RESULTS

RESULTS

All patients in this study were atopic. (positive to one or more of the skin prick test).

Results of the present study were statistically analyzed, summarized and presented in tables (2 to 6) and figures (8-17).

Table (2):

represented a comparative study between group I and controls regarding the studied parameters. It revealed a highly significant statistical difference between the two groups concerning blood cosinophil count (P < 0.001) and no significant correlation difference in serum ECP levels between the 2 groups.

Table (3):

Represented a comparative study between Group II and controls regarding the studied parameters. It revealed a highly significant statistical difference between the two groups concerning blood oesinophil counts and serum E.C.P values (P < 0.001).

Table (4):

Illustrated a comparative study between Group III and controls regarding the studied parameters. It revealed a highly significant statistical difference between the two groups concerning blood eosinophil counts and serum ECP values (P < 0.001).

Table (5):

Illustrated a comparative study between Group I and Group II, Group I and Group III, Group II and Group III regarding the studied parameters. It revealed a highly significant statistical difference between Group I and II concerning blood eosinophil count and PEF (P < 0.001) on

the other hand the ECP value showed a non statisticaly significant difference between the two groups (P > 0.05).

Concerning the comparative study between Group I and Group III. It revealed a highly significant statistical difference between the two groups concerning blood eosinophil count, ECP , PEF (P < 0.001).

Lastly the comparative study between Group II and Group III showed a highly significant statistical difference between the two groups concerning ECP, PEF (P< 0.001). and no significant statistical difference between them regarding the blood eosinophil count. (p > 0.05).

Table (6):

Manifested a highly significant positive correlation between serum ECP and blood eosinophils (r = 0.6) in all patient's group. In addition to significant negative correlation between serum ECP and PEF (r = -0.4) in the same group.

As regard figures, figure (8) is a histogram representing a comparison between controls and other groups regarding mean values of blood eosinophils % . Figure (9) is a histogram representing a comparison between controls and other groups regarding mean values of ECP/ ng/l.

Figures (10,11,12) shows correlation between ECP and eosinophilia (mild, moderate, sever).

Figures (13,14,15) : shows correlation between ECP and PEF (mild, moderate, sever).

Figure 16: shows highly statistical significant positive correlation between ECP and eosinophilia in all patients group (r = 0.6).

Figure 17: shows highly statistical significant negative correlation between ECP and PEF in all patients group (r = -0.4).

Table (2): Comparative study between group I and controls regarding the studied parameters:

Parameters	X ± S.D.		P value
	Group I	Controls	
Blood eosinophil %	4.7 ± 2.5	1.5 ± 0.5	< 0.01
Serum ECP (ng/ml)	16 ± 12.3	6.2 ± 2.4	> 0.05

Table (3): Comparative study between group II and controls regarding the studied parameters.

Parameters	X ± S.D.		P value
	Group II	Controls	
Blood eosinophil	8.4 ± 1.3	1.5 ± 0.5	< 0.01
Serum ECP (ng/ml)	24.2 ± 14.8	6.2 ± 2.4	< 0.01

Table (4): Comparative study between group III and controls regarding the studied parameters.

Parameters	X ± S.D.		P value
	GroupIII	Controls	
Blood eosinophil %	8.1 ± 2.7	1.5 ± 0.5	< 0.01
Serum ECP (ng/ml)	55.6±33.6	6.2 ± 2.4	< 0.01

Table (5): Comparative study between groups I &, II &, III regarding the studied parameters.

Parameters	X ± S.D.			P value
	Group I	Group II	Group III	
Blood eosinophil%	4.7 ±2.5	8.4 ± 1.3	8.1 ± 2.7	* < 0.01 ** < 0.01 *** >0.05
Serum ECP (ng/ml)	16 ± 12.3	24.2 ± 14.8	55.6 ± 33.6	* >0.05 ** < 0.01 *** < 0.01
PEF	83.8 ± 1.9	71 ± 4.9	55.3 ± 2.4	* < 0.01 ** < 0.01 *** < 0.01

* Group I versus group II.

