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Appendix A

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/apoAI	FB[a] (mg/dL)
Ng-Nl (n =42) (M+F)	40.1 ±16.7 b16.7[b]	149.5 ± 25.4	109.2 ± 43.5	41.8 ± 11.5	86.2 ± 21.9	21.2 ± 8.3	128.7 ± 22.2	67 ± 16.9	0.54 ± 0.2	92.2 ± 13
Range [c]	21 - 77	92 - 198	46 - 203	23 - 70	42 – 121	Sep-40	85 - 184	32 - 98	0.22 – 1.01	74 - 120
Ng-Hl- mixed (n = 20) (M+F)	45.8 ± 12.3	252.1 ± 43.6	342.1 ± 127.5	36.9 ± 5.6	148 ± 35.3	67.9 ± 25.7	141 ±26.9	138 ±35.3	0.99 ± 0.27	98.2 ± 12.1
Range [c]	29 - 83	201 - 369	202 - 679	23 – 43	85 - 212	40 - 136	88 - 208	79 - 240	0.7 – 1.9	78 - 118
Diff. [d]	5.7	102.6[h]	232.9[h]	-4.9	61.8[h]	46.7[h]	12.3	71[h]	0.45[h]	6
% Diff[e]	**14**	**69[h]**	**213[h]**	**-12**	**72[h]**	**220[h]**	**10**	**106[h]**	**83[h]**	**7**
Ng-Nl (n =35) (M+F)	45.9 ± 16.4	151.6 ± 25.8	114.1 ± 43.9	43.4 ± 11.3	85.7 ± 22.2	22.1 ± 8.4	131.5 ± 22.6	66.5 ± 17	0.52 ± 0.2	95.4 ± 15.3
Range[c]	21 - 77	92- 198	46 - 199	23 - 70	42- 121	Sep-40	85 - 184	32 - 98	0.2 – 0.95	75 - 120
Ng- Hl.chol (n =17) (M+F)	50.2 ± 15.8	230.8 ± 27.8	135 ± 54.0	61.8 ± 19.3	142.3 ± 25.5	26.7 ± 10.7	169.3 ± 40.8	106.4 ± 20.0	0.66 ± 0.22	95.9 ± 17.6
Range	19 - 79	202 - 302	56 - 200	39 - 112	109 - 200	Nov-39	114 - 239	83 - 149	0.4 – 1.3	57 - 116
Diff[a]	4.3	79.2[h]	20.9	18.4[h]	56.6[h]	4.6	37.8[h]	39.9[h]	0.14[g]	0.5
% Diff. [e]	**9**	**52[h]**	**18**	**42[h]**	**66[h]**	**21**	**29[h]**	**60[h]**	**27[g]**	**1**

Table A1: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Ng-Hl.mixed subjects are compared with the corresponding age- matched controls of Ng-Nl in the upper half of the table. The lower half of the table compares the Ng-Hl.chol group with Ng-Nl group.
[a]FBG : fasting blood glucose, [b]Mean ± SD, [c]Range, [d]Difference = (Ng – Hl) – (Ng- Nl), [e]Percent difference of means = {[(Ng – Hl) – (Ng – Nl)] / (Ng – Nl) } * 100 %, [f]$P < 0.05$, [g]$P < 0.01$ [h]P <0.001.

AI-Lp subclass	Ng-Nl (n = 42) (21 – 77)[f]	Ng-Hl.mixed (n = 20) (29 – 83)	Mean Diff[a]	% Diff.[b]	Ng-Nl (n = 35) (21 – – 77)	Ng-Hl.chol. (n = 17) (19 – 79)	Mean Diff[a]	% Diff.
1	Not detected	Not detected			Not detected	Not detected		
2	Not detected	10.8± 5.2[c,d] (n = 4)[e]	10.8		Not detected	Not detected		
3	6.8 ± 0.9 (n = 8)	6.7 ±3.2 (n = 6)	-0.1	-2	6.8 ± 0.7 (n = 7)	5.9 ± 1.7 (n = 4)	-0.9	-13
4	7.7 ± 1.9 (n =10)	18.0 ± 10.1 (n =11)	10.3[h]	134[h]	9.2 ± 2.9 (n = 9)	30.1 ± 29.1 (n = 7)	21.9[g]	238[g]
5	15.1 ± 5.7 (n = 12)	16.6 ± 12.8 (n = 8)	1.5	10	17.0 ± 6.7 (n = 11)	19.5 ± 6.7(n = 4)	2.5	15
6	24.6 ± 8.4 (n = 41)	27.6 ± 14.9 (n = 20)	3	12	25.9 ± 9.1(n = 34)	37.2 ± 15.8 (n = 15)	11.3[h]	44[h]
7	20.6 ± 5.9 (n = 37)	18.7 ± 6.7 (n = 11)	-1.9	-9	20.1 ± 7.4 (n = 29)	30.0 ± 6.3 (n = 13)	9.9[h]	49[h]
8	23.0 ± 8.3 (n = 22)	20.1 ± 6.2 (n = 14)	-2.9	-13	23.4 ± 8.5 (n = 18)	32.7 ± 12.9 (n = 8)	9.3[g]	40[g]
9	26.9 ± 8.5 (n = 23)	26.0 ± 11.1 (n = 10)	-0.9	-3	25.9 ± 8.0 (n = 20)	31.1 ± 11.2 (n = 11)	5.2	20

10	23.8 ±10.6 (n =29)	23.1 ± 9.1 (n = 14)	-0.7	-3	23.5 ± 10.6 (n = 25)	26.6 ± 7.8 (n = 11)	3.1	13
11	22.2 ± 13.2 (n = 9)	20.3 ± (n = 9)	-1.9	-9	21.3 ± 8.7 (n = 8)	19.3 ± 1.6 (n = 7)	-2	-9
12	20.9 ± 7.7 (n = 35)	19.5 ± 10.3 (n = 14)	-1.4	-7	21.1 ± 7.7 (n = 27)	23.4 ± 10.6 (n = 12)	2.3	11
13	9.4 ± 4.6	11.6 ± 4.5	2.2[g]	23[g]	10.3 ± 6.1	14.4 ± 7.1	4.1[g]	40[g]

Table A2: The apoA-I content of AI-Lp subclasses of Ng-Hl. mixed subjects are compared with the corresponding age-matched controls of Ng-Nl. The left half of the table compares Ng-Hl. mixed group with Hg-Nl group. The right half of the table compares the Ng-Hl. chol group with [a]Difference = (Ng – Hl.mixed), or (Ng – Hl.chol) – (Ng – Nl), [b]Percent difference of means = {[(Ng – Hl.mixed) – (Ng – Nl)] / (Ng – Nl) } * 100 %, [c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass.. [f]age range , [g]$P < 0.05$. [h]$P<0.01$.

Subjects	**Age (year)**	**Cholesterol (mg/dL)**	**TAGs (mg/dL)**	**HDL-C (mg/dL)**	**LDL-C (mg/dL)**	**VLDL-C (mg/dL)**	**apoA-I (mg/dL)**	**apoB (mg/dL)**	**apoB/ apoAI**	**FB[a] (mg/dL)**
Ng - Nl (n = 32)(M+F)	47.8 ± 15.8[b]	154.0 ± 24.5	118.8 ± 42.7	43.5 ± 11.2	87.0 ± 20.2	23.0 ± 8.1	132.3 ± 22.4	67.7 ± 15.6	0.53 ± 0.16	94.1 ± 13.8
Range[c]	27 - 77	92 - 198	58 - 205	23 - 70	43 - 121	Nov-40	85 - 184	43 - 98	0.32 – 0.95	75 - 120
Ng - Hl.TAG (n = 14)(M+F)	50.4 ± 12.3	176 ± 19.5	308.5 ± 107.2	33.7 ± 6.4	82.9 ± 28.4	59.8 ± 21.7	129.1 ± 18.1	94.9 ± 15.3	0.75 ± 0.14	101.9 ± 14.9
Range[c]	31 - 75	146 - 199	205 - 565	20 - 45	25 - 115	40 - 113	88 - 155	66 - 121	0.6 – 1.1	72 - 119
Diff[d]	2.6	22 [g]	189.7 h	- 9.8 [g]	-4.1	36.8 h	-3.2	27.2 h	0.22 h	7.8
% Diff[e]	**5.4**	**14[g]**	**160[h]**	**- 23[g]**	**- 5**	**160[h]**	**-2**	**40[h]**	**42[h]**	**8**
Ng-Nl (n =42) (M+F)	40.1 ± 16.7 [b]	149.5 ± 25.4	109.2 ± 43.5	41.8 ± 11.5	86.2 ± 21.9	21.2 ± 8.3	128.7 ± 22.2	67 ±16.9	0.54 ± 0.2	92.2 ± 13
Range[c]	21 - 77	92 - 198	46 - 203	23 - 70	42 – 121	Sep-40	85 - 184	32 - 98	0.22 – 1.01	74 - 120
Ng - (Hl.chol+ Hl.TAG+Hl.mixed) (n = 43)(M+F)	45.5 ± 10.7	223.4 ± 43.4	264.6 ± 121.3	42.4 ± 16.4	128.6 ± 43.3	52.5 ± 24.3	143.9 ± 33.1	115.6 ± 30.8	0.83 ± 0.26	96.4 ± 13.9
Range[c]	19 - 64	146 - 347	75 - 571	20 - 112	25 - 212	15 - 114	88 - 239	66 - 240	0.38 – 1.85	57 - 118
Diff[a]	5.4	73.5[h]	155.4[h]	0.6	42.4[h]	31.3[h]	15.2[f]	49[h]	0.29[h]	4.2
% Diff[e]	**14**	**49[h]**	**142[h]**	**1**	**49[h]**	**148[h]**	**12[f]**	**73[h]**	**54[h]**	**5**

Table A3: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Ng-Hl.TAG subjects are compared with the corresponding age- matched controls of Ng-Nl in the upper half of the table. The lower half of the table compares the Ng-(Hl.chol + Hl.TAG + Hl.mixed) group with Ng-Nl group. [a]FBG : fasting blood glucose, [b]Mean ± SD, [c]Range, [d]Difference = (Ng – Hl.TAG) – (Ng- Nl), [e]Percent difference of means = {[(Ng – Hl.TAG) – (Ng – Nl)] / (Ng – Nl) } * 100 %, [f]$P < 0.05$ [g]$P < 0.01$, [h]$P < 0.001$.

