## RESULTS

## **RESULTS**

The results of the present study are presented in the tables (2-21) and figures (3 to 15).

Table (2) shows the comparison between the female and male references regarding serum leptin level. The mean value of serum leptin level in the female references was 8.59 ng/ml SEM was 0.13 ng/ml and the range was 0.21-55.32 ng/ml. While in the male references the mean value was 3.81, SEM was 0.12 and the range was 0.11 –15.37 ng/ml.

Table (3) shows the comparison between the female and male patients regarding serum leptin level. The mean value of serum leptin level in the female patients was 10.95 ng/ml SEM 0.08ng/ml and the range was 0.06 -62.07 ng/ml. While in the male references the mean value of serum leptin level was 13.40 ng/ml, SEM was 0.02 ng/ml and the range was 0.83 -56.02 ng/ml.

Table (4) shows the comparison between the reference and patient groups regarding height. The reference group the mean value was 167.778 cm, SEM was 0.02 and the range was 155-183 cm. While in the mean value of height in patients group was 165.92 cm, SEM was 0.003 and the range was 145-186 cms.

There was no significant difference in height between patient and reference group.

Table (5) and figure (3) some the comparison between the reference and patient groups regarding weight. The mean value of weight in reference group was 74.16 kg, SFM was 0.06 and the range was 52-125 kg while in the patients the mean value was 56.04 kg, SEM was 0.003 and the range was 36-90 kg.

There was a statistically significant difference in weight between patient and reference groups (P < 0.091).

Table (6) and figure (4) box the comparison between the reference and patient groups regards, body mass index (B.M.I). The mean value of B.M.I in reference is up was 26.10, SEM was 0.02 and the range was 17.3 – 42.2. While in respectively group the mean value was 20.36, SEM was 0.0011 and the range was 16.2 – 27.9. There was a statistically significant decrease in ball I in patients when compared with the reference group.

Table (7) shows the differe reflective in the reference and patient groups regarding blood urea levels. The mean value of blood urea was 27.05 mg/dl in reference group, Sidd was 0.02 and the range was 14-40 mg/dl. While in the patients group the mean value was 145.500 mg/dl, SEM was 0.01 and the range was 95 110 mg/dl.

There was a statistically diffeant increase in blood urea in patients than in controls (P< 0.001%



Table (8) shows the comparison between the reference and patient groups regarding serum creatinine. The mean value in the reference group was 0.79 mg/dl, SEM was 0.0004 and the range was 0.5-1.1 mg/dl. While in the patients group the mean value was 10.73 mg/dl, SEM was 0.0008 and the range was 6.6-15 mg/dl.

There was a statistically significant increase in serum creatinine in patients than in controls (P < 0.001).

Table (9) and figure (5) shows the comparison between the reference and patients group regarding serum albumin. The mean value in the reference group was 4.58 mg/dl, SEM was 0.0007 and the range was 4.3 –5 g/dl. While in the patients group the mean value was 3.69 g/dl, SEM was 0.0003 and the range was 2.7-5 g/dl. There was a statistically significant decrease in serum albumin in the patients group (P< 0.001).

Table (10) and figure (6) shows the comparison between the reference and patients group regarding serum cholesterol. The mean value in the reference group was 105.00 mg/dl, SEM was 0.10 mg/dl and the range was 45-195. While in the patient group the mean value was 219.50 mg/dl, SEM was 0.02 mg/dl and the range was 150-350 mg/dl.

There was a statistically significant increase in the serum cholesterol in the patient group (P  $\leq$  0.001).

Table (11) shows a comparison between the reference and patients group regarding blood hemoglobin level. The reference group the mean was 13.25 g/dl, SEM was 0.0038 g/dl and the range was 7.5-12% g/dl.

While the mean value in the pulsest group was 9.68 g/dl. SEM was 0.0005 g/dl and the range was 11.7 This g/dl.

There statistically significant decrease in the blood hemoglobin level in the patient group (P < 0.00%).

Table (12) and figure (7) lows a comparison between the reference and patients group regarding hymphocyte count the mean value in the reference group was 31.33%. SEM was 0.01% and the range 22-49%. While in the patient group the mean was 26.74%, SEM was 0.0031% and the range was 13-45%.

