# **RESULTS**

The results of baseline clinical and laboratory data of group A & B are shown in (Table I).

### Age:

In-group A age ranged between 42-62 years, mean 49.8±5.5 years. While in-group B age ranged between 40-61 years, mean 48.8±5.8 years. There was no statistically significant difference between the two groups (P>0.05).

#### Sex:

In-group A, 34 (68%) patients were males and 16 (32%) were females. Meanwhile, in-group B, 14 (70%) patients were males and 6 (30%) were females. There was no statistical difference between the two groups.

# History of systemic hypertension:

In-group A, 20 (40%) patients had a history of hypertension, while in group B, 6 (30%) patients had a history of hypertension. There was no statistical difference between the two groups.

# History of diabetes:

In-group A, 12 (24%) patients were diabetics. While in group B, 6 (30%) patients were diabetics. There was no statistical difference between the two groups.

# History of smoking:

In group A history of smoking was present in 29 (58%) patients. While in-group B, it was present in 9 (45%)

patients. There was no statistical difference between the two groups.

# History of old myocardial infarction:

In group A, 25 (50%) patients had a history of old myocardial infarction, while in group B none of the patiens had a previous myocardial infarction.

#### Heart rate:

In group A, heart rate was  $83.2\pm18/$  min., while in group B it was  $79.3\pm13/$  min. There was no statistical difference between the two groups.

## **Blood pressure:**

In-group A systolic blood pressure was 136±14 mmHg and diastolic blood pressure was 83±12 mmHg. While in group B, systolic blood pressure was 134±15 mmHg and diastolic blood pressure 77±12 mmHg. There was no statistical difference between the two groups.

# Hemoglobin and creatinine:

In group A hemoglobin was 12.1±1 mg/dl and creatinine was 0.91±0.18 mg/dl, while in group B, hemoglobin was 12.3±1 mg/dl and creatinine was 0.91±0.16 mg/dl. There was no statistical difference between the two groups.

Among the fifty patients in-group A there was 25 (50%) patients without total LAD occlusion (subgroup 1) and 25 (50%) patients with total LAD occlusion (subgroup 2). The baseline clinical and laboratory findings of the two subgroups are shown in **Table (2)**.

#### Age:

In subgroup (1) age ranged between 42-62 years, mean 49.7±5.5, while in subgroup (2) age ranged between 42-60 years, mean 49.9±5.5. There was no statistical difference between the two subgroups.

#### Sex:

In subgroup (1) 17 (68%) patients were males and 8 (32%) patients were females. The same results was also found in subgroup (2).

# History of hypertension and diabetes:

In subgroup (1), 10 (40%) patients had a history of hypertension and 6 (24%) patients had a history of diabetes. The same results were also found in subgroup (2).

## History of smoking:

In subgroup (1), 14 (56%) patient had a history of smoking, while in subgroup (2), 15 (60%) patients were smokers. There was no statistical difference between the two subgroups.

# History of old myocardial infarction:

In subgroup (1), 6 (24%) patients, had a previous myocardial infarction, while in subgroup (2), it was present in 19 (76%) patients. There was a highly significant difference between the two subgroups.

### Heart rate:

In subgroup (1), heart rate was  $77.9\pm16.1$ /min, while in subgroup (2), it was  $88.6\pm18.4$ /min. Heart rate was significantly higher in subgroup (2).

## **Blood pressure:**

In subgroup (1), systolic blood pressure was 135.4±12.16 mmHg and diastolic blood pressure was 85.2±11.32 mmHg, while in subgroup (2), systolic blood pressure was 136.2±15 mmHg and diastolic blood pressure was 81±11.8 mmHg. there was no statistical difference between the two subgroups.

# Hemoglobin and creatinine:

In subgroup (1), hemoglobin was  $12.2\pm1$  mg/dl and creatinine was  $0.89\pm0.15$  mg/dl, while in subgroup (2), hemoglobin was  $11.9\pm1.1$  mg/dl and creatinine was  $0.92\pm0.21$  mg/dl. there was no statistical difference between the two subgroups.

# Results of coronary angiography:

## 1- severity of the lesions (Fig. 1):

In group A 25 patients had no total occlusion (subgroup 1) and 25 patients had total occlusion (subgroup 2). In subgroup (1) there was:

- a. 10 patients with a stenosis level of 50%-<70%.
- b. 8 patients with a stenosis level of 70%-<90%.
- c. 7 patients with a stenosis level of 90%-<100%.

# 2- Site of the lesions (Fig. 2):

- a. Proximal lesion was present in 25 patients, 12 in subgroup (1) and 13 in subgroup (2).
- b. Mid lesion was present in 25 patients, 13 in subgroup (1) and 12 in subgroup (2).

 None of the patients had a significant distal LAD lesion.

# 3- Grades of coronary collaterals (Fig. 3):

- a. Grade 1 was present in 13 (26%) patients in group A, all were present in subgroup (1) (52%), while in subgroup (2) no patient had grade 1 coronary collaterals.
- b. Grade 2 was present in 24 (48%) patients in group A, 9 (36%) in subgroup (1) and 15 (60%) in subgroup (2).
- c. Grade 3 was present in 13 (26%) patients in group A, 3 (12%) in subgroup (1) and 10 (40%) in subgroup (2).

# 4- Corrected TIMI frame count (CTFC) (Fig. 4):

In subgroup (1) 17 (68%)patients had a normal CTFC ( $\leq$ 27) and 8 (32%) patients had abnormal CTFC ( $\geq$ 27).

# 5- length of the lesion (Fig. 5):

In subgroup (1) 15 (60%) patients had discrete lesions (<10mm) and 10 (40%) patients had tubular lesions (10-20mm). None of the patients had a diffuse (>20mm) lesion.

Among the 6 patients in subgroup (1) who had a history of old myocardial infarction, 4 patients had abnormal coronary flow (>27) and 2 patients had normal coronary flow (Fig. 6). In subgroup (2) among the 19 patients who had a history of old myocardial infarction, 15 patients had grade 2 coronary collaterals and 4 patients had grade 3 coronary collaterals. The 6 patients in subgroup (2) who had

no previous myocardial infarction all had grade 3 coronary collaterals (Fig. 7).

# Results of ventriculograms and LVEDP (Table 3, Fig. 8)

# Ejection fraction (EF):

In group A mean was  $55.1\pm10.94\%$ , while in-group B, it was  $69.35\pm4.85\%$ . There was a highly significant difference between the two groups.

# Anterobasal area (AB):

In group A mean was  $12.7\pm6.03\%$ , while in-group B it was  $19.85\pm2.5\%$ . There was a highly significant difference between the two groups.

# Anterolateral area (AL):

In group A mean was 7.86±4.1%, while in group B it was 13.79±2.07%. There was a highly significant difference between the two groups.

### Apical area:

In group A mean was 2.86±2.07%, while in group B it was 5.16±0.83%. There was a highly significant difference between the two groups.

# Diaphragmatic area (Diaph.):

In group A mean was 14.12±1.83%, while in group B it was 13.99±2.2%. There was no statistical difference between the two groups.

# Posterobasal area (PB):

In-group A mean was 17.52±1.9%, while in group B it

was 16.56±2.46%. There was no statistical difference between the two groups.

# Left ventricular end-diastolic pressure (LVEDP):

In-group A mean was 12.7±4.66 mgHg, while in group B it was 8.25±1.59 mmHg. There was a highly significant difference between the two groups.

# Effect of history of myocardial infarction on ventricular function (Table 4, Fig. 9):

# **Ejection fraction:**

In patients with old MI mean was 47.88±9.28%, while in patients without old MI it was 62.32±7.06%. A highly significant difference was present.

### Anterobasal area:

In patients with old MI mean was 8.82±4.99%, while in patients without old MI it was 16.65±4.16%. A highly significant difference was present.

# Anterolateral area:

In patients with old MI mean was 5.45±3.54%, while in patients without old MI it was 10.28±3.11%. A highly significant difference was present.

## Apical area:

In patients with old MI mean was 1.76±2.08%, while in patients without old MI it was 3.96±1.36%. A highly significant difference was present.

### LVEDP:

In patients with old MI mean was 15.48±4.65 mmHg,

while in patients without old MI it was 9.92±2.56 mmHg. A highly significant difference was present.

# Effects of coronary angiographic findings on ventricular function:

## 1. Effect of site of lesion on ventricular function:

## In group A (Table 5, Fig. 10):

## **Ejection fraction:**

In proximal lesions mean was 51.64±12.11%, while in mid lesion it was 58.56±8.54%. A significant difference was present.

#### Anterobasal area:

In proximal lesions mean was 10.68±6.87%, while in mid lesions it was 14.78±4.28%. A significant difference was present.

#### Anterolateral area:

In proximal lesions mean was 7.42±4.22%, while in mid lesions it was 8.31±4.01%. No statistical difference was present.

## Apical area:

In proximal lesions it was 2.73±2.11%, while in mid lesions it was 2.99±2.05%. No statistical difference was present.

#### LVEDP:

In proximal lesions it was 13.72±5.04 mmHg, while in mid lesions it was 11.68±4.08 mmHg. Although higher in proximal lesions, no statistical was present.

# In subgroup (1) (Table 6, Fig. 11):

In subgroup (1) there was no statistical significant difference as regard systolic function and LVEDP between patients with proximal stenosis and patients with mid stenosis.

# In subgroup (2) (Table 7, Fig. 12):

In subgroup (2) ejection fraction and anterobasal function were highly significantly higher in patients with mid lesions compared to patients with proximal lesions.

# 2. Effect of % diameter stenosis on ventricular function:

# Effect of total occlusion (Table 8, Fig. 13):

# **Ejection fraction:**

In subgroup (1) mean was  $61.68\pm8.74$ , while in subgroup (2) it was  $48.52\pm8.83$ . There was a highly significant difference between the two subgroups.

## Anterobasal area:

In subgroup (1) mean was 16.48±4.57, while in subgroup (2) it was 8.98±4.9. There was a highly significant difference between the two subgroups.

## Anterolateral area:

In subgroup (1) mean was  $10.01\pm3.54$ , while in subgroup (2) it was  $5.72\pm3.49$ . There was a highly significant difference between the two subgroups.

## Apical area:

In subgroup (1) mean was 3.44±2.1, while in subgroup (2) it was 2.28±1.89. There was a significant difference

between the two subgroups.

#### LVEDP:

In subgroup (1) mean was  $10.76\pm3.7$ , while in subgroup (2) it was  $14.64\pm4.77$ . there was a highly significant difference between the two subgroups.

# Correlation between percent diameter stenosis and ventricular function in group A (Table 9, Fig. 14-18):

There was a highly significant negative correlation between percent diameter stenosis and ejection fraction in group A (r=-0.582/ P=<0.01). There was also a highly significant negative correlation between percent diameter stenosis and anterobasal area (r=-0.607, P<0.01), between percent diameter stenosis and anterolateral area (r=-0.559, P<0.01) and between percent diameter stenosis and apical area (r=-0.389, P<0.01). A highly significant correlation was present between percent diameter stenosis and LVEDP (r=0.477, P<0.01).

