

Table (1): Clinical data of controls.

=====

No.	Age (years)	Sex	Weight (kg)	Height (cm)	Desired Weight (kg)	% of Desired Weight	Blood pressure	
							Systolic mmHg	Diastoli mmHg
1	41	male	70.00	175.00	77.00	91.00	115	75
2	53	male	75.00	172.00	74.50	100.70	120	80
3	61	male	80.00	183.00	83.50	96.00	125	80
4	56	male	70.00	172.00	74.50	94.00	110	70
5	65	male	85.00	186.00	86.00	98.80	110	70
6	45	male	70.00	175.00	77.00	90.90	115	80
7	48	male	75.00	182.00	82.50	90.90	120	85
8	43	male	73.00	178.00	78.50	93.00	110	70
9	42	male	60.00	172.00	74.50	80.80	120	65
10	72	male	79.00	186.00	85.50	92.40	110	70
11	46	male	80.00	188.00	87.00	92.00	130	90
12	50	male	72.00	175.00	77.00	93.50	115	75
13	42	male	74.00	170.00	73.00	101.40	120	80
14	55	male	69.00	172.00	74.50	92.60	120	90
15	49	male	65.00	181.00	81.50	79.80	130	85
16	40	male	68.00	175.00	77.00	88.30	120	75
17	56	male	70.00	173.00	75.50	92.70	110	75
18	43	male	60.00	165.00	68.00	88.20	115	80
19	42	male	85.00	190.00	89.00	95.50	120	75
20	57	male	65.00	172.00	74.50	87.20	110	70

Range	40		60.00	165.00	68.00	79.80	110	65
	72		85.00	190.00	89.00	101.40	130	90

Mean	50.30		72.25	177.10	78.53		117.25	77.00
S.D ±	8.89		7.12	6.80	5.51		6.38	6.96
S.E ±	1.99		1.59	1.52	1.23		1.43	1.56

Table (2): Clinical data of Ischemic Heart disease patients (a).

No.	Age	Sex	Weight kg	Height cm	Desired Weight	% of Desired Weight	Blood pressure	
							Systolic	Diastolic
1	72	male	80.00	172.00	73.50	109.50	200	95
2	49	male	77.00	178.00	74.50	103.00	120	80
3	56	male	95.00	164.00	66.00	144.00	110	70
4	49	male	76.00	180.00	76.50	99.00	100	70
5	55	male	90.00	160.00	63.50	142.00	110	75
6	50	male	85.00	179.00	78.00	109.00	120	80
7	52	male	70.00	160.00	63.50	110.00	130	100
8	50	male	90.00	162.00	67.00	134.00	190	110
9	62	male	70.00	169.00	70.00	110.00	120	80
10	46	male	70.00	170.00	68.50	102.00	180	100
11	64	male	70.00	162.00	65.50	107.00	110	90
12	62	male	67.00	171.00	72.00	93.00	130	95
13	50	male	70.00	164.00	66.00	106.00	200	110
14	50	male	80.00	169.00	70.00	114.00	130	100
15	46	male	90.00	165.00	65.00	138.00	180	115
16	65	male	70.00	172.00	72.50	97.00	120	80
17	53	male	98.00	170.00	71.00	138.00	110	75
18	51	male	120.00	164.00	66.00	182.00	190	110
19	50	male	80.00	172.00	72.00	111.00	120	90
20	53	male	65.00	169.00	70.00	93.00	110	70
21	50	male	93.00	162.00	64.50	144.00	120	85
22	55	male	52.00	170.00	71.00	73.00	100	60
23	53	male	56.00	166.00	68.00	82.00	120	75

Range	46		52.00	160.00	63.50	73.00	100	60
	72		120.00	180.00	78.00	182.00	200	115

Mean	54.04		78.87	168.26	69.33		135.65	87.61
S.D $\pm$	6.64		15.06	5.77	4.09		34.22	15.44
S.E $\pm$	1.38		3.14	1.20	0.85		7.14	3.22

p	> 0.1		> 0.05	< 0.001	< 0.001		< 0.02	< 0.005
	N.S		N.S	*	*		*	*

N.S = Non significant

* = Significant

p Compared to controls.

Table (2b): Clinical data of Ischaemic Heart Disease patients.

No. Type of ischaemia	Major risk factors				Other findings
	Hypertension	Diabetes	Obesity	Smoking	
1 Anterolateral ischaemia	+	+	-	-	
2 Old inferior infarction subendocardial injury.	-	-	-	+	
3 Old inferior infarction Post-infarction angina.	-	+	+	-	
4 Old Anteroseptal infarction post-infarction angina.	-	-	-	+	C.H.F
5 Old Anteroseptal infarction Lateral ischaemia	-	+	+	-	C.H.F
6 Recent anteroseptal infarction	-	-	-	+	
7 Old inferior infarction Lateral ischaemia	+	-	-	Ex-sm.	C.O.L.D.
8 Old Anteroseptal infarction, left bundle branch block.	+	+	+	-	Left ventricular dysfunction
9 Old inferior infarction Post-infarction angina.	-	-	-	Ex-sm.	
10 Old inferior infarction Post-infarction angina.	+	-	-	Ex-sm.	
11 Recent anteroseptal infarction Old inferior infarction	-	-	-	+	Left ventricular dysfunction
12 Old Anteroseptal infarction Post-infarction angina.	-	+	-	-	Left ventricular dysfunction
13 Recent anteroseptal infarction	+	-	-	-	

Table (2b): Clinical data of Ischaemic Heart Disease patients.

