TABLE (6) :DEMOGRAPHIC DATA OF STUDY POPULATION

Total number of case	50
Hyponatremic	**27(54%)**
Non hyponatremic	**23(46%)**
Male : female ratio	**23;27**

FIG (1) : Sex distribution among study population

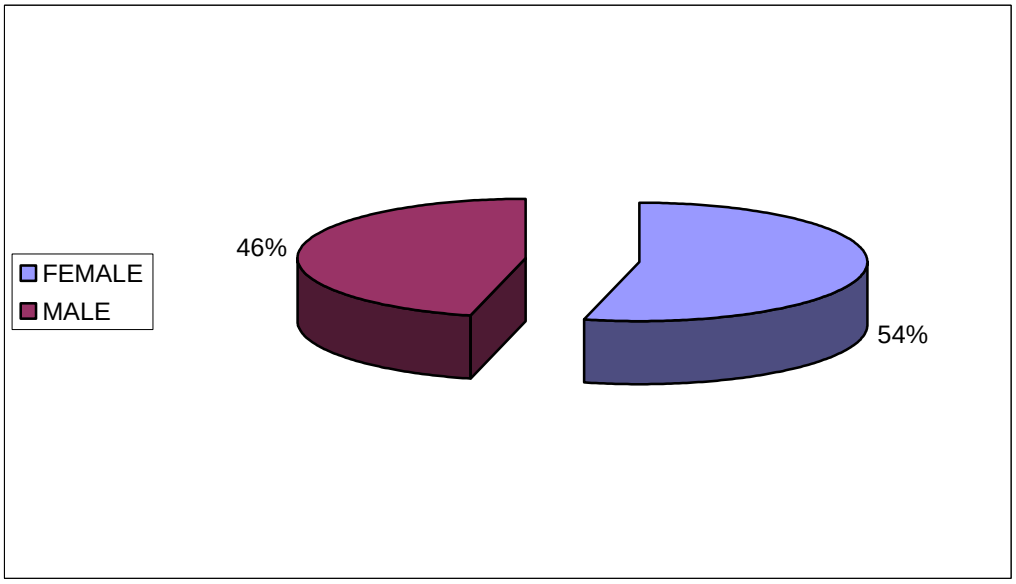


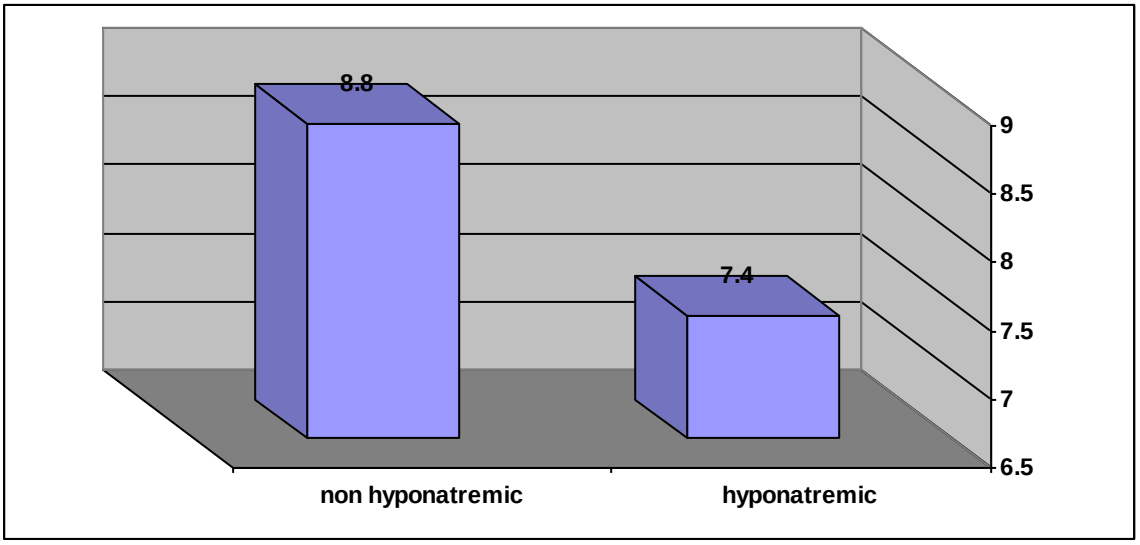
TABLE (7):CLINICAL & LAB PROFILE OF STUDIES CASES

