RESULTS

RESULTS

Table (1) :

Shows that CK- 24h. was greatly increased in gp. I (384.9 ± 173.6) Followed by gp. III (259.4 ± 173.6) and it is moderatly increased in gp.II (167.1±6.9) with statistically significant differences as compared with control group ($P< 0.01$).

Table (2) :

Shows that CK- 48h. was greatly increased in gp. I (588.1 ± 314.5) Followed by gp.III (488.9 ± 314.9) and it is moderatly increased in gp. II (201.5 ± 75.5) with statistically significant differences as compared with control group ($P < 0.01$).

Table (3) :

Shows that CK-72h. was greatly increased in gp. I (339.9 ± 193.2) Followed by gp.III (285.8 ± 139.8) and it is moderatly increased in gp. II (164.7 ± 47.9) with statistically significant differences as compared with control group ($P < 0.01$).

Table (4) :

Shows that AST-24h. was greatly increased in gp. I (106.6 ± 41.6) Followed by gp III (87.8 ± 15.6) and it is moderatly increased in gp. II (23±7.7) with statistically significant differences as compared with control group ($P < 0.05$).

Table (5) :

Shows that AST-48h. was greatly increased in gp. I (177.3 ± 77.6) Followed by gp. III (123.3 ± 23.3) and it is moderatly increased in gp.

II (23.4±6.8) with statistically significant differences as compared with control group ($P < 0.05$).

Table (6) :

Shows that AST-72h. was greatly increased in gp. I (95.8 ± 48.7) Followed by gp. III (62.5 ± 18.8) and it is moderatly increased in gp. II (23.5 ± 7.9) with statistically significant differences as compared with control group ($P < 0.05$).

Table (7) :

Shows that LDH-24h. was greatly increased in gp. I (339.6 ± 191.6) Followed by gp. III (225.3 ± 74.4) and it is moderatly increased in gp. II (102±37.1) with statistically significant differences as compared with control group ($P < 0.05$).

Table (8) :

Shows that LDH-48h. was greatly increased in gp. I (444.5 ± 262.7) Followed by gp. III (338.5 ± 61) and it is moderatly increased in gp. II (107.1±35.2) with statistically significant differences as compared with control group ($P < 0.05$).

Table (9) :

Shows that LDH-72h. was greatly increased in gp.I (5.34.5 ± 302) Followed by gp III (413.9 ± 126.6) and it is moderatly increased in gp. II (110.5±27) with statistically significant differences as compared with control group ($P < 0.05$).

Table (10) :

Shows that CK/AST-24h. was greatly increased in gp. II (8 ± 3.8) Followed by gp. III (3.5 ± 2.1) and it is moderatly increased in gp. I

(3.4±1.4) with statistically significant differences as compared with control group ($P < 0.05$).

Table (11) :

Shows that CK/AST-48h. was greatly increased in gp. II (9.3 ± 4.3) Followed by gp. III (4 ± 2.5) and it is moderatly increased in gp. I (3.3 ±1.1) with statistically significant differences as compared with control group ($P < 0.05$).

Table (12) :

Shows that CK/AST-72h. was greatly increased in gp. II (7.8 ± 3.6) Followed by gp. III (4.8 ± 2.1) and it is moderatly increased in gp. I (3.6±1.2) with statistically significant differences as compared with control group ($P < 0.01$).

Table (13) :

Shows that CK was greatly increased in gp. I at 24, 48 and 72 hours (384.9±230.6), (588.1±314.5) and (339.9±193.2) respectively. Followed by gp. III at 24, 48 and 72 hours (259.4±173.6), (488.9± 314.9) and (285.8±139.8) respectively and it is moderatly increased in gp. II at 24, 48 and 72 hours (167.1±60.9), (201.5±75.5) and (164.7± 47.9) respectively. With statistically significant differences as compared with control group ($P < 0.05$).

Table (14) :

Shows that AST was greatly increased in gp. I at 24, 48 and 72 hours (106.6±41.6), (177.3±77.6) and (95.8±48.7) respectively, with statistically significant differences as compared with control group ($P < 0.01$). Followed by gp. III at 24, 48 and 72 hours (87.8±15.4), (123.3± 23.3) and (62.5±18.8) respectively, with statistically significant

differences as compared with control group ($P < 0.01$). and it is moderatly increased in gp. II at 24, 48 and 72 hours (23±7.7), (23.4± 6.8) and (23.5±7.9) respectively with statistically insignificant differences.