No. Type of ischaemia	Major risk factors.			Other findings
	Hypertension	Diabetes	Obesity	Smoking
14 Recent antero-septal infarction	+	-	-	- Left ventricular dysfunction
15 Old inferior infarction Post infarction unstable angina.	+	+	+	Ex-sm.
16 Old Antero-septal infarction Post-infarction angina.	-	-	-	Ex-sm.
17 Recent inferior infarction	-	-	+	+
18 Recent inferior infarction	+	-	+	+
19 Old inferior + old antero-septal infarction Post-infarction angina.	-	-	-	+
20 Recent antero-septal infarction Old inferior infarction	-	+	-	Ex-sm.
21 Recent antero-septal infarction Old inferior infarction	-	-	+	+
22 Old anterior infarction 2 vessels disease (coronary angiography)	-	-	-	+
23 Old anterior infarction Post-infarction angina.	-	-	-	Ex-sm. Left ventricular dysfunction

C.O.L.D. = Chronic Obstructive Lung Disease.

C.H.F. = Congestive Heart Failure.

Ex-sm. = Exsmoker (Stopped smoking).

Table (3): Plasma glucose levels, fasting and two hours after 75 g. glucose oral load (2 hrs p.p) in controls and ischaemic heart disease patients.

No. Plasma glucose levels mg/dl			No. Plasma glucose levels mg/dl		
Fasting		2 hrs P.P	Fasting		2 hrs P.P
1	85.00	86.00	1	150.00	190.00
2	70.00	90.00	2	100.00	110.00
3	73.00	80.00	3	130.00	160.00
4	90.00	110.00	4	90.00	89.00
5	82.00	90.00	5	135.00	180.00
6	73.00	70.00	6	79.00	101.00
7	78.00	80.00	7	80.00	85.00
8	80.00	90.00	8	200.00	280.00
9	90.00	95.00	9	100.00	95.00
10	84.00	90.00	10	100.00	120.00
11	95.00	100.00	11	90.00	100.00
12	104.00	115.00	12	300.00	450.00
13	85.00	90.00	13	80.00	90.00
14	82.00	80.00	14	85.00	110.00
15	93.00	98.00	15	220.00	250.00
16	80.00	85.00	16	90.00	89.00
17	89.00	95.00	17	100.00	110.00
18	90.00	100.00	18	95.00	115.00
19	102.00	115.00	19	120.00	125.00
20	100.00	98.00	20	350.00	500.00
			21	110.00	120.00
			22	115.00	135.00
			23	100.00	95.00

Range	70.00	70.00		79.00	85.00
	104.00	115.00		350.00	500.00
Mean-	86.25	92.85		131.26	160.83
S.D±	9.54	11.71		71.21	111.64
S.E±	2.13	2.62		14.85	23.28
p				< 0.005	< 0.01
				*	*

p Compared to controls.

* = Significant.

Table (4): Serum lipids profile and estradiol (E2) in control subject

No.	Triglycerides	Total Cholesterol	Cholesterol			E2
			HDL,c	LDL,c	Hdl,c/LDL,c	
	mg/dl	mg/dl	mg/dl	mg/dl		pg/ml
1	148.00	138.00	31.30	87.30	2.789	19.00
2	162.00	132.00	26.00	67.50	2.596	19.00
3	115.00	145.00	22.80	75.70	3.320	25.00
4	100.00	188.00	47.70	76.50	1.604	30.00
5	148.00	236.00	39.00	128.70	3.300	49.00
6	159.00	220.00	36.00	114.30	3.175	34.00
7	119.00	174.00	34.90	99.00	2.837	30.00
8	70.00	184.00	35.40	87.30	2.466	18.00
9	151.00	205.00	35.60	128.70	3.615	34.00
10	154.00	194.00	35.10	79.20	2.256	30.00
11	162.00	208.00	39.70	109.80	2.766	32.00
12	142.00	180.00	24.90	83.70	3.361	15.00
13	124.00	204.00	36.10	95.40	2.643	29.00
14	130.00	205.00	36.80	121.50	3.302	38.00
15	118.00	228.00	35.80	92.70	2.589	17.00
16	129.00	195.00	48.80	70.20	1.439	17.00
17	123.00	175.00	49.10	64.80	1.320	31.00
18	106.00	163.00	21.50	72.00	3.349	15.00
19	162.00	184.00	50.60	83.70	1.654	21.00
20	121.00	206.00	48.10	103.50	2.152	15.00
Range	70.00 162.00	132.00 236.00	21.50 50.60	64.80 128.70	1.320 3.615	15.00 49.00
Mean	132.15	188.20	36.76	92.08	2.627	25.90
S.E $\pm$	24.45	28.23	8.81	20.05	0.700	9.27
S.E $\pm$	5.47	6.31	1.97	4.48	0.157	2.07

HDL,c = High density lipoprotein cholesterol.