Total number of case	**50**
Mean of age (***months & years***)	**1.1 ± 0.6**
Mean Sodium ***(mmol/l)***	**133.42 ± 3.446915**
Mean Glucose **(*mg/dl*)**	**102.84 ± 21.91669**
Mean Temperature ***(°c)***	**38.614 ± 0.683332**
Mean WBCs ***(number/µl)***	**15905.6 ± 11414.4**
Mean Neutrophils ***(% of WBC)***	**66.12 ± 23.2569**
Mean HB ***(g/dl)***	**10.886± 1.213194**
Mean platelets ***(number /µl)***	**291.46 ± 103.724**
Mean CRP ***(mg/ l)***	**55.1 ± 22.92245**
Mean ESR ***(mm/h)***	**21.9 ± 12.2745**
Mean BUN ***(mg/ dl)***	**21.28 ±7.505209**
Mean Serum creatnine ***(mg/ dl)***	**0.48 ± 0.195876**
Mean serum osmolality ***(mmol/l)***	**286.3 ±274.5**
Mean Duration of admission *(per/ d)*	**8.1 ±2.1**

Table(8): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding duration of hospital admission *(per/ d)*

Duration of hospital addmission	Hyponatremic	Non hyponatremic
Mim	5	6
Max	11	12
Mean	7.4	8.8
SD	1.9	1.9
t	2.5	
p	<0.05	

fig (2): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding duration of hospital admission *(per/ d)*

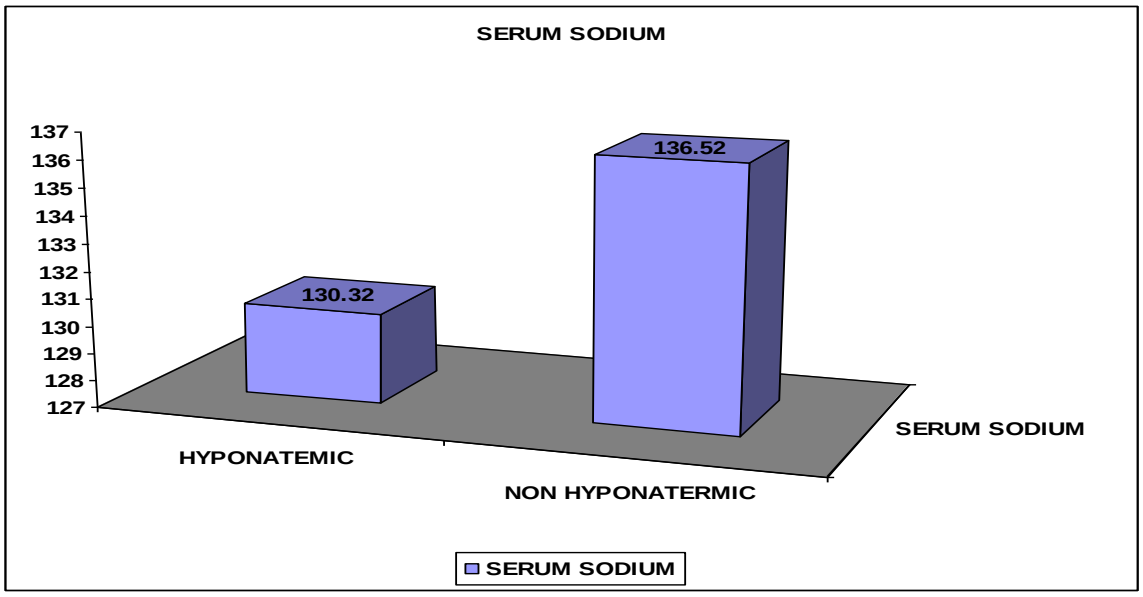


Table(9): Comparison between population study regarding to serum sodium *(mmol/l)*

Serum sodium	Hyponatemic	Non hyponatrmic
Mim	128	135
Max	133	140
Mean	130.3	136.5
SD	1.31	1.58
t	15	
p	<0.001	

This table shows that there is a highly significant statistical difference in seum sodium between pneumonic cases .

fig (3): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding serum sodium *(mmol/l)*