Table (15) :

Shows that LDH was greatly increased in gp. I at 24,48 and 72 hours (339.6±191.6), (44.5±262.7) and (534.5±302) respectively, with statistically significant differences as compared with control group ($P < 0.01$) Followed by gp. III at 24, 48 and 72 hours (225.3±74.4), (338.5± 61) and (413.9±126.6) respectively, with statistically significant differences as compared with control group ($P < 0.05$) and it is moderatly increased in gp. II at 24, 48 and 72 hours (102±37.1), (107.1 ±35.2) and (110.5±27) respectively with statistically insignificant differences.

Table (16) :

Shows that CK/ AST was greatly increased in gp. II at 24, 48, and 72 hours (8±3.8), (9.3±4.3) and (7.8±3.6) respectively with statistically significant differences as compared with control group ($P < 0.05$). Followed by gp. III at 24, 48 and 72 hours (3.5±2.1), (4±2.5) and (4.8± 2.1) respectively with statistically significant differences as compared with control group ($P < 0.05$) and it is moderatly increased in gp. I at 24, 48 and 72 hours (3.4±I.4), (3.3±I.1) and (3.6±1.2) respectively, with statistically insignificant differences.

Table (17) :

Shows a significant positive relationship between all the cardiac enzymes at 24, 48 and 72 hours ($P < 0.05$) except the relation between CK/ AST- 48h. and CK- 24h. as well as CK- 48h.

Table (18) :

Shows a significant positive relationship between the cardiac enzymes at 24, 48 and 72 hours ($P < 0.05$) except the relation between CK-/AST- 24h. and AST- 24h., AST- 48h. as well as AST 72h. and also, except the relation between CK/AST- 72h. and AST- 24h., AST- 48h. as well AST- 72h.

Table (19):

Shows insignificant relationship between CK/AST- 24h., CK/AST- 48h. and CK/AST- 72., and LDH- 24h., LDH- 48h. as well as LDH- 72h.

Table (20) :

Shows that (65%) of gp. I (AMI), (40%) of gp. II (Fallen) and (53.3%) of gp. III (AMI and Fallen) showed high CK levels during the first 24 hours. These percentages increased to (80%), (53.3%) and (66.7%) respectively at 48 hours, then decrease to (60%), (33.3%) and (53.3%) with statistically insignificant differences between the three groups ($P > 0.05$).

Table (21) :

Shows that (60%) of gp. III and (30%) of gp.I had values of CK/AST at 24h. which are diagnostic for ischaemic heart disease with statistically significant differences ($P < 0.05$). At 48h. the percentage of these cases decreased to (46.7%) among gp. III and 25%) among gp. I

with statistically significant differences between gp. I, gp. II and gp. III. another decrease of the percentage of these cases was obtained at 72h. (20% and 10% respectively) with the only significant differences between gp. II and gp. III.

Table (1) :

Comparison Between the Studied Groups Regarding CK at 24 hours

St.gp. CK-24 h.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	384.9	± 230.6	6.385	< 0.01
II- (Fallen) (n = 15)	167.1	± 60.9	8.136	< 0.01
III- (AMI and Fallen) (n = 15)	259.4	± 173.6	5.274	< 0.01
Controls (n = 20) :	55.4	± 8.5	-	-

Table (2) :

Comparison Between the Studied Groups Regarding CK at 48 hours

CK-48 h- St.gp.	$\bar{X}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	588.1	± 314.5	7.572	< 0.01
II- (Fallen) (n = 15)	201.5	± 57.5	8.620	< 0.01
III- (AMI and Fallen) (n = 15)	488.9	± 314.9	6.185	< 0.01
Controls (n = 20) :	55.4	± 8.5	-	-

Table (3) :

Comparison Between the Studied Groups

Regarding CK at 72 hours

St.gp. / CK-72h.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	339.9	± 193.2	6.577	< 0.01
II- (Fallen) (n = 15)	164.7	± 47.9	10.034	< 0.01
III- (AMI and Fallen) (n = 15)	285.8	± 139.8	7.388	< 0.01
Controls (n = 20) :	55.4	± 8.5	-	-

Fig.(1):Comparison between the studied groups regarding CK at different times.