# Correlation between percent diameter stenosis and ventricular function in subgroup (1) (Table 10, Fig. 19-23):

There was no significant correlation between percent diameter stenosis and ejection fraction in subgroup (1) (r=0.342, P=>0.05). Also, there was no significant correlation between % diameter stenosis and anterobasal area (r=0.387, P=>0.05) or apical area (r=0.370, P=>0.05). A significant negative correlation was found between % diameter stenosis and anterolateral area (r=-0.406, P=<0.05. Also, a significant correlation was found between % diameter stenosis and LVEDP (r=0.44, P=<0.05).

# 3. Effect of coronary flow velocity on ventricular function (Table 11, Fig. 24):

# **Ejection fraction:**

In patients with normal flow (CTFC  $\leq$ 27) mean was 66.71 $\pm$ 3.33%, while in patients with abnormal flow (CTFC >27) it was 51 $\pm$ 6.68%. A highly significant difference was present.

## Anterobasal area:

In patients with normal flow mean was 18.94±2.37%, while in patients with abnormal flow it was 11.26±3.62%. A highly significant difference was present.

# Anterolateral area:

In patients with normal flow mean was 12.16±1.68%, while in patients with abnormal flow it was 5.44±1.18%. A highly significant difference was present.

# Apical area:

In patients with normal flow mean was 4.62±0.41%, while in patients with abnormal flow it was 0.96±1.81%. A highly significant difference was present.

## LVEDP:

In patients with normal flow mean was  $8.59\pm1.62$  mmHg, while in patients with abnormal flow it was  $15.68\pm2.26$  mmHg. A highly significant difference was present.

# Correlation between CTFC and ventricular function in subgroup (1) (Table 12, Fig. 25-29):

There was a highly significant negative correlation

between CTFC and EF in subgroup (1) (r=-0.864, P<0.01.

There was also a highly significant negative correlation between CTFC and anterobasal area (r=-0.781 /P=<0.01), between CTFC and anterolateral area (r=-0.889/P=<0.01) and between CTFC and apical area (r=-0.815/P=<0.01). A highly significant correlation was present between CTFC and LVEDP (r=0.819/P=<0.01).

# 4. Effect of coronary collaterals on ventricular function:

## In group A (Table 13, Fig. 30):

### **Ejection fraction:**

In patients with well developed (grade3) collaterals mean was  $52.62\pm5.53\%$ , while in patients with absent or poor (grade 1,2) collaterals it was  $55.97\pm12.24\%$ . No statistical difference was present.

#### Anterobasal area:

In patients with well developed collaterals mean was  $7.65\pm1.61\%$ , while in patients with absent or poor collaterals it was  $7.94\pm4.69\%$ . No statistical difference was present.

## Apical area:

In patients with well developed collaterals mean was  $3.06\pm1.81\%$ , while in patients with absent or poor collaterals it was  $2.79\pm2.17\%$ . No statistical difference was present.

#### LVEDP:

In patients with well- developed collaterals mean was 11.69±2.53 mmHg, while in patients with absent or poor

collaterals it was  $13.05\pm5.19$  mmHg. No statistical difference was present.

# In subgroup (1) (Table 14, Fig. 31):

# **Ejection fraction:**

In patients with well- developed collaterals mean was  $47\pm3.08\%$ , while in patients with absent or poor collaterals it was  $63.68\pm6.98\%$ . A highly significant difference was present.

## Anterobasal area:

In patients with well- developed collaterals mean was  $8.67\pm2.71\%$ , while in patients with absent or poor collaterals it was  $17.55\pm3.65\%$ . A highly significant difference was present.

# Anterolateral area:

In patients with well- developed collaterals mean was  $5.1\pm0.8\%$ , while in patients with absent or poor collaterals it was  $10.68\pm3.22\%$ . A highly significant difference was present.

## Apical area:

In patients with well developed collaterals mean was  $0.7\pm2.49\%$ , while in patients with absent or poor collaterals it was  $3.82\pm1.8\%$ . A highly significant difference was present.

### LVEDP:

In patients with well- developed collaterals mean was 15.33±1.53 mmHg, while in patients with absent or poor collaterals it was 10.14±3.47 mmHg. A highly significant

difference was present.

## In subgroup (2) (Table 15, Fig. 32:

### **Ejection fraction:**

In patients with well- developed collaterals mean was 54.3±4.35%, while in patients with poor collaterals it was 44.67±9.04%. A highly significant difference was present.

#### Anterobasal area:

In patients with well- developed collaterals mean was  $11.95\pm2.67\%$ , while in patients with poor collaterals it was  $7\pm5.1\%$ . A highly significant difference was present.

#### Anterolateral area:

In patients with well- developed collaterals mean was  $8.41\pm0.71\%$ , while in patients with poor collaterals it was  $3.92\pm3.44\%$ . A highly significant difference was present.

## Apical area:

In patients with well- developed collaterals mean was  $3.77\pm0.76\%$ , while in patients with poor collaterals it was  $1.28\pm1.76\%$ . A highly significant difference was present.

#### LVEDP:

In patients with well-developed collaterals mean was  $10.6\pm1.51$  mmHg, while in patients with poor collaterals it was  $17.33\pm4.25$  mmHg. A highly significant difference was present.

# 5. Effect of lesion length on ventricular function (Table 16):

In subgroup (1) there was no significant statistical

difference as regard systolic function and LVEDP between patients with discrete (<10mm) lesions and patients with tubular (10-20mm) lesions.

Table (1)

Baseline clinical characteristics of the patients under study

Item	Gr. A (n=50)	Gr. B (n=20)	P value	Significance	
Age:				- Oigrinicarice	
Mean					
SD	49.82	48.8			
	5.5	5.8	>0.05	Not significan	
  Sex:	ı			3	
Male: No. (%)					
Female: No. (%)	34 (68%)	14 (70%)	1		
Telliale. No. (%)	16 (32%)	6 (30%)	>0.05	Not significant	
Associated disorders:	h	-			
Hypertension			İ		
No: No. (%)	·				
Yes: No. (%)	20 (40%)	6 (30%)		1	
1 es. NO. (%)	30 (60%)	14 (70%)	>0.05	Not significant	
Diabetes mellitus:					
	_			Í	
Absent: No. (%)	38 (76%)	14 (70%)			
Present: No. (%)	12 (24%)	6 (30%)	>0.05	Not significant	
Smoking:				. The digrimodific	
	1				
No: No. (%)	21 (42%)	11 (55%)			
Yes: No. (%)	29 (58%)	9 (45%)	>0.05	Not significant	
Nel enveneendint is a se				- Tot organicant	
Old myocardial infarction:	í . i				
Absent: No. (%)	25 (50%)	İ		ĺ	
Present: No. (%)	25 (50%)		No	t Applicable	
leart Rate:	1				
Mean		ĺ			
	83.24	79.30	į		
SD	17.95	13.03	>0.05	Not significant	
				1400 Significant	
ystolic blood pressure:		Į			
Mean	135.8	134.3			
SD	13.6	14.98	>0.05	Not significant	
				THOUSIGNICATION	
iastolic blood pressure:		ĺ			
Mean	83.1	77.25	}		
SD	11.68	12.29	>0.05	Not significant	
		<del></del>		THUC SIGNIFICANT	
emoglobin (mg/ di):	+		İ		
Mean	12.06	12.30	]		
SD	1.05	1.03	>0.05	Not significant	
			- 5.55	· vot significant	
eatinine (mg/ dl):		ĺ			
Mean	0.91	0.91	İ		
SD	0.18	0.16	>0.05	Net all r	
	j	55	-0.00	Not significant	

Gr. A= Patients with significant LAD disease

Gr. B = Normal control group

Table (2)

Comparison between the two subgroups as regard the baseline clinical characteristics

ltern	Subgroup 1 (n=25)	Subgroup 2 (n=25)	P value	Significance		
ge:	49.72	49.92				
Mean		5.53	>0.05	Not significant		
SD	5.52	5.53	70.00	110t signinoant		
Sex:		ļ	ļ .			
Male: No. (%)	17 (68%)	17 (68%)	j			
Female: No. (%)	8 (32%)	8 (32%)	No	applicable		
Associated disorders:						
		1	1			
hypertension	10 (40%)	10 (40%)				
Yes: No. (%)		15 (60%)	No	i t applicable		
No: No. (%)	15 (60%)	15 (5076)	1	- approved		
Diabetes mellitus:						
Absent: No. (%)	19 (76%)	19 (76%)	}	<u> </u>		
Present: No. (%)	6 (24%)	6 (24%)	No.	t applicable		
Smoking:	44 (440)	10 (40%)				
No: No. (%)	11 (44%)		>0.05	Not significant		
Yes: No. (%)	14 (56%)	15 (60%)	70.05	140¢ significant		
Old myocardial infarction:		Į	[	İ		
Absent: No. (%)	19 (76%)	6 (24%)	1	1		
Present: No. (%)	6 (24%)	19 (76%)	<0.01	Highly significant		
	İ		1			
Heart Rate:	77.00	68.56	•			
Mean	77.92		<0.05	Significant		
SD	16.13	18.38	1 40.00	Significant		
Systolic blood pressure:						
Mean	135.4	136.2	1			
SD	12.16	15.02	>0.05	Not significant		
			1			
Diastolic blood pressure:	05.5	04				
Mean	85.2	81	>0.05	Not significant		
SD	11.32	11.81	>0.05	Not significant		
  Hemoglobin (mg/ dl):		-				
Mean	12.2	11.92		1		
SD	1.04	1.12	>0.05	Not significant		
		<b>,</b>				
Creatinine (mg/ dl):	1	0.00	Ì			
Mean	0.89	0.92	20.05	Net cianificant		
SD	0.15	0.21	>0.05	Not significant		

Subgroup 1 = Patients without total occlusion

Subgroup 2 = Patients with total occlusion

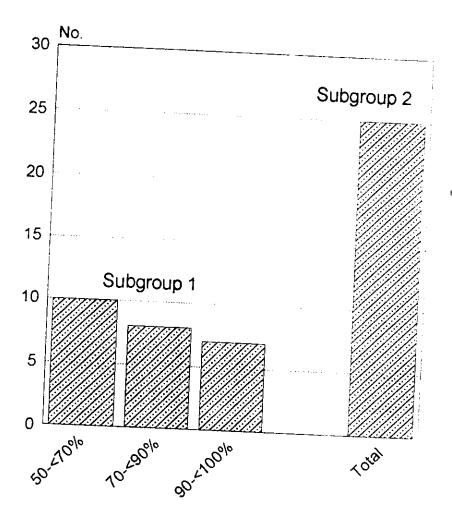


Fig. (1): Distribution of the severity of lesions in group A

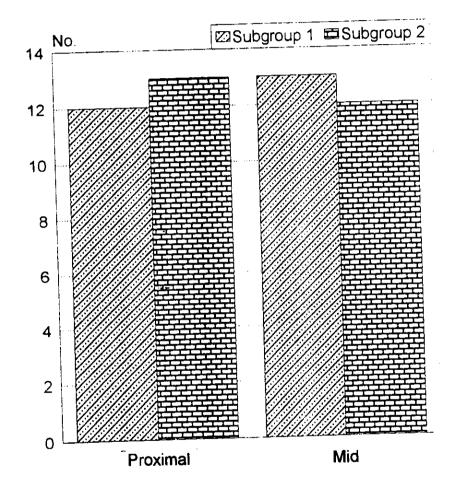


Fig. (2): Distribution of site of lesions in group A

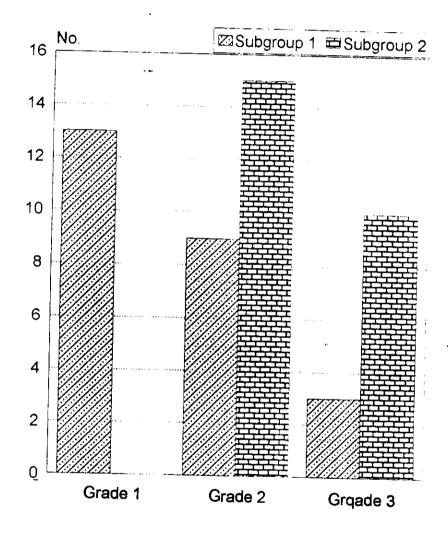


Fig. (3): Distribution of coronary collaterals in group A

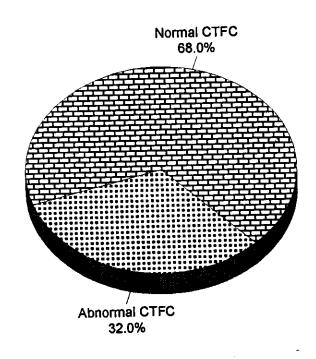


Fig. (4): Distribution of CTFC in subgroup (1)