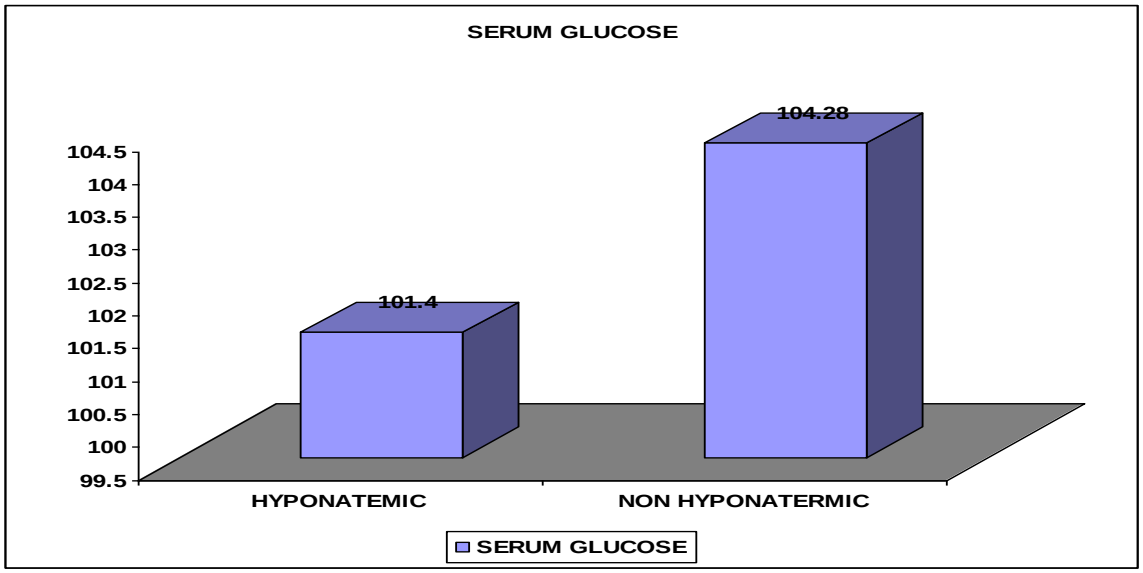


Table(10): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding serum glucose (*mg/dl*)

Serum glucose	Hyponatemic	Non hyponatrmic
Mim	70	60
Max	132	135
Mean	101.4	104.28
SD	25.27021	18.37915
T	1.5	
P	>0.05	

This table shows that there is non significant statistical difference in comparison between both hyponatremic and non hyponatremic pneumonic cases regarding serum glucose.

fig (4): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding serum glucose (*mg/dl*)

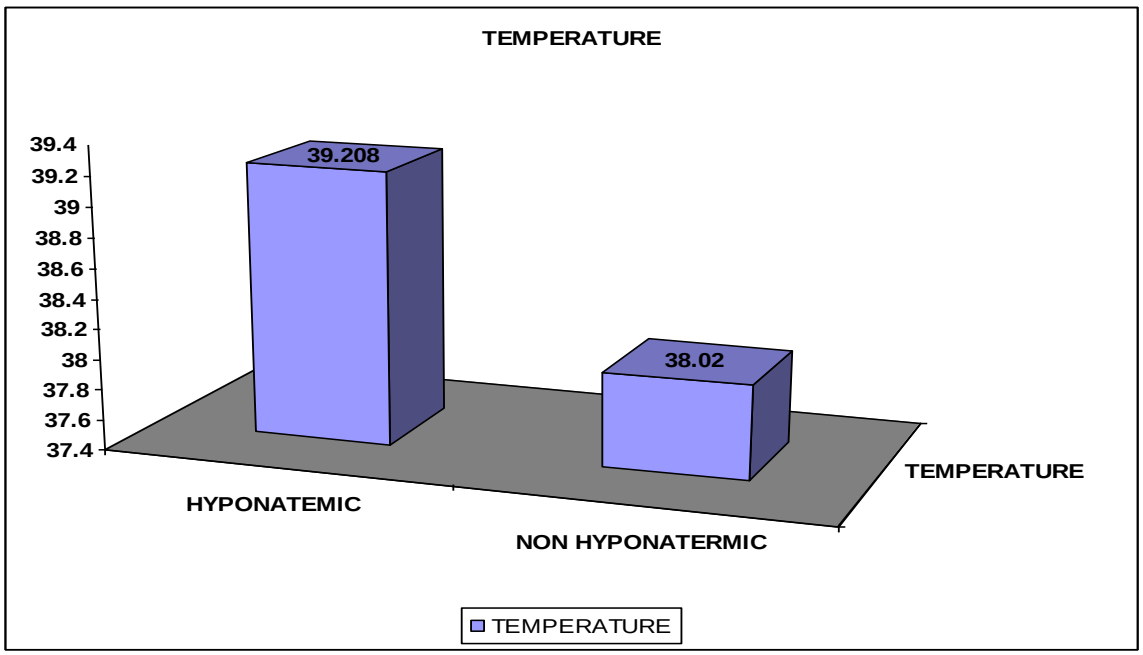


Table(11): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding temperature *(°c)*

Temperature	Hyponatemic	Non hyponatrmic
Mim	38.5	37.5
Max	40	39.3
Mean	39.208	38.02
SD	0.326497	0.334166
t	12.6	
p	<0.001**	