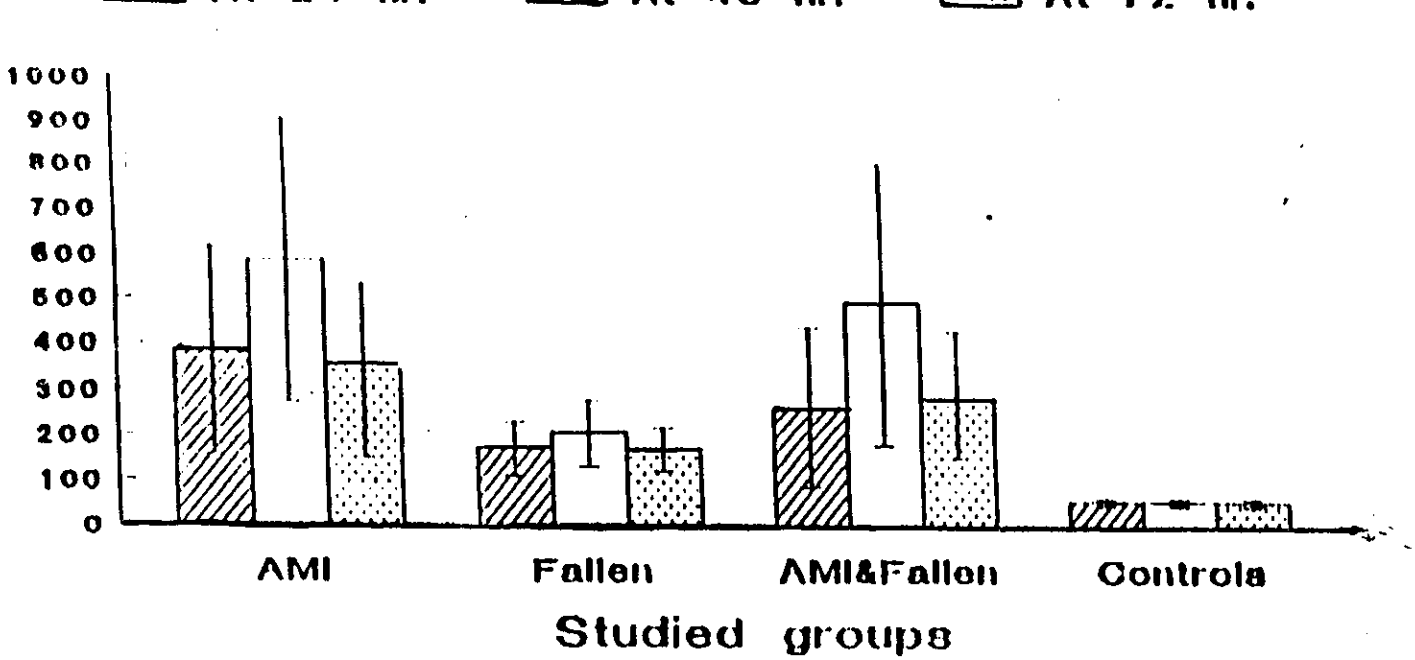

Table (4) :

Comparison Between the Studied Groups

Regarding AST at 24 hours

St.gp. AST-24h.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	106.6	± 41.6	8.285	< 0.01
II- (Fallen) (n = 15)	23	± 7.7	3.114	< 0.05
III- (AMI and Fallen) (n = 15)	87.8	± 15.4	16.474	< 0.001
Controls (n = 20) :	29.2	± 3.8	-	-

Table (5) :

Comparison Between the Studied Groups

Regarding AST at 48 hours

AST-48h· / St.gp.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	177.3	± 77.6	8.827	< 0.01
II- (Fallen) (n = 15)	23.4	± 6.8	3.208	< 0.05
III- (AMI and Fallen) (n = 15)	123.3	± 23.3	17.703	< 0.001
Controls (n = 20) :	29.2	± 3.8	-	-

Table (6) :

Comparison Between The Studied Groups

REgarding AST at 72 hours

St.gp. AST-72h	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	95.8	± 48.7	6.102	< 0.01
II- (Fallen) (n = 15)	23.5	± 7.9	2.825	< 0.05
III- (AMI and Fallen) (n = 15)	62.5	± 18.8	7.730	< 0.01
Controls (n = 20) :	29.2	± 3.8	-	-

Fig.(2):Comparison between the studied groups regarding AST at different times.