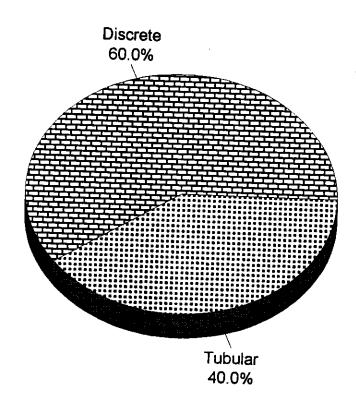


Fig. (5): Distribution of lesion length in subgroup (1)

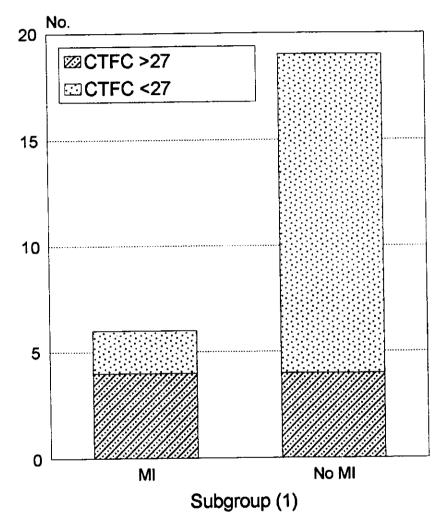


Fig. (6): Distribution of CTFC in subgroup (1) regarding history of myocardial infarction (MI)

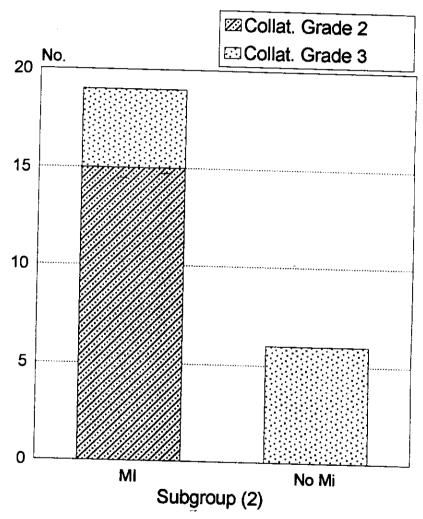


Fig. (7): Distribution of collaterals in subgroup (2) regarding history of myocardial infarction (MI)

Table (3)
Systolic function and LVEDP among the 2 groups under study

Item	Gr. A (n	Gr. B (n=20)			"t" value	P value	Significance	
		- SD	Mean	±	SD			
Ejection fraction	55.10 ±	10.94	69.35	±	4.85	5.589	<0.01	Highly significant
Anterobasal area	12.70 ±	6.03	19.85	±	2.50	5.089	<0.01	Highly significant
Anterolateral area	7.86 ±	4.10	13.79	±	2.07	6.146	<0.01	Highly significant
Apical area	2.86 ±	2.07	5.16	±	0.83	4.805	<0.01	Highly significant
Diaphragmatic area	14.12 ±	1.83	13.99	±	2.22	0.270	>0.05	Not significant
Posterobasal area	17.52 ±	1.90	16.56	±	2.46	1.748	>0.05	Not significant
LVEDP	12.70 ±	: 4.66	8.25	±	1.59	4.163	<0.01	Highly significan
			<u> </u>					

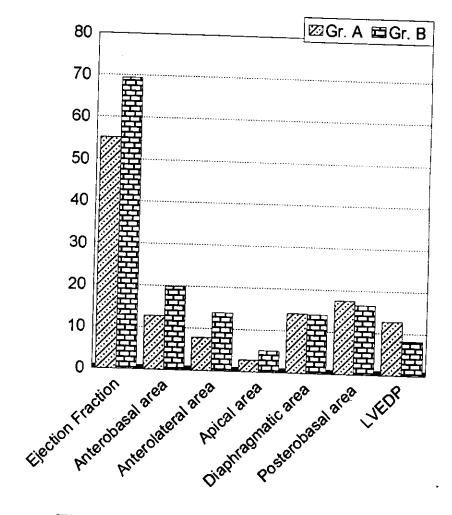


Fig. (8): Comparison between the two groups regarding systolic function and LVEDP

Table (4)

Effect of history of old myocardial infarction on systolic function and LVEDP in group A

Item	History of old MI (n=25)			No history of MI (n=25)			"t" value	P value	Significance
	Mean	±	SD	Mean	±	SD			
Ejection fraction	47.88	±	9.28	62.32		7.06	6.193	<0.01	Highly significant
Anterobasal area	8.81	±	4.99	16.65	±	4.16	6.033	<0.01	Highly significant
Anterolateral area	5.45	±	3.54	10.28	±	3.11	5.133	<0.01	Highly significant
Apical area	1.76	±	2.08	3.96	±	1.36	<b>4.43</b> 3	- <0.01	Highly significant
LVEDP	15.48	±	4.65	9.92	±	2.56	5.238	<0.01	Highly significant

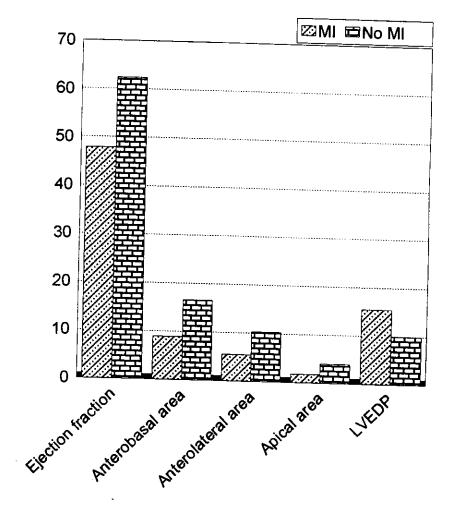


Fig. (9): Effect of history of old myocardial infarction on systolic function and LVEDP in Gr. A

Table (5)

Effect of site of lesion on systolic function and LVEDP in Group A

Item	Proximal (n=25)	Mid (n=25)	"t" value P value	Significance
	Mean ± SD	Mean ± SD		
Ejection fraction Anterobasal area	51.64 ± 12.11 10.68 ± 6.87	58.56 ± 8.54 14.78 ± 4.28	2.335 <0.05 2.531 <0.05	Significant Significant
Anterolateral area	7.42 ± 4.22	8.31 ± 4.01	0.763 >0.05	Not significant
Apical area	2.73 ± 2.11	2.99 ± 2.05	0.441 >0.05	Not significant
LVEDP	13.72 ± 5.04	11.68 ± 4.08	1.572 >0.05	Not significant
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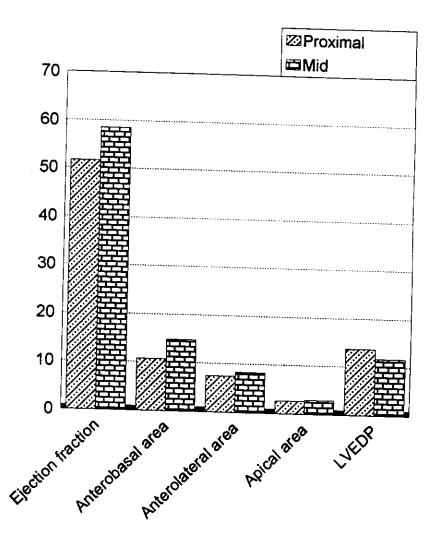


Fig. (10): Effect of site of lesion on systolic function and LVEDP in Gr. A

Table (6)

Effect of site of lesion on systolic function and LVEDP in subgroup 1

Item	Proximal (n=12)		Mid (n=13)			"t" value	P value	Significance
	Mean ±	SD	Mean	±	SD			
Ejection fraction	60.33 ±	8.86	62.92	±	8.79	0.733	>0.05	Not significant
Anterobasal area	15.86 ±	4.95	17.06	±	4.32	0.649	>0.05	Not significant
Anterolateral area	9.63 ±	3.49	10.37	±	3.69	0.517	>0.05	Not significant
Apical area	3.52 ±	2.02	3.38	±	2.26	0.154	>0.05	Not significant
LVEDP	11.17 ±	4.28	10.38	±	3.20	0.520	>0.05	Not significant

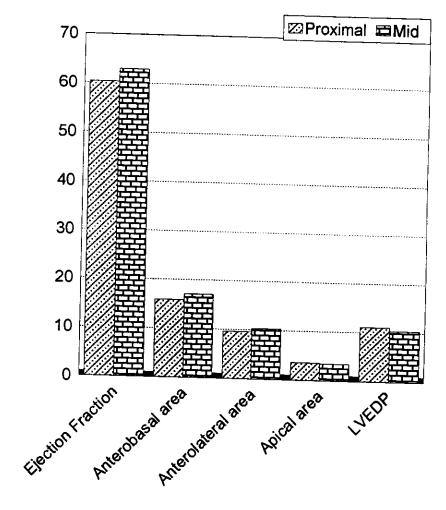


Fig. (11): Effect of site of lesion on systolic function and LVEDP in subgroup (1)

Table (7)

Effect of site of lesion on systolic function and LVEDP in subgroup 2

Item	Proximal (n=13)		Mid (n=12)			"t" value	P value	Significance	
	Mean	±	SD	Mean	±	SD			
Ejection fraction	46.62	±	8.72	53.83	±	5.29	3.504	<0.01	Highly significant
Anterobasal area	5.91	±	4.52	12.31	±	2.61	4.286	<0.01	Highly significant
Anterolateral area	5.38	±	3.89	6.08	±	3.11	0.487	>0.05	Not significant
Apical area	2.01	±	2.00	2.57	±	1.79	0.732	>0.05	Not significant
LVEDP	16.08	±	4.65	13.08	±	4.58	1.620	>0.05	Not significant