AI-Lp subclass	Ng - Nl (n = 32) (27 – 77)[f]	Ng - Hl.TAG (n = 14) (31 – 75)	Mean Diff.[a]	% Diff.[b]	Ng - Nl (n = 42) (21 – 77)	Ng -(Hl.chol+Hl.TAG+Hl) (n = 43) (19 – 64)	Mean Diff.[a]	% Diff.[b]
1	Not detected	Not detected			Not detected	Not detected		
2	Not detected	3.5 (n = 1)			Not detected	6.4 ± 2.9 (n = 5)		
3	6.8 ± 0.9[c, d(n = 7)e]	6.9 ± 2.9(n = 5)	0.1	1.5	6.8 ± 0.9 (n = 8)	7.6 ± 2.7 (n =10)	0.8	12
4	9.2 ± 3.1 (n = 8)	21.7 ± 12.7 (n = 8)	12.5[g]	136[g]	7.7 ± 1.9 (n =10)	22.8 ± 19.4 (n = 22)	15.1[g]	196[g]
5	16.2 ± 7.0 (n = 9)	14.2 ± 9.8 (n = 2)	-2	-12	15.1 ± 5.7 (n = 12)	13.7 ± 6.6 (n = 9)	-1.4	-9
6	26.1 ± 9.2 (n =31)	26.9 ± 9.2 (n =12)	0.82	3	24.6 ± 8.4 (n = 41)	29.4± 14.4 (n = 36)	4.8[g]	20[g]
7	21.7 ± 9.3 (n=28)	17.9 ± 4.5 (n = 12)	-3.7	-18	20.6 ± 5.9 (n = 37)	22.1 ± 10.9 (n = 30)	1.5	7
8	22.9 ± 8.8 (n =16)	14.9 ± 3.6 (n = 7)	- 8.0[g]	-35[g]	23.0 ± 8.3 (n = 22)	23.0 ± 11.2 (n = 24)	0	0
9	26.3 ± 8.0 (n =19)	19.1 ± 7.1 (n = 8)	- 7.2[g]	-27[g]	26.9 ± 8.5 (n = 23)	23.6 ± 8.9 (n = 22)	-3.3	-9
10	23.2 ± 11.0(n = 23)	24.1 ± 8.5 (n = 11)	0.9	4	23.8 ±10.6 (n =29)	24.6 ± 8.0 (n =31)	0.8	3
11	22.1 ± 9.1 (n= 7)	19.4 ± 3.4 (n = 5)	-2.7	-12	22.2 ± 13.2 (n = 9)	20.3 ± 4.6 (n = 10)	-1.9	-9
12	20.7 ± 7.6 (n = 26)	13.7 ± 5.8 (n = 13)	- 7.0[h]	-34[h]	20.9 ± 7.7 (n = 35)	17.4 ± 6.7 (n = 28)	- 3.5[g]	-17[g]
13	10.1 ± 5.7	10.0 ± 3.5	-0.1	-1	9.4 ± 4.6	12.1 ± 5.7	2.7h	29[h]

Table A4: The apoA-I content of AI-Lp subclasses of Ng-Hl.TAG subjects are compared with the corresponding age-matched controls of Ng- Nl. The left half of the table compares Ng-Hl.TAG group with Hg-Nl group. The right half of the table compares the Ng-(Hl.chol + Hl.TAG + Hl.mixed) group with Ng-Nl group.

[a]Difference = (Ng – Hl.TAG), or (Ng – (Hl.chol + Hl.TAG + Hl.mixed) – (Ng – Nl).

[b]Percent difference of means = {[(Ng – Hl.TAG) – (Ng – Nl)] / (Ng – Nl) } * 100 %, [c]Mean ± SD, [d]values are in mg/dL, [e] Number of samples that contain this subclass., [f] age range . [g]$P < 0.05$. [h]$P < 0.01$.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/ apoAI	FBG[a] (mg/dL)
Ng-Nl (n = 26)(M+F)	55.3 ± 11.9 [b]	159.1 ± 23.0	128.2 ± 41.5	43.1± 11.2	90.7 ± 19.8	24.7 ± 8.0	134.8 ± 22.6	71.2 ± 14.9	0.55 ± 0.17	96.8 ± 13.9
Range [c]	33 -77	92 - 198	74 - 202	23 - 70	43 - 121	15 - 40	85 - 184	45 - 98	0.36 - 95	75 - 120
Hg-Nl (n = 13)(M+F)	60.8 ± 10.7	158.4 ± 25.7	126.7 ± 38.5	41.1 ± 10.3	97.0 ± 26.7	24.9 ± 7.5	136.8 ± 23.2	76.0 ± 17.3	0.58 ± 0.19	198.3 ± 50.5
Range	41 - 77	109 - 189	64 - 199	23 - 62	49 - 134	13 - 39	104 - 181	36 - 96	0.2 – 0.88	147 – 33.4
Diff. [d]	5.5	-0.7	-1.5	-2	6.3	0.2	2	4.8	0.03	101.5[h]
% Diff.[e]	**10**	**-0.4**	**-1**	**-5**	**7**	**1**	**2**	**7**	**6**	**105 [h]**
Ng – Nl (n = 33)(M+F)	46.3 ± 17.0	148.2 ± 26.1	111.8 ± 43.2	44.0 ± 11.4	82.1 ± 21.9	21.6 ± 8.2	127.7 ± 23.4	64.3 ± 16.8	0.52 ± 0.19	90.6 ± 13.1
Range	27 - 77	92 - 198	46 - 202	23 - 70	42 - 121	9 – 40	85 - 184	32 - 98	0.2 – 1.01	74 - 120
Hg-(Hl.chol + Hl.TAG+Hl.mixed) (n =	50.9 ± 9.4	230.4 ± 87.8	367.7 ± 282.5	36.6 ± 12.1	120.0 ± 76.0	73.2 ± 57.2	137.3 ± 24.2	110.6 ± 37.6	0.81 ± 0.23	217.2 ± 81.3

28)(M+F)										
Range	26 - 69	135 - 544	181 - 1754	23 - 82	37 - 455	36 - 351	99 - 210	54 - 228	0.36 – 1.3	124 - 449
Diff. [a]	4.6	82.2[h]	255.9 [h]	- 7.4[f]	37.9[f]	51.6[h]	9.6	46.3[h]	0. 29[h]	126.6 [h]
% Diff.	**10**	**56[h]**	**229[h]**	**- 17[f]**	**46[f]**	**239[h]**	**8**	**72[h]**	**56[h]**	**140[h]**

Table A5: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Hg-Nl subjects are compared with the corresponding age-matched controls of Ng-Nl in the upper half of the table. The lower half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) group with Ng-Nl group.
[a]FBG : fasting blood glucose, [b]Mean ± SD, [c]Range, [d]Difference = (Hg – Nl), or (Hg – (Hl.chol + Hl.TAG + Hl.mixed)) - (Ng- Nl), [e]Percent difference of means = {[(Hg – Nl) – (Ng – Nl)] / (Ng – Nl) } * 100 %, [f]$P < 0.05$,[g]$P < 0.01$, [h]$P < 0.001$.

AI-Lp subclass	Ng-Nl (n = 26) (33 -77)[f]	Hg-Nl (n = 13) (41 – 77)	Mean Diff.[a]	% Diff.[b]	Ng-Nl (n = 33) (27 – 77)	Hg- (Hl.chol+Hl.TAG+Hl) (n = 28) (26 – 69)	Mean Diff.[a]	% Diff.
1	Not detected	Not detected			Not detected	8.6 (n = 1)	**8.6**	
2	Not detected	Not detected			Not detected	4.5 ± 1.7 (n =2)	**4.5**	
3	6.8 ± 0.95 [c,d](n = 6)e	4.16 (n = 1)	-2.6	-39	7.0 ± 1.2 (n = 3)	5.4 ± 1.6 (n =7)	**-1.6**	**-23**
4	11.5 ± 6.1 (n = 7)	11.7 ± 6.4 (n = 4)	0.2	2	8.7 ± 3.7 (n = 9)	19.3 ± 13.3 (n =11)	**10.6 g**	**122[g]**
5	16.2 ± 7.0 (n = 9)	16.5 ± 7.5 (n = 3)	0.3	2	17.4 ± 7.6 (n = 6)	14.2 ± 9.5 (n =7)	-3.2	-18
6	26.7 ±9.5 (n = 25)	29.8 ± 9.3 (n = 13)	3.1	12	24.1 ± 7.8 (n = 30)	30.0 ± 12.7 (n = 24)	**5.9[g]**	**25[g]**
7	21.6 ± 8.1 (n = 22)	28.3 ± 10.1 (n =12)	**6.7g**	**31[g]**	19.4 ± 7.1 (n = 30)	24.6 ± 10.1 (n = 21)	**5.2[g]**	**27[g]**
8	23.7 ± 9.6 (n = 13)	25.0 ± 6.1 (n = 6)	1.3	6	22.3 ± 9.0 (n = 17)	23.4 ± 11.9 (n = 20)	1.1	5
9	25.7 ± 8.5 (n = 14)	27.8 ± 15.3 (n =2)	2.1	8	24.3 ± 7.1 (n = 17)	24.8 ± 5.6 (n = 14)	0.5	2
10	23.3 ± 10.1 (n = 19)	25.8 ± 18.2 (n = 9)	2.5	11	24.1 ± 11.9 (n = 25)	23.8 ± 8.9 (n = 18)	-0.3	-1
11	23.9 ± 8.4 (n=6)	17.2 ± 4.8 (n = 3)	-6.7	-23	20.1 ± 8.8 (n = 9)	18.2 ± 7.4 (n = 11)	-1.9	-10
12	19.1 ± 7.1 (n = 21)	19.4 ± 6.8 (n =13)	0.3	2	21.2 ± 7.5 (n = 25)	15.8 ± 7.1 (n = 18)	**- 5.4[g]**	**- 26[g]**
13	9.4 ± 4.4	12.1 ± 4.8	**2.7[g]**	**29[g]**	10.5 ± 6.1	8.2 ± 3.8	**- 2.4[g]**	**- 22[g]**

Table A6: The apoA-I content of AI-Lp subclasses of Hg-Nl subjects are compared with the corresponding age-matched controls of Ng-Nl. The left half of the table compares Hg-Nl group with Ng-Nl group. The right half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) group with Ng-Nl group.

[a]Difference = (Hg – Nl) – (Ng – Nl), [b]Percent difference of means = {[(Ng – Hl) – ([c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass, [f]age range , [g]$P < 0.05$.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/apoAI	FB[a] (mg/dL)
Ng-(Nl+ Hl.chol + Hl.TAG +Hl) (n = 38) (male)	48.0 ± 13.8 b	196.0 ± 53.8	232.8 ± 135.5	42.1 ± 15.8	108.5 ± 42.3	46.2 ± 27.1	137.8 ± 27.4	100.4 ± 36.8	0.74 ± 0.25	96.3 ± 12.7
Range[c]	29 - 77	92 - 347	74 - 571	20 - 112	25 - 198	15-114	88 - 239	45 - 240	0.4 – 1.3	57 - 116
Hg- (Nl +Hl.chol + Hl.TAG +Hl) (n = 25) (male)	53.2 ± 8.3	203.9 ± 82.8	243.6 ± 112.5	37.7 ± 11.5	118 ± 77.7	48.6 ± 22.9	136.6 ± 27.5	101.8 ± 38.6	0.76 ± 0.26	182.6 ± 78.7
Range	37 - 69	117 - 544	76 - 470	23 - 82	55 - 455	15 - 94	85 - 210	54 - 228	0.4 – 1.3	120 - 449
Diff.[d]	5.2	7.9	10.8	-4.4	9.5	2.4	-1.2	1.8	0.02	86.3[h]
% Diff[e]	**11**	**4**	**5**	**-11**	**9**	**5**	**-1**	**2**	**3**	**90[h]**
Ng- (Nl + Hl.chol + Hl.TAG + Hl) (n =30) (female)	51.3 ± 13.5	214.1 ± 48.0	209.2 ± 130.4	47.5 ± 14.9	124.2 ± 40.0	40.9 ± 26.3	150.1 ± 34.9	101.2 ± 34.1	0.70 ± 0.3	94.6 ± 13.9
Range	25 - 83	138 - 369	56.1 - 679	23 - 87	48-212	11.0- 136	88-283	46 - 188	0.3 – 1.85	63 - 117
Hg- (Nl + Hl.chol + Hl.TAG+ Hl) (n =27) (female)	56.6 ± 11.5	192 ± 43.2	249.5 ± 122.2	40.7 ± 13.5	105.5 ± 32.6	49.2 ± 24.1	142.8 ± 25.3	97.0 ± 29.6	0.70 ± 0.22	195.6 ± 67.9
Range[c]	26 - 81	109 - 280	64 - 556	23 - 82	37 - 181	13 - 109	99 - 198	36 - 158	0.21 – 1.13	124 - 418
Diff.[d]	5.3	-22.1	40.3	-6.8	-18.7	8.3	-7.3	-4.2	0	101[h]
% Diff.[e]	**10**	**-10**	**19**	**-14**	**-15**	**20**	**-5**	**-4**	**0**	10[h]

Table A7: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Hg-(Hl.chol + Hl.TAG + Hl.mixed) male subjects are compared with the corresponding age-matched Ng-(Hl.chol + Hl.TAG + Hl.mixed) male subjects in the upper half of the table. The lower half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) females group with Ng-(Hl.chol + Hl.TAG + Hl.mixed) females group.