LDL,c = Low density lipoprotein cholesterol.

Table (5):

Serum lipids profile and estradiol (E2) in ischaemic heart disease.

No.	Triglycerides mg/dl	Total Cholesterol mg/dl	Cholesterol			E2 pg./ml.
			HDL,c mg/dl	LDL,c mg/dl	LDL/HDL	
1	140.00	204.00	27.80	148.50	5.342	20.00
2	232.00	228.00	27.10	90.00	3.321	40.00
3	314.00	170.00	23.30	99.00	4.249	26.00
4	235.00	237.00	26.90	133.20	4.952	58.00
5	328.00	168.00	23.30	91.80	3.940	27.00
6	212.00	213.00	24.20	137.70	5.690	48.00
7	166.00	206.00	35.60	104.40	2.933	36.00
8	161.00	164.00	32.20	74.70	2.320	21.00
9	152.00	201.00	33.30	108.90	3.270	25.00
10	313.00	350.00	32.60	228.60	7.012	70.00
11	193.00	196.00	24.00	93.60	3.900	56.00
12	155.00	228.00	37.60	135.90	3.614	36.00
13	299.00	148.00	14.40	82.80	5.750	28.00
14	351.00	309.00	37.40	186.30	4.981	55.00
15	393.00	348.00	40.00	225.00	5.625	84.00
16	229.00	274.00	26.90	166.50	6.190	36.00
17	309.00	273.00	30.80	155.70	5.055	19.00
18	131.00	283.00	21.90	142.20	6.493	49.00
19	197.00	206.00	35.80	115.20	3.218	36.00
20	177.00	215.00	37.20	107.10	2.879	23.00
21	338.00	252.00	26.50	135.90	5.128	34.00
22	159.00	238.00	56.20	125.10	2.226	41.00
23	216.00	277.00	38.40	174.60	4.547	48.00
Range						
	131.00	148.00	14.40	74.70	2.23	19.00
	393.00	350.00	56.20	228.60	7.01	84.00
Mean						
	234.78	234.26	31.02	133.16	4.46	39.83
S.D±						
	78.69	54.95	8.52	41.99	1.35	16.75
S.E±						
	16.41	11.46	1.78	8.76	0.28	3.49
p						
	<0.001	<0.005	<0.05	<0.001	<0.001	<0.005
	*	*	*	*	*	*

* Significant

p Compared to controls

HDL,c = High density lipoprotein cholesterol.

LDL,c = Low density lipoprotein cholesterol.

Table (6):
Correlation between serum levels of estradiol (E2)
and the investigated lipid parameters in control
subjects.

		n	r	p	Sign.
1	E2 & Triglycerides	20	0.284	>0.2	N.S
2	E2 & Total cholesterol	20	0.473	<0.05	*
3	E2 & HDL,c	20	0.185	>0.4	N.S
4	E2 & LDL,c	20	0.635	<0.005	*
5	E2 & LDL,c/HDL,c	20	0.245	>0.2	N.S

* = Significant

N.S = Non significant

HDL,c = High density lipoprotein cholesterol

LDL,c = Low density lipoprotein cholesterol

Table (7):

Correlation between serum levels of estradiol (E2)
and the investigated lipid parameters in patients
with ischaemic heart diseases

		n	r	p	Sign.
1	E2 & Triglycerides	23	0.347	>0.1	N.S
2	E2 & Total cholesterol	23	0.710	<0.001	*
3	E2 & HDL,c	23	0.189	>0.3	N.S
4	E2 & LDL,c	23	0.665	<0.001	*
5	E2 & LDL,c/HDL,c	23	0.431	<0.05	*

* = Significant

N.S = Nonsignificant

HDL,c = High density lipoprotein cholesterol

LDL,c = Low density lipoprotein cholesterol

Fig. (1): Serum Triglycerides (mg/dl) and Estradiol (pg/ml) in Controls and Ischaemic Heart Disease Patients (Mean + S.E.)