This table shows that there is a highly significant statistical difference in comparison between both hyponatremic and non hyponatremic pneumonic cases regarding temperature.

fig (5): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding temperature *(°c)*

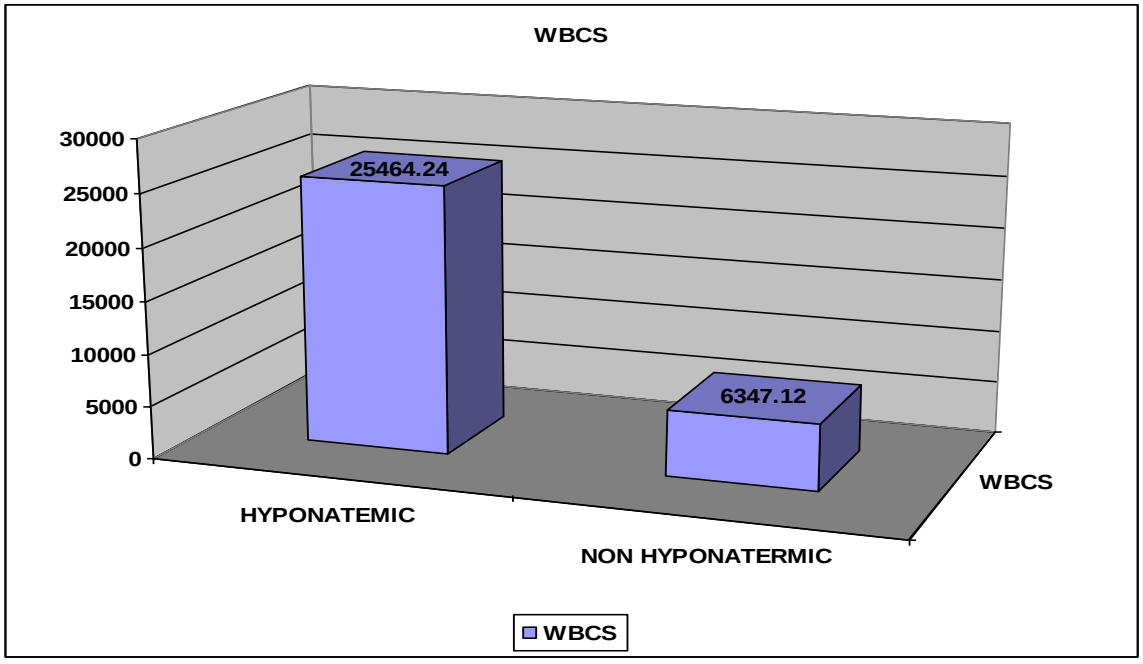


Table(12): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding total WBC counts *(number/µl)*

WBCS	Hyponatemic	Non hyponatrmic
Mim	11360	3034
Max	42960	21770
Mean	25464.24	6347.12
SD	7613.035	4207.313
t	10.2	
p	<0.001	

This table shows that there is a highly significant statistical difference in comparison between both hyponatremic and non hyponatremic pneumonic cases regarding serum WBC.

fig (6): Comparison between hyponatrmeic and non hyponatremic pneumonic cases regarding total WBC counts *(number/µl)*