[a]FBG: fasting blood glucose, [b]Mean ± SD , [c]Range, [d]Difference = (Hg) – (Nl), [e]Percent difference of means = {[(Hg) – (Ng)] / (Ng)} * 100 %, [h]P < 0.001.

AI-Lp subclass	Ng-(Nl+ Hl.chol + Hl.TAG +Hl.mixed) (n = 38) (male) (29 – 77)f	Hg- (Nl +Hl.chol + Hl.TAG +Hl.mixed) (n = 25) (male) (37 – 69)	Mean Diff.[a]	% Diff.[b]	Ng- (Nl + Hl.chol + Hl.TAG + Hl.mixed) (n =30) (female) (25 – 83)	Hg- (Nl + Hl.chol + Hl.TAG+Hl.mixed) (n =27) (female) (26 – 81)	Mean Diff.[a]	% Diff.
1	Not detected	Not detected			Not detected	8.6 (n = 1)	8.6	
2	8.7 ± 3.5[c,d] (n = 2)[e]	5.5 ± 3.2 (n = 2)	-3.2	-37	10.7 ± 10.3 (n = 2)	Not detected	10.7	
3	8.4 ± 2.2 (n = 7)	4.9 ± 1.6 (n = 3)	- 3.5[g]	- 42[g]	5.4 ± 1.3 (n = 7)	7.9 ± 4.5 (n = 7)	2.5	46
4	25.0 ± 20.5 (n=15)	19.6 ± 10.9 (n = 12)	-5.4	-22	15.5 ± 13.4 (n = 13)	16.8 ± 12.2 (n = 11)	1.3	8
5	16.0 ± 6.2 (n = 10)	17.6 ± 9.7 (n = 5)	1.6	10	11.7 ± 4.9 (n = 9)	18.8 ± 7.5 (n = 5)	7.1[g]	61[g]
6	26.6 ± 13.2 (n = 34)	27.3 ± 11.8 (n = 24)	0.7	3	30.8 ± 11.0 (n = 29)	31.6 ± 14.2 (n = 26)	0.8	3
7	22.0 ± 11.6 (n = 28)	22.9 ± 9.3 (n = 21)	0.9	4	23.3 ± 8.3 (n = 25)	26.7 ± 10.3 (n = 21)	3.4	15

8	21.7 ± 10.0 (n = 23)	24.2 ± 13.4 (n = 14)	2.5	12	24.9 ± 11.5 (n = 16)	24.4 ± 10.5 (n = 18)	-0.5	-2
9	24.8 ± 10.2 (n = 21)	23.3 ± 5.6 (n = 13)	-1.5	-6	29.0 ± 10.5 (n = 16)	28.3 ± 8.0 (n = 8)	-0.7	-2
10	22.8 ± 9.2 (n = 26)	23.6 ± 9.9 (n = 17)	0.8	4	24.9 ± 8.5 (n = 22)	26.9 ± 13.8 (n = 19)	2	8
11	21.8 ± 6.4 (n = 13)	21.6 ± 6.5 (n = 9)	-0.2	-1	18.7 ± 4.7 (n = 11)	19.8 ± 8.7 (n = 10)	1.1	6
12	17.4 ± 6.3 (n = 28)	17.8 ± 9.1 (n = 20)	0.4	2	21.0 ± 11.5 (n = 24)	20.2 ± 8.3 (n = 20)	-0.8	-4
13	12.2 ± 5.7	9.6 ± 3.9	- 2.6[g]	- 21[g]	12.1 ± 6.4	9.4 ± 4.1	- 2.7[g]	-22[g]

Table A8: [a]Difference = Hg- (Nl +Hl.chol + Hl.TAG +Hl.Mixed), male, or female - Ng-(Nl+ Hl.chol + Hl.TAG +Hl.Mixed), male, or female, [b]Percent difference of means = { [male (n = 25) – male (n = 38)] / male (n = 38)} * 100 %, [c]Mean ± SD, [d]values are in mg / dL , [e]Number of samples that contain this subclass. [f]age range , [g]$P < 0.05$.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/ apoAI	FB[a] (mg/dL)
Ng-(Nl+ Hl.chol + Hl.TAG +Hl.mixed) (n = 38) (male)	48.0 ± 13.8[b]	196.0 ± 53.8	232.8 ± 135.5	42.1 ± 15.8	108.5 ± 42.3	46.2 ± 27.1	137.8 ± 27.4	100.4 ± 36.8	0.74 ± 0.25	96.3 ± 12.7
Range[c]	29 - 77	92 - 347	74 - 571	20 - 112	25 - 198	15 - 114	88 - 239	45 - 240	0.4 – 1.3	57 - 116
Ng-(Nl+Hl.chol + Hl.TAG+ Hl.mixed) (n=30) (female)	51.3 ± 13.5	214.1 ± 48.0	209.2 ± 130.4	47.5 ± 14.9	124.2 ± 40.0	40.9 ± 26.3	150.1 ± 34.9	101.2 ± 34.1	0.70 ± 0.3	94.6 ± 13.9
Range[c]	25 - 83	138 - 369	56.1 - 679	23 - 87	48 - 212	11.0 - 136	88 - 283	46 - 188	0.3 – 1.85	63 - 117
Diff.[d]	3.3	18.1	-23.6	5.4	15.7	-5.3	12.3	0.8	-0.04	-1.7
% Diff.[e]	**7**	**9**	**-10**	**13**	**15**	**-12**	**9**	**1**	**-5**	**-2**
Hg-(Nl+Hl.chol + Hl.TAG + Hl.mixed) (n = 25) (male)	53.2 ± 8.3	203.9 ± 82.8	243.6 ± 112.5	37.7 ± 11.5	118 ± 77.7	48.6 ± 22.9	136.6 ± 27.5	101.8 ± 38.6	0.76 ± 0.26	182.6 ± 78.7
Range	37 - 69	117 - 544	76 - 470	23 - 82	55 - 455	15 - 94	85 - 210	54 - 228	0.4 – 1.3	120 - 449
Hg-(Nl +Hl.chol + Hl.TAG + Hl.mixed) (n =27)(female)	56.6 ± 11.5	192 ± 43.2	249.5 ± 122.2	40.7 ± 13.5	105.5 ± 32.6	49.2 ± 24.1	142.8 ± 25.3	97.0 ± 29.6	0.70 ± 0.22	195.6 ± 67.9
Range[c]	26 - 81	109 - 280	64 - 556	23 - 82	37 - 181	13 - 109	99 - 198	36 - 158	0.21 – 1.13	124 - 418
Diff.[d]	3.4	-11.9	5.9	3	-12.5	0.6	6.2	-4.8	-0.06	13
% Diff.[e]	**6**	**-6**	**2**	**8**	**-11**	**1**	**5**	**-5**	**-8**	**7**

Table A9: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Ng-(Hl.chol + Hl.TAG + Hl.mixed) female subjects are compared with the corresponding age-matched Ng-(Hl.chol + Hl.TAG + Hl.mixed) male subjects in the upper half of the table. The lower half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) females group with Hg-(Hl.chol + Hl.TAG + Hl.mixed) males group

[a]FBG :fasting blood glucose , [b]Mean ± SD, [c]Range, [d]Difference = female – male, [e]Perc. Diff. of means = [(female – male) / male] * 100 %.

AI-Lp subclass	Ng-(Nl+ Hl.chol + Hl.TAG +Hl.mixed) (n = 38) (male) (29 – 77)f	Ng- (Nl + Hl.chol + Hl.TAG + Hl.mixed) (n =30) (female) (25 – 83)	Mean Diff.[a]	% Diff.[b]	Hg- (Nl +Hl.chol + Hl.TAG + Hl.mixed) (n = 25) (male) (37 – 69)	Hg- (Nl + Hl.chol + Hl.TAG+ Hl.mixed) (n =27) (female) (26 – 81)	Mean Diff.[a]	% Diff.[b]
1	Not detected	Not detected			Not detected	8.6 (n = 1)	8.6	
2	8.7 ± 3.5[c,d] (n =2)[e]	10.7 ± 10.3 (n = 2)	2	23	5.5 ± 3.2 (n = 2)	Not detected	5.5	
3	8.4 ± 2.2 (n = 7)	5.4 ± 1.3 (n = 7)	- 3.3[h]	- 38[h]	4.9 ± 1.6 (n = 3)	7.9 ± 4.5 (n = 7)	3	61
4	25.0 ± 20.5 (n=15)	15.5 ± 13.4 (n = 13)	-9.5	-38	19.6 ± 10.9 (n = 12)	16.8 ± 12.2 (n = 11)	-2.8	-14
5	16.0 ± 6.2 (n = 10)	11.7 ± 4.9 (n = 9)	-4.3	-27	17.6 ± 9.7 (n = 5)	18.8 ± 7.5 (n = 5)	1.2	7
6	26.6 ± 13.2 (n =34)	30.8 ± 11.0 (n = 29)	4.2	16	27.3 ± 11.8 (n = 24)	31.6 ± 14.2 (n = 26)	4.3	16
7	22.0 ± 11.6 (n =28)	23.3 ± 8.3 (n = 25)	1.3	6	22.9 ± 9.3 (n = 21)	26.7 ± 10.3 (n = 21)	3.8	17
8	21.7 ± 10.0 (n =23)	24.9 ± 11.5 (n = 16)	3.2	15	24.2 ± 13.4 (n = 14)	24.4 ± 10.5 (n = 18)	0.2	0.8
9	24.8 ± 10.2 (n =21)	29.0 ± 10.5 (n = 16)	4.2	17	23.3 ± 5.6 (n = 13)	28.3 ± 8.0 (n = 8)	5	22
10	22.8 ± 9.2 (n = 26)	24.9 ± 8.5 (n = 22)	2.1	9	23.6 ± 9.9 (n = 17)	26.9 ± 13.8 (n = 19)	3.3	14
11	21.8 ± 6.4 (n = 13)	18.7 ± 4.7 (n = 11)	-3.1	-14	21.6 ± 6.5 (n = 9)	19.8 ± 8.7 (n = 10)	-1.8	-8
12	17.4 ± 6.3 (n = 28)	21.0 ± 11.5 (n = 24)	3.6	21	17.8 ± 9.1 (n = 20)	20.2 ± 8.3 (n = 20)	2.4	14
13	12.2 ± 5.7	12.1 ± 6.4	-0.1	0.8	9.6 ± 3.9	9.4 ± 4.1	-0.2	-2

Table A10: The apoA-I content of AI-Lp subclasses of Ng-(Hl.chol + Hl.TAG + Hl.mixed) female subjects are compared with the corresponding age-matched of Ng-(Hl.chol + Hl.TAG + Hl.mixed) male subjects in the left half of the table. The right half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) females group with Hg-(Hl.chol + Hl.TAG + Hl.mixed) males group

[a]Difference = female – male , [b]Percent difference of means = [female – male] / male * 100 %, [c]Mean ± SD, [d]values are in mg / dL. [e]Number of samples that contain this subclass., [f]age range, [h]$P<0.01$.