** Group I versus group III.

*** Group II versus group III.

Table (6): Correlation matrix between serum ECP and other parameters in all patient's group.

Parameters	R	P value
Blood eosinophil	0.6	< 0.01
PEF	- 0.4	< 0.01
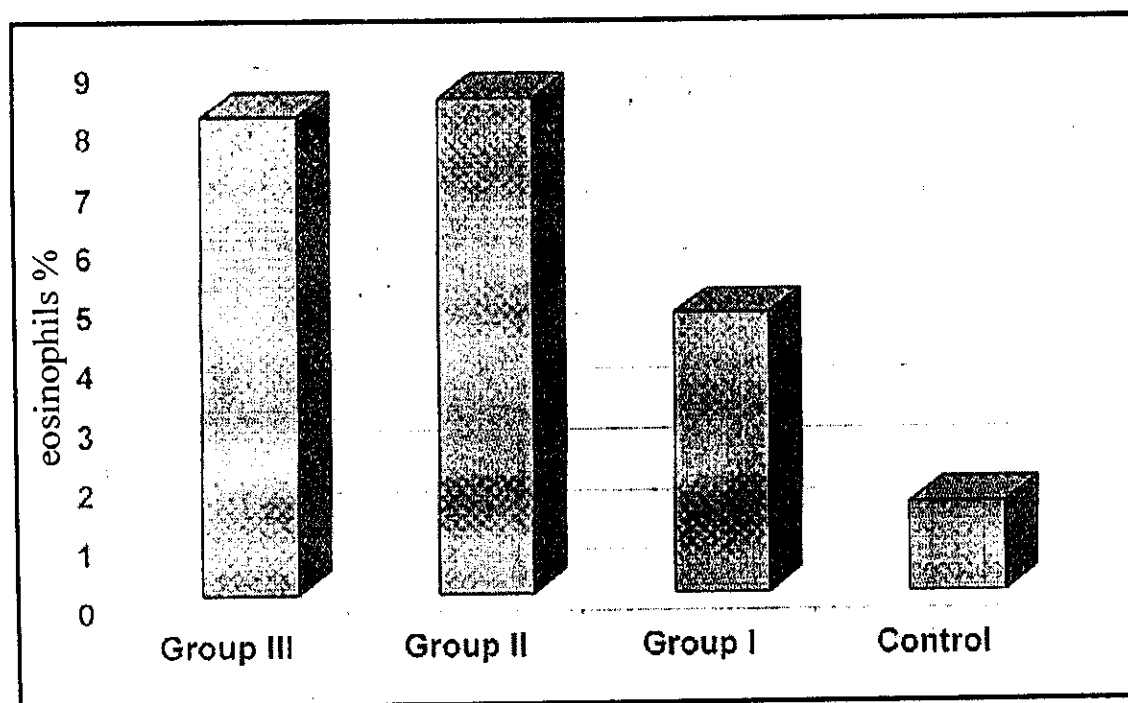
Fig. (8): Comparison between controls and patients groups regarding mean values of blood eosinophils.
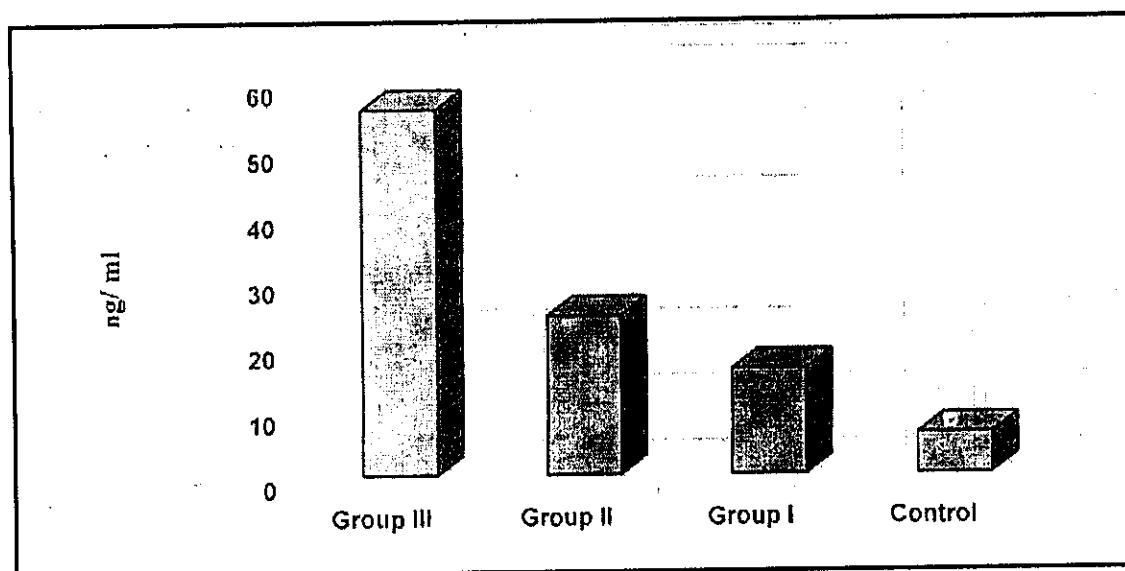