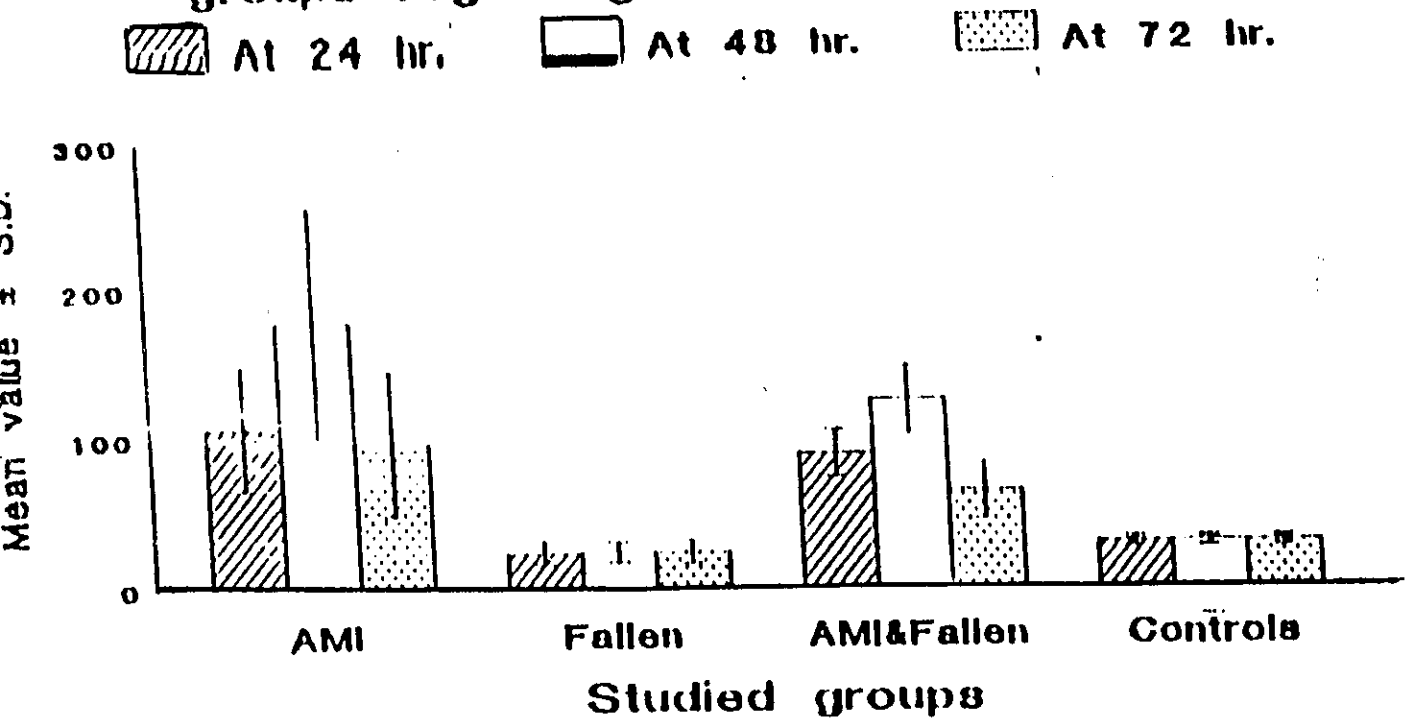

Table (7) :

Comparison Between the studied Groups

Rearding LDH at 24 hours

St.gp. LDH-24h.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	339.6	± 191.6	4.702	< 0.01
II- (Fallen) (n = 15)	102	± 37.1	2.506	< 0.05
III- (AMI and Fallen) (n = 15)	225.3	± 74.4	4.729	< 0.01
Controls (n = 20) :	134.2	± 38	-	-

Table (8) :

Comparison Between the Studied Graups

Regarding LDH at 48 hours

St.gp. / LDH-48h.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	444.5	± 262.7	5.228	< 0.01
II- (Fallen) (n = 15)	107.1	± 35.2	2.156	< 0.05
III- (AMI and Fallen) (n = 15)	338.5	± 61	12.177	< 0.01
Controls (n = 20) :	134.2	± 38	-	-

Table (9) :

Comparison Between the Studied Groups

Regarding LDH at 72 hours

St.gp. / LDH-72 hr.	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	534.5	± 302	5.878	< 0.01
II- (Fallen) (n = 15)	110.5	± 27	2.055	< 0.05
III- (AMI and Fallen) (n = 15)	413.9	± 126.6	9.372	< 0.01
Controls (n = 20) :	134.2	± 38	-	-

Fig.(3):Comparison between the studied groups regarding LDH at different times.