Subjects Ng-Hl.chol (n =17) (M+F)	Age (year)	Cholesterol (mg/dL)	TAGs(mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/apoAI	FB[a] (mg/dL)
	50.2 ± 15.8[b]	230.8 ± 27.8	135.0 ± 54.0	61.8 ± 19.3	142.3 ± 25.5	26.7 ± 10.7	169.3 ± 40.8	106.4 ± 20.0	0.66 ± 0.22	95.9 ± 17.6
Range[c Ng - Hl.TAG]	19 - 79	202 - 302	56 - 200	39 - 112	109 - 200	Nov-39	114 - 239	83 - 149	0.4 – 1.3	57 - 116
(n = 14)(M+F)	50.4 ± 12.3	176.0 ± 19.5	308.5 ± 107.2	33.7 ± 6.4	82.9 ± 28.4	59.8 ± 21.7	129.1 ± 18.1	94.9 ± 15.3	0.75 ± 0.14	101.9 ± 14.9
Range[c]	31 - 75	146 - 199	205 - 565	20 - 45	25 - 115	40 - 113	88 - 155	66 - 121	0.6 – 1.1	72 - 119
Diff.[d]	0.2	- 54.8[h]	173.5[h]	- 28.1[h]	- 59.4[h]	33.1 h	- 40.2[h]	- 11.5[g]	0.09	6
% Diff.[e]	< 1	- 24[h]	129[h]	- 46[h]	- 42[h]	124.0[h]	- 24[h]	- 11[g]	13	6
Ng-Hl.chol (n =17) (M+F)	50.2 ± 15.8[b]	230.8 ± 27.8	135.0 ± 54.0	61.8 ± 19.3	142.3 ± 25.5	26.7 ± 10.7	169.3 ± 40.8	106.4 ± 20.0	0.66 ± 0.22	95.9 ± 17.6
Range c	19 - 79	202 - 302	56 - 200	39 - 112	109 - 200	Nov-39	114 - 239	83 - 149	0.4 – 1.3	57 - 116

Ng- Hl.mixed (n = 20) (M+F)	45.8 ± 12.3	252.1 ± 43.6	342.1 ± 127.5	36.9 ± 5.6	148.0 ± 35.3	67.9 ± 25.7	141.0 ± 26.9	138.0 ± 35.3	0.99 ± 0.27	98.2 ± 12.1
Range [c]	29 - 83	201 - 369	202 - 679	23 – 43	85 - 212	40 - 136	88 - 208	79 - 240	0.7 – 1.9	78 - 118
Diff.[d]	-4.4	21.3	207.1[h]	- 24.9[h]	5.7	41.2[h]	- 28.3[f]	31.6[h]	0.33[h]	2.3
% Diff.[e]	-10	8	61[h]	- 68[h]	4	61[h]	- 20[f]	23[h]	33[h]	2

Table A11: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Ng-Hl.TAG subjects are compared with the corresponding age- matched Ng-Hl.chol subjects in the upper half of the table. The lower half of the table compares the Ng- Hl.mixed) group with Ng-Hl.chol group.
[a]FBG : fasting blood glucose, [b]Mean ± SD, [c]Range, [d]Difference = (Ng – H.TAG) – (Ng – H. chol), or, (Ng – Hl) - (Ng – H.chol), [e]Perc. Diff. of means ={[(Ng – H.TAG) – (Ng – H.chol)] / (Ng – H.chol)} * 100 % , [f]$P < 0.05$ [g]$P < 0.01$, [h]P < 0.001.

AI-Lp subclass	Ng-Hl.chol. (n = 17) (19 – 79)[f]	Ng - Hl.TAG (n = 14) (31 – 75)	Mean Diff.[a]	% Diff.[b]	Ng-Hl.chol. (n = 17) (19 – 79)	Ng-Hl.mixed (n = 20) (29 – 83)	Mean Diff.[a]	% Diff.[b]
1	Not detected	Not detected			Not detected	Not detected		
2	Not detected	3.5 (n = 1)	3.5		Not detected	10.8± 5.2[c,d(n = 4)e]	10.8	
3	5.9 ± 1.7[c,d] (n = 4)[e]	6.9 ± 2.9(n = 5)	1	17	5.9 ± 1.7 (n = 4)	6.7 ±3.2 (n = 6)	0.8	14
4	30.1 ± 29.1 (n = 7)	21.7 ± 12.7 (n =8)	-8.4	-28	30.1 ± 29.1 (n = 7)	18.0 ± 10.1 (n =11)	-12.1	-40
5	19.5 ± 6.7(n = 4)	14.2 ± 9.8 (n = 2)	-5.3	-27	19.5 ± 6.7 (n = 4)	16.6 ± 12.8 (n = 8)	-2.9	-15
6	37.2 ± 15.8 (n = 15)	26.9 ± 9.2 (n =12)	-10.3	-28	37.2 ± 15.8 (n = 15)	27.6 ± 14.9 (n = 20)	-9.6	-26
7	30.0 ± 6.3 (n = 13)	17.9 ± 4.5 (n =12)	- 12.1[h]	- 40[h]	30.0 ± 6.3 (n = 13)	18.7 ± 6.7 (n = 11)	- 11.3[g]	- 38[g]
8	32.7 ± 12.9 (n = 8)	14.9 ± 3.6 (n = 7)	- 17.8[h]	- 54[h]	32.7 ± 12.9 (n = 8)	20.1 ± 6.2 (n = 14)	- 12.6[h]	- 39[h]
9	31.1 ± 11.2 (n = 11)	19.1 ± 7.1 (n = 8)	- 12 [g]	- 39[g]	31.1 ± 11.2 (n = 11)	26.0 ± 11.1 (n = 10)	-5.1	-16
10	26.6 ± 7.8 (n = 11)	24.1 ± 8.5 (n =11)	-2.5	-9	26.6 ± 7.8 (n = 11)	23.1 ± 9.1 (n = 14)	-3.5	-13
11	19.3 ± 1.6 (n = 7)	19.4 ± 3.4 (n = 5)	0.1	1	19.3 ± 1.6 (n = 7)	20.3 ± (n = 9)	1	5
12	23.4 ± 10.6 (n = 12)	13.7 ± 5.8 (n =13)	- 9.7[h]	- 42[h]	23.4 ± 10.6 (n = 12)	19.5 ± 10.3 (n = 14)	-3.9	-17
13	14.4 ± 7.1	10.0 ± 3.5	- 4.4[g]	- 31[g]	14.4 ± 7.1	11.6 ± 4.5	-2.8	-19

Table A12: The apoA-I content of AI-Lp subclasses of Ng-Hl.TAG subjects are compared with the corresponding age-matched of Ng-Hl.chol subjects in the left half of the table. The right half of the table compares the Ng-Hl.mixed group with Ng-Hl.chol group
[a]Difference = (Ng – Hl.TAG) – (Ng – Hl.chol), or (Ng – Hl.mixed) – (Ng – Hl.chol)
[b]Percent difference of means = {[(Ng – Hl.TAG) – (Ng – Hl.chol)] / (Ng – Hl.chol)} * 100 %, [c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass, [f]age range , [g]$P < 0.05$, [h]$P<0.01$.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/ apoAI	FB[a] (mg/dL)
Ng – Hl.TAG (n = 14)(M+F) Range c	50.4 ± 12.3[b] 31 - 75	176 ± 19.5 146 - 199	308.5±107.2 205 - 565	33.7 ± 6.4	82.9 ± 28.4	59.8 ± 21.7	129.1 ± 18.1	94.9 ± 15.3	0.75 ± 0.14	101.9 ± 14.9
				20 - 45	25 - 115	40 - 113	88 - 155	66 - 121	0.6 – 1.1	72 - 119
Ng-Hl.mixed (n = 20) (M+F)	45.8 ± 12.3	252.1 ± 43.6	342.1 ± 127.5	36.9 ± 5.6	148.0 ± 35.3	67.9 ± 25.7	141.0 ± 26.9	138.0 ± 35.3	0.99 ± 0.27	98.2 ± 12.1
Range [c]	29 – 83	201 – 369	202 – 679	23 – 43	85 – 212	40 – 136	88 – 208	79 – 240	0.7 – 1.9	78 – 118
Diff. [d]	-4.6	76.1[h]	33.6	3.2	65.1[h]	8.1	11.9	43.1[h]	24[g]	-3.7
% Diff. [e]	-10	30[h]	10	9	44[h]	12	8	31[h]	23[g]	-4
Ng- (Hl.chol + Hl.TAG + Hl.mixed) (n = 43)(M+F)	45.5 ± 10.7	223.4 ± 43.4	264.6 ± 121.3	42.4 ± 16.4	128.6 ± 43.3	52.5 ± 24.3	143.9 ± 33.1	115.6 ± 30.8	0.83 ± 0.26	96.4 ± 13.9
Range [c]	19 - 64	146 - 347	75 - 571	20 - 112	25 - 212	15 - 114	88 - 239	66 - 240	0.38 – 1.85	57 - 118
Hg- (Hl.chol + Hl.TAG+ Hl.mixed)(n = 28)(M+F)	50.9 ± 9.4	230.4 ± 87.8	367.7 ± 282.5	36.6 ± 12.1	120.0 ± 76.0	73.2 ± 57.2	137.3 ± 24.2	110.6 ± 37.6	0.81 ± 0.23	217.2 ± 81.3
Range	26 - 69	135 - 544	181 - 1754	23 - 82	37 - 455	36 - 351	99 - 210	54 - 228	0.36 – 1.3	124 -449
Diff.	5.4	7	103.1[f]	-5.8	-8.6	20.7 f	-6.6	-5	-0.02	120.8[h]
% Diff.	12	3	39[f]	-14	-7	39[f]	-5	-4	-2	125[h]

Table A13: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of Ng-Hl.mixed subjects are compared with the corresponding age- matched Ng-Hl.TAG subjects in the upper half of the table. The lower half of the table compares the Hg-(Hl.chol + Hl.TAG + Hl.mixed) group with Ng-(Hl.chol + Hl.TAG + Hl.mixed) group.

[a]FBG : fasting blood glucose, [b]Mean ± SD .[c]Range, [d]Difference = (Ng – Hl) - (Ng – H.TAG), [e]Percent difference of means ={[(Ng – H.TAG) – (Ng – Hl)] / (Ng – Hl)} * 100 % [f]$P < 0.05$ [g]$P < 0.01$, [h]$P < 0.001$.