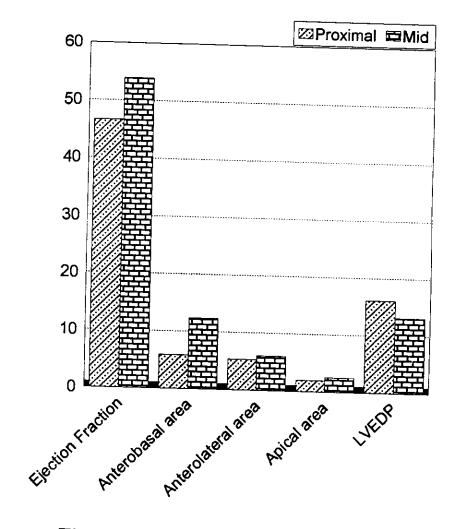


Fig. (12): Effect of site of lesion on systolic function and LVEDP in subgroup (2)

Table (8)
Systolic function and LVEDP among the 2 subgroups under study

Item	subGr. 1 (n=25)		subGr. 2 (n=25)			"t" value	P value	Significance
	Mean ±	SD	Mean	±	SD			
Ejection fraction  Anterobasal area  Anterolateral area  Apical area	61.68 ± 16.48 ± 10.01 ± 3.44 ±		5.72	±	8.83 4.90 3.49 1.89	5.297 5.599 4.322 2.072	<0.01 <0.01 <0.01 <0.05	Highly significant Highly significant Highly significant Significant
LVEDP	10.76 ±	3.7	14.64		4.77	3.214	<0.01	Highly significant

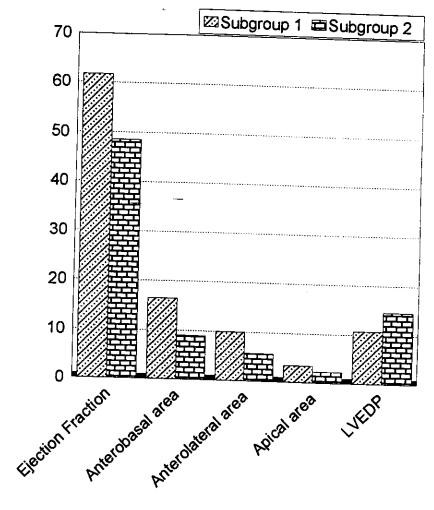


Fig. (13): Comparison between the two subgroups regarding systolic function and LVEDP

Table (9)

Correlation between % diameter stenosis and Ventricular function in Group A

	9/	diameter stend	osis
Parameter	Correlation Coefficient "r"	P value	Significance
EF Anterobasal Anterolateral Apical LVEDP	-0.582 -0.607 -0.559 -0.389 0.477	<0.01 <0.01 <0.01 <0.01 <0.01	Highly significant Highly significant Highly significant Highly significant Highly significant

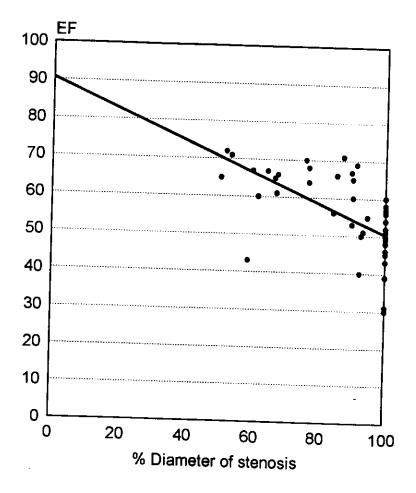


Fig. (14): Correlation between % diameter stenosis and ejection fraction in group A (n=50)

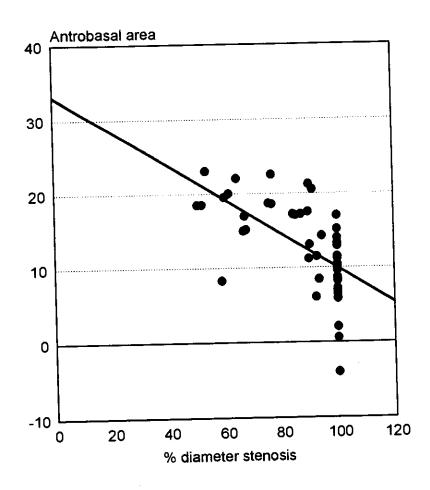


Fig. (15): Correlation between % diameter stenosis and anterobasal area in group A

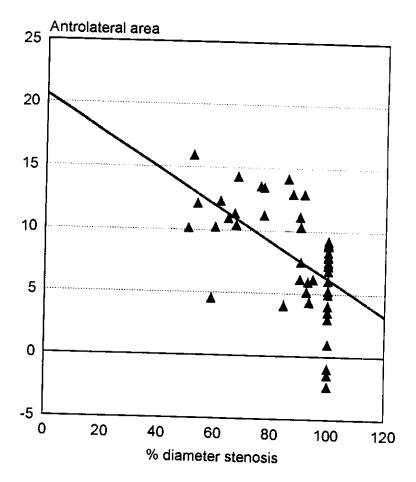


Fig. (16): Correlation between % diameter stenosis and anterolateral area in group A

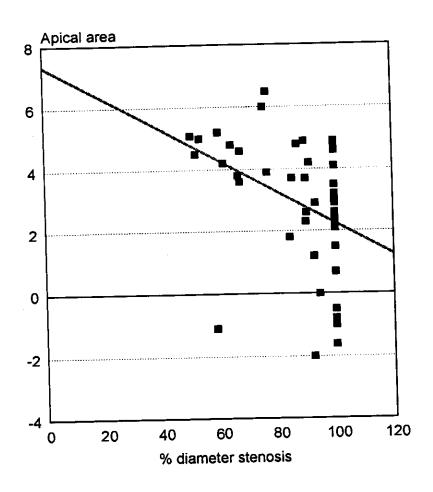


Fig. (17): Correlation between % diameter stenosis and apical area in group A

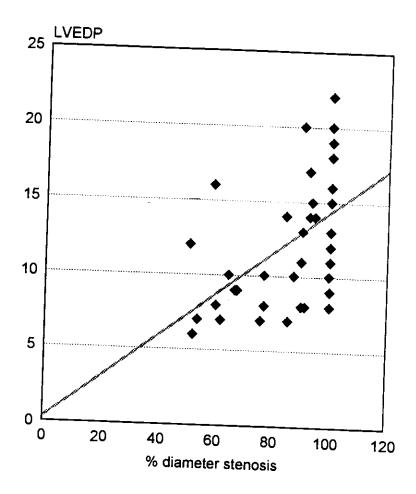


Fig. (18): Correlation between % diameter stenosis and LVEDP area in group A

Table (10)

Correlation between % diameter stenosis and ventricular function in subroup 1

	000.		
		% diameter stenosi	s
Parameter	Correlation Coefficient "r"	P value	Significance
EF	-0.342	>0.05	Not significant
Antero <b>bas</b> al	-0.387	>0.05	Not significant
Aterolateral	-0.406	<0.05	Significant
Apical	-0.370	>0.05	Not significant
LVEDP	0.440	<0.05	Significant
		<u> </u>	

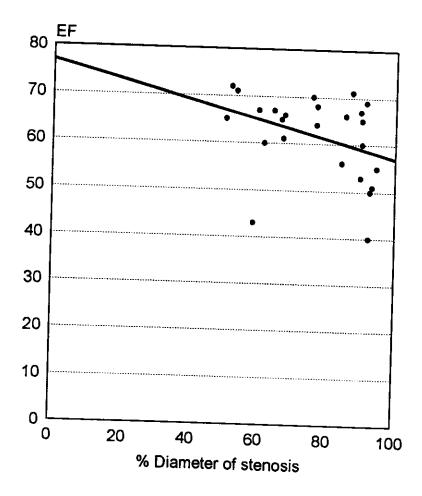


Fig. (19): Correlation between % diameter stenosis and ejection fraction in sub-group (1) (n=25)

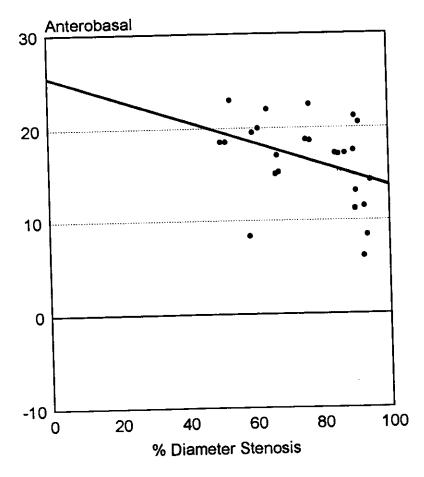


Fig. (20): Correlation between % diameter stenosis and anterobasal area in subgroup (1)

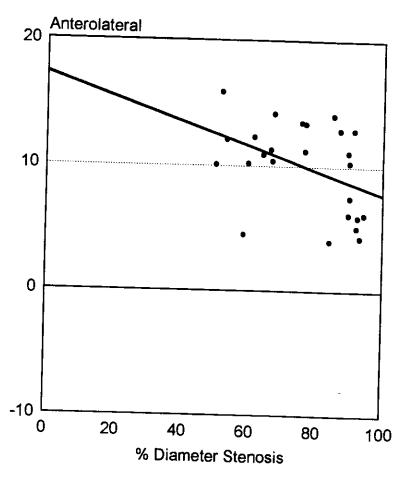


Fig. (21): Correlation between % diameter stenosis and anterolateral area in subgroup (1)

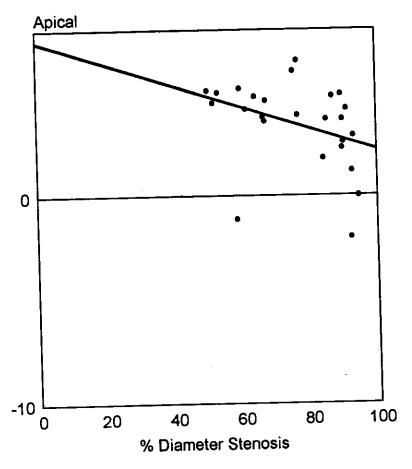


Fig. (22): Correlation between % diameter stenosis and apical area in subgroup (1)

Table (11)
Effect of CTFC on systolic function and LVEDP in subgroup 1

								aupgrou	ρ.
ltem	CTFC	<u>&lt;</u> 27	(n=17)	CTFC	>2	7 (n=8)	"t" value	P value	Significance
	Mean	±	SD	Mean	±	SD			
	İ						<del> </del>		
Ejection fraction	66.71	±	3.33	51.00	±	6.68	7.940	<0.01	Highly significant
Anterobasal area	18.94	±	2.37	11.26	±	3.62	6.378	<0.01	Highly significant
Anterolateral area	12.16	±	1.68	5.44	±	1.18	10.139	<0.01	Highly significant
Apical area	4.62	±	0.41	0.96	±	1.81	7.061	<0.01	Highly significant
LVEDP	8.59	#	1.62	15.68	±	2.26	8.596	<0.01	Highly significant
		_		—— <u>—</u>				[	

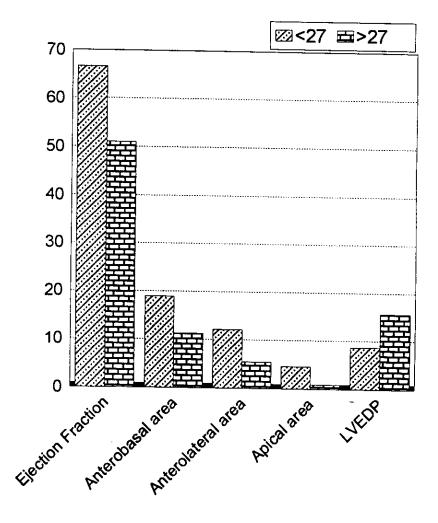


Fig. (24): Effect of CTFC on systolic function and LVEDP in subgroup (1)