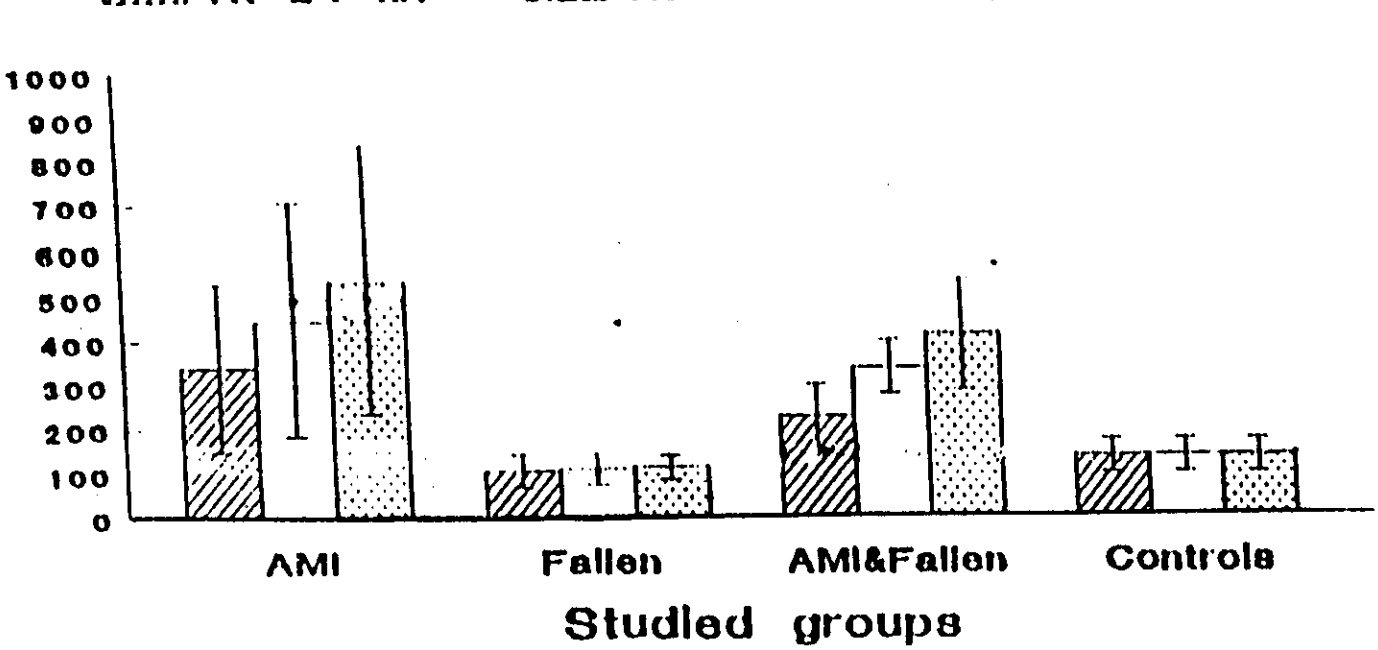

Table (10) :

Comparison Between the Studied Groups

Regarding CK/AST at 24 hours

CK/AST-24h. / St.gp.	$\bar{X}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	3.4	± 1.4	4.770	< 0.01
II- (Fallen) (n = 15)	8	± 3.8	7.240	< 0.01
III- (AMI and Fallen) (n = 15)	3.5	± 2.1	3.345	< 0.05
Controls (n = 20) :	1.9	± 0.3	-	-

Table (11) :

Comparison Between the Studied Groups

Regarding CK/AST at 48 hours

St.gp. CK/AST-48h	$\bar{x}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	3.3	± 1.1	4.175	< 0.01
II- (Fallen) (n = 15)	9.3	± 4.3	7.434	< 0.01
III- (AMI and Fallen) (n = 15)	4	± 2.5	3.429	< 0.05
Controls (n = 20) :	2	± 0.7	-	-