AI-Lp subclass	Ng - Hl.TAG (n = 14) (31 – 75)	Ng-Hl.mixed (n = 20) (29 – 83)f	Mean Diff.[a]	% Diff.[b]	Hg- (Hl.chol +Hl.TAG + Hl.mixed)(n = 28) (26 – 69) 8.6 (n = 1)	Ng - (Hl.chol + Hl.TAG + Hl.mixed)(n = 43) (19 – 64)	Mean Diff.[a]	% Diff.[b]
1	Not detected	Not detected				Not detected		
2	3.5 (n = 1)	10.8± 5.2[c, d] (n =4)[e]	7.3		4.5 ± 1.7 (n =2)	6.4 ± 2.9 (n = 5)	1.9	42
3	6.9 ± 2.9 (n = 5)	6.7 ±3.2 (n = 6)	-0.2	-3	5.4 ± 1.6 (n =7)	7.6 ± 2.7 (n =10)	2.2	41
4	21.7 ± 12.7 (n = 8)	18.0 ± 10.1 (n =11)	-3.7	-21	19.3 ± 13.3 (n =11)	22.8 ± 19.4 (n = 22)	3.5	18
5	14.2 ± 9.8 (n = 2)	16.6 ± 12.8 (n = 8)	2.4	15	14.2 ± 9.5 (n =7)	13.7 ± 6.6 (n = 9)	-0.5	-4
6	26.9 ± 9.2 (n =12)	27.6 ± 14.9 (n = 20)	0.7	3	30.0 ± 12.7 (n = 24)	29.4± 14.4 (n = 36)	-0.6	-2
7	17.9 ± 4.5 (n = 12)	18.7 ± 6.7 (n = 11)	0.8	4	24.6 ± 10.1 (n = 21)	22.1 ± 10.9 (n = 30)	-2.5	-10
8	14.9 ± 3.6 (n = 7)	20.1 ± 6.2 (n = 14)	5.2	26	23.4 ± 11.9 (n = 20)	23.0 ± 11.2 (n = 24)	-0.4	-2
9	19.1 ± 7.1 (n = 8)	26.0 ± 11.1 (n = 10)	6.9	27	24.8 ± 5.6 (n = 14)	23.6 ± 8.9 (n = 22)	-1.2	-5
10	24.1 ± 8.5 (n = 11)	23.1 ± 9.1 (n = 14)	-1	-4	23.8 ± 8.9 (n = 18)	24.6 ± 8.0 (n =31)	0.8	3

11	19.4 ± 3.4 (n = 5)	20.3 ± (n = 9)	0.9	4	18.2 ± 7.4 (n = 11)	20.3 ± 4.6 (n = 10)	2.1	12
12	13.7 ± 5.8 (n = 13)	19.5 ± 10.3 (n = 14)	5.8	30	15.8 ± 7.1 (n = 18)	17.4 ± 6.7 (n = 28)	1.6	10
13	10.0 ± 3.5	11.6 ± 4.5	1.6	14	8.2 ± 3.8	12.1 ± 5.7	3.9[h]	48[h]

Table A14: The apoA-I content of AI-Lp subclasses of Ng-Hl.mixed subjects are compared with the corresponding age-matched of Ng-Hl.TAG subjects in the left half of the table. The right half of the table compares the Ng-(Hl.chol + Hl.TAG + Hl.mixed) group with Hg-(Hl.chol + Hl.TAG + Hl.mixed) group. [a]Difference =(Ng – Hl.mixed) - (Ng – Hl.TAG) , [b]Percent difference of means = {[(Ng – Hl.mixed) - (Ng – Hl.TAG)] / (Ng – Hl.TAG)} * 100 %, [c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass, [f]age range , [h]$P < 0.01$.

Appendix B

AII-Lp Subclass	Normolipidemic (M + F) n = 57 (21 – 77)[f]	Hyperlipidemic (M + F) n = 51 (19 – 69)	Diff.[a]	% Diff.[b]	Normoglycemic (M + F) n = 72 (19 – 69)	Hyperglycemic (M + F) n = 36 (37 – 77)	Diff.[a]	% Diff.[b]
I	Not detected	3.1 ± 1.8 (n = 2)	3.1		3.1 ± 1.8 (n = 2)	Not detected		
II	1.6 ± 1 (n = 13)	1.9 ± 0.5 (n = 9)	0.3	19	1.7 ± 1.1 (n =12)	1.8 ± 0.5 (n = 10)	0.1	6
III	1.4 (1)	1.6 ± 0.6 (n = 5)	0.2	14	1.5 ± 0.7 (n = 4)	1.7 ± 0.6 (n = 2)	0.2	13
IV	21.5 ± 6.2 (n = 57)	21.4 ± 6.7 (n = 51)	-0.1	-1	21.8 ± 6.1 (n = 72)	20.8 ± 7.3 (n = 36)	-1	-5
V	19.5 ± 9.3 (n = 30)	15.3 ± 5.2 (n = 30)	- 4.2[g]	- 22[g]	19.2 ± 9 (n = 35)	14.9 ± 4.9 (n = 25)	- 4.3[g]	- 22[g]
VI	21.3 ± 8.5 (n = 47)	21.7 ± 6.2 (n = 41)	0.4	2	21.9 ± 7.9 (n = 58)	20.6 ± 6.9 (n = 30)	-1.3	-6
VII	8.1 ± 2.8 (n = 24)	12.3 ± 9.5 (n = 24)	4.2[g]	52[g]	10 ± 7.2 (n = 33)	10.7 ± 7.5 (n = 16)	0	0
VIII	5.6 ± 2.4 (n = 5)	3.5 ± 1.1 (n = 6)	-2.1	-38	4.7 ± 2 (n = 8)	3.8 ± 2.4 (n = 3)	-0.9	-19
IX	2.5 ± 0.3 (n = 3)	3.4 ± 1.8 (n = 7)	0.9	36	2.5 ± 0.6 (n = 7)	4.7 ± 2 (n = 3)	2.2[g]	88[g]
X	3.7 ± 1.9 (n = 4)	1.68 (n = 1)			5.2 ± 0.9 (n = 2)	2 ± 0.9 (n = 3)	- 3.2[g]	- 62[g]
XI	2.7 ± 0.3 (n = 8)	2.7 ± 1.5 (n = 3)	0	0	2.6 ± 0.9 (n = 8)	2.9 ± 0.2 (n = 3)	0.3	12
XII	2.5 ± 1.1 (n = 9)	2.6 ± 0.8 (n = 4)	0.1	4	2.8 ± 1.2 (n = 8)	2.2 ± 0.5 (n = 5)	-0.6	-21
XIII	3.1 ± 1.2 (n = 4)	3 ± 1.6 (n = 5)	-0.1	-3	3 ± 1.3 (n = 9)	Not detected		
XIV	3 ± 1.1 (n = 3)	3.4 ± 1.4 (n = 5)	0.4	13	2.9 ± 1.7 (n = 4)	3.7 ± 0.4 (n = 4)	0.8	28
XV	4.3 (n = 1)	2 (n = 1)			3.3 ±1.4 (n = 2)	Not detected		
XVI	4.4 (n = 1)	4.1 ± 1.4 (n = 2)			Not detected	4.2 ± 0.9 (n = 3)		
XVII	Not detected	1.9 (n = 1)	1.9		1.9 (n = 1)	Not detected		

Table B1: The apoA-II content of AII-Lp subclasses of all hyperlipidemic subjects are compared with the corresponding age-matched controls of normolipidemic subjects in the left half of the table. The right half of the table compares the Hyperglycemic subjects with the normoglycemic subjects.
[a]Difference = Hl, or Hg – Nl, or Ng, [b]Percent difference of means = {[(Hl, or Hg) – (Nl, or Ng)] / Nl, or Ng} * 100 %
[c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass.
[f]age range , [g]$P < 0.05$.

AII-Lp Subclass	Ng-Nl (n =44)(M+F) (21 – 77)f	Ng-(Hl.chol +Hl.TAG) (n= 23) (M+F)	Diff.[a]	% Diff.b	Ng-Nl (n=26) (M+F) (33 -77)	Hg-Nl (n = 13)(M+F) (41 – 77)	Diff[a]	% Diff.
I	Not detected	1.83 (n=1)			Not detected	Not detected		
II	1.6 ± 1.1[c,d] (n=10)[e]	2.01 (n=2)	0.4	25	1.9 ± 1.5 (n =5)	1.7 ± 0.7 (n = 4)	-0.2	-11
III	Not detected	1.8 (n=2)			Not detected	Not detected		
IV	21.5 ± 6.0 (n = 44)	21.4 ± 6.7 (n=23)	-0.1	-1	22.5 ± 6.1	21.6 ± 7.1 (n=13)	-0.9	-4
V	19.7 ± 10.4 (n = 23)	15.8 ± 6.4 (n=12)	-3.9	-20	19.6 ± 7.4 (n=13)	17.2 ± 6.7 (n=8)	-2.4	-12
VI	21.8 ± 8.7 (n = 36)	21.6 ± 6.0 (n =19)	-0.2	-1	21.5 ± 8.1 (n=21)	19.5 ± (n=11)	-2	-9
VII	8.2 ± 3.0 (n = 19)	13.9 ± 10.4 (n=12)	5.7[g]	70[g]	7.2 ± 2.0 (n=10)	8.7 ± 3.0 (n = 6)	1.5	21
VIII	5.4 (n = 4)	4.3 (n = 3)	-1.1	-20	5.4 (n=4)	6.6 (n=1)		
IX	2.5 (n = 3)	2.2 (n = 3)	-0.3	-12	2.5 (n=3)	Not detected		
X	5.2 (n = 2)	Not detected			5.9 (n=1)	2.2 (n=2)		
XII	2.6 (n = 5)	4.2 (n = 1)			2.4 (n=3)	2.9 (n=3)	0.5	21
XII	2.7 ± 1.2 (n = 7)	3.3 (n = 2)	0.6	22	2.5 (n=4)	2.01 (n=2)	-0.5	-20
XIII	3.1 (n = 4)	3.3 (n = 4)	0.2	7	2.2 (n=2)	Not detected		
XIV	1.8 (n = 1)	4.7 (n = 2)	2.9	161	Not detected	3.5 (n=2)		
XV	4.3 (n = 1)	Not detected			Not detected	Not detected		
XVI	Not detected	Not deyected			Not detected	4.4 (n=1)		
XVII	Not detected	1.9 (n = 1)			Not detected	Not detected		

Table B2: The apoA-II content of AII-Lp subclasses of Ng-(Hl.chol + Hl.TAG) subjects are compared with the corresponding age-matched controls of Ng-Nl subjects in the left half of the table. The right half of the table compares the Hg-Nl subjects with the Ng-Nl subjects.
[a]Difference = [Ng – (Hl.chol + Hl.TAG)], or, [Hg – Nl] – (Ng- Nl) ,[b]Percent difference of means, [c]Mean ± SD, [d]values are in mg / dL, [e]Number of samples that contain this subclass. [f]age range ,[g]$P < 0.05$.