Fig. (9): Comparison between controls and patients groups regarding mean values of serum ECP.

Correlation between ECP and eosinophilia in mild, moderate and severe patient groups
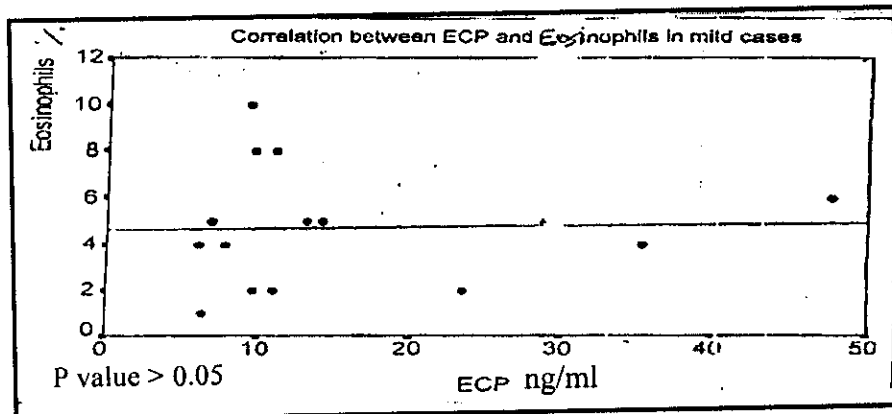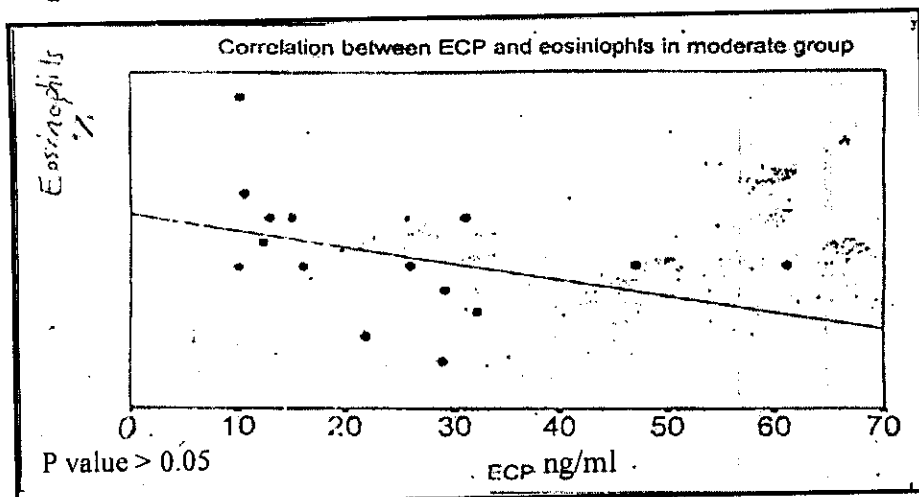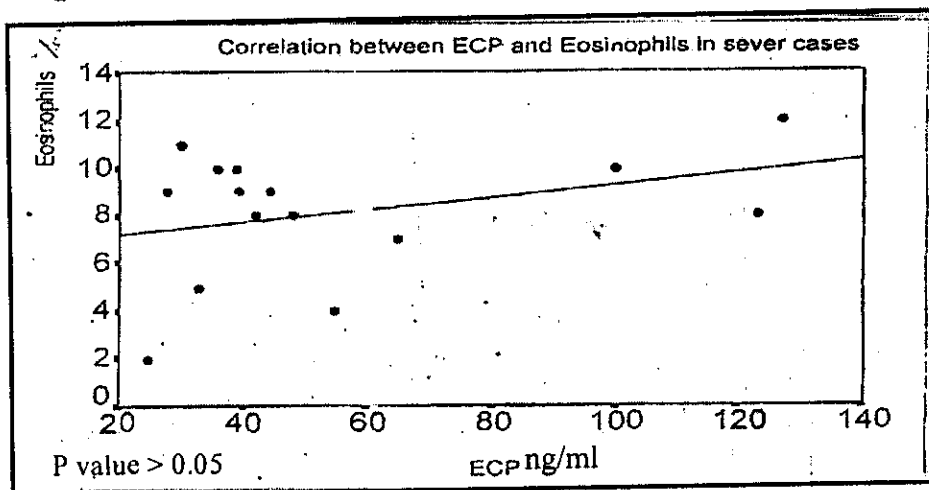
Fig.(10):