Table (12)

Correlation between CTFC and ventricular function in subroup 1

Parameter		CTFC	
ralallietei	Correlation Coefficient "r"	P value	Significance
EF	-0.864	<0.01	Highly significant
Anterobasal	-0.781	<0.01	Highly significant
Aterolateral	-0.889	<0.01	Highly significant
Apical	-0.815	<0.01	Highly significant
LVEDP	0.819	<0.01	Highly significant

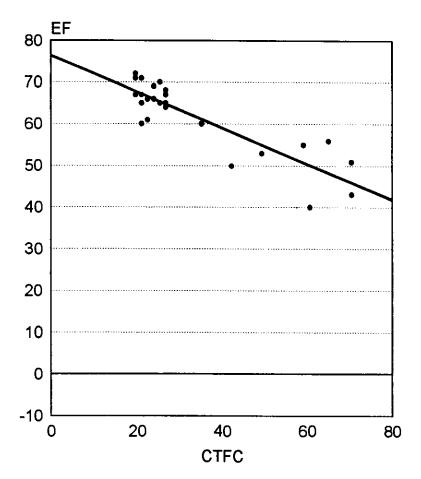


Fig. (25): Correlation between CTFC and ejection fraction in subgroup (1)

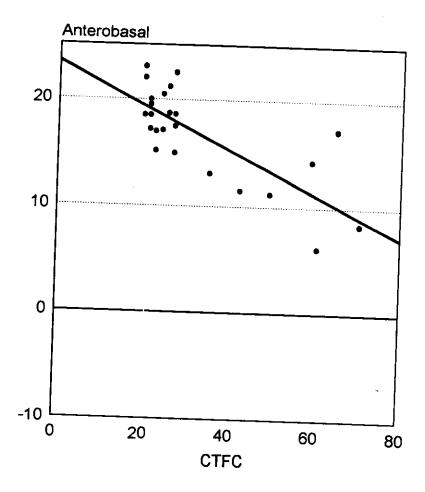


Fig. (26): Correlation between CTFC and anterobasal area in subgroup (1)

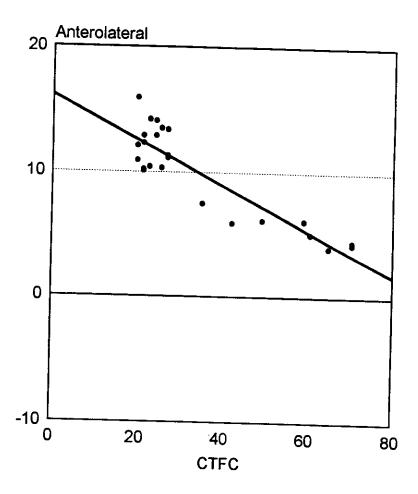


Fig. (27): Correlation between CTFC and anterolateral area in subgroup (1)

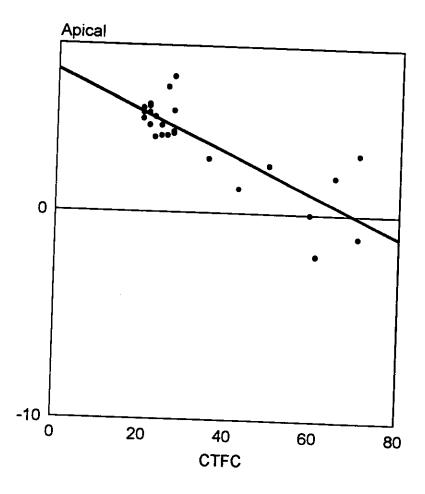


Fig. (28): Correlation between CTFC and apical area in subgroup (1)

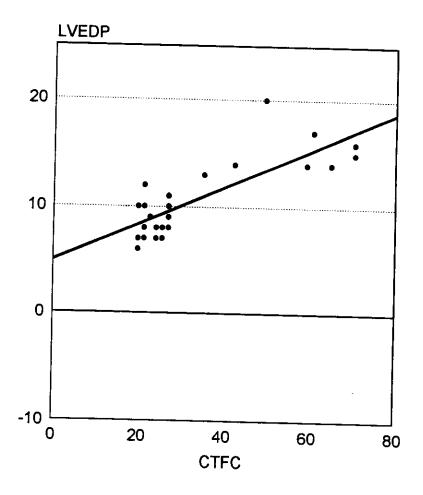


Fig. (29): Correlation between CTFC and LVEDP in subgroup (1)

Table (13)

Effect of collateral flow on systolic function and LVEDP in Group A

Item	Well de (grade		•	Abser (grade		-	"t" value	P value	Significance
	Mean	±	SD	Mean	±	SD			
Finalian familian	50.00		<i>E</i>	55.07		40.04	2.254		
Ejection fraction	52.62	±	5.53	55.97	±	12.24	0.951	>0.05	Not significant
Anterobasal area	11.19	±	2.94	13.27	±	6.71	1.072	>0.05	Not significant
Anterolateral area	7.65	±	1.61	7.94	±	4.69	0.221	>0.05	Not significant
Apical area	3.06	±	1.81	2.79	±	2.17	0.401	>0.05	Not significant
LVEDP	11.69	±	2.53	13.05	±	5.19	0.905	>0.05	Not significant

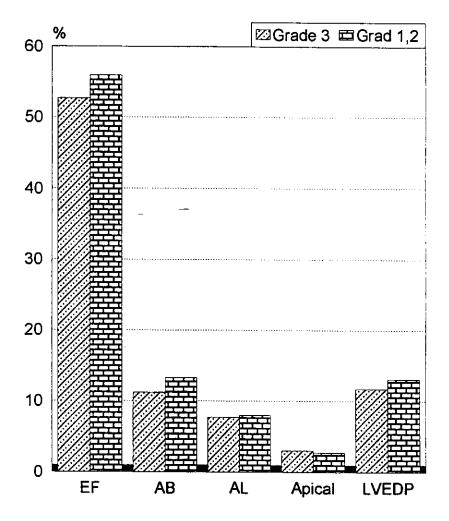


Fig. (30): Effect of coronary collateral flow on systolic function and LVEDP in group A

Table (14)

Effect of collateral flow on systolic function and LVEDP in subgroup 1

Item	Well de (grade			Absen (grade		-	"t" value	P value	Significance
	Mean	±	SD	Mean	±	SD			
Ejection fraction	47.00	±	3.08	63.68	±	6.98	3.925	<0.01	Highly significant
Anterobasal area	8.67	±	2.71	17.55	±	3.65	4.039	<0.01	Highly significant
Anterolateral area	5.10	±	0.80	10.68	±	3.22	2.939	<0.01	Highly significant
Apical area	0.70	±	2.49	3.82	±	1.80	2.713	<0.01	Highly significant
LVEDP	15.33	±	1.53	10.14	±	3.47	2.525	<0.01	Highly significant

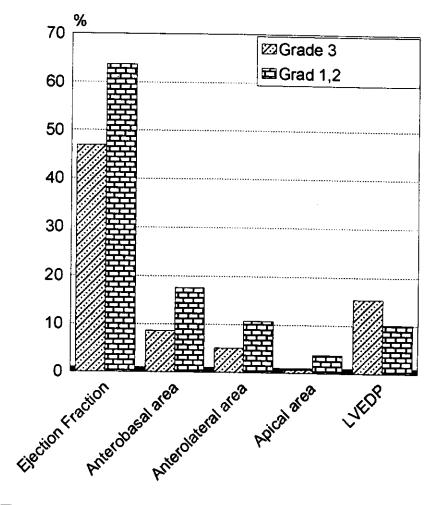


Fig. (31): Effect of coronary collateral flow on ventricular function and LVEDP in subgroup (1)

Table (15)

Effect of collateral flow on systolic function and LVEDP in subgroup 2

Item	Well dev	-	Poor (	gra =1:		"t" value	P value	Significance
	Mean ±	SD	Mean	±	SD			
Ejection fraction	54.30 ±	4.35	44.67	±	9.04	3.120	<0.01	Highly significant
Anterobasal area	11.95 ±	2.67	7.00	±	5.10	2.809	<0.05	Significant
Anterolateral area	8.41 ±	0.71	3.92	±	3.44	4.039	<0.01	Highly significant
Apical area	3.77 ±	0.76	1.28	±	1.76	4.201	<0.01	Highly significant
LVEDP	10.60 ±	1.51	17.33	±	4.25	4.781	<0.01	Highly significant
					<u> </u>			

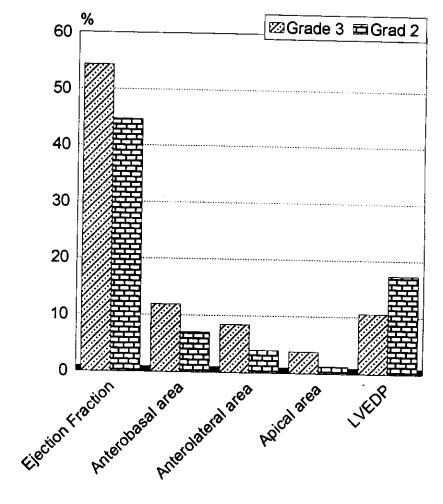


Fig. (32): Effect of coronary collateral flow on ventricular function and LVEDP in subgroup (2)

Table (16)

Effect of lesion length on systolic function and LVEDP in subgroup 1

Item	Lesion length <10mm (n=15)	Lesion length 10- 20mm (n=10)	"t" value P value	Significance
	Mean ± SD	Mean ± SD		
Ejection fraction	60.73 ± 10.3	63.10 ± 5.74	0.656 >0.05	Not significant
Anterobasal area	15.25 ± 4.70	18.33 ± 3.90	1.713 >0.05	Not significant
Anterolateral area	9.91 ± 3.84	10.16 ± 3.25	0.167 >0.05	Not significant
Apical area	3.33 ± 2.61	3.63 ± 1.08	0.347 >0.05	Not significant
LVEDP	10.93 ± 3.47	10.50 ± 4.20	0.281 >0.05	Not significant
	<u></u>			

Table (A): Clinical, laboratory and angiographic data in Group A (n=50)

e % Stenose	92	53.35	76.87	100	90.1	84.34	92	91.32	58.62		88														
Site	۵	۵	Σ	۵	۵	Σ	Σ	Σ	<u>a</u>	_	_	1	Σ	T T Z V											
Creat		0.7	9.0	6.0	6.0	6.0	0.7	1.1	1.3		ر ان	8.0	0.8 0.6	8.0 8.0 6.0	8.0	0.0 0.9 0.0 0.1	0.0 0.9 0.9 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.8 0.9 0.9 0.9 0.7 0.8	6.0 6.0 6.0 6.0 7.0 6.0 6.0 7.0 6.0 6.0 6.0 7.0 6.0 6.0 6.0 7.0 6.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	6.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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Smoke	Yes	Yes			Υes	Yes		Υes					Yes	Yes	Yes Yes	Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes
ΣO									Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes	Yes Yes Yes	Yes Yes Yes Yes
Ž			Yes	Yes		Yes	Υes		Yes			Yes	Yes	Yes	Yes Yes Yes	Yes Yes	Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes	Yes	Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes	Yes Yes Yes
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Table (A) Cont.: Clinical, laboratory and anglographic data in Group A (n=50)