AII-Lp Subclass	Ng- (Nl+Hl.mixed) (female) n=23 (28 – 70)f	Hg-(Nl+Hl) (male) n=17 (37 – 69)	Diff.[a]	% Diff.b	Ng-(Nl+Hl.mixed) (male) n=26 (29 – 77) 4.3(n = 1)	Hg-(Nl+Hl.mixed) (male) n=17 (37 – 69) 1.83 (n = 1)	Diff.[a]	% Diff
I	Not detected	1.83 (n = 1)						
II	2.4 (n =3)	1.6 (n = 4)	-0.8	-33	1.5 ± 0.6 (n = 5)	1.6 (n = 4)	0.1	7
III	0.84 (n = 1)	1.26 (n = 1)			1.26 (n = 1)	1.26 (n = 1)		
IV	22.7 ± 6.0[c,d (n = 23)e]	21.7 ± 8.4 (n =17)	-1	-4	22.1 ± 6.3 (n = 26)	21.7 ± 8.4 (n = 17)	-0.4	-2
V	20.9 ± 7.0 (n = 9)	12.3 ± 2.3 (n = 7)	-7.2[h]	- 34[h]	18.0 ± 6.8 (n = 13)	12.3 ± 2.3 (n = 7)	-5.7[g]	- 32[g]
VI	20.9 ± 5.4 (n = 18)	20.6 ± 8.1 (n = 15)	-0.3	-1	22.6 ± 8.2 (n = 21)	20.6 ± 8.1 (n = 15)	-2	-9
VII	13.4 ± 10.7 (n = 11)	11.8 ± 11.9 (n = 6)	-1.6	-12	7.6 ± 3.9 (n = 12)	11.8 ± 11.9 (n = 6)	4.2	55
VIII	3.3 (n = 4)	Not detected			6.1 (n = 4)	Not detected		
IX	1.54 (n = 1)	3.5 (n = 1)			2.7 ± 0.5 (n = 6)	3.5 (n = 1)		

X	5.85 (n = 1)	2.4 (n = 2)			Not detected	2.4 (n = 2)		
XII	1.8 (n = 2)	2.8 (n = 2)	1	56	3.03 ± (n=3)	2.8 (n = 3)	-0.18	-6
XII	3.3 (n = 3)	2.01(n = 3)	-1.29[g]	- 39[g]	2.4 ± (n=3)	2.01 ± (n = 3)		
XIII	2.8 ± 1.7 (n = 5)	2.4 (n = 1)			Not detected	2.4 (n = 1)		
XIV	3.2 (n = 3)	3.5 (n = 2)	0.3	9	Not detected	3.5 (n = 2)		
XV	Not detected	Not detected			2.3 (n = 1)	Not detected		
XVI	Not detected	Not detected			Not detected	Not detected		
XVII	Not detected	Not detected			1.9 (n = 1)	Not detected		

Table B3: The apoA-II content of AII-Lp subclasses of Hg-(Nl + Hl.mixed) male subjects are compared with the corresponding age- matched of Ng-(Nl + Hl.mixed) female subjects in the left half of the table. The right half of the table compares the Hg-(Nl + Hl.mixed) male subjects with the Ng-(Nl + Hl.mixed) male subjects

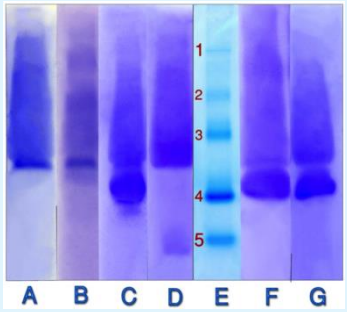
[a]Difference = male – female or, male ,[b]Percent difference of means = {(male – female) / female } * 100 %,[c]Mean ± SD, [d]values are in mg/dL· [e]Number of samples that contain this subclass. [f]age range , [g]$P < 0.05$., [h]$P < 0.01$.

AII-Lp Subclass	Ng-(Nl+Hl.mixed) (female) N=23 (28 – 70)	Hg-(Nl+Hl.mixed) (female) n= 22 (39 – 66)	Diff[a]	% Diff[b]
I	Not detected	Not detected		
II	2.4 (n = 3)	2.1 ± 0.3(n = 5)	-0.3	-13
III	0.84 (n = 1)	2.07 (n = 1)		
IV	22.7 ±6.0[c,d] (n = 23)[e]	20.4 ± 6.5 (n =22)	-2.2	-10
V	20.9 ± 7.0 (n = 9)	15.9 ± 5.3 (n = 19)	-5[g]	- 24[g]
VI	20.9 ± 5.4 (n =18)	21.1 ± 6.8 (n = 17)	0.2	1
VII	13.4 ± 10.7(n =11)	10.2 ± 3.5 (n = 10)	-3.2	-24
VIII	3.3 (n = 4)	3.8 (n = 3)	0.5	15
IX	1.54 (n = 1)	5.2 (n = 2)		
X	5.85 (n = 1)	1.4 (n = 1)		
XII	1.8 (n = 2)	2.8 (n = 1)		
XII	3.3 (n = 3)	2.4 (n = 2)	-0.9	-27
XIII	2.8 ± 1.7 (n = 5)	Not detected		
XIV	3.2 (n = 3)	3.8 (n = 2)	0.6	19
XV	Not detected	Not detected		
XVI	Not detected	4.2 (n = 3)		

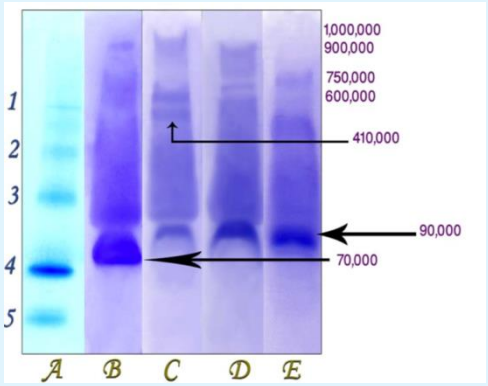
Table B4: The apoA-II content of AII-Lp subclasses of Hg-(Nl + Hl.mixed) female subjects are compared with the corresponding age-matched of Ng-(Nl + Hl.mixed) female subjects. In the left half of the table.

[a]Difference = female (Hg) – female (Ng), [b]Percent difference of means, [c]Mean ± SD, [d]values are in mg / dL· [e]Number of samples that contain this subclass. [f]age range [g]$P < 0.05$.

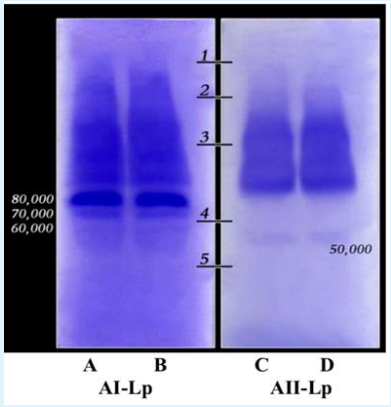
Supplementary Figures



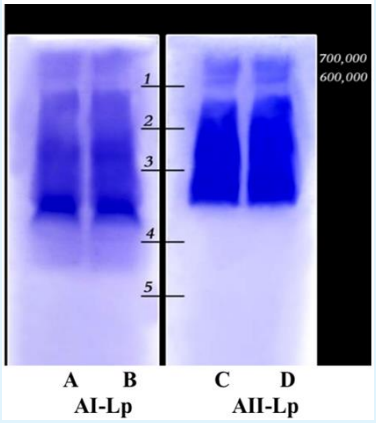
Supplementary figure s1 Related to Figure 1: Distribution of AI-Lp subclasses in several hyperlipidemic subjects. The plasma was run in 4-25% gPAGE, followed by immunoblotting against anti-apoA-I. Lanes **A** & **B:** normolipidemic subjects. Lanes **C** & **D** Hyperglycemic-Hyperlipidemic subjects. Lane **F:** Normoglycemic-Hypercholesterolemic subject. Lane **G:** Normoglycemic- Hypertriacylglycerols subject. **Lane E:** molecular mass standared. The numbers 1-5 represent: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).



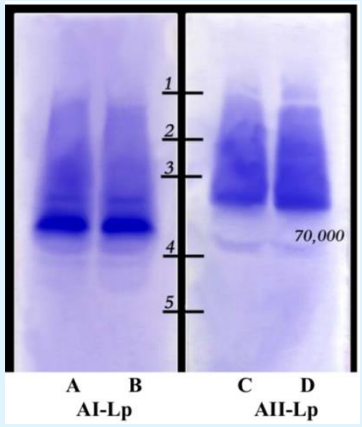
Supplementary Figure S2: Distribution of AI-Lp subclasses in samples from hyperlipidemic subjects. The plasma was run in 4-25% gPAGE, followed by immunoblotting adainst anti-apoA-I. Lane **B:** notmoglycemic**-** hyperlipidemic (sever) subject. Lane **C:** normoglycemic- hyperlipidemic (moderate) subject. Lane **D:** hyperglycemic-hypertriacylglycerols. Lane **E:** hyperglycemic –normolipidemic subject. **Lane A:** molecular massstandards.Thenumbers1-5represent: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).



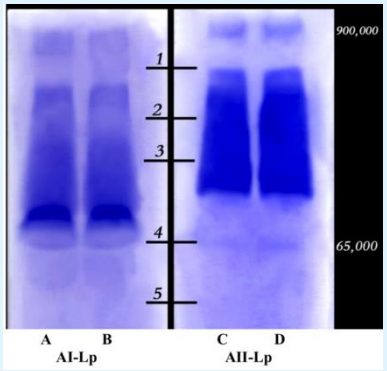
Supplementary Figure 3: Distribution of AI-Lp and AII-Lp subclasses in a subject with normoglycemica and mixed hyperlipidemia (Ng-Hl.mixed). the plasma was run in 4-25% gPAGE, followed by immunoblotting as follow: **Lanes A & B**: the plasma was immunoblotted against anti-apoA-I. **Lanes C & D**: the plasma was immunoblotted against anti-apoA-II. The smallest AII-Lp subclass I of relative molecular mass of 50,000 is appeared without corresponding LpA-I. **The numbers 1-5** represent molecular mass standard: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).



Supplementary Figure 4: Distribution of AI-Lp and AII-Lp subclasses in a subject with normoglycemia-normplipidemia (Ng-Nl). The plasma was run in 4-25% gPAGE, followed by immunoblotting as follow: **Lanes A & B**: the plasma was immunoblotted against anti- apoA-I. **Lanes C & D**: the plasma was immunoblotted against anti-apoA-II. **The numbers 1-5** represent molecular mass standard: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).



Supplementary Figure s5: Distribution of AI-Lp and AII-Lp subclasses in a subject with severe hyperglycemia and moderate mixed hyperlipedemia. The plasma was run in 4-25% gPAGE followed by immunoblotting as follows: **Lanes A & B**: the plasma was immunoblotted against anti-apoA-I. **Lanes C & D**: the plasma was immunoblotted against anti-apoA-II. Lp(AI+AII) of relative molecular mass of 70,000 is appeared. **The numbers 1-5** represent molecular mass standard: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).



Supplementary Figure s6: Distribution of AI-Lp and AII-Lp subclasses in a 65 years old male with normoglycemia and slightly elevated TAGs. The plasma was run in 4-25% gPAGE, followed by immunoblotting as follows: **Lanes A & B**: the plasma was immunoblotted against anti-apoA-I. **Lanes C & D**: the plasma was immunoblotted against anti-apoA-II. As shown in the figure, the AII-Lp subclass XVII of highest molecular mass of 900,000 with its corresponding AI-Lp. **The numbers 1-5** represent molecular mass standard: 1 = urease hexamer (545,000), 2 = urease trimer (272,000), 3 = bovine serum albumin (BSA) dimer (133,000), 4 = BSA monomer (66,500), 5 = ova albumin (45,000).