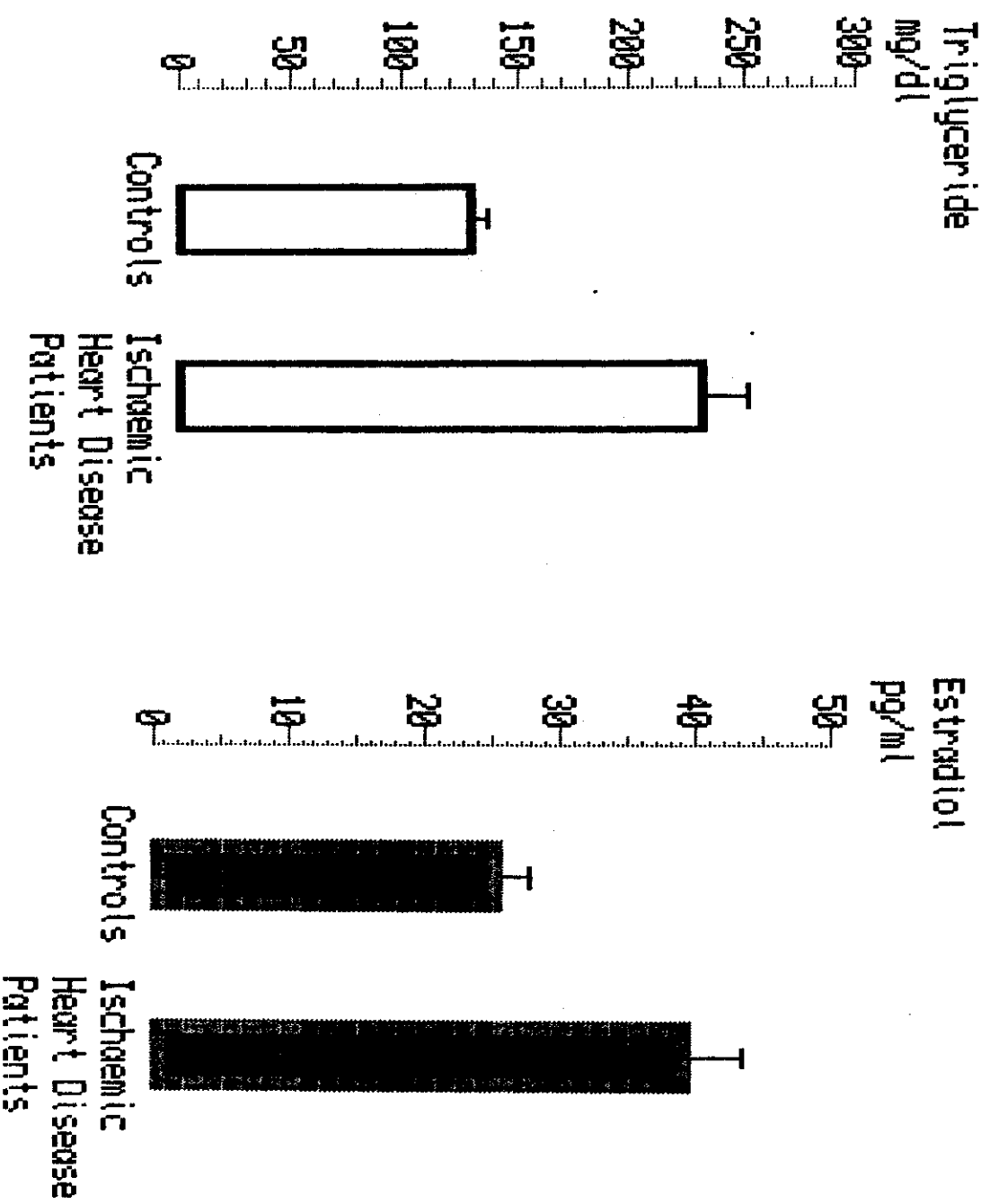


Fig. (2) : Total Cholesterol, HDL-Cholesterol and LDL-Cholesterol
 in Controls and Ischaemic Heart Disease Patients
 (Mean + S.E.)