Ves         A-Basal           Yes         46         6.5           Yes         64         22.5           Yes         65         21.2           Yes         60         17           Yes         60         17           Yes         60         20.5           Yes         49         11.2           Yes         60         20           Yes         60         20           Yes         56         10.1           Yes         56         10.4           Yes         56         10.4           Yes         56         11.5           Yes         56         11.5           Yes         56         10.4           Yes         56         11.5           Yes         56         11.5           Yes         56         11.5           Yes         49         8.7           Yes         49         8.7	5	TEC I AD	7	7								
Yes         71         23         12.1         5         14.2         15           8         Yes         71         23         12.1         5         12         189           4         Yes         64         22.5         11.2         3.9         12.8         14.5           4         Yes         65         21.2         10.3         3.7         13.1         17.1           4         Yes         65         21.2         10.3         3.7         13.1         17.1           6         Yes         65         21.2         10.3         3.7         13.1         17.1           7         Yes         60         17.2         4         1.8         15.3         17.8           8         7.6s         60         17.2         4.5         4.5         14.2         15.9           9         Yes         60         17.2         12.9         4.5         14.2         15.9           1         Yes         65         15.2         10.9         4.8         14.5         16.2           1         Yes         40         11.2         7.9         2.9         14.9         16.5	1			7 5	2	<b>t</b>	A-Basal	A-Lateal	Apical	Diaph	P-Basal	LVEDP
Yes   Yes   71   23   121   5   12   189     Yes   Yes   64   225   112   39   128   145     4				Xes Xes		46	6.5	6.8	2.3	14.2	Ę.	7
8         Yes         64         22.5         11.2         3.9         12.8         14.5           4         Yes         65         21.2         10.3         3.7         13.1         17.1           1         Yes         66         21.2         10.3         3.7         13.1         17.1           1         Yes         60         17.2         4         18         15.3         17.8           5         Yes         60         17.2         4         18         15.3         17.8           5         Yes         60         17.2         4.5         14.2         15.1         15.9           5         Yes         63         20.5         12.9         4.2         15.1         15.9         17.8           6         7         15         11.3         3.8         14.5         16.2         18.9         14.5         16.5         18.9         14.5         16.5         16.9         18.9         16.5         16.9         17.1         16.9         18.9         14.5         16.5         16.9         16.9         16.9         16.9         16.9         16.9         16.0         16.0         16.0         16.0 <t< td=""><td></td><td>19.7</td><td><b>×es</b></td><td></td><td></td><td>71</td><td>ន</td><td>12.1</td><td>S</td><td>2</td><td>48.0</td><td>2 1</td></t<>		19.7	<b>×es</b>			71	ន	12.1	S	2	48.0	2 1
Ves         45         59         49         3.2         17.0         14.5           1         Yes         65         21.2         10.3         3.7         13.1         17.1           1         Yes         60         17.2         4         18         15.3         17.8           5         Yes         60         17.2         4         18         15.3         17.8           5         Yes         60         17.2         4         18         15.3         17.8           5         Yes         60         20.5         12.9         4.2         15.1         15.9         17.8         17.		26.8	Xex			2	22.5	11.2	3.0	40,0	5.0	-
4         Yes         65         27.2         10.3         3.7         13.1         17.1           6         7         69         7         92         3.5         14.2         15.3         17.8           7         96         17         92         3.5         14.2         15.1         17.1           8         Yes         69         20.5         12.9         4.2         15.1         15.9           8         Yes         63         20.5         12.9         4.2         15.1         15.9           7         Yes         65         15         11.3         3.8         14         16.2           7         Yes         67         22         10.9         4.8         14.5         15.5           7         Yes         60         6.1         5.1         2.9         14.3         15.2           8         Yes         60         20         12.3         4.2         16.3         17.6           9         Yes         56         10.1         89         3.5         14.3         16.2         16.3           9         Yes         56         10.4         89         3.8 <t< td=""><td></td><td></td><td></td><td>Yes</td><td></td><td>45</td><td>5.9</td><td>6.4</td><td>3.2</td><td>1 2 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>0.00</td><td>2</td></t<>				Yes		45	5.9	6.4	3.2	1 2 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.00	2
Yes         56         172         4         18         15.1         17.1           Yes         60         17         92         35         14.2         15.1         17.8           Yes         69         205         129         4.2         15.1         15.2         15.2         15.2         15.2         15.2         15.1         15.2         15.2         15.2         15.3         14.4         16.2 <td><math>\overline{}</math></td> <td>25.4</td> <td>!</td> <td>×es</td> <td></td> <td>88</td> <td>212</td> <td>10.3</td> <td>27</td> <td>2 5</td> <td>0.0</td> <td>م ا</td>	$\overline{}$	25.4	!	×es		88	212	10.3	27	2 5	0.0	م ا
Yes         FORM		8		Yes		g	47.0	2	3	- 2	17.1	80
Vess         Vess <th< td=""><td></td><td></td><td></td><td></td><td>8</td><td>8</td><td>7.1</td><td>4</td><td>20</td><td>15.3</td><td>17.8</td><td>14</td></th<>					8	8	7.1	4	20	15.3	17.8	14
5         Vees         43         83         4.5         -1.1         15.4         16.2           8         Yes         45         -1.1         15.4         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.3         16.2         16.2         16.2	_	24		3	2	3	-	9.2	3.5	14.2	15	80
Ves         43         83         45         -1.1         15.4         16.2           8         Yes         15         11.3         3.8         14         16		302		188		8	20.5	12.9	4.2	15.1	15.9	80
Ves         Ves         15         11.3         3.8         14         16         16         16         16         16         16         16         16         16         16         16         16         16         18.9         7         Ves         67         22         10.9         4.8         14.5         15.5         <		0 6	<b>88</b>			43	8.3	4.5	1.1	15.4	16.2	9
Yes         30         2         -1.5         -0.5         16         18.9           7         Yes         67         22         10.9         48         14.5         15.5           7         Yes         49         11.2         7.9         2.9         14.5         15.5           7         Yes         40         61         5.1         -2         16.2         16.3           7         Yes         56         10.1         8.9         3.5         14.9         20.1           7         Yes         57         13.3         7.5         3.1         15.4         17.6           8         Yes         56         10.4         8.9         3.8         14.3         19         2.1           Yes         50         11.5         5.9         1.2         14.3         19         2.1           Yes         56         10.4         8.9         3.8         14.3         19         2.1           Yes         56         11.5         5.9         1.2         16.5         18.5         1           Yes         70         18.7         7.2         1.5         15.1         17.1         17.1		99	488			8	15	11.3	3.8	4	9	σ
Yes         67         22         109         48         14.5         155           Yes         49         11.2         7.9         2.9         14.5         15.5           Yes         40         61         51         -2         15.2         16.3           Yes         56         10.1         89         3.5         14.9         20.1           Yes         60         20         12.3         4.2         10.5         16.2           Yes         61         17         10.4         8.9         3.6         17.6         17.6           Yes         56         10.4         8.9         3.8         14.3         19         2           Yes         50         11.5         5.9         1.2         15.1         16.2           Yes         56         11.5         5.9         1.2         15.1         18.5         1           Yes         68         18.6         13.4         6.5         12.1         18         17.1         1           Yes         7.2         15.7         15.1         15.1         17.1         1         17.1         1         1         1         1         1				Yes		၉	2	-1.5	-0.5	16	48.0	3   5
Yes         49         11.2         7.9         2.9         14.3         15.2           Yes         40         6.1         5.1         -2         15.2         16.3           Yes         56         10.1         8.9         3.5         14.9         20.1           Yes         57         13.3         7.5         3.1         15.4         17.6           Yes         56         10.4         8.9         3.8         14.3         19         2           Yes         56         11.5         5.9         1.2         15.1         16.3         1           Yes         56         11.5         9.2         4.6         12         18.5         1           Yes         68         18.6         13.4         6.5         12.1         18         8           Yes         70         18.7         7.2         1.5         17.1         1           Yes         49         8.7         7.2         1.5         17.1         1		19.7	Xes			29	22	10.9	8.4	14.5	15.5	<b>1</b> 5
Yes         40         6.1         5.1         -2         15.2         16.3           Yes         56         10.1         89         3.5         14.9         20.1           Yes         60         20         12.3         4.2         10.5         13.5           Yes         57         13.3         7.5         3.1         15.4         17.6           Yes         56         10.4         89         3.8         14.3         19         2           Yes         56         11.5         59         1.2         15.1         16.3         1           Yes         56         11.5         9.2         4.6         12.1         18.5         1           Yes         76s         18.6         13.4         6.5         12.1         18         17.8           Yes         49s         87         7.2         15         15         17.1         1					χes	9	11.2	7.9	2.9	14.3	152	5 5
Yes         56         10.1         8.9         3.5         14.9         20.1           Yes         60         20         12.3         4.2         10.5         13.5           Yes         57         13.3         7.5         3.1         15.4         17.6           Yes         61         17         10.4         8.9         3.6         13.9         16.2           Yes         56         10.4         8.9         3.8         14.3         19           Yes         56         11.5         5.9         1.2         15.1         16.3           Yes         68         18.6         13.4         6.5         12.1         18           Yes         70         18.7         7.2         15         15         17.1         1           Yes         49         8.7         7.2         15         15         17.1         1		3			XeX	8	6.1	5.1	?	15.2	16.3	17
Yes         60         20         12.3         4.2         10.5         13.5           Yes         57         13.3         7.5         3.1         15.4         17.6           Yes         61         17         10.4         3.6         13.9         16.2           Yes         56         10.4         89         3.8         14.3         19           Yes         50         11.5         5.9         1.2         15.1         16.3           Yes         68         18.6         13.4         6.5         12.1         18.5           Yes         70         18.7         7.2         15.1         17.8           Yes         49         8.7         7.2         15         15.1         17.1           Yes         66         17.1         14.1         27         15.1         17.1         17.1		Č			Se A	8	10.1	8.9	3.5	14.9	20.1	5
Yes         57         13.3         7.5         3.1         15.4         17.6           Yes         61         17         10.4         3.6         13.9         16.2           Yes         56         10.4         89         3.8         14.3         19           Yes         50         11.5         5.9         1.2         15.1         16.3           Yes         56         11.5         9.2         4.6         12         18.5           Yes         68         18.6         13.4         6.5         12.1         18           Yes         70         18.7         7.2         15         17.1         17.8           Yes         86         17.1         14.1         5.7         15         17.1         17.1		71.1	88			8	8	12.3	4.2	10.5	13.5	! ~
Yes         61         17         10.4         3.6         13.9         16.2           Yes         56         10.4         8.9         3.8         14.3         19           Yes         50         11.5         5.9         1.2         15.1         16.3           Yes         F6         11.5         9.2         4.6         12         18.5           Yes         F8         186         13.4         6.5         12.1         18           Yes         70         18.7         7.2         15         17.8         17.1           Yes         86         17.1         14.1         27         15         17.1					×es	22	13.3	7.5	3.1	15.4	17.6	.   ç
Yes         56         10.4         8.9         3.8         14.3         19           Yes         50         11.5         59         1.2         15.1         16.3           Yes         56         11.5         9.2         4.6         12         18.5           Yes         68         18.6         13.4         6.5         12.1         18           Yes         70         18.7         7.2         15         17.8           Yes         49         8.7         7.2         15         15.1		22.5	<b>8</b>		_	9	17	10.4	3.6	13.9	18.2	2 0
Yes         50         11.5         5.9         1.2         15.1         16.3           Yes         Yes         56         11.5         9.2         4.6         12         18.5           Yes         Res         70         18.6         13.4         6.5         12.1         18           Yes         Yes         49         8.7         7.2         1.5         15         17.1		49.4		Yes		æ	10.4	8.9	3.8	14.3	2 0	n 8
Yes         56         11.5         9.2         4.6         12         18.5           Yes         70         18.6         13.4         6.5         12.1         18           Yes         49         8.7         7.2         15         15         17.1           Yes         66         17.1         14.1         2.7         15         17.1		42.3			Yes	જ	11.5	5.9	1.2	15.1	163	3 2
Yes         68         18.6         13.4         6.5         12.1         18           Yes         70         18.7         13.5         6         14.3         17.8           Yes         49         8.7         7.2         1.5         15         17.1					Yes	98	11.5	9.2	4.6	12	18.5	2 2
Yes         70         18.7         13.5         6         14.3         17.8           Yes         49         8.7         7.2         1.5         15         17.1           Yes         66         17.1         14.1         2.7         1.5         1.5         1.7		8.98	Yes	-		88	18.6	13.4	6.5	12.1	ξ   <del>α</del>	2 0
Yes 66 171 141 27 15 15 17.1		25.4	×es	-		2	18.7	13.5	9	14.2	2 4	0 1
Yes 68 171 141 27 1.0				Yes		49	8.7	7.2	, <del>,</del>	2 4	2 1	- :
		<b>54</b>		Yes		88	17.4		0 0	2 9		20