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/apoAI ratio	FB[a] (mg/dL)
All normolipidemic (M + F) n = 56	47.0 ± 17.7[b]	151.4 ± 25.2	112.1 ± 40.7	41.7 – 11.1	88.7 ± 23.4	21.8 - ± 7.8	131.1 ± 22.6	68.8 ± 17	0.55 ± 0.18	118.2 ± 52
Range[c]	21- 77	92 - 198	46 - 199	23 - 70	42 – 134	Sep-39	85 - 184	32 - 98	0.21 – 1.01	74 - 334
All hyperlipidemic (M + F) n = 85	50.5 ± 12.6	223.4 ± 62	298.9 ± 200	41.8 ± 15.6	122.8 ± 55.1	59.4 ± 40.1	144.6 ± 31.4	112.5 ± 32.8	0.8 ± 0.25	139.4 ± 72.9
Range[c]	19 - 83	135 - 544	56 - 1754	20- 112	25 – 455	11 - 351	88 - 239	54 - 240	0.37 – 1.9	57 - 449
Diff.[d]	3.5	72[g]	186.8[g]	0.1	34.1[g]	37.6[g]	13.5[f]	43.7[g]	0.25[g]	21.2
% Diff.[e]	**7**	**48[g]**	**167[g]**	**< 1**	**38[g]**	**172[g]**	**10[f]**	**64[g]**	**45[g]**	**18**

Table 7a: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of all hyperlipidemic subjects are compared with the corresponding age-matched controls of normolipidemic.
FBG: fasting blood glucose, Mean ± SD, Range, Difference = Hl – Nl.
Percent difference of means = [(Hl – Nl) / Nl] * 100 % [f]P < 0.01 [g]P < 0.001

AI-Lp subclass	Normolipidemic n = 56 (21- 77)[f]	Hyperlipidemic n = 85 (19 – 83)	Mean Diff.[a]	% Diff.[b]
1	Not detected	8.6 (n = 1)	8.6	
2	Not detected	7.9 ± (n = 7)	7.9	
3	6.1 ± 1.4[c,d] (n = 9)[e]	6.9 ± 3.4 (n = 21)	0.8	13
4	10.4 ± 5.5 (n = 15)	20.6 ± 16.5 (n= 49)	**10.2[g]**	**98[g]**
5	16 ± 6.2 (n = 16)	16.7 ± 9.9 (n = 21)	0.7	4
6	26.2 ± 9 (n = 55)	29.2 ± 13.7 (n= 80)	3	11
7	22.6 ± 9.3 (n = 50)	22.8 ± 9.8 (n = 64)	0.2	1
8	23.4 ± 7.7 (n = 29)	23.4 ± 11.1 (n= 55)	0	0
9	26.7 ± 8.8 (n = 24)	25.8 ± 9.2 (n = 47)	-0.9	-3
10	25.1 ± 13.1 (n = 38)	24 ± 8.3 (n = 58)	-1.1	-4
11	21.8 ± 11.6 (n = 13)	20 ± 6.2 (n = 37)	-1.8	-8
12	20.4 ± 7.4 (n = 48)	18.4 ± 9.4 (n = 62)	-2	10
13	10.9 ± 5.7	10.6 ± 5.4	-0.2	-2

Table 7b: The apoA-I content of AI-Lp subclasses of all hyperlipidemic subjects are compared with the corresponding age-matched controls of normolipidemic subjects.
Difference = Hl – Nl
Percent difference of means = [(Hl – Nl) / Nl] * 100 %
Mean ± SD, values are in mg / dL
Number of samples that contain this subclass.
age range [g]P < 0.05.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL)	apoB/ apoAI	FB[a] (mg/dL)
All normoglycemic (M + F) n = 92	48.2 ± 13.8[b]	190.3 ± 53.2	195.5 ± 130.4	42.7 ± 14.5	108.8 ± 40	38.6 ± 26.1	137.6 ± 30.2	93.4 ± 35.3	0.69 ± 0.27	95.4 ± 13.9
Range[c]	27 - 83	92 - 369	46 - 679	20- 112	25 – 212	9 - 136	85 - 239	32 - 240	0.22 – 1.9	57 - 120
All hyperglycemic (M + F) n = 49	52.8 ± 9.5	203.4 ± 75	279.5 ± 243.9	39.9 ± 12.7	110 ±60.9	55.5 ± 48.9	142.3 ± 26.4	98.6 ± 34.4	0.71 ± 0.24	197.8 ± 73.3
Range	26 - 77	109 - 544	64-1754	23 - 82	37 – 455	13 - 351	99 - 210	36 - 228	0.21 – 1.3	121- 449
Diff.[d]	4.6	13.1	85[g]	-2.8	1.2	16.9[g]	4.7	5.2	0.02	102.4[h]
% Diff.[e]	10	7	43[g]	-7	1	44[g]	3	6	3	10[h]

Tables 8a: Total plasma apoA-I, apoB, apoB/apoA-I ratio, and lipid profile of all hyperglycemic subjects are compared with the corresponding age-matched controls of normoglycemic.
FBG: fasting blood glucose, Mean ± SD, values are in mg/dL Range, Difference = Hg – Ng
Percent difference of means = [Hg - Ng) / Ng] * 100 % g P < 0.01 h P < 0.001

AI-Lp subclass	Normoglycemic n = 92	Hyperglycemic n = 49	Mean Diff.[a]	% Diff.[b]
1	Not detected	8.6 (n = 1)	8.6	
2	9.3 ± 5.6[c,d] (n = 5)[e]	4.5 ± 1.7 (n = 2)	-4.8	-52
3	6.6 ± 2.2 (n = 20)	6.7 ± 4.1 (n = 10)	0.1	2
4	17.2 ± 16 (n = 40)	19.8 ± 14 (n = 24)	2.6	15
5	16.1 ± 8.5 (n = 26)	17 ± 8.6 (n = 11)	0.9	6
6	27.1 ± 11.4 (n =88)	29.8 ± 13.1 (n=47)	2.7	10
7	21.4 ± 9.1 (n = 74)	25.4 ± 9.9 (n = 39)	**4[f]**	**19[f]**
8	22.8 ± 9.6 (n = 51)	24.4 ± 10.7 (n=33)	1.6	7
9	26.6 ± 9.8 (n = 52)	24.8 ± 6.2 (n = 19)	-1.8	-7
10	23.9 ± 9.1 (n = 64)	25.5 ± 12.8 (n=32)	1.6	7
11	20.8 ± 8.1 (n = 30)	20 ± 7.6 (n = 20)	-0.8	-4
12	19.5 ± 8.7 (n = 74)	18.9 ± 8.6 (n = 36)	-0.6	-3
13	10.9 ± 5.9	10 ± 4.8	-0.9	-8

Table 8b: The apoA-I content of AI-Lp subclasses of all hyperglycemic subjects are compared with the corresponding age-matched controls of normoglycemic subjects.
Difference = Hg – Ng
Percent difference of means = {[(Hg –Ng) / Ng] * 100 %
Mean ± SD, values are in mg / dL
Number of samples that contain this subclass. [f]P < 0.05.

Subjects	Age (year)	Cholesterol (mg/dL)	TAGs (mg/dL)	HDL-C (mg/dL)	LDL-C (mg/dL)	VLDL-C (mg/dL)	apoA-I (mg/dL)	apoB (mg/dL	apoB/ apoAI	FB[a] (mg/dL)
Ng-Nl (n =42)	40.1 ± 16.7 [b]	149.5 ± 25.4	109.2 ± 43.5		86.2 ± 21.9	21.2 ± 8.3		67 ± 16.9	0.54 ± 0.2	
Ng-Hl mixed (n = 20)	45.8 ± 12.3	252.1 ± 43.6	342.1 ± 127.5		148 ± 35.3	67.9 ± 25.7		138 ± 35.3	0.99 ± 0.27	
% Diff.[c]	14	69[g]	213[g]		72[g]	220[g]		106[g]	83[g]	
Ng-Nl (n =35)	45.9 ± 16.4	151.6 ± 25.8		43.4 ± 11.3	85.7 ± 22.2		131.5 ± 22.6	66.5 ± 17	0.52 ± 0.2	
(M+F)Ng Hl.chol (n =17) (M+F)	50.2 ± 15.8	230.8 ± 27.8		61.8 ± 19.3	142.3 ± 25.5		169.3 ± 40.8	106.4 ± 20	0.66 ± 0.22	
% Diff. [c]	9	52[g]		42[g]	66[g]		29[g]	60[g]	27[e]	
Ng - Nl (n = 32) (M+F)	47.8 ± 15.8[b]	154.0 ± 24.5	118.8 ± 42.7	43.5 ± 11.2		23.0 ± 8.1		67.7 ± 15.6	0.53 ± 0.16	
Ng - Hl.TAG (n = 14) (M+F)	50.4 ± 12.3	176 ± 19.5	308.5 ± 107.2	33.7 ± 6.4		59.8 ± 21.7		94.9 ± 15.3	0.75 ± 0.14	
% Diff.	5.4	14[e]	160[g]	- 23[e]		160[g]		40[g]	42[g]	
Ng-Nl (n =42)	40.1 ± 16.7	149.5 ± 25.4	109.2 ± 43.5		86.2 ± 21.9	21.2 ± 8.3	128.7 ± 22.2	67 ±16.9	0.54 ± 0.2	
Ng - (Hl.cho+ Hl.TAG+Hl.mixed)(n= 43)	45.5 ± 10.7	223.4 ± 43.4	264.6 ± 121.3		128.6 ± 43.3	52.5 ± 24.3	143.9 ± 33.1	115.6 ± 30.8	0.83 ± 0.26	
% Diff.[c]	14	49[g]	142[g]		49[g]	148[g]	12[f]	73[g]	54[g]	
Ng-Nl (n=26)	55.3 ± 11.9 [b]									96.8 ± 13.9
Hg-Nl (n = 13)	60.8 ± 10.7									198.3 ± 50.5
% Diff.[c]	10									105[g]
Ng – Nl (n = 33)	46.3 ± 17	148.2 ± 26.1	111.8 ± 43.2	44.0 ± 11.4	82.1 ± 21.9	21.6 ± 8.2		64.3 ± 16.8	0.52 ± 0.19	90.6 ± 13.1
Hg-(Hl.cho+ Hl.TAG+Hl. mixed) (n=28)	50.9 ± 9.4	230.4 ± 87.8	367.7 ± 282.5	36.6 ± 12.1	120.0 ± 76	73.2 ± 57.2		110.6 ± 37.6	0.81 ± 0.23	217.2 ± 81.3
% Diff.	10	56[g]	229[g]	- 17[f]	46[f]	239[g]		72[g]	56[g]	140[g]
Ng-(Nl+ Hl.chol + Hl.TAG +Hl)(n=38) (male)	48.0 ± 13.8 [b]									96.3 ± 12.7
Hg- (Nl +Hl.chol+Hl.T AG +Hl) (n = 25) (male)	53.2 ± 8.3									182.6 ± 78.7
% Diff.[c]	11									90 [g]
Ng- (Nl + Hl.chol +Hl.TAG + Hl) (n =30) (female)	51.3 ± 13.5									94.6 ± 13.9
Hg- (Nl +Hl.chol +Hl.TAG+ Hl)(n =27) (female)	56.6 ± 11.5									195.6 ± 67.9
% Diff. [c]	10									107[g]
Ng-(Nl+ Hl.chol + Hl.TAG+Hl.mixed) (n=38) (male)	48.0 ± 13.8 [b]									
Ng-(Nl+Hl.chol + Hl.TAG+ Hl.mixed) (n =30) (female)	51.3 ± 13.5									
% Diff.[c]	7									
Hg-(Nl+Hl.chol + Hl.TAG + Hl.mixed) (n = 25) (male)	53.2 ± 8.3									

