

Serum HDL cholesterol uptake capacity in subjects from the MASHAD cohort study: its value in determining the risk of cardiovascular endpoints

Article (Supplemental Material)

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Table1: Clinical characteristics of cardiovascular disease versus control subjects, Mashhad stroke and heart atherosclerotic disorder (MASHAD) study

variable	CVD (n=153)	No CVD (n=350)	P
Female (%)	76 (28.4%)	192(71.6%)	0.2
Age (years)	53.79 ± 6.9	48.9 ± 7.8	<0.001*
BMI (kg/m ²)	28.6 ± 4.6	27.7± 4.9	0.058
PAL	1.54 ±0.29	1.57± 0.28	0.2
Non smoker	97 (28.9%)	239 (71.1%)	
Ex-smoker	25 (23.1%)	39 (60.9%)	0.2
Current smoker	31 (39.1%)	69 (69%)	
TC (mg/dl)	199.6 ± 43.9	188.4 ± 42.04	0.007*
TG (mg/dl)	174.08±109.2	144.17±101.3	0.001*
LDL-C (mg/dl)	120.7 ± 36.9	112.8 ± 38.1	0.03*

Values are expressed as mean ± standard deviation or median (interquartile) for normal and non-normal distribution data respectively. P value < 0.05 is considered as significant.

Table 2: Association of cholesterol uptake capacity (CUC) and CVD risk in the studied populations of MASHAD cohort (N=503)

Variables	CVD (N=153)	No CVD (N=350)	P	Unadjusted			Adjusted		
				B	OR (95 % CI)	P	B	OR (95 % CI)	P
HDL-C	40.8±10. 1	42.7±13. 7	0.6	-0.01	0.98(0.97- 1.00)	0.0 9	- 0.00 7	0.99(0.97- 1.01)	0.4
CUC	1.07±0.4 7	1.21±0.6 2	0.0 1	-0.44	0.64(0.45- 0.908)	0.0 1	- 0.54	0.57 (0.38- 0.87)	0.009

Analysis was performed using the univariate and multivariate logistic regression model after adjusting for Age, sex, BMI, smoking, Diabetes, hypertension, LDL, TG and Total cholesterol. OR: Odds ratio; BMI: body mass index; CVD: cardiovascular disease; HDL-C: high-density lipoprotein cholesterol; CUC: cholesterol uptake capacity

Table 3. Nominal Logistic Fit for CVD risk, Effect Summary, and Parameter Estimates in studied population of MASHAD cohort (N=503)

Source	Log Worth		P Value	Estimate	Std Error
Age	4.853		0.00001	-0.0638333	0.0150959
Hypertension history	1.826		0.01493	0.2864164	0.1176826
CUC baseline	1.770		0.01697	0.6523115	0.2825115
CUC baseline* HDL	1.602		0.02499	-0.0424722	0.0195035
Diabetes history	1.595		0.02543	-0.3842406	0.4370308
HDL	1.285		0.05183	0.0273172	0.0142909
Sex	0.807		0.15589	-0.2063983	0.1452834
Cholesterol	0.472		0.33699	-0.0057451	0.0059735
Smoking status	0.300		0.50063	-0.1273679	0.2157373
BMI	0.209		0.61823	-0.0134485	0.0269745
PAL	0.134		0.73487	-0.1706105	0.5031525
Triglycerides	0.131		0.73960	-0.0005005	0.0015011
LDL-C	0.053		0.88435	-0.0008614	0.0059269

Log-worth which is equal to $-\log(\text{p-value from the Chi-square})$. CUC: cholesterol uptake capacity; HDL-C: high-density lipoprotein cholesterol; BMI: body mass index; PAL: physical activity; LDL-C: low-density lipoprotein cholesterol