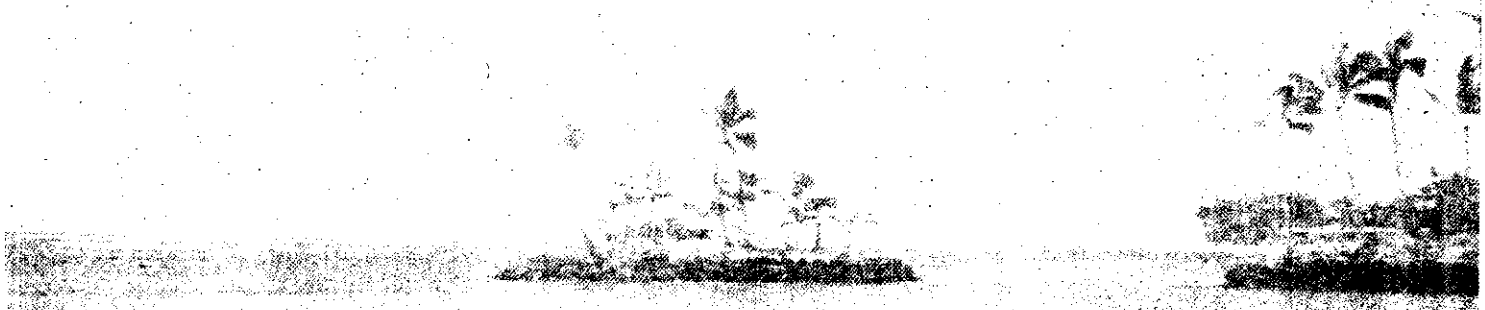
RESULTS



RESULTS

Table (1): Comparison between infection group and control group as regard plasma nitrite and nitrate (nmol/ml).

NO_2, NO_3 (nmol/ml) / St. group	Number of cases	Mean	SD
Infection group	27	59.7037	±21.338
Control group	21	14.0619	± 2.259
t	11.04		
P-value	< 0.001 Highly significant		

Table (1) shows mean ± standard deviation of plasma nitrite and nitrate (nmol/ml). Statistical analysis showed highly significant increase in plasma NO2, NO3 in infection group when compared with the control group ($P < 0.001$).

Table (2): Comparison between infection group and control group as regard mean and SD of acute illness score.

St. group	Number of cases	Mean	SD
Infection group	27	17.7407	± 4.382
Control group	21	6.7619	± 0.995
t	12.61		
P-value	< 0.001 Highly significant		

Table (2) shows mean ± standard deviation of acute illness score. Statistical analysis showed highly significant increase in acute illness score in infection group when compared with the control group ($P < 0.005$).

Table (3): Comparison between septicemic group and control group a regard plasma nitrite and nitrate (nmol/ml).

NO_2, NO_3 (nmol/ml) / St. group	Number of cases	Mean	SD
Septicemic group	11	124.8455	± 38.605
Control group	22	14.0619	± 2.259
t	9.51		
P-value	< 0.001 Highly significant		

Table (3) shows mean and standard deviation of plasma nitrite and nitrate (nmol/ml) statistical analysis showed highly significant increase in plasma NO_2, NO_3 in septicemic group when compared with the control group ($P < 0.001$).

Table (4): Comparison between septicemic group and control group as regard acute illness score.

St. group	Number of cases	Mean	SD
Septicemic group	11	27.3636	± 1.206
Control group	21	6.7619	± 0.995
t	48.0		
P-value	< 0.001 Highly significant		

Table (4) show mean and standard deviation of acute illness score. Statistical analysis showed highly significant increase in acute illness score in septicemic group when compared with the control group ($P < 0.001$)

Table (5): Comparison between shock without sepsis group and control group as regard plasma nitrite and nitrate (nmol/ml).

NO_2, NO_3 (nom/ml) / St. group	Number of cases	Mean	SD
Shock group	11	34.090	± 12.206
Control group	21	14.0619	± 2.259
t	33.52		
P-value	< 0.001 Highly significant		

Table (5) shows mean ± standard deviation of plasma nitrite and nitrate (nmol/ml). Statistical analysis showed highly significant increase in plasma NO_2, NO_3 in shock without sepsis group when compared with control group ($P < 0.001$).