Hg-(Nl +Hl.chol +Hl.TAG + Hl.mixed) (n =27) (female)	56.6 ± 11.5									
% Diff.[c]	6									
Ng Hl.chol (n =17)	50.2 ± 15.8 [b]	230.8 ± 27.8	135.0 ± 54	61.8 ± 19.3	142.3 ± 25.5	26.7 ± 10.7	169.3 ± 40.8	106.4 ± 20		
Ng - Hl.TAG (n = 14)	50.4 ± 12.3	176.0 ± 19.5	308.5 ± 107.2	33.7 ± 6.4	82.9 ± 28.4	59.8 ± 21.7	129.1 ± 18.1	94.9 ± 15.3		
% Diff.[c]	< 1	- 24[g]	129[g]	- 46[g]	- 42[g]	124.0[g]	- 24[g]	- 11[e]		
Ng Hl.chol (n =17)	50.2 ± 15.8 [b]		135.0 ± 54	61.8 ± 19.3		26.7 ± 10.7	169.3 ±40.8	106.4 ±20	0.66 ± 0.22	
NgHl.mixed (n = 20)	45.8 ± 12.3		342.1 ± 127.5	36.9 ± 5.6		67.9 ± 25.7	141.0 ± 26.9	138.0 ± 35.3	0.99 ± 0.27	
% Diff.[c]	-10		61[g]	- 68[g]		61[g]	- 20[f]	23[g]	33[g]	
Ng – Hl.TAG (n = 14)	50.4 ± 12.3 [b]	176 ± 19.5			82.9 ± 28.4			94.9 ± 15.3	0.75 ± 0.14	
NgHl.mixed (n = 20)	45.8 ± 12.3	252.1 ± 43.6			148.0 ± 35.3			138.0 ±35.3	0.99 ± 0.27	
% Diff.[c]	-10	30[g]			44[g]			31[g]	23[e]	

Table 9a: The apoA-I, apoB, apoB/apoA ratio, and lipid profile, of the groups subjects which are compared with the corresponding age-matched group. The components that are differ significantly are shown below in this table, the detailed information of the compared groups are present in appendix A (Tables A 1,3,5,7,9,11,13).

FBG = Fasting Blood Glucose, mean ± SD c percent difference of the mean = [(next group – first group) / first group] * 100% [e]P < 0.05, [f]P < 0.01, [g]P < 0.001.

AI-Lp subclasses											
Subjects	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**12**	**13**
Ng-Nl (n = 42)	N.D[a]	N.D	6.8 ± 0.9 [b] (n = 8)[c]	7.7 ± 1.9 (n = 10)							9.4 ± 4.6
Ng-Hl.mixed (n = 20)	N.D	10.8± 5.2 (n = 4)	6.7 ±3.2 (n = 6)	18.0 ± 10.1 (n = 11)							11.6 ± 4.5
% Diff.[d]			**-2**	**134[f]**							**40[e]**
Ng-Nl (n = 35)	N.D	N.D	6.8 ± 0.7 (n = 7)	9.2 ± 2.9 (n = 9)	25.9 ± 9.1 (n = 34)	20.1 ± 7.4 (n = 29)	23.4 ± 8.5 (n =18)				10.3 ± 6.1
Ng-Hl.chol. (n = 17)	N.D	N.D	5.9 ± 1.7 (n = 4)	30.1 ± 29.1 (n = 7)	37.2 ± 15.8 (n = 15)	30.0 ± 6.3 (n = 13)	32.7 ± 12.9 (n = 8				14.4 ± 7.1
% Diff.[d]			**-13**	**238[e]**	**44[f]**	**49[f]**	**40[e]**				**40[e]**
Ng - Nl (n = 32)	N.D	N.D	6.8 ± 0.9 (n = 7)	9.2 ± 3.1 (n = 8)				22.9 ±8.8(n =16)	26.3 ±8 (n =19)	20.7 ±7.6(n =26)	
Ng - Hl.TAG (n = 14)	N.D	3.5 (n = 1)	6.9 ± 2.9 (n = 5)	21.7 ± 12.7 (n = 8)				14.9 ± 3.6 (n = 7)	19.1 ± 7.1 (n = 8)	13.7 ± 5.8 (n=13)	
% Diff.[d]			**1.5**	**136[e]**				**-35[e]**	**-27[e]**	**-34[f]**	
Ng - Nl (n = 42)	N.D	N.D	6.8 ± 0.9 (n = 8)	7.7 ± 1.9 (n =10)		24.6 ± 8.4 (n = 41)				20.9 ± 7.7 (n = 35)	9.4 ± 4.6

Ng -(Hl.chol+ Hl.TAG+Hl) (n = 43)	N.D	6.4 ± 2.9 (n = 5)	7.6 ± 2.7 (n =10)	22.8 ± 19.4 (n = 22)		29.4± 14.4 (n = 36)				17.4 ± 6.7 (n = 28)	12.1 ± 5.7
% Diff.[d]			**12**	**196[e]**		**20[e]**				**-17[e]**	**29[f]**
Ng-Nl (n = 26)	N.D	N.D	6.8 ± 0.95 (n = 6)	11.5 ± 6.1 (n = 7)			21.6 ± 8.1 (n =22)				9.4 ± 4.4
Hg-Nl (n = 13)	N.D	N.D	4.16 (n = 1)	11.7 ± 6.4 (n = 4)			28.3 ± 10.1 (n =12)				12.1 ± 4.8
% Diff.[d]			**-39**	**2**			**31[e]**				**29[e]**
Ng-Nl (n = 33)	N.D	N.D	7.0 ± 1.2 (n = 3)	8.7 ± 3.7 (n = 9)		24.1 ± 7.8 (n = 30)	19.4 ± 7.1 (n =30)			21.2 ± 7.5 (n = 25)	10.5 ± 6.1
Hg- (Hl.chol+ Hl.TAG+Hl) (n = 28)	8.6 (n = 1)	4.5 ± 1.7 (n = 2)	5.4 ± 1.6 (n = 7)	19.3 ± 13.3 (n = 11)		30.0 ± 12.7 (n = 24)	24.6 ± 10.1 (n=21)			15.8 ± 7.1 (n = 18)	8.2 ± 3.8
% Diff.[d]			**-23**	**122[e]**		**25[e]**	**27[e]**			**- 26[e]**	**- 22[e]**
Ng-(Nl+ Hl.chol + Hl.TAG+Hl.mixed) (n=38)(male)	N.D	8.7 ± 3.5 (n=2)	8.4 ± 2.2 (n = 7)	25.0 ± 20.5 (n=15)							12.2 ± 5.7
Hg- (Nl +Hl.chol + Hl.TAG+Hl.mixed) (n=25)(male)	N.D	5.5 ± 3.2 (n = 2)	4.9 ± 1.6 (n = 3)	19.6 ± 10.9 (n=12)							9.6 ± 3.9
% Diff.[d]		**-37**	**- 42[e]**	**- 22**							**- 21[e]**
Ng- (Nl + Hl.chol + Hl.TAG+Hl.mixed) (n=30)(female)	N.D	10.7 ± 10.3 (n = 2)	5.4 ± 1.3 (n = 7)	15.5 ± 13.4 (n=13)	11.7 ± 4.9 (n = 9)						12.1 ± 6.4
Hg- (Nl + Hl.chol + Hl.TAG+Hl.mixed) (n =27) (female)	8.6 (n = 1)	N.D	7.9 ± 4.5 (n = 7)	16.8 ± 12.2 (n=11)	18.8 ± 7.5 (n = 5)						9.4 ± 4.1
% Diff.[d]			**46**	**8**	**61[e]**						**- 22[e]**
Ng-(Nl+ Hl.chol + Hl.TAG+Hl.mixed) (n = 38) (male)	N.D	8.7 ± 3.5 (n = 2)	8.4 ± 2.2 (n = 7)	25.0 ± 20.5 (n =15)							
Ng- (Nl + Hl.chol + Hl.TAG+Hl.mixed) (n =30) (female)	N.D	10.7 ± 10.3 (n = 2)	5.4 ± 1.3 (n = 7)	15.5 ± 13.4 (n =13)							
% Diff.[d]		**23**	**- 38[f]**	**- 38**							
Hg- (Nl +Hl.chol + Hl.TAG+Hl.mixed) (n = 25) (male)	N.D	5.5 ± 3.2 (n = 2)	4.9 ± 1.6 (n = 3)	19.6 ± 10.9 (n =12)							
Hg- (Nl + Hl.chol +	8.6 (n = 1)	N.D	7.9 ± 4.5 (n = 7)	16.8 ± 12.2 (n =11)							

Hl.TAG+Hl.mixed) (n =27) (female)											
% Diff.[d]			**61**	**-14**							
Ng-Hl.chol. (n = 17)	N.D	N.D	5.9 ± 1.7 (n = 4)	30.1 ± 29.1 (n = 7)			30.0 ± 6.3 (n =13)	32.7± 12.9 (n = 8)	31.1± 11.2 (n =11)	23.4 ± 10.6(n =12)	14.4 ±7.1
Ng - Hl.TAG (n = 14)	N.D	3.5 (n =1)	6.9 ± 2.9 (n = 5)	21.7 ± 12.7 (n = 8)			17.9 ± 4.5 (n =12)	14.9 ± 3.6 (n =7)	19.1 ± 7.1 (n = 8)	13.7 ± 5.8 (n =13)	10.0 ± 3.5
% Diff.[d]			**17**	**-28**			**- 40[f]**	**- 54[f]**	**39[e]**	**- 42[f]**	**-31[e]**
Ng-Hl.chol. (n = 17)	N.D	N.D	5.9 ±1.7 (n = 4)	30.1 ± 29.1 (n = 7)			30.0 ± 6.3 (n =13)	32.7± 12.9 (n =8)			
Ng-Hl.mixed (n = 20)	N.D	10.8± 5.2 (n = 4)	6.7 ±3.2 (n = 6)	18.0 ± 10.1 (n=11)			18.7 ± 6.7 (n =11)	20.1 ± 6.2 (n =14)			
% Diff.[d]			**14**	**-40**			**- 38[e]**	**- 39[f]**			
Ng - Hl.TAG (n = 14)	N.D	3.5 (n = 1)	6.9 ± 2.9 (n = 5)	21.7 ± 12.7 (n = 8)							
Ng-Hl.mixrd (n = 20)	N.D	10.8± 5.2 (n = 4)	6.7 ±3.2 (n = 6)	18.0 ± 10.1 (n =11)							
% Diff.[d]			**-3**	**-21**							
Hg- (Hl.chol +Hl.TAG+Hl.mixed) (n = 28)	8.6 (n = 1)	4.5 ± 1.7 (n =2)	5.4 ± 1.6 (n = 7)	19.3 ± 13.3 (n = 11)							
Ng - (Hl.chol + Hl.TAG+ Hl.mixed) (n = 43)	N.D	6.4 ± 2.9 (n = 5)	7.6 ± 2.7 (n =10)	22.8 ± 19.4 (n = 22)							
% Diff.[d]		**42**	**41**	**18**							

Table 9b: The apoA-I content of AI-Lp subclasses, of the groups subjects which are compared with the corresponding age matched group. The components that are differ significantly are shown below in this table, the detailed information of the compared groups are present in appendix A (Tables A2,4,6,8,10,12,14).

Not Detected, mean ± SD in mg/dL, Number of samples that contain this subclass.

Percent difference of means = [(next group – first group) / first group] * 100%., [e]P < 0.05, [f]P < 0.01, [g]P<0.001.