There was a statistically significant decrease in the lymphocytic count % in the patients group (P  $\leq 0.05$ ).

Table (13) and figure (8) shows the comparison between the reference and patient groups regarding serum leptin level. The mean value of serum leptin level in the reference group was 6.94 ng/ml, SEM was 0.03 and the range was 0.17-55.30 ng/ml. While in the patient group the mean value was 12.27 ng/ml, NFM was 0.007 ng/ml and the range was 0.065-62.07 ng/ml.

There was non statistically significant difference in leptin level between reference and patient group.

Table (14) and figure (9) shows the comparison between the reference group after exclusion of 7 was subject and patient group regarding leptin level. The mean value of the leptin level in the reference group 1.11 ng/ml SEM 0.009 was and the range 0.17--3.93 was ng/ml.

While in the patient group the mean value was 12.27 ng/ml, SEM was 0.007 ng/ml and the range was 0.06- 62.07 ng/ml.

There was statistically significant increase in the leptin level in the patient group when compared with the reference group (P < 0.05).

Table (15) and figure (10) shows the comparison between the reference group after exclusion of 7 obese subject and patient group with negative anorexia regarding leptin level. The mean value of the serum leptin level in the reference group 1.11 ng/ml SEM was 0.007 and the range was 0.17-3.93 ng/ml. While in the patient group the mean value was 2.06 ng/ml, SEM was 0.007 ng/ml and the range was 0.0650-12.46 ng/ml.

There was non statistically significant difference between in the patient group and the reference group (P > 0.05).

Table (16) and figure (11) shows the comparison between the reference group after exclusion of 7 obese subject and patient group with positive anorexia regarding leptin level. The mean value of the leptin level in the reference group 1.1195 ng/ml SEM 0.009 was and the range was 0.17- 3.93 ng/ml. While in the patient group the mean value was 19.08 ng/ml, SEM was 0.02 ng/ml and the range was 0.06 – 62.07 ng/ml.

There was statistically significant increase in the leptin level in the patient group with positive anorexia when compared with the reference group (P < 0.001).

Table (17) shows a correlation of dialysis, magna, weight, B.M.I, leptin, urea, creatinine, albumin cholesterol in the guident group.

There is a non significant abgative correlation between lymphocytic percentage and age  $r=r+1 \approx (P \times 0.05)$ .

There is a significant negative correlation between lymphocytic percentage and duration of dialysis  $r = 3.315 (P \le 0.05)$ .

There is a non significant negative correlation between lymphocytic percentage and height r=-0.041 (P  $\geq 0.05$ ).

There is a significant positive correlation between lymphocytic percentage and weight r = 0.296 (P  $\sim 0.05$ ).

There is a significant positive correlation between lymphocytic percentage and B.M.I r = 0.428 (P star. 5).

There is a significant negative correlation between lymphocytic percentage and serum leptin level  $r_{\rm c} \sim 125$  (P  $\leq 0.05$ ).

There is a non significant positive correlation between lymphocytic percentage and blood urea level  $r-0.011 \pm P \ge 0.05$ ).

There is a non significant positive correlation between lymphocytic percentage and serum creatinine level: 0.164 (P> 0.05).

There is a significant positive correlation between lymphocytic percentage and serum albumin level r = 0.516 (P < 0.05).

There is a significant positive correlation between lymphocytic percentage and serum cholesterol level r = 0.294 (P < 0.05).

Table (18) shows a correlation between serum cholesterol level and age, duration of dialysis height, weight, B.M.I, serum leptin level, blood urea level, serum creatinine level, serum albumin level, blood haemoglobin level and lymphocytic percentage in the patient group.

There is a non significant negative correlation between serum cholesterol level and age r = -0.217 (P> 0.05).

There is a non significant negative correlation between serum cholesterol level and duration of dialysis r = -0.004 (p > 0.05).

There is a non significant positive correlation between serum cholesterol level and height r = 0.141 (p > 0.05).

There is a non significant positive correlation between serum cholesterol level and weight r=0.141 (p>0.05).

There is a non significant positive correlation between serum cholesterol level and B.M.I r = 0.115 (p > 0.05).

There is a non significant agative correlation between serum cholesterol level and serum leptin leader = -0.249 (p> 0.05).