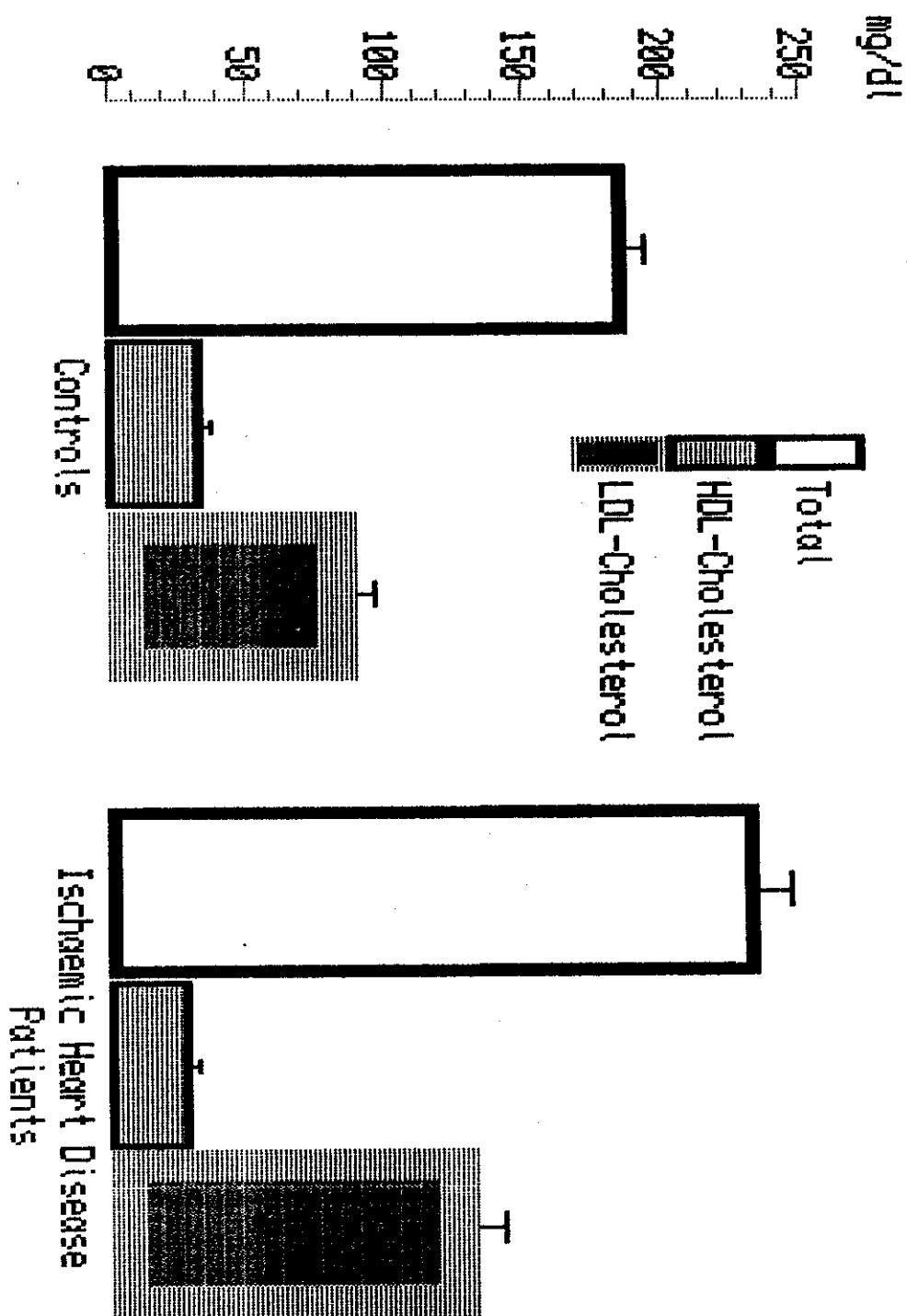


Fig. (3): LDL-Cholesterol / HDL-Cholesterol
===== Ratio in Controls and Ischaemic
Heart Disease Patients (Mean + S.E.)

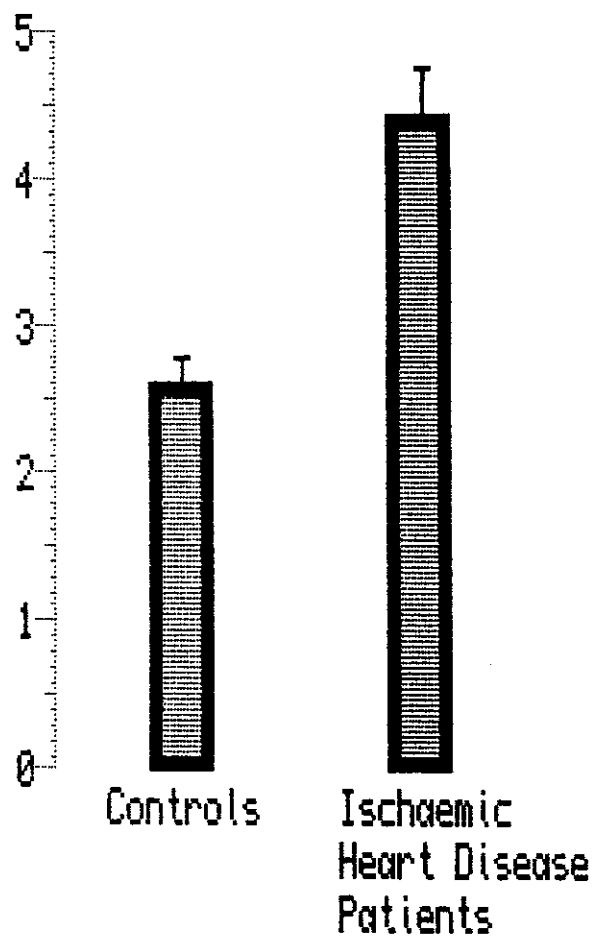


Fig. (4) : Correlation Between Serum Level of Estradiol (E2) and Total Cholesterol in Control Subjects