Table (12) :

Comparison Between the Studied Groups Regarding CK/AST at 72 hours

St.gp. / CK/AST-72h	$\bar{X}$	± S.D.	Test of signif. * Controls	
			T	P
I- (AMI) (n = 20)	3.6	± 1.2	5.114	< 0.01
II- (Fallen) (n = 15)	7.8	± 3.6	6.916	< 0.01
III- (AMI and Fallen) (n = 15)	4.8	± 2.1	5.474	< 0.01
Controls (n = 20) :	2	± 0.7	-	-

Table (13) :

Comparison Between the Results of CK at Different Periods (or Occasions) Among the Studied Groups

Results	CK-24 h.	CK-48 h.	CK-72 h.	Test of Significance		
	$\bar{x}$ ± S.D.	$\bar{X}$ ± S.D.	$\bar{X}$ ± S.D.	Between	Pairedt	P
Gp. I (AMI) :	384.9±230.6	588.1±314.5	339.9±193.2	1*2	7.325	< 0.01
				1*3	2.588	< 0.05
				2*3	7.292	< 0.01
Gp. II (Fallen) :	167.1±60.9	201.5±75.5	164.7±47.9	1*2	7.56	< 0.01
				1*3	0.302	> 0.05
				2*3	3.778	> 0.05
Gp. III (AMI and Fallen):	259.4±173.6	488.9±314.9	285.8±139.8	1*2	3.403	< 0.05
				1*3	0.807	> 0.05
				2*3	4.136	< 0.01

Table (14) :

Comparison Between the Results of AST at Different Perieds (or Occasions) Among the Studied Groups

Results	AST-24h.	AST-48h.	AST-72h.	Test of Significance		
	$\bar{x}$ ± S.D.	$\bar{x}$ ± S.D.	$\bar{x}$ ± S.D.	Between	Paired t	P
Gp. I (AMI) :	106.6±41.6	177.3±77.6	95.8±48.7	1*2	5.683	< 0.01
				1*3	1.560	> 0.05
				2*3	8.200	< 0.01
Gp. II (Fallen) :	23±7.7	23.4±6.8	23.5±7.9	1*2	0.462	> 0.05
				1*3	0.739	> 0.05
				2*3	0.093	> 0.05
Gp. III (AMI and Fallen):	87.8±15.4	123.3±23.3	62.5±18.8	1*2	9.662	< 0.01
				1*3	5.664	< 0.01
				2*3	9.682	< 0.08

Table (15) :

Comparison Between the Results of LDH at Different Preiods (or Occasions) Among the Studied Groups

Results	LDH-24h.	LDH-48h.	LDH-72h.	Test of Significance		
	$\bar{x} \pm$ S.D.	$\bar{x} \pm$ S.D.	$\bar{x} \pm$ S.D.	Between	Paired t	P
Gp. I (AMI) :	339.6±191.6	444.5±262.7	534.5±302	1*2	4.667	< 0.01
				1*3	5.473	< 0.01
				2*3	5.063	< 0.01
Gp. II (Fallen) :	102±37.1	107.1±35.2	110.5±27	1*2	0.451	> 0.05
				1*3	0.834	> 0.05
				2*3	0.829	> 0.05
Gp. III (AMI and Fallen):	225.3±74.4	338.5±61	413.9±126.6	1*2	4.875	< 0.01
				1*3	5.067	< 0.01
				2*3	3.204	< 0.05

Table (16) :

Comparison Between the Results of CK/AST at Different Periods (or Occasions) Among the Studied Groups

Results	CK/AST-24 h.	CK/AST-48 h.	CK/AST-72 h.	Test of Significance		
	$\bar{X}$ ± S.D.	$\bar{X}$ ± S.D.	$\bar{X}$ ± S.D.	Between	Pairedt	P
Gp. I (AMI) :	3.4±1.4	3.3±1.1	3.6±1.2	1*2	0.696	> 0.05
				1*3	0.931	> 0.05
				2*3	2.129	< 0.05
Gp. II (Fallen) :	8±3.8	9.3±4.3	7.8±3.6	1*2	3.465	< 0.05
				1*3	0.442	> 0.05
				2*3	2.905	< 0.05
Gp. III (AMI and Fallen):	3.5±2.1	4±2.5	4.8±2.1	1*2	1.338	> 0.05
				1*3	2.884	< 0.05
				2*3	2.829	< 0.05