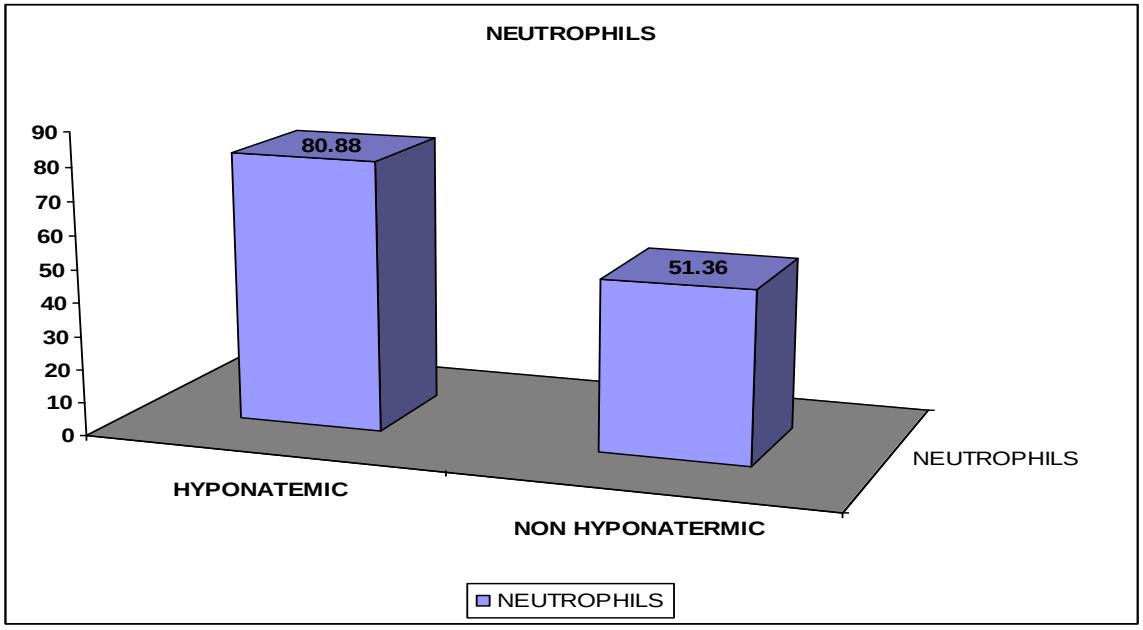


Table(13): Comparison between hyponatrmic and non hyponatrmic pneumonic cases regarding total neutrophils counts *(% of WBC)*

Neutrophils	Hyponatemic	Non hyponatrmic
Mim	32	31
Max	95	95
Mean	80.88	51.36
SD	23.17326	22.98369
t	12.3	
p	<0.001	

This table shows that there is a highly significant statistical difference in comparison between both hyponatremic and non hyponatremic pneumonic cases regarding neutrophils.

fig (7): Comparison between hyponatrmic and non hyponatrmic pneumonic cases regarding total neutrophil counts *(% of WBC)*

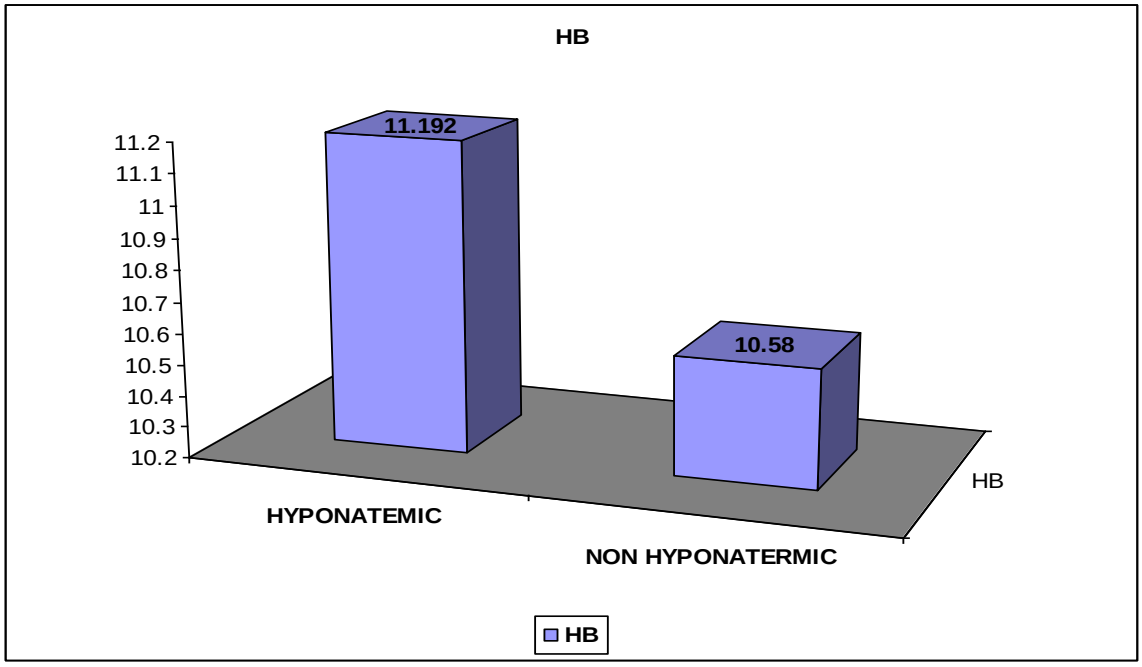


Table(14): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding hemoglobin level *(g/dl)*

HB	Hyponatemic	Non hyponatrmic
Mim	8.9	8.6
Max	13.2	12.6
Mean	11.192	10.58
SD	1.2	1.13
t	0.2	
p	>0.05	

This table shows that there is no statistically significant difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding hemoglobin.

fig (8): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding mean hemoglobin level *(g/dl)*