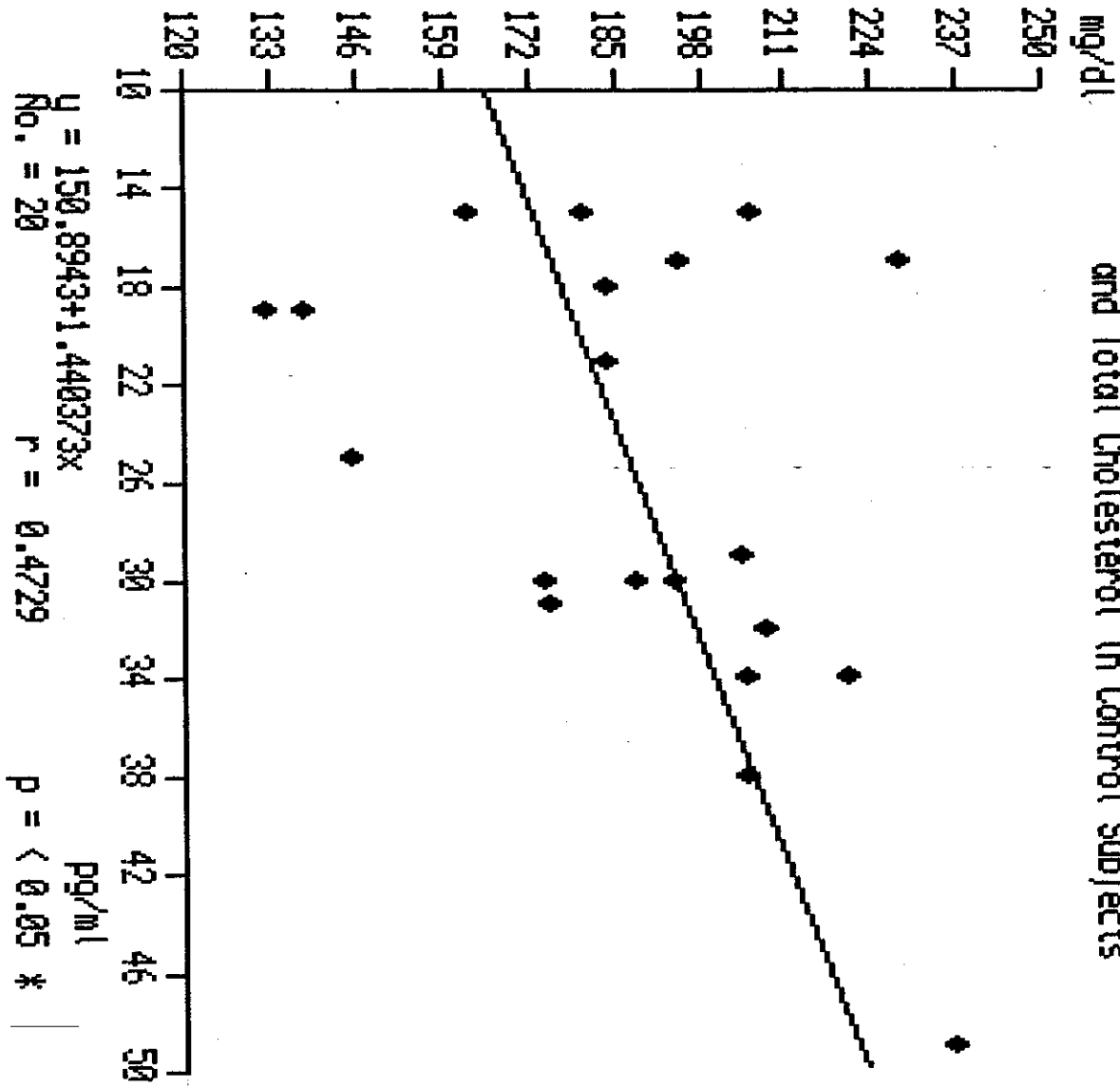


Fig. (5): Correlation Between Serum Level of Estradiol (E2) and
LDL-cholesterol in Control Subjects