Table (6): Comparison between shock without sepsis group and control group as regard acute illness score.

St. group	Number of cases	Mean	SD
Shock group	11	23.0909	± 1.446
Control group	21	6.7619	± 0.995
t	33.52		
P-value	< 0.001 Highly significant		

Table (6) shows mean and standard deviation of acute illness score. Statistical analysis showed highly significant increase in shock without sepsis group when compared with the control group ($P < 0.001$).

Table (7): Comparison between autoimmune group and control group as regard plasma nitrite and nitrate (nmol/ml).

NO_2, NO_3 (nmol/ml) / St. group	Number of cases	Mean	SD
Autoimmun group	24	62.8833	± 7.054
Control group	21	14.0619	± 2.259
t	32.0		
P-value	< 0.001 Highly significant		

Table (7) shows mean and standard deviation of plasma nitrite and nitrate (nmol/ml). Statistical analysis showed high significant increase in autoimmune group when compared with control group ($P < 0.001$).

Table (8): Comparison between autoimmune group and control group as regard of acute illness score.

St. group	Number of cases	Mean	SD
Autoimmune group	24	19.9600	± 3.182
Control group	21	6.7619	± 0.995
t	19.63		
P-value	< 0.001 Highly significant		

Table (8) shows mean and standard deviation of acute illness score. Statistical analysis showed highly significant increase in acute illness score in autoimmune group when compared with the control group ($P < 0.001$).

Table (9): Comparison between different studied groups as regard plasma nitrite, nitrate (nmol/ml).

NO_2, NO_3 (nmol/ml) / St. group	Number of cases	Mean	SD
Infection group	27	59.7037	± 21.3378
Septicemic group	11	124.8455	± 38.6050
Shock group	11	34.0909	± 12.2062
Autoimmune group	24	62.8833	± 7.0542
A NOVA	39.58		
P-value	< 0.001 Highly significant		

Table (9) shows mean and standard deviation of plasma nitrite and nitrate (nmol/ml) in different studied group. It showed than the maximum concentration of plasma nitrite and nitrate was in septicemic group followed by autoimmune group then infection group and the minimum concentration was in shock without sepsis group and these were statistically highly significant ($P < 0.001$).

Table (10): Comparison between different studied groups as regard of acute illness score.

St. group	Number of cases	Mean	SD
Infection group	27	17.7407	± 4.3817
Septicemic group	11	27.3636	± 1.2060
Shock group	11	23.0909	± 1.4460
Autoimmune group	24	19.9600	± 3.1817
A NOVA	24.05		
P-value	< 0.001 Highly significant		

Table (10) shows mean and standard deviation of acute illness score in different studied group the score was maximum in septicemic group and the least was in autoimmune group and this was statistically highly significant ($P < 0.001$).

Table (11): Correlation coefficient (r) between plasma nitrite and nitrate concentration, CRP, score, total leukocytic count.

Variable 1	Variable 2	r	P
CRP	NO_2, NO_3	0.62	< 0.001 (H.S.)
CRP	Score	0.64	< 0.001 (H.S.)
NO_2, NO_3	Score	0.74	< 0.001 (H.S.)
CRP	WBC	0.61	< 0.001 (H.S.)
NO_2, NO_3	WBC	0.49	< 0.001 (H.S.)

H.S. = Highly significant

Table (11) showed highly significant correlation (r) between the levels of plasma nitrite and nitrate and the values of CRP ($r = 0.62$ and $P < 0.001$) and total leukocyte count ($r = 0.49$ and $P < 0.001$) also showed highly significant correlation (r) between CRP and score ($r = 0.64$ and $P < 0.001$) and CRP and total leukocyte count ($r = 0.61$ and $P < 0.001$).

Table (12): Comparison between gram +ve and gram -ve organism as regard plasma nitrite, nitrate (nmol/ml).