There is a significant policy correlation between serum cholesterol level and blood urea level z=0.294 (p  $\leq 0.05$ ).

There is a significant source correlation between serum cholesterol level and scrum creatining evel r = 0.533 (p < 0.05).

There is a significant positive correlation between serum cholesterol level and serum albumin  $-0.341~(p \le 0.05)$ .

There is a significant pullate correlation between serum cholesterol level and blood heamogh, in level r = 0.292 (p  $\leq 0.05$ ).

There is a significant partitive correlation between serum cholesterol level and serum lymphocycle carcentage r=0.294 (p <0.05).

Table (19) shows a correlative between serum albumin level and age, duration of dialysis, height, weight, B.M.I. serum leptin level, blood urea level, serum creatinine level, serum albumin level, blood hemaoglobin level, lymphocytic pere sature in the patient group.

There is a non significant a gaine correlation between serum albumin level and age r =- 0.105 (p  $\geq 0.05$  ).

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There is a non significant negative correlation between serum albumin level and duration of dialysis r = -0.215 (p > 0.05).

There is a non significant negative correlation between serum albumin level and height r = -0.045 (p > 0.05).

There is a non significant positive correlation between serum albumin level and weight  $r = 0.228 \ (p > 0.05)$ .

There is a significant positive correlation between serum albumin level and B.M.I. r=0.324 (p < 0.05).

There is a significant negative correlation between serum albumin level and serum leptin level r = 0.062 (p < 0.05).

There is a non significant negative correlation between serum albumin level and blood urea level r = -0.186 (p > 0.05).

There is a non significant positive correlation between serum albumin level and serum creatinine level r = 0.102 (p > 0.05).

There is a significant positive correlation between serum albumin level and serum cholesterol level  $r=0.341\ (p<0.05)$ .

There is a non significant positive correlation between serum albumin level and blood heamoglobin level r=0.086 (p > 0.05).

There is a significant positive correlation between serum albumin level and lymphocytic percentage r = 0.215 (p  $\leq 0.05$ ).

Table (20) and figure (12, 13 or ows a correlation between B.M.I and age, duration of dialysis, height, weight, serum leptin level, blood urea level, serum creatinine level, serum albumin level, serum cholesterol level, blood heamoglobin level and lymphocytic percentage in the reference and the patient groups.

There is a non significant acquaive correlation between BMI and age in the reference group  $r=-0.397~(p\geq0.05)$ , while a non significant positive correlation  $r=-0.084~(p\geq0.05)$  in the patient group.

There is a non-significant negative correlation between B.M.I and duration of dialysis r = 0.274 (p > 0.55 mL, the patient group.

There is a non-significant notative correlation between B.M.I and height in the reference group r = 0.050 ( $p \ge 0.05$ ) and the same in the patient group, r=0.08584 ( $p \ge 0.05$ ).

There is a significant positive correlation between B.M.I and weight in the reference group  $r=0.965~(p\le0.05)$  and the same in the patient group  $r=0.750~(p\le0.05)$ .

There is a significant positive correlation between B.M.I and serum leptin level in the reference group  $r=0.782~(p\leq0.05)$  while in the patient there is a significant negative correlation  $r=-0.605~(p\leq0.05)$ .

There is a non significant positive correlation between B.M.I and blood urea level in the references group r = 0.206 (p > 0.05) while in the patients group there is a non significant negative correlation r = -0.105 (p > 0.05).

There is a non significant negative correlation between B.M.I and serum creatinine level in the reference group r = -0.345 (p > 0.05) and the same in the patient group r = -0.244 (p >0.05).

There is a non significant negative correlation between B.M.I and serum albumin level in the reference group r = -0.305 (p > 0.05) while in the patient group. There is a significant positive correlation r = 0.324 (p < 0.05).

There is a non significant positive correlation between B.M.I and serum cholesterol level in the references group r=0.254~(p>0.05) and the serum in the patient group r=0.115~(p>0.05).

There is a non significant negative correlation between B.M.I and blood haemoglobin level in the reference group r = -0.071 (p > 0.05) while in the patient group there is a non significant positive correlation r = 0.053 (p > 0.05).