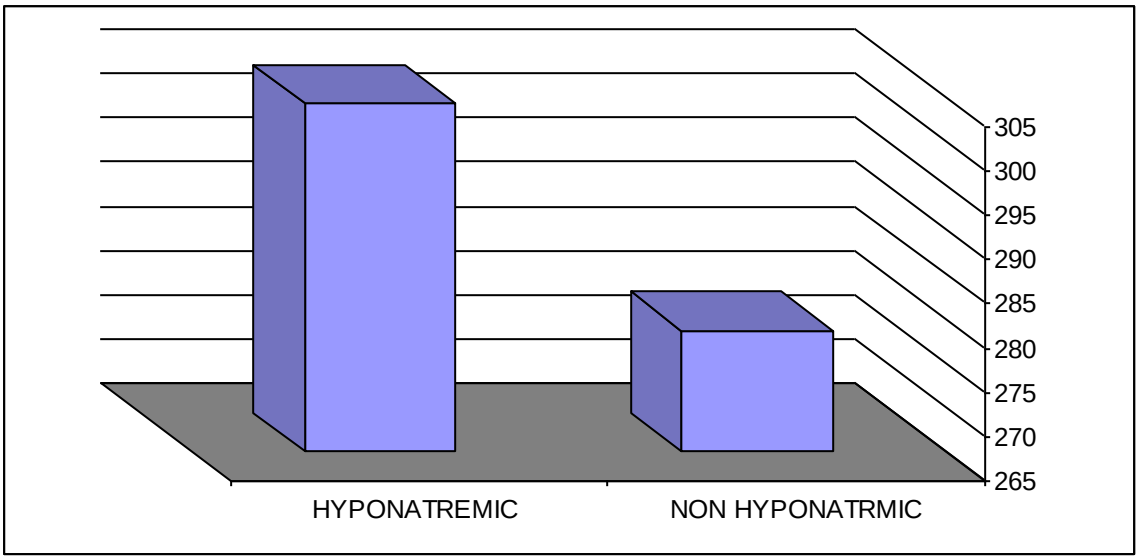


Table(15): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding platelets count *(number /µl)*

PLT	Hyponatemic	Non hyponatrmic
Mim	**150**	**145**
Max	**500**	**436**
Mean	**304.28**	**278.64**
SD	**113.5145**	**93.47543**
t	**0.5**	
p	**>0.05**	

This table shows that there is no statistically significant difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding platelets count.

fig (9): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding Platelets count *(number /µl)*

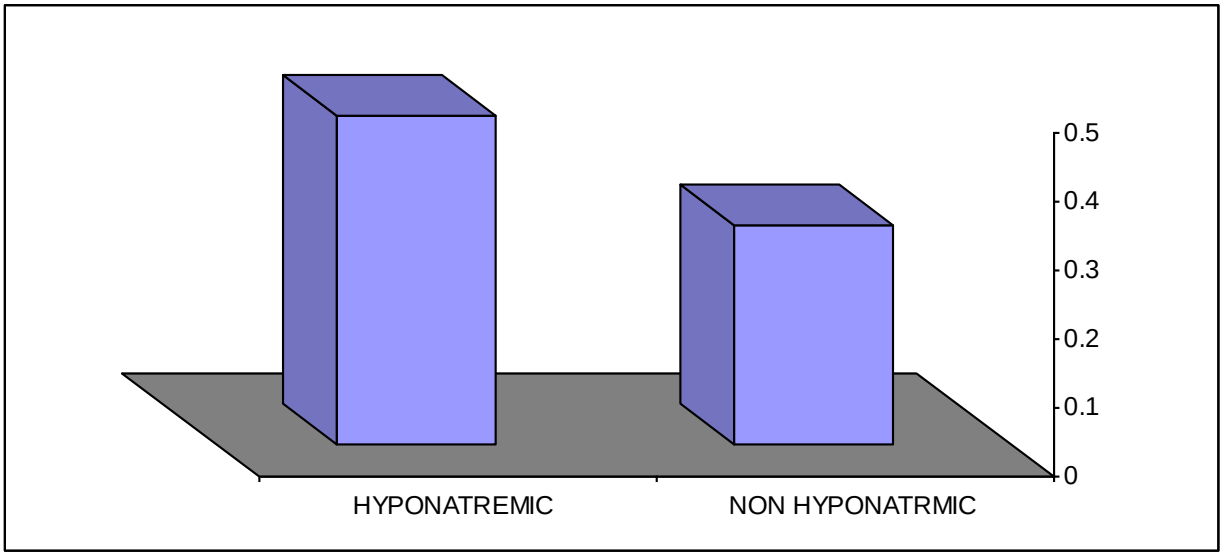


Table(16): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding serum Creatnine levels *(mg/ dl)*