Correlation between ECP and Eosinophils in mild cases

P value > 0.05

Fig.(11):

Correlation between ECP and eosiniophis in moderate group

P value > 0.05

Fig.(12):

Correlation between ECP and Eosinophils in sever cases

P value > 0.05

Correlation between ECP and PEF in mild, moderate, severe patient groups

Fig. (13):

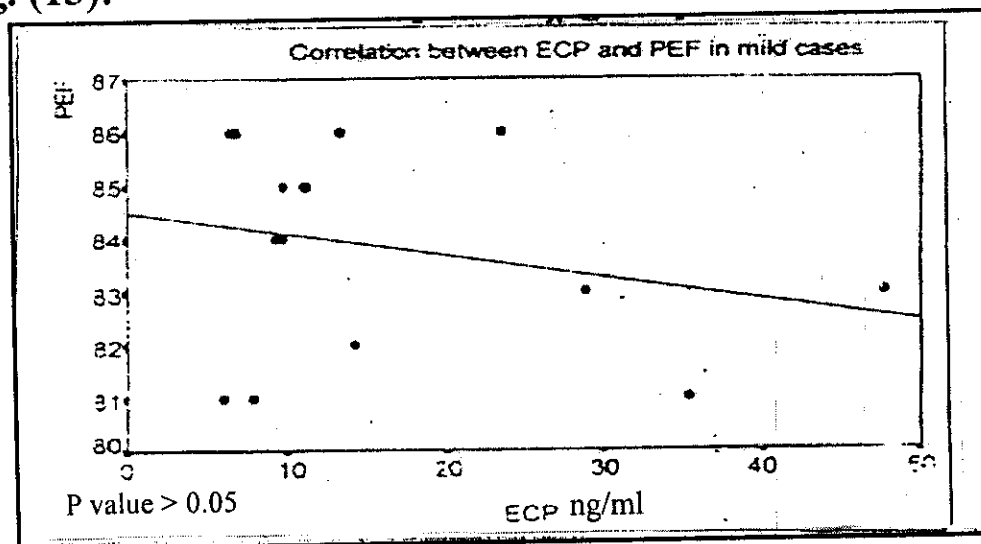Correlation between ECP and PEF in mild cases

P value > 0.05 ECP ng/ml

Fig (14):

Correlation between ECP and PEF in moderate cases

P value > 0.05 ECP ng/ml

Fig. (15):