There is a non significant negative correlation between B.M.1 and lymphocytic percentage in the reference group r = -0.023 (p > 0.05). While in the patient group there is a significant positive correlation r = 0.428 (p < 0.05).

Table (21) and figure (14. 15. shows a correlation between serum leptin level and age, duration of decesis, height, weight, B.M.I, blood urea level, serum creatinine level, a manualbumin level, serum cholesterol level, blood heamoglobin level and lymphocytic percentage in the reference and patient group.

There is a non significant positive correlation between serum leptin level and age in the reference group  $r=0.388~(p\geq0.05)$  and the same in the patient group  $r=0.127~(p\geq0.05)$ .

There is a non significant positive correlation between serum leptin level and duration of dialysis in the patient group r =0.230 (p > 0.05).

There is a non significant regardive correlation between serum leptin level and height in the reference group r=-0.041 (p > 0.05) and the same in the patient group r=-0.009 (p = 0.05).

There is a significant positive correlation between serum leptin level and weight in the reference group r=0.730 (p < 0.05) while in the patient group there is a significant asymptotic correlation r=0.482 (p<0.05).

There is a significant positive varietation between serum leptin level and B.M.I in the reference group r=0.782 (p < 0.05) while in the patient group there is a significant asymmive correlation r=-0.605 (p<0.05).

There is a non significant positive correlation between serum leptin level and blood urea level in the reference group r = 0.206 (p > 0.05) and the same in the patient group r = 0.049 (p > 0.05).

There is a non significant negative correlation between serum leptin level and serum creatinine level in the reference group r = -0.268 (p> 0.05) and the same in the patient group r = -0.172 (p > 0.05).

There is a non significant negative correlation between serum leptin level and serum albumin level in the reference group r=-0.334 (p > 0.05) while in the patient group there is significant negative correlation r=0.624 (p < 0.05).

There is significant positive correlation between serum leptin level and serum cholesterol level in the reference group r = 0.476 (p < 0.05) while in the patient group there is a non significant negative correlation r = -0.249 (p > 0.05).

There is a non significant negative correlation between serum leptin level and blood heamoglobin level in the reference group r=-0.210~(p>0.05) and the same in the patient group r=-0.122~(p>0.05).

There is a non significant adjustive correlation between serum leptin level and lymphocytic percentage in the reference group r=-0.122 (p > 0.05) while in the gallent group there is a significant negative correlation r = -0.725 (p < 0.07).

The Contraction

Table (2): Comparison between female and male references regarding serum leptin level.

Leptin Sex	Number of observation	Mean value	Range	Z	Þ	Significant
Female	11	8.59 ± 0.13	0.12-55.32			
Male	7	3.81 ± 0.12	0.11-15.37	0.860	> 0.05	Non significant

There is a non significant difference in serum leptin level between female and male references.

Table (3): Comparison between female and male patients regarding serum leptin level.

Leptin Sex	Number of observation	Mean value	Range	Z	p	Significant
Female	23	10.95 ± 0.08	0.06-62.07		0.05	
Male	27	13.40 ± 0.02	0.83-56.02	- 1.022	> 0.05	Non significant

There is a non significant difference in serum leptin level between female and male patients.

 Table (4):
 Comparison between selectioned and patient groups regarding height (meter).

Height		<u>kan ar </u>			
Groups	Range	olea <b>n</b>	±SEM	t	p
Reference	155-183		0.02		
Patient	145-186	17 - 172	0.003	0.8044	> 0.05
		(2a)	l		

There is a statistically a sea significant difference in height between patient and reference groups.

Table (5): Comparison between patient and reference groups regarding weight (kg).

Weight Groups	Range	Mean	± SEM	t	р
Reference	52-125	74.16	0.06	4.7180	<0.001
Patient	36-90	56.04	0.003		

There is a statistically highly significant decrease in weight of the patients when compared with the references group.

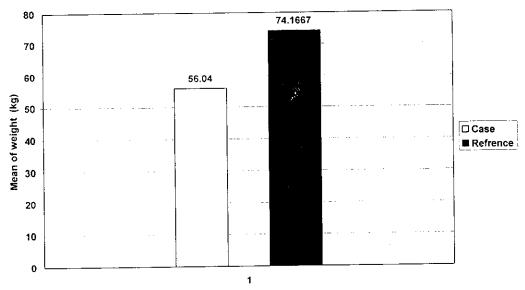


Fig. (3): Mean value of weight in both patient and refrence groups

Table (6): Comparison between patient and reference groups regarding body mass at lex (B.M.I.) kg/m<sup>2</sup>.