Table (A) Cont.: Clinical, laboratory and angiographic data in Group A (n=50)

155         70         11         1         P         100           130         70         12         1         P         100           120         65         13         0.9         P         100           130         90         12         1         M         67.5           180         90         12         1         M         67.5           180         13         0.8         M         100           150         13         0.9         P         100           150         80         12         0.9         M         100           150         80         12         0.9         M         100           150         80         13         0.7         P         100           150         85         13         0.7         P         100           10         80         12         0.9         M         100           10         10         1         M         100           10         12         0.9         M         100           10         12         0.9         M         100           10	Smoke Old MI HR E
12 1 P P P P P P P P P P P P P P P P P P	Yes Yes 115
65       13       0.9       P         100       12       1       M         100       13       0.6       P         100       13       0.6       P         100       13       1       P         100       12       1       M         100       12       0.9       M         100       13       0.1       M         100       12       0.9       M         100       12       0.9       M         100       12       0.9       M         85       12       0.8       M         100       13       1       M         80       12       0.9       M         80       12       0.9       M         100       13       1       M         80       11       12       0.9         100       13       1       M         100	Yes Yes 100
0     90     12     1     M       0     100     13     0.6     P       0     80     13     0.6     P       0     80     10     0.9     P       0     85     12     1     M       0     80     12     0.9     M       0     75     13     0.8     P       1     70     1     M     P       100     12     0.9     M     P       100     12     0.9     M     P       86     12     0.9     M     P       100     1     0.8     M     P       80     12     0.9     M     P       80     12     0.9     M     P       80     11     0.9     M     P       100     13     1     M     P       80     11     12     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     10     1     1     1<	Yes Yes 100
100 13 0.6 P	Yes 62
0     80     13     0.8     M       100     13     1     P     P       100     12     1     M     P       100     12     0.9     M     P       100     13     1.1     M     P       100     13     0.8     P     P       100     13     1     P     P       100     12     0.9     M     P       100     12     0.9     M     P       100     12     0.9     M     P       86     12     0.9     M     P       90     12     0.9     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M     P       100     13     1     M <t< td=""><td>Yes 80</td></t<>	Yes 80
100 13 1 P P P P P P P P P P P P P P P P P	Yes Yes 72
86 10 0.9 P 86 12 1 M 80 12 0.9 M 90 13 0.8 P 80 13 0.7 P 80 12 0.9 M 100 12 0.9 M 100 12 0.9 M 100 12 0.7 P 85 12 0.8 M 86 12 0.9 M 100 11 0.8 M 80 12 0.9 M 100 11 0.8 M 80 12 0.9 M 100 11 0.8 M 80 12 0.9 M	74
85       12       1       M         90       12       0.9       M         10       90       13       1.1       M         10       75       10       1       M       P         10       13       0.7       P       P       P         100       12       0.9       M       P       P         100       12       0.9       M       P       P         85       12       0.8       M       P       P         90       12       0.9       M       P       P         100       13       1       M       P         80       11       1.2       M       P         100       13       1       M       P         100       13       1       M       P         100       13       1       M       P	Yes Yes 66
90 12 0.9 M 75 13 0.8 P 75 10 10 P 80 13 0.7 P 80 12 0.9 M 70 10 1 M 100 12 0.9 M 100 12 0.9 M 100 12 0.9 M 100 12 0.9 M 85 12 0.8 M 90 12 0.9 M 100 11 0.8 M 100 12 0.9 M	Yes 96
90     13     1.1     M       75     13     0.8     P       80     13     0.7     P       85     13     1     P       60     12     0.9     M       70     10     1     M       100     12     0.7     P       85     12     0.8     M       90     12     0.9     M       80     11     M     M       80     11     M     M       100     13     1     M       100     13     1     M       70     10     13     1     M	Yes Yes 76
75     13     0.8     P       80     13     0.7     P       85     13     1     P       60     12     0.9     M       70     10     1     M       100     12     0.7     P       100     11     0.8     M       85     12     0.9     M       90     12     0.9     M       80     11     M       100     13     1     M       70     10     1.3     P	Yes Yes 108
75     10     1     M       80     13     0.7     P       85     12     0.9     M       70     10     1     M       100     12     0.7     P       100     11     0.8     M       85     12     0.9     M       90     12     0.9     M       100     13     1     M       80     11     1.2     M       100     13     1     M       70     10     1.3     P	Yes 64
85 13 0.7 P P 60 13 0.7 P P 10 P P 10 P P 10 P P P 10 P P P P 10 P P P P	Yes 100
85     13     1     P       70     12     0.9     M       70     12     0.9     M       100     12     0.7     P       100     11     0.8     M       85     12     0.8     M       90     12     0.9     M       100     13     1     M       80     11     1.2     M       80     11     1.2     M       70     10     1.3     P	Yes Yes 100
60         12         0.9         M           70         10         1         M           100         12         0.7         P           100         11         0.8         M           85         12         0.8         M           90         12         0.9         M           100         13         1         M           80         11         1.2         M           100         13         1         M           70         10         1.3         P	Yes Yes 100
70     10     1     M       100     12     0.7     P       100     11     0.8     M       80     12     0.9     M       100     13     1     M       80     11     1.2     M       100     13     1     M       70     10     1.3     P	Yes 90
100 12 0.7 P 100 11 0.8 M 85 12 0.8 M 90 12 0.9 M 100 13 1 M 100 11 1.2 M 70 10 1.3 P	Yes Yes 66
100 11 0.8 M 85 12 0.8 M 90 12 0.9 M 100 13 1 M 100 13 1 M 70 10 13 P	62
85 12 0.8 M 90 12 0.9 M 100 13 1 M 80 11 1.2 M 70 10 1.3 P	Yes 72
90 12 0.9 M 100 13 1 M 80 11 1.2 M 70 10 1.3 P	yes Yes 96
100 13 1 M 80 11 1.2 M 100 13 1 M 8	Yes Yes 62
80 11 1.2 M 100 13 1 M 8 70 10 1.3 P	8
100 13 1 M 70 10 1.3 P	Yes Yes 64
70 10 1.3 P	Yes 110
	Yes Yes 115

Table (A) Cont.: Clinical, laboratory and angiographic data in Group A (n=50)