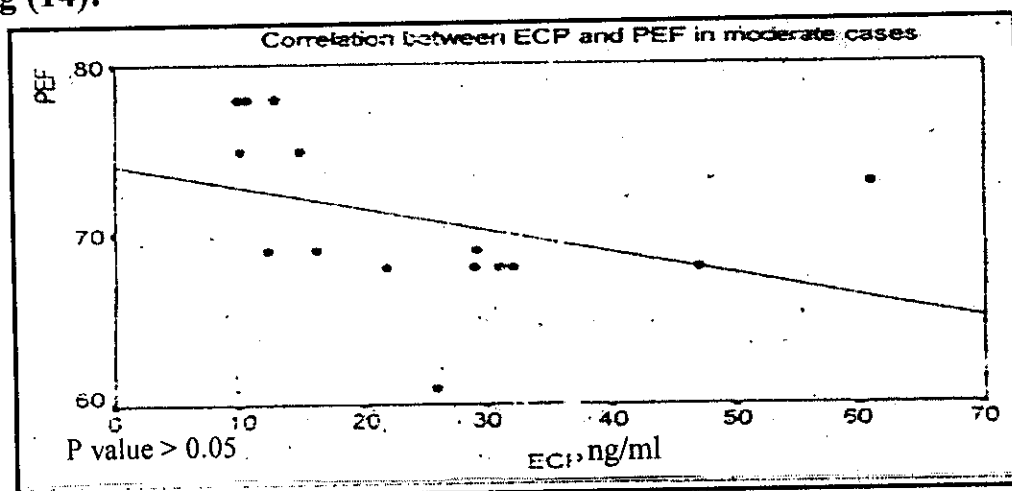Correlation between ECP and PEF in sever cases
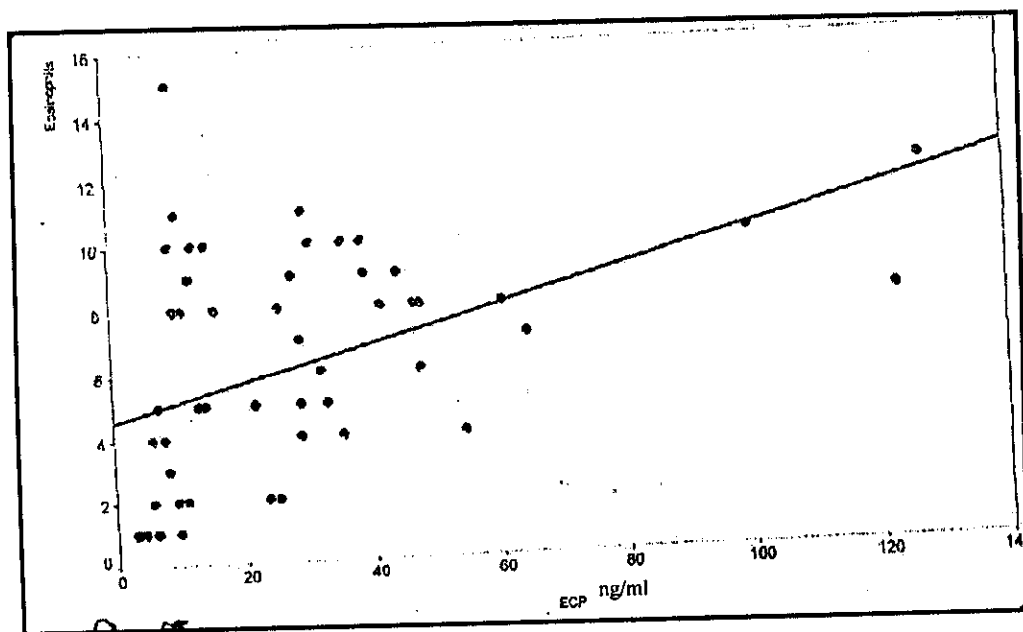
P value > 0.05 ECP ng/ml
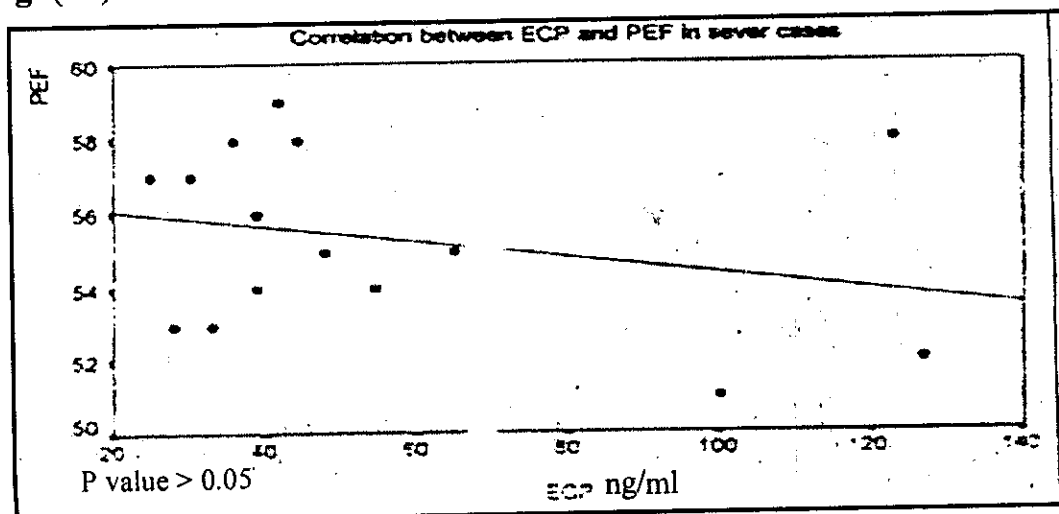
Fig. (16):