Serum creatnine	Hyponatemic	Non hyponatrmic
Mim	**0.2**	**0.2**
Max	**0.8**	**0.9**
Mean	**0.48**	**0.32**
SD	**0.19**	**0.18**
T	**0.2**	
P	**>0.05**	

This table shows that there is no statistically significant difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding serum creatinine.

fig (10): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding serum creatnine levels *(mg/ dl)*

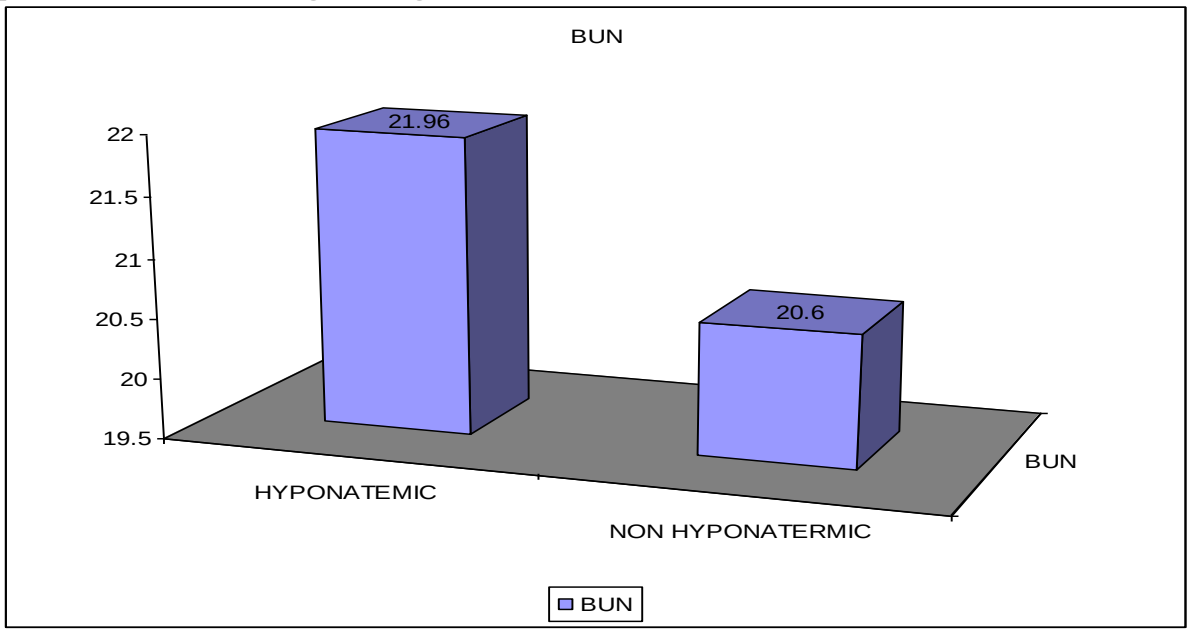


Table(17): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding BUN*(mg/ dl)*

BUN	Hyponatemic	Non hyponatrmic
Mim	**7**	**9**
Max	**37**	**32**
Mean	**21.9**	**20.6**
SD	**8.03**	**7.03**
t	**0.5**	
p	**>0.05**	

This table shows that there is no statistically significant difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding BUN.

fig (11): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding BUN *(mg/ dl)*