Table (17) :

Correlation Coefficients (r) & Probability Value of the Variables Related to CK Among the Studied Groups

Variables	CK- 24 h.		CK-48 h.		CK- 72 h.	
	r	p	r	p	r	p
AST-24	0.767	< 0.01	0.780	< 0.01	0.796	< 0.01
AST- 48	0.740	< 0.01	0.764	< 0.01	0.748	< 0.01
AST-72	0.739	< 0.01	0.702	< 0.01	0.772	< 0.01
LDH- 24	0.621	< 0.01	0.551	< 0.05	0.582	< 0.05
LDH-48	0.628	< 0.01	0.587	< 0.05	0.593	< 0.05
LDH-72	0.611	< 0.01	0.576	< 0.05	0.572	< 0.05
CK/AST-24	0.280	< 0.05	0.248	< 0.05	0.281	< 0.05
CK/AST-48	0.177	> 0.05	0.199	> 0.05	0.217	< 0.05
CK/AST-72	0.243	< 0.05	0.284	< 0.05	0.303	< 0.05

Table (18) :

Correlation COefficents (r) & Probability Value of the Varrables Related to AST Among the Studied Groups

Variables	AST- 24 h.		AST-48 h.		AST- 72 h.	
	r	p	r	p	r	p
LDH- 24	0.789	< 0.01	0.671	< 0.01	0.671	< 0.01
LDH-48	0.846	< 0.01	0.745	< 0.01	0.682	< 0.01
LDH-72	0.851	< 0.01	0.757	< 0.01	0.677	< 0.01
CK/AST-24	0.184	≥ 0.05	0.137	≥ 0.05	0.146	≥ 0.05
CK/AST-48	0.235	< 0.05	0.241	< 0.05	0.241	< 0.05
CK/AST-72	0.129	≥ 0.05	0.134	≥ 0.05	0.209	≥ 0.05

Table (19) :

Correlation Coefficient (r) & Probability Value of the Variables Related to LDH Among the Studied Groups

Variables	LDH- 24 h.		LDH-48 h.		LDH- 72 h.	
	r	p	r	p	r	p
CK/AST-24	0.136	> 0.05	0.152	> 0.05	0.163	> 0.05
CK/AST-48	0.175	> 0.05	0.198	> 0.05	0.209	> 0.05
CK/AST-72	0.112	> 0.05	0.103	> 0.05	0.109	> 0.05

Table (20) :

Distribution of Cases with High CK Among the Studied Groups

Highl CK St. Gp.	24 Hrs.					48 Hrs.					72 Hr.				
	No.	%	Test of Proportion			No.	%	Test of Proportion			No.	%	Test of Proportion		
			Gps.	Z	P			Gps.	Z	P			Gps.	Z	P
I- AMI (n = 20)	13	65.0	I *II	1.469	> 0.05	16	80.0	I*II	1.682	> 0.05	12	60.0	I*II	1.562	> 0.05
II- Fallen (n = 15)	6	40.0	II*III	0.732	> 0.05	8	53.3	II*III	0.745	> 0.05	5	33.3	II*III	1.105	> 0.05
III- AMI & Fallen (n = 15)	8	53.3	I*III	0.697	> 0.05	10	66.7	I*III	0.893	> 0.05	8	53.3	I*III	0.364	> 0.05

Table (21) :

Distribution of Cases with CK/AST Values Diagnostic for AMI (< 2.62) Among the Studied Groups

Highl CK St. Gp.	24 Hrs.					48 Hrs.					72 Hr.				
	No.	%	Test of Proportion			No.	%	Test of Proportion			No.	%	Test of Proportion		
			Gps.	Z	P			Gps.	Z	P			Gps.	Z	P
I- AMI (n = 20)	6	30.0	I *II	2.330	< 0.05	5	25.0	I*II	2.092	< 0.05	2	10.0	I*II	1.261	> 0.05
II- Fallen (n = 15)	0	0.0	II*III	3.586	< 0.05	0	0.0	II*III	3.022	< 0.05	0	0.0	II*III	1.826	< 0.05
III- AMI & Fallen (n = 15)	9	60.0	I*III	1.775	< 0.05	7	45.7	I*III	1.336	> 0.05	3	20.0	I*III	0.837	> 0.05