NO_2, NO_3 / Causative organism	Number of cases	Mean	SD
Gram positive organisms	13	67.6339	± 35.399
Gram negative organisms	25	62.1583	± 25.145
t	0.51		
P-value	> 0.05 Insignificant		

Table (12) shows statistically in significant difference $P > 0.05$, between gram +ve organisms and gram -ve organisms as regard mean and standard deviation of plasma nitrite and nitrate (nmol/ml).

Table (13): Comparison between gram +ve and gram -ve organism as regard acute illness score.

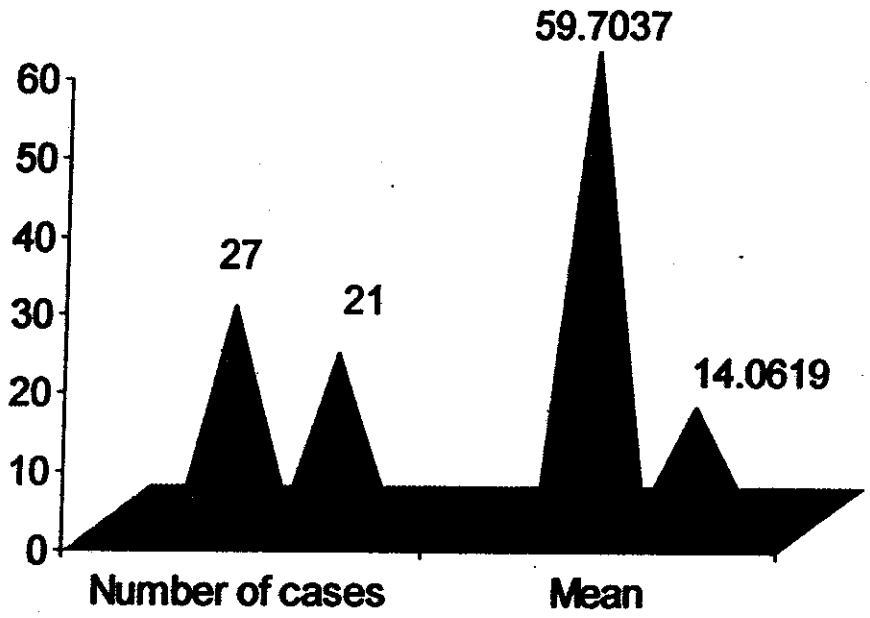
Causative organism	Number of cases	Mean	SD
Gram positive organisms	13	21.1500	± 4.772
Gram negative organisms	25	18.3333	± 3.725
t	1.93		
P-value	> 0.05 Insignificant		

Table (13) shows statistically insignificant difference P > 0.05 between gram +ve organisms and gram -ve organisms as regard acute illness score.

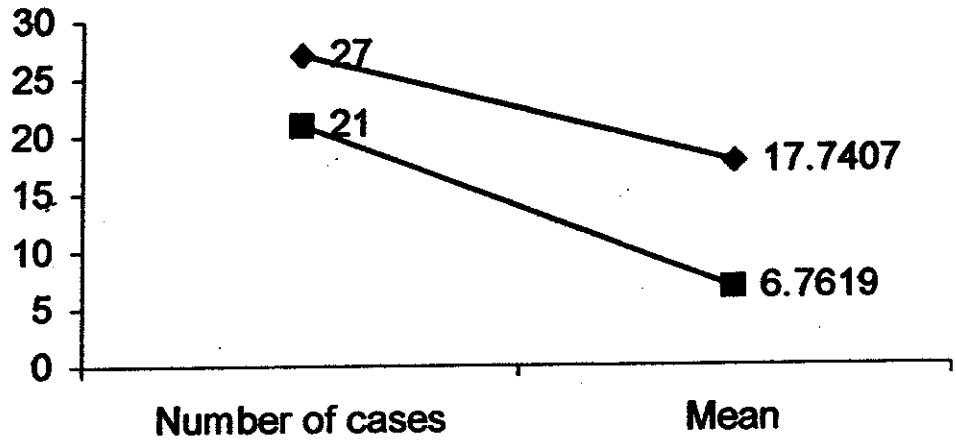
Table (14): Comparison between sex and plasma nitrite and nitrate (nmol/ml).