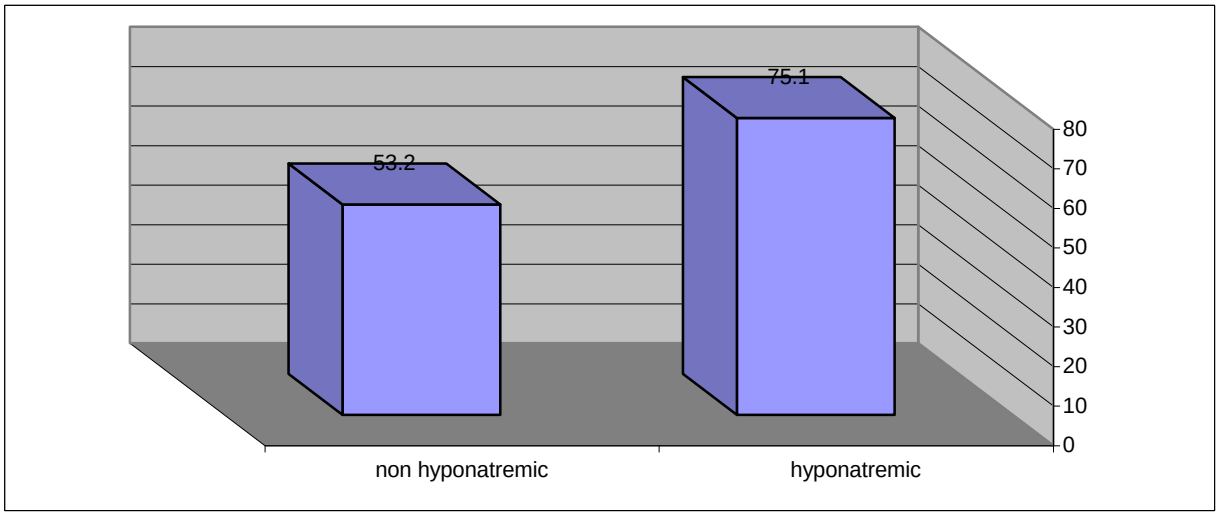


Table(18): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding CRP serum level *(mg/ l)*

CRP	Hyponatemic	Non hyponatrmic
Mim	12	7
Max	96	96
Mean	75.1	53.2
SD	23.17326	18.98369
t	9.5	
p	<0.001	

This table shows that there is a highly significant statistical difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding CRP.

fig (12): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding CRP serum level *(mg/ l)*

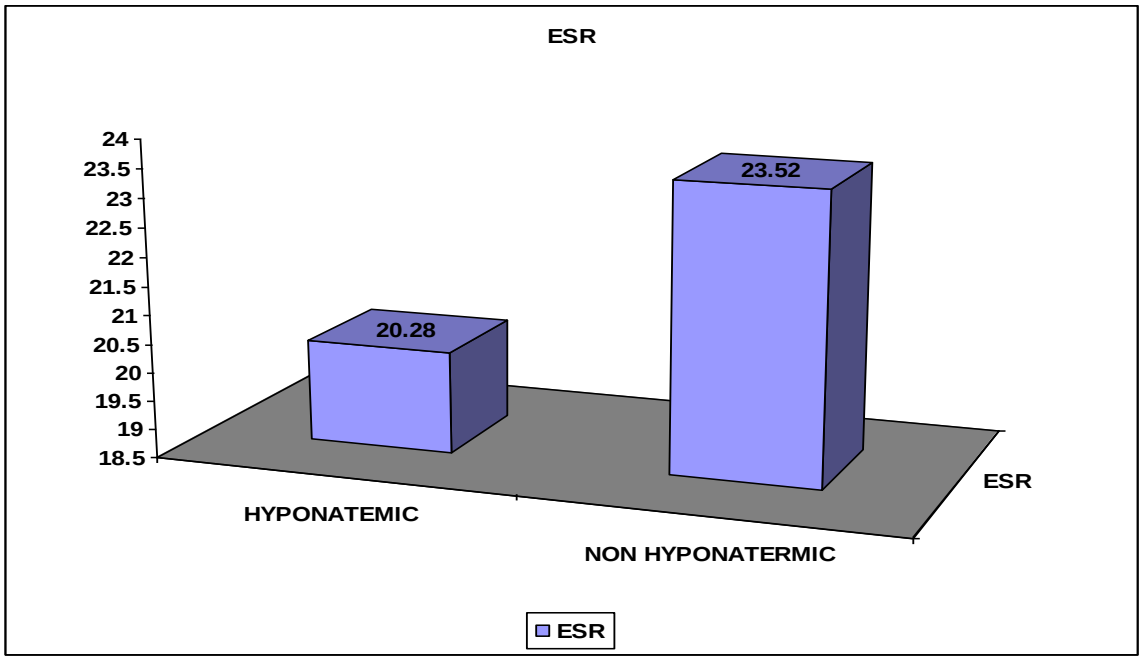


Table(19): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding ESR level *(mm/h)*

ESR	Hyponatemic	Non hyponatrmic
Mim	7	7
Max	55	55
Mean	20.28	23.53
SD	11.11	13.3
t	0.9	
p	>0.05	

This table shows that there is no statistically significant difference in coparison between both hyponatremic and non hyponatremic pneumonic cases regarding ESR.

fig (13): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding ESR level *(mm/h)*



Table(20): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding calculated serum osmolality
(mmol/l)

Calculated S.osmolality	Hyponatremic	Non hyponatremic
Mim	**267.5**	**268.3**
Max	**296.9**	**286.6**
Mean	**286.3**	**274.5**
SD	**5.1**	**4.5**
t	**8.6**	
p	**<0.001**	

This table shows that there is statistically significant difference in comparison between both hyponatremic and non hyponatremic pneumonic cases regarding calculated serum osmolality.

fig (14): Comparison between hyponatremic and non hyponatremic pneumonic cases regarding calculated serum osmolality *(mmol/l)*