B.M.	I.				d posts 27 a data of the section of
Group	Range	$M_{Corr}$	· ±SEM	T	 
Reference	17.3-42.2	20.1	() ()2		
Patient	16.2-27.9	<u> </u>	0,001	4.5179	- 0.001
		 		<u> </u>	

There is a statistically highly significant decrease in BMI in patients when compared with the reference group.

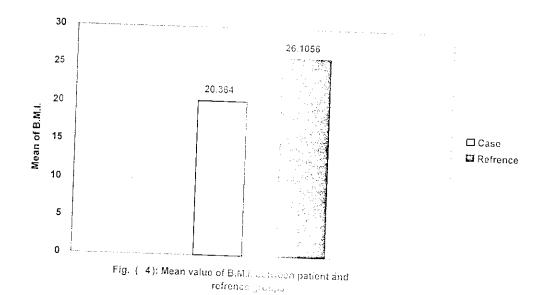


Table (7): Comparison between patient and reference groups regarding blood urea levels (mg/dl).

Urea	Range	Mean	±SEM	<i>t</i>	р
Groups Reference	14-40	27.05	0.02	-14.6631	< 0.001
Patient	95-210	145.50	0.01	-14.0051	

There is a statistically highly significant increase in the blood urea levels in patients when compared with the reference group.

Table (8): Comparison between reference and patients groups regarding serum creatinine levels (mg/dl).

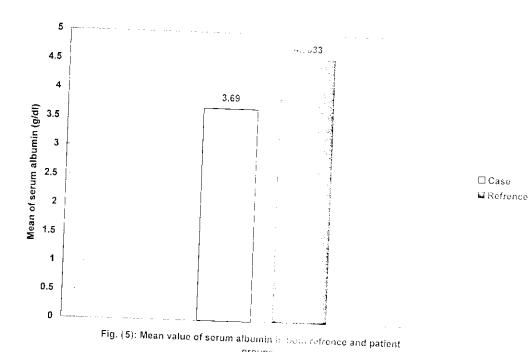
Creatinine	Range	Mean	SEM	t	р
Groups Reference	0.5-1.1	0.79	0.0004	-18.6804	< 0.001
Patient	6.6-15	10.73	0.0008	-10.0001	

There is a statistically highly significant increase in the serum creatinine levels in patients when compared with the reference group.

Table (9): Comparison between reference and patient groups regarding serum alfamilia levels (g/dl).

Albumin	19.00	(Maria)	-	The state of the s		
Groups	Range	Mean	SEM	t	$\frac{1}{1} - \frac{1}{p}$	
Reference	4.3-5	4.55	0.0007		† – – – I	
Patient	2.7-5	1, 0	0.0002	5.7795	i i ~0.00‡ I	

There is a statistically highly significant decrease in the serum albumin levels in the patients when compared with reference group.



groups.

Table (10): Comparison between reference and patients groups regarding serum cholesterol levels (mg/dl).

Cholesterol Groups	Range	Mean	SEM		p
Reference	45-195	105.00	0.10	0.0167	<0.001
Patient	150-350	219.50	0.02	8.8167	

There is a statistically highly significant increase in the serum cholesterol levels in the patients when compared with the reference group.

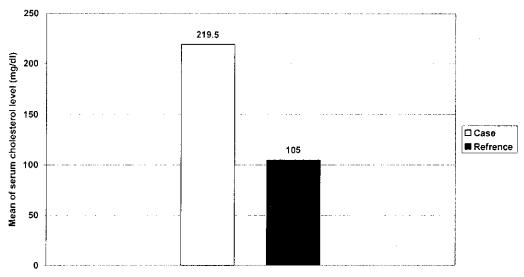


Fig. (6): Mean value of serum cholesterol in both refrence and patient groups.