Yes         30         -4         0.9         0.7         13.2         19           Yes         48         7.2         7.5         2.1         12.2         15.2           Yes         48         10.2         7.3         3.1         13.9         12.8           Yes         51         8.2         8.3         4.1         13.5         16.2           Yes         51         8.2         8.3         4.1         13.5         16.2           Yes         51         13.3         3.5         3         16.0         17.           Yes         50         9.9         9         4.8         11.5         16.2           Yes         50         13.1         7.5         2.6         16.2         20           Yes         50         13.1         7.5         2.6         16.2         20           7         17.5         11.1         4.9         16.1         20           8         14         7.5         3.1         16.2         20           9         7         5.2         1.1         12.9         18.8           7         18.5         10.4         3         2.6	Length	CTFC LAD	- 8	Coll 2	Coll 3	EF	A-Racal	A. J. stoot	A second			!
25         Yes         45         7.2         7.5         2.1         12.2         15.2           25         Yes         46         7.2         7.5         2.1         12.2         15.2           25         Yes         48         10.2         7.3         3.1         13.6         12.8           25         Yes         54         15.2         14.2         4.6         16.2         17.8           35         Yes         54         13.3         3.5         3         16.6         17.8           35         Yes         50         9.9         9         4.8         11.5         16.7           32         Yes         50         9.9         9         4.8         11.5         16.2           32         Yes         60         13.1         7.5         2.9         16.2         20           32         Yes         60         13.1         7.5         2.6         16.2         20           38         Yes         67         17.2         12.9         4.8         16.8         17.3           4.6         Yes         7.6         7.2         2.5         1.6         17.3         17.3 <td><b>†</b></td> <td></td> <td></td> <td>\ \ \ \</td> <td></td> <td>i</td> <td></td> <td>ט-נפונים:</td> <td>Apicai</td> <td>Claph</td> <td>P-Basal</td> <td>LVEDP</td>	<b>†</b>			\ \ \ \		i		ט-נפונים:	Apicai	Claph	P-Basal	LVEDP
766         765         7.2         7.5         2.1         12.2         15.2           25         Yes         48         10.2         7.3         3.1         13.9         12.8           25         Yes         66         15.2         14.2         4.6         14.1         20           25         Yes         54         13.3         3.5         3         16.6         17           25         Yes         51         8.4         4.3         2.9         15.9         16.6         17           26         Yes         50         9.9         9         4.8         16.2         17           27         Yes         60         13.1         7.5         2.6         16.2         20           38         Yes         66         6         -0.8         11.1         20         17.8         17.8           1.         Yes         67         17.5         11.1         4.9         16.1         20         17.3           1.         Yes         67         18.5         12.9         4.8         16.8         17.3         17.3           1.         Yes         7         2.2         2.5	$\top$			ß		3	4	6.0	0.7	13.2	19	8
25         Yes         48         102         7.3         3.1         139         128           25         Yes         152         142         4.6         14.1         20           35         Yes         51         82         83         4.1         13.5         16           35         Yes         54         13.3         3.5         3         16         17           35         Yes         54         13.3         3.5         3         16         17           32         Yes         50         9.9         9         4.8         115         15.2           32         Yes         60         13.1         7.5         2.6         16.2         20           38         Yes         60         13.1         7.5         2.6         16.2         20           3.8         Yes         67         17.5         11.1         4.9         16.1         20.1           3.8         Yes         67         18.5         12.1         12.9         4.8         16.8         17.3           4.9         Yes         7.2         18.5         1.4         18.8         1.4         18.8         <	_			<b>88</b>		45	7.2	7.5	2.1	12.2	15.2	8
25         Yee         Yee         51         82         46         142         46         141         20           35         Yes         54         133         35         3         166         17           35         Yes         54         133         35         3         166         17           35         Yes         54         133         35         3         166         17           32         Yes         50         99         9         48         115         152           32         Yes         60         131         75         26         162         20           32         Yes         60         131         75         26         162         20           38         Yes         67         175         111         49         161         201           38         Yes         67         172         129         4.8         168         173         178           4         Yes         7         22         7         25         16         168         179         168         179         168         179         168         179         168					Yes	<b>&amp;</b>	10.2	7.3	3.1	13.9	128	3 =
3.5         Yes         51         8.2         8.3         4.1         13.5         16           3.5         Yes         54         13.3         3.5         3         16.6         17           3.2         Yes         54         13.3         3.5         3         16.6         17           3.2         Yes         50         9.9         9         4.8         11.5         15.2           3.2         Yes         60         13.1         7.5         2.6         16.2         20           3.2         Yes         60         13.1         7.5         2.6         16.2         20           3.8         Yes         67         17.5         11.1         4.9         16.1         20.1           3.8         Yes         67         17.5         11.1         4.9         16.1         20.1           3.1         Yes         67         17.2         12.9         4.8         16.8         17.3           3.1         Yes         39         7         5.2         -1         12.9         18.8         1           3.1         Yes         52         10.4         3         2.6         16.1		22.5	Yes			88	15.2	14.2	4.6	141	2 6	
D5         Ves         54         13.3         3.5         3         166         17           D5         Ves         51         8.4         4.3         2.9         159         19.5           S2         Ves         50         9.9         9         48         11.5         15.2           S2         Ves         60         13.1         7.5         2.6         16.2         20           S8         Ves         60         14         7.5         3.1         15.2         20           S8         Ves         67         17.5         11.1         4.9         16.1         20           S8         Ves         67         17.5         11.1         4.9         16.1         20           S8         Ves         71         17.2         12.9         4.8         16.8         17.3         17           S6         Ves         39         7         5.2         -1         12.9         14.8         16.8         17.9         2           S7         Ves         52         10.4         3         2.6         16         20         1           S8         Ves         52         18.5 <td></td> <td></td> <td></td> <td></td> <td>Yes</td> <td>સ</td> <td>8.2</td> <td>8.3</td> <td>1.4</td> <td>13.5</td> <td>3 4</td> <td>5 C</td>					Yes	સ	8.2	8.3	1.4	13.5	3 4	5 C
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5.2         Yes         60         13.1         7.5         2.6         16.2         20           1.8         Yes         46         9.6         6         -0.8         11.2         20           1.8         Yes         67         17.5         11.1         4.9         16.1         20.1           1.         Yes         71         17.2         12.9         4.8         16.8         20.1           1.         Yes         39         7         5.2         -1         12         17.3           1.         Yes         39         7         5.2         -1         12         15.8         2            1.         Yes         45         1.5         4.5         14.1         18.8         17.3           1.         Yes         52         10.4         3         2.6         16         20         1           1.         Yes         65         18.5         10.1         5.1         12.9         18         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	$\rightarrow$				Yes	S	66	σ	48	14 7		2 5
Yes         58         14         7.5         3.1         15.3         17.8           1.8         Yes         46         9.6         6         -0.8         11.2         20           1.1         Yes         67         17.5         11.1         4.9         16.1         20.1           1.         Yes         67         17.5         11.1         4.9         16.1         20.1           1.         Yes         39         7         5.2         -1         1.2         17.3           1.         Yes         39         7         5.2         -1         1.2         15.8         17.3           1.         Yes         45         1.2         2.5         16         16.8         17.3         17.8         17.9         18           1.         Yes         52         10.4         3         2.6         16         20         18         19         18         19         11         19         18         19         18         19         18         19         18         19         11         19         11         19         11         11         19         11         11         11         11		35.2		×es		8	13.1	7.5	2 6	0 4	70	2 !
1.68         46         9.6         6         -0.8         11.2         20         17.8         17.8         17.1         49.8         11.2         20.1         17.8         17.1         49.8         11.2         20.1 <td></td> <td></td> <td></td> <td>×es</td> <td></td> <td>88</td> <td>4</td> <td>7.5</td> <td>21</td> <td>10.2</td> <td>8</td> <td>9</td>				×es		88	4	7.5	21	10.2	8	9
1.1         Yes         67         17.5         11.1         4.9         16.1         20           1.1         Yes         71         17.5         11.1         4.9         16.1         20.1           1.         Yes         39         7         5.2         -1         12         15.8           1.         Yes         45         2         7.2         25         16         16.8           1.         Yes         72         18.5         15.9         4.5         16         16.8           1.         Yes         52         10.4         3         2.6         16.8         16.8           1.         Yes         65         18.5         10.1         5.1         14.1         18.8           1.         Yes         65         18.5         10.1         5.1         12.9         18           1.         Yes         43         13.2         -1         -0.8         17.9         2           1.         Yes         43         13.2         -1         -0.8         13.9         17.9         2           1.         Yes         56         14.5         10.2         5.2         13.9				Yes		8	40	2 (4	- o	5.0	8./_	တ
1         Yes         71         172         129         48         168         173           Yes         39         7         5.2         -1         12         15.8           7         Yes         45         2         72         25         16         16.8           1         Yes         72         18.5         15.9         4.5         16         16.8           1         Yes         52         10.4         3         2.6         16         20           1         Yes         65         18.5         10.1         5.1         12.9         18           1         Yes         65         18.5         10.1         5.1         12.9         18           1         Yes         57         86         4         2.9         12.4         15.3           1         Yes         67         19.5         10.2         5.2         13.9         17.9           2         Yes         56         14.3         6.1         0         15.2         17.1         13.9           3         Yes         56         14.3         6.1         0         15.1         17.1         17.2	<b>—</b>	26.8		Yes		29	17.5	2 -	9 0	7.1.	8	15
Yes         39         7         52         -1         12         15.8         17.3           7         Yes         45         2         72         25         16         15.8         17.3           7         Yes         72         18.5         10.4         3         2.6         16         20           1         Yes         65         18.5         10.1         5.1         12.9         18           Yes         57         86         4         2.9         12.4         15.3           Yes         76s         15.2         10.1         5.1         12.9         18           Yes         58         15.2         8         4.9         12.4         16.3           Yes         67         19.5         10.2         5.2         13.9         15           Yes         76s         14.3         6.1         0         15         17         1           Yes         56         14.3         6.1         0         15.2         13.9         15         1           Yes         7es         16.5         16.5         16.5         17.1         17         1           1	_	21.1		X <b>6</b> 8		7	17.0	120	D C	0 9	1.07	
Yes         45         2         72         15         15         15         15           17         Yes         45         2         72         185         16         16         16         16         16         16         16         16         16         16         16         20         16         20         17         16         20         16         20         16         20         16         20         17         20         18         10         16         20         18         10         12         18         18         10         12         18<				Xes.		99	7.	6.7	ó,	89	17.3	9
7         Ves         72         185         15.9         4.5         16.1         16.8           1         Yes         52         10.4         3         2.6         16.         20           1         Yes         65         18.5         10.1         5.1         12.9         18           1         Yes         57         8.6         4         2.9         12.4         15.3           1         Yes         58         15.2         8         4.9         17.9         15.9           1         Yes         67         19.5         10.2         5.2         13.9         15           2         Yes         56         14.3         61         0         15         17           2         Yes         56         14.3         61         0         15         17           2         Yes         56         14.3         61         0         15         17           3         7 yes         56         14.3         61         0         15         17	ـــ			Yes		3 ¥	-   (	3.6	- :	12	15.8	8
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1         Ves         10.4         3         2.6         16         20           1         Ves         65         18.5         10.1         5.1         12.9         18           1         Yes         57         8.6         4         2.9         12.4         15.3           1         Yes         58         13.2         -1         -0.8         13.9         17.9           1         Yes         67         19.5         10.2         5.2         13.9         15           2         Yes         56         11.5         13.5         2.5         12.1         13           2         Yes         55         14.3         6.1         0         15         17           2         Yes         31         0.6         -2.4         -1.6         15.2         17	L			\ \		7 .	0.0	9.0	6.7	14.1	18.8	9
Yes         65         185         10.1         5.1         12.9         18           Yes         57         8.6         4         29         12.4         15.3           1         Yes         43         13.2         -1         -0.8         13.9         17.9           1         Yes         58         15.2         8         4.9         12.4         16.3           2         Yes         67         19.5         10.2         5.2         13.9         15           2         Yes         56         14.3         6.1         0         15.1         17           3         Yes         31         0.6         -2.4         -1.6         15.2         19.2	1	21.4	\ \ \	3		ן א	10.4	m	2.6	16	8	18
Yes         57         8.6         4         29         12.4         15.3           1         Yes         43         13.2         -1         -0.8         13.9         17.9           1         Yes         58         15.2         8         4.9         12.4         16.3           2         Yes         56         11.5         13.5         2.5         13.9         15           2         Yes         56         14.3         6.1         0         15.1         17           3         Yes         31         0.6         -2.4         -1.6         15.2         192	- 1		<u>B</u>	3		8	18.5	10.1	5.1	12.9	18	12
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1         Yes         Yes         58         15.2         8         4.9         12.4         16.3           2         Yes         67         19.5         10.2         5.2         13.9         15           2         Yes         56         11.5         13.5         2.5         12.1         13           2         Yes         55         14.3         6.1         0         15         17           3         Yes         31         0.6         -2.4         -1.6         15.2         192				Yes		£	13.2	-	-0.8	13.9	17.9	8
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2         Yes         56         11.5         13.5         2.5         12.1         13           2         Yes         55         14.3         6.1         0         15         17           31         0.6         -2.4         -1.6         15.2         19.2	- 1	1.12	, es			29	19.5	10.2	5.2	13.9	15	80
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31 0.6 -2.4 -1.6 15.2 19.2	- 1	28.5		Yes		93	14,3	6.1	0	15	17	14
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 <t Table (B): Clinical, laboratory and anglographic data in Group B (n=20) IW PIO Smoke χes Ύes Yes χes Yes Yes Yes ×es ΣΩ ¥es Yes Χes HTN × • ¥es × 68 × 685 χes ¥es Σ ਘ Σ ≥ ≥ Σ ш **∑** | **∑** Σ Σ Σ щ Σ ட Σ Σ Σ Age **4 & &** % 4 4 47 8 8 8 ₩ 55 49 45 6 \$ 8 55 25 8 8 2

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Table (B) Cont.: Clinicai, laboratory and angiographic data in Group B (n=20)

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2	Length	CTFC LAD	<u>~</u> ≅	Coll 2	Coll 3	出	A-Basal	A-I ateal	Animal	, 1	0.00	i i
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ន		2.1				70	19.2	12	6.2	13.3	18.7	12
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<u>ک</u> ک		19.7				20	20.2	12.6	6.1	13	18	9
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) (2)		21.1				72	20.3	13.2	4.7	15.2	122	σ
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				1		4/	19.6	18.2	5.9	12.2	14.8	o