Correlation matrix between ECP and eosinophilia in all patients group
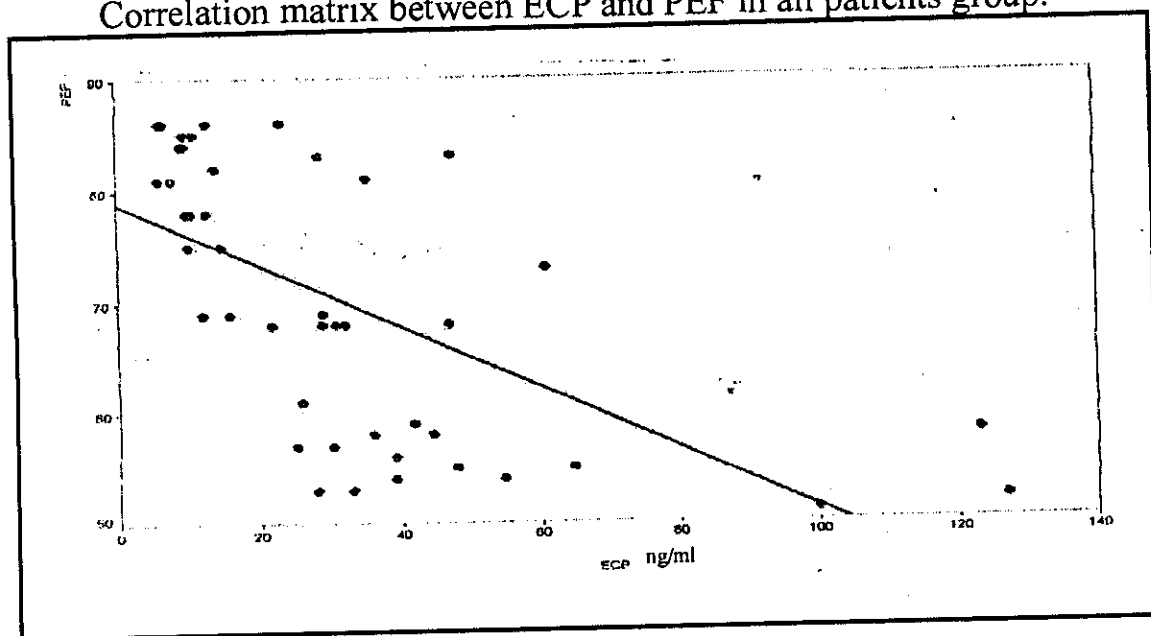

P value < 0.001   r = 0.6

Fig. (17):

Correlation matrix between ECP and PEF in all patients group.

P value < 0.001   r = − 0.4