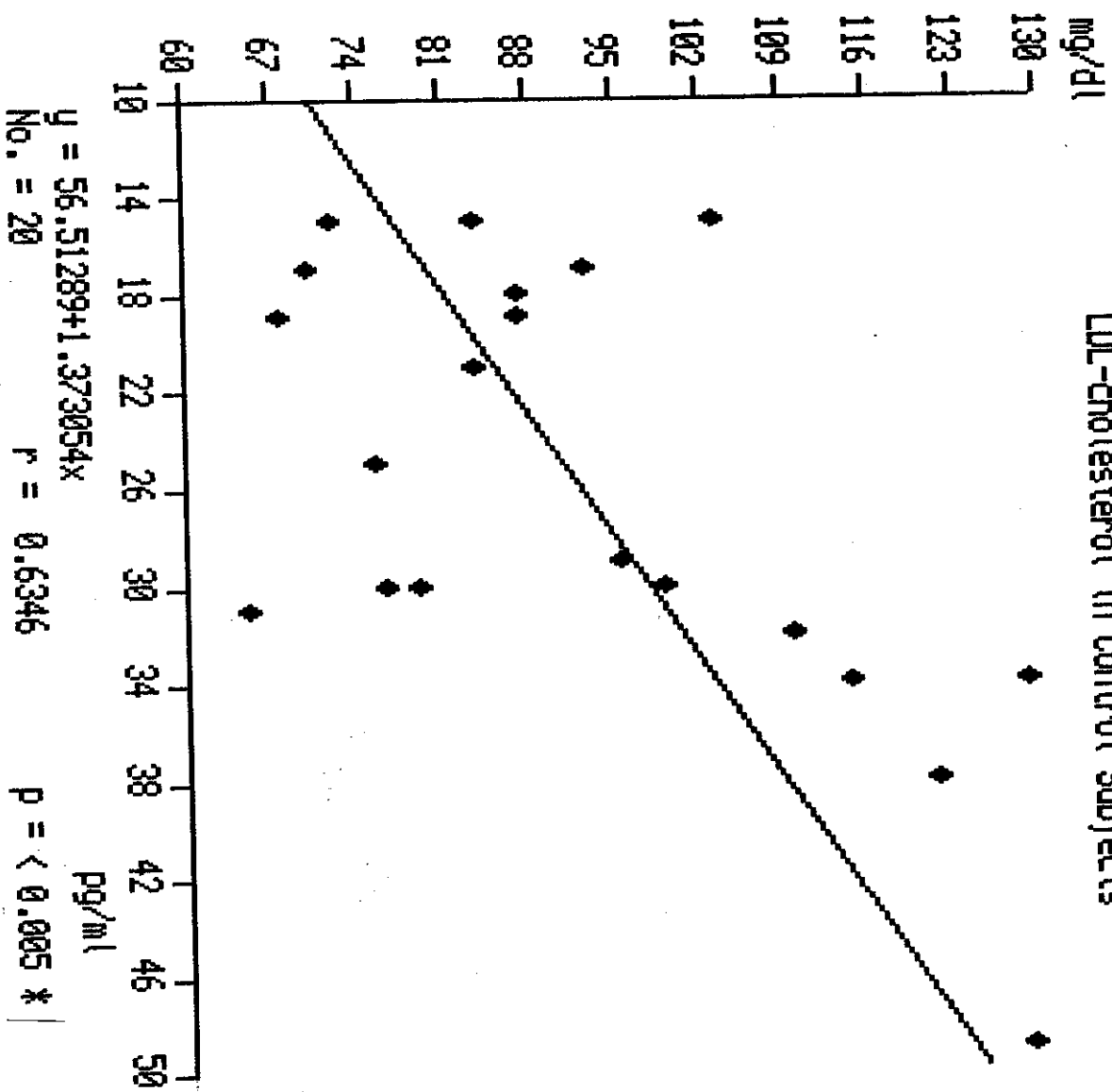


Fig. (6): Correlation Between Serum Levels of Estradiol (E2) and
mg/dl Total Cholesterol in Ischaemic Heart Disease Patients