Variable	Number	Mean	S.D.
Male	38	20.31	± 4.82
Female	36	20.97	± 4.4
t	0.6		
P	> 0.05 Insignificant		

Table (14) shows statistically in significant difference $P > 0.05$ between male and female patients as regard mean and standard deviation of plasma nitrite and nitrate (nmol/ml).



Fig(1) Comparison Between Infection Group And Control Group As Regard Plasma Nitrite And Nitrate (Nmol / Ml)



Fig(2) Comparison Between Infection Group And Control Group As Regard Mean And SD Of Acute Illness Score .

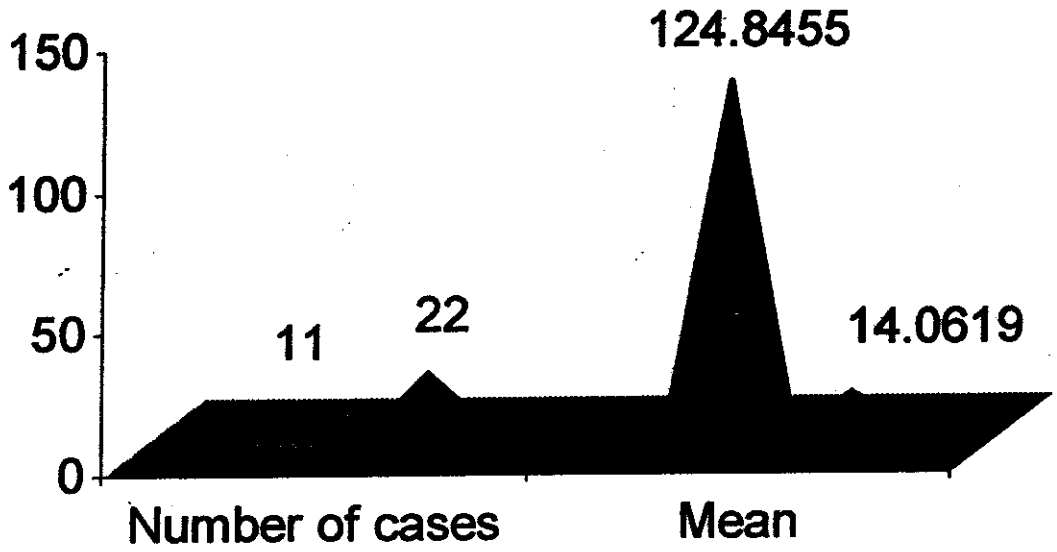
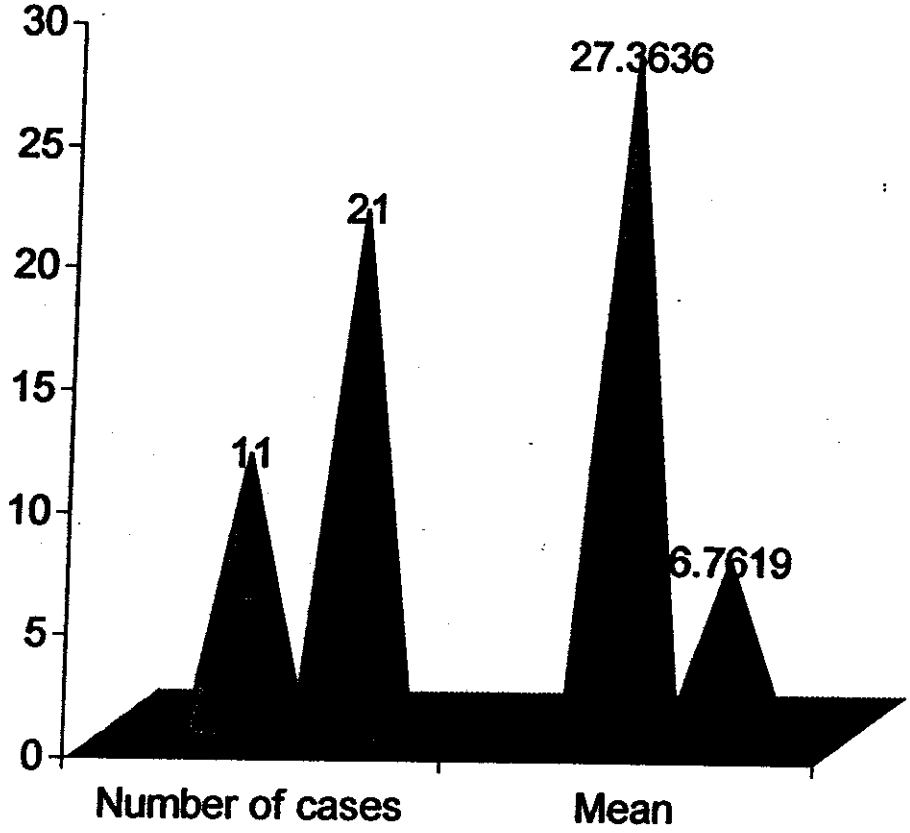
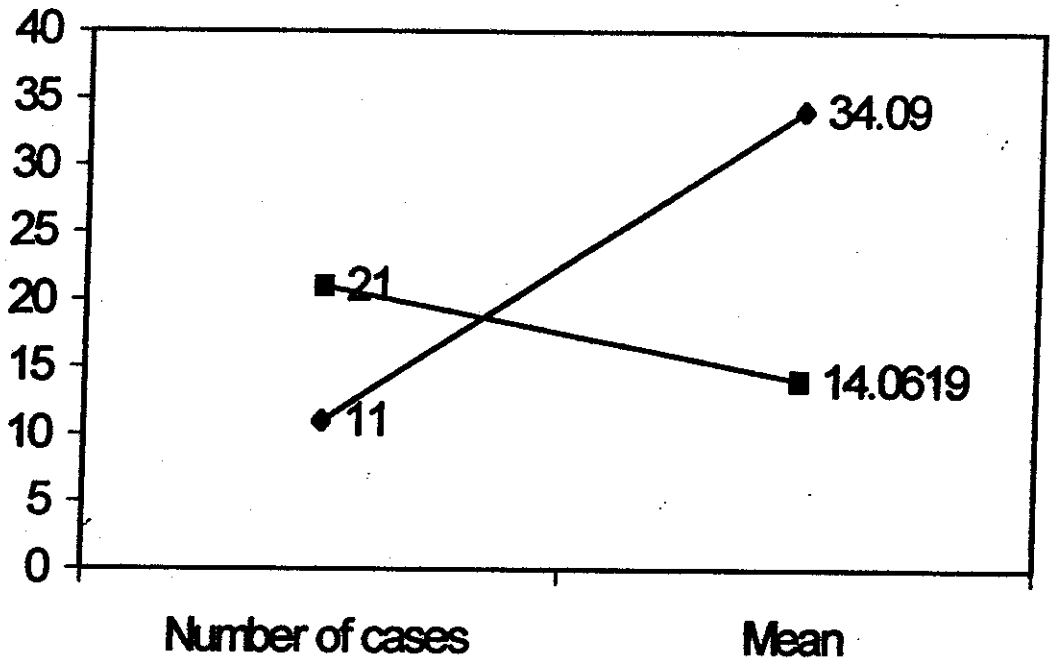


Fig (3) Comparison Between Septicemic Group And Control As Regard Plasma Nitrite And Nitrate (Nmol / Ml) Group



Fig(4) Comparison Between Septicemic Group And Control Group As Regard Acute Illness Score .



