zahid Ahmad, MD^{1,4}

Authors: Beverley Adams-Huet, MS^{2,4}; Chiyaun Chen^{3,4}, Abhimanyu Garg, MD^{1,4}

¹Division of Nutrition and Metabolic Diseases, Center for Human Nutrition; ²Department of Clinical Sciences; ³Departments of Molecular Genetics; ⁴Department of Internal Medicine, UT Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390

Table S1. Lipid and lipoprotein profile on lipid lowering therapy ^g

	FH (<i>LDLR</i>) Patients		Unexplained ADH Patients		Group x Gender Interaction p-value
	Male	Female	Male	Female	
n	11	19	25	28	
Total Cholesterol (mg/dl)	204 (26)	215 (36)	182 (45) ^d	207 (40)	0.44
LDL-C (mg/dl)	145 (26) ^a	135 (34)	116 (36)	123 (31)	0.28
TG (mg/dl)	137 (57)	140 (68)	127 (55) ^d	162 (51)	0.17
HDL-C (mg/dl)	39.4 (6.9) ^d	51.8 (10.8)	43.7 (8.6) ^e	55.4 (18.0)	0.90
% LDL-C change from untreated value	-48.5 (13.3)	-53.1 (13.0)	-52.2 (14.9)	-48.3 (10.8)	
Absolute LDL-C change from untreated value	-143 (65)	-159 (55)	-130 (51)	-116 (36)	

Continuous variables are summarized as mean (SD).

P-values are from two-way ANOVA for continuous variables and the Breslow-Day test for categorical variables.

^a p<0.05, FH (*LDLR*) versus unexplained ADH for the same gender.

^d p<0.05, ^e p<0.01, Male versus Female for the same group

^g Includes statins, ezetemibe, bile acid sequestrants, niacin, fish oil, and/or sitostanol.

Table S2. Percentage of patients on lipid lowering medication

	FH (<i>LDLR</i>) Patients		Unexplained ADH Patients		Median daily dose (range)
	Male	Female	Male	Female	
N	11	19	25	28	
Lipid lowering medication					
Statin (%)	90.9	94.7	100.0	82.1	
Rosuvastatin (%)	54.6	68.4	76.0	35.7	40 mg (5 – 40)
Simvastatin (%)	18.2	21.1	16.0	21.4	40 mg (10 – 80)
Atorvastatin (%)	9.1	5.3	4.0	10.7	60 mg (10 – 80)
Pravastatin (%)	9.1	0	8.0	14.3	20 mg (10 – 40)
Ezetimibe (%)	63.6	52.6	44.0	35.7	10 mg (5 – 10)
Niacin (%)	0.0	0.0	4.0	3.6	1000 mg (500 – 1500)
Bile acid sequestrants* (%)	27.3	10.5	8.0	21.4	
Fish oil (%)	9.1	0.0	12.0	10.7	2 g (2 – 3)
Lipid lowering medication class					
Statin alone (%)	36.4	42.1	52.0	50.0	
Ezetimibe alone (%)	0	5.3	0	10.7	
Bile acid sequestrants alone (%)	0	0	0	3.6	
Statin + Ezetimibe (%)	36.4	42.1	40.0	17.9	
Statin + bile acid sequestrants (%)	0	5.3	4.0	10.7	
Ezetimibe + bile acid sequestrants (%)	9.1	0	0	3.6	
Statin + Ezetimibe + bile acid sequestrants (%)	18.2	5.3	4.0	3.6	

* Colestipol, cholesytramine, and colesevvelam were used