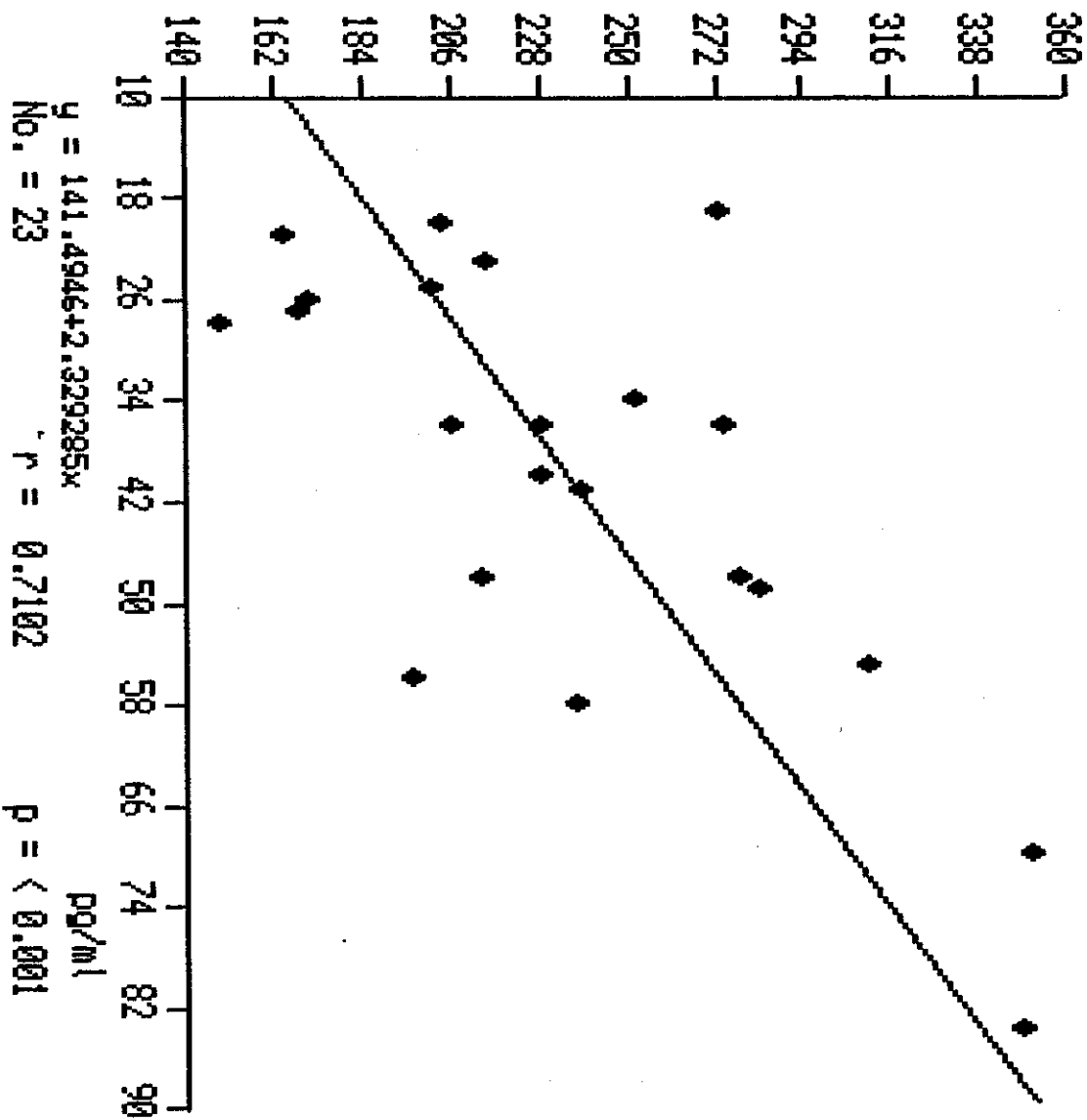


Fig. (7) : Correlation Between Serum Level of Estradiol (E2) and
mg/dl LDL-cholesterol in Ischaemic Heart Disease Patients

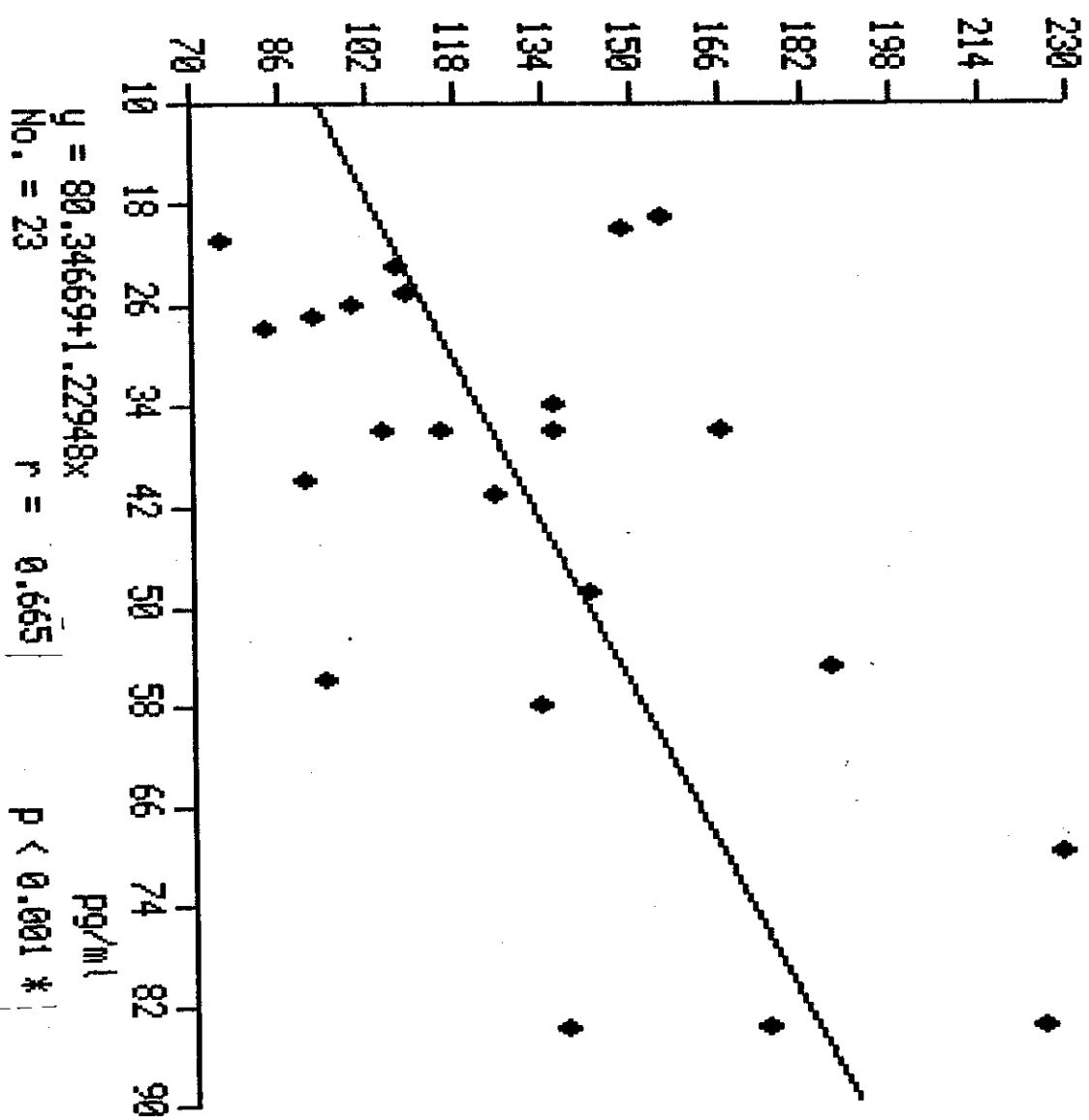


Fig. (8) : Correlation Between Serum Level of Estradiol (E2) and LDL - / HDL - cholesterol in Ischaemic Heart Disease Patients