Fig(5) Comparison Between Shock Without Sepsis Group And Control Group As Regard Plasma Nitrite And Nitrate (Nmol / Ml)

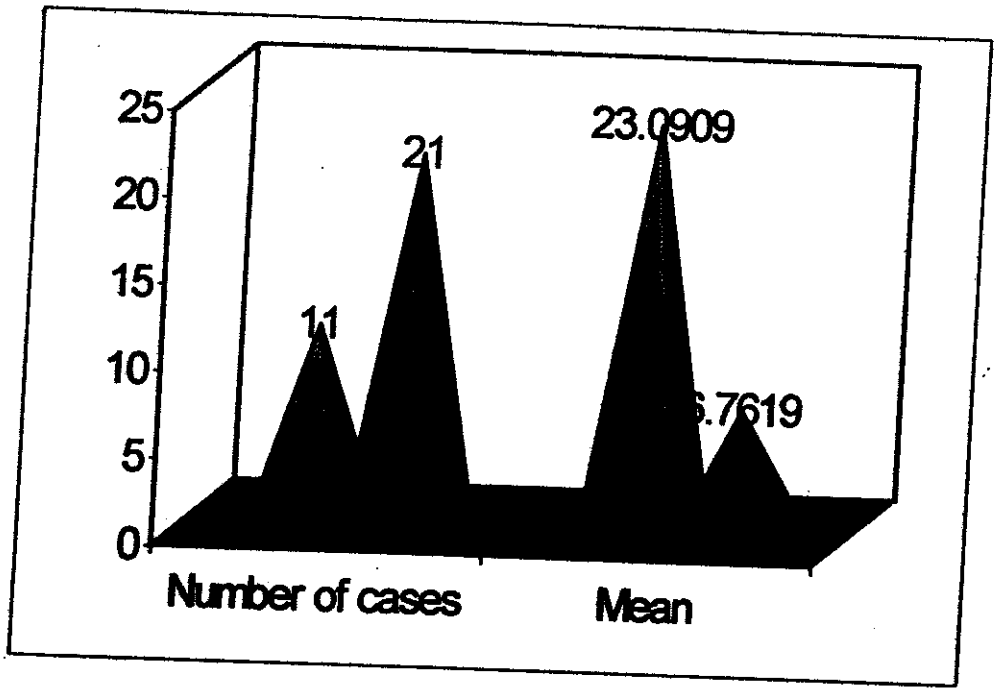


Fig (6) Comparison Between Shock Without Sepsis Group And Control Group As Regard Acute Illness Score .

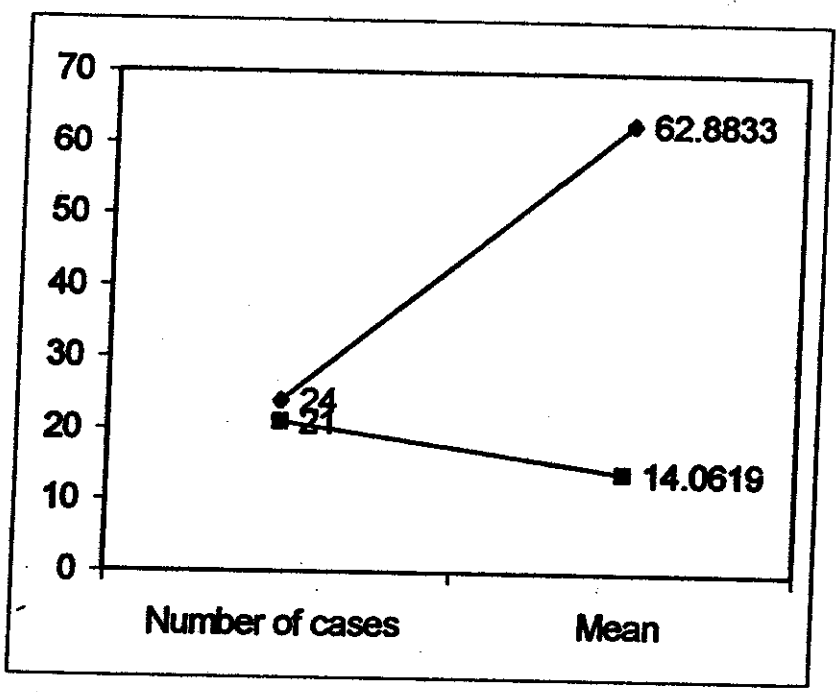


Fig (7) Comparison Between Autoimmune Group And Control Group As Regard Plasma Nitrite And Nitrate (Nmol / Ml)

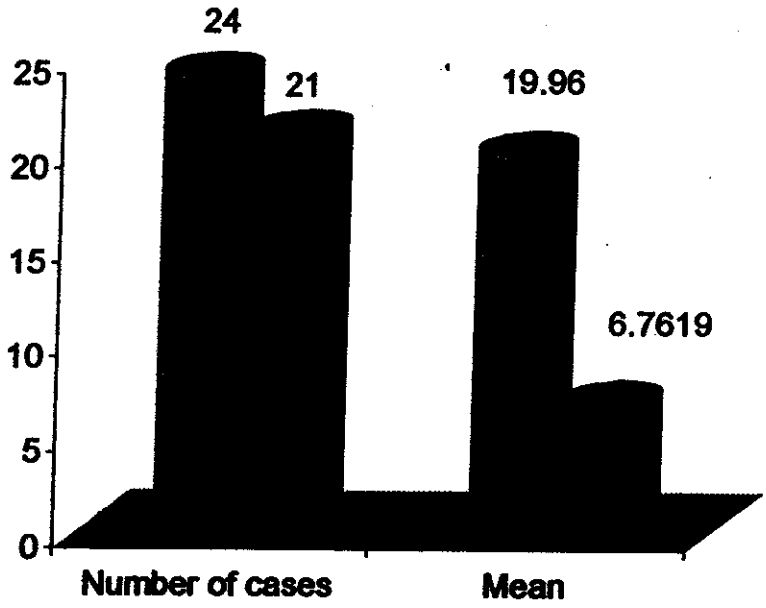


Fig (8) Comparison Between Autoimmune Group And Control Group As Regard Acute Illness Score .

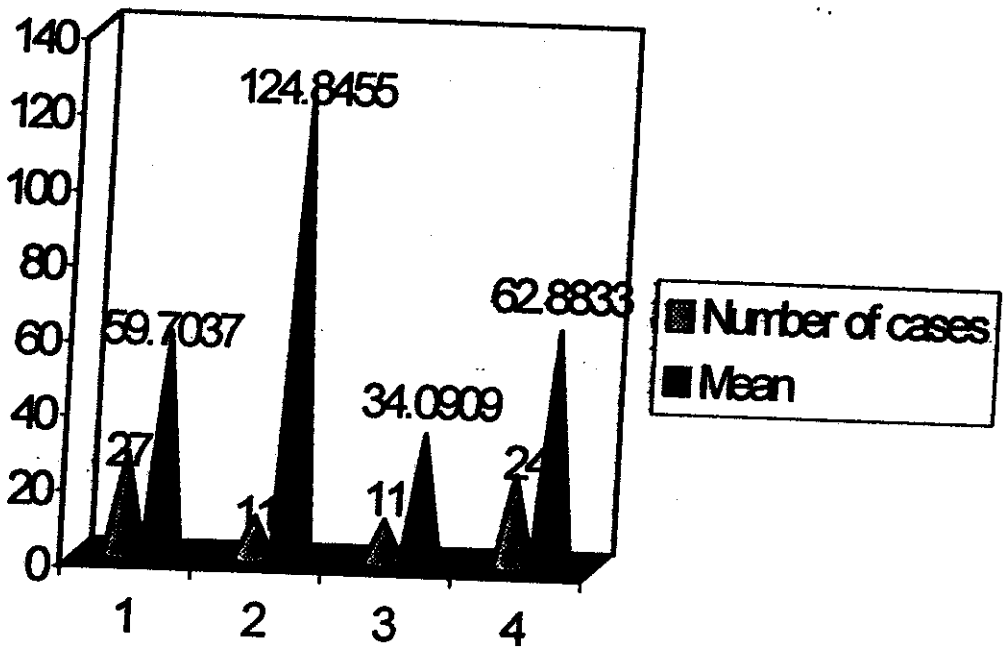


Fig (9) Comparison Between Different Studied Group As Regard Plasma Nitrite, Nitrate (Nmol / Ml)

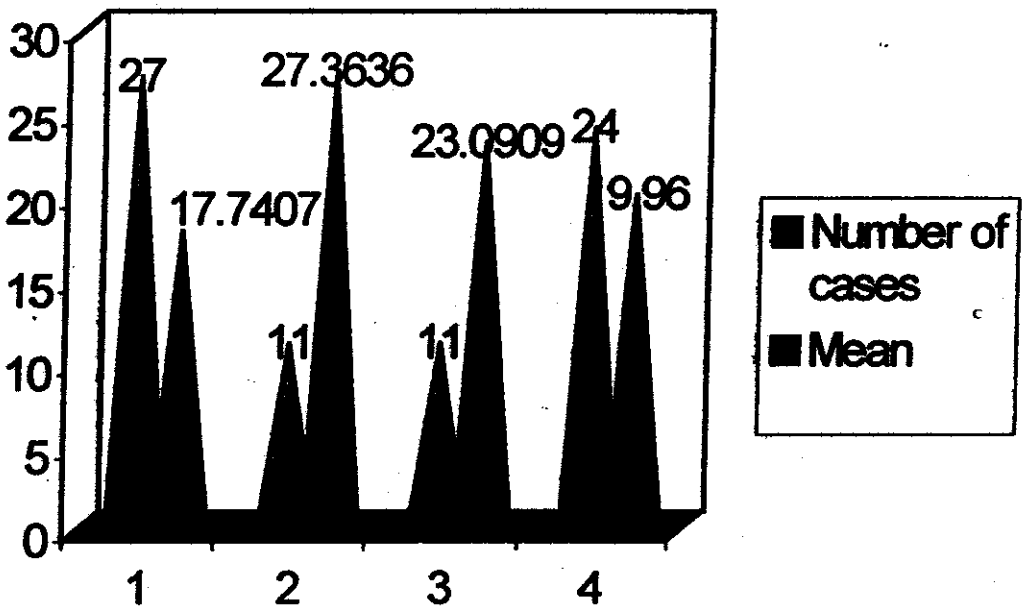


Fig (10) Comparison Between Different Studied Group As Regards Acute Illness Score.

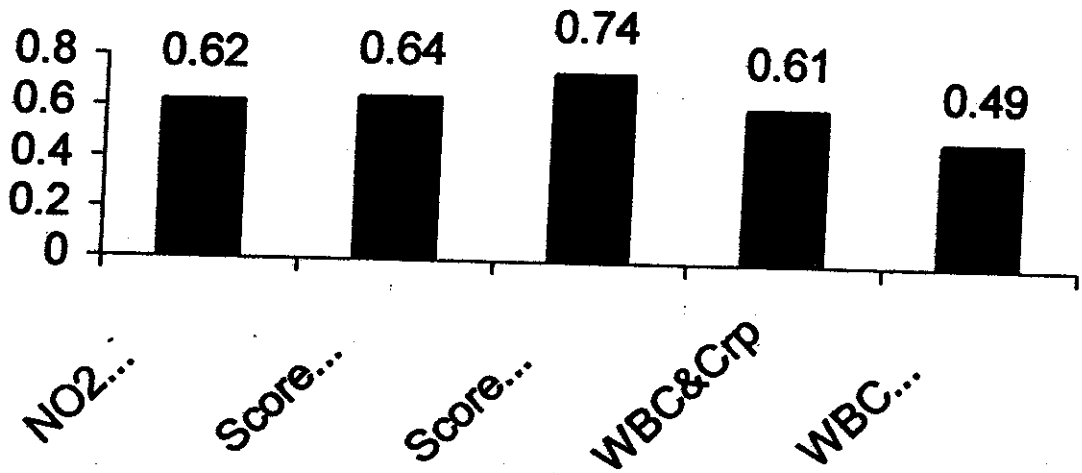


Fig (11) Correlation Coefficient (R) Between Plasma Nitrite And Nitrate Concentration, CRP, Score , Total Leukocytic Count .