**Table** (11): Comparison between reference and patients groups regarding blood hemoglobin levels (g/dl).

Hemoglobin Groups	Range	Mean	SEM	t	p
Reference	11.7-15.3	. 3 25	0.003	10.337.5	. 10 1001
Patient	7.5-12	56,68	0.0005	10.2365	* 0,001

There is a statistically highly significant decrease in the blood heamoglobin levels in the patients when compared with the reference group.

Table (12): Comparison between reference and patient groups regarding the lymphocytic percentage.

			<del>                                     </del>		<u> </u>
Lymphocyte	Range	Mean	SEM	t	p
Groups Reference	22-49	31.33	0.01	2.2041	< 0.05
Patient Patient	13-45	26.74	0.003		

There is a statistically significant decrease in the lymphocytic percentage in the patients when compared with the reference group.

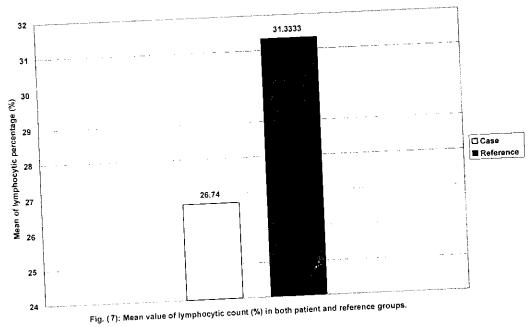


Table (13): Comparison between Advence group and patients group regarding serum leptin level (ng/ml).

Leptin groups	Number of	Mean value	· Greek	Z	P	Significant
	observation	± SEM		į		
Group I	18	6.94	55.32			 
(reference)		± 0.03				
Group II	50		·	- 0.507	> 0.05	Non
patient)		12.27	2,07	!		significant
padent)		± 0.007	İ	 	j	

There is a statistically non signational difference is serum leptin level between patients and reference group.

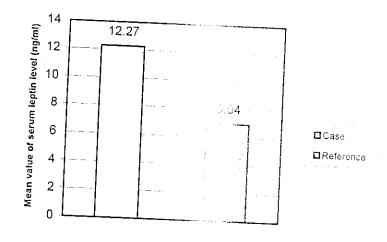


Fig. (8) Mean value of serum leptin level in the improvent and reference groups.

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Table (14): Comparison between reference group after exclusion of 7 obese references and patient group regarding leptin level ng/ml.

Leptin Groups	Number of observation	Mean value	Range	Z	р	Significant
Group I	11	1.11	0.17-3.93			
(reference)		± 0.009		-2.035	<0.05	Significant
Group II	50	12.27	0.06-62.07	-2.033	~0.03	
(patient)	<u>,, </u>	<u>+</u> 0.007				

There is a statistically significant increase in the serum leptin level in the patients when compared with the reference group.

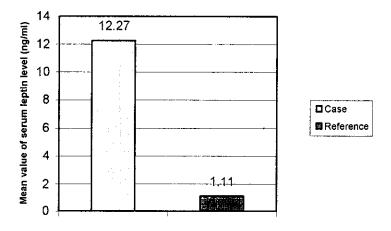


Fig. (9) Mean value of serum leptin level in both patient and reference groups after exclusion of 7 obese references

**Table (15):** Comparison between the lance group after exclusion of 7 obese references and patient group with negative anorexia regarding serum leptin level (ng/ml).

Leptin	Number of	Mean value		Z	])	Significant
Groups	observation	± SEM				
Group I	11	1.11	3.93			
(reference)		± 0.009	i i	0.041	>0,05	Non
Group II	20	2,06	12.46			significant
(patient)		± 0.007	: ! !			

There is a statistically non signalizant difference in serum leptin level between patients with negative and reference group.

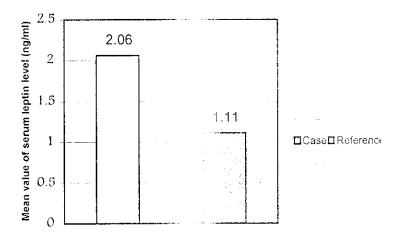


Fig. (10) Mean value of serum leptin level in both paties. This negative anorexia and reference groups after exclusion of 7 etc. to references

Table (16): Comparison between reference group after exclusion of 7 obese references and patient group with positive anorexia regarding serum leptin level (ng/ml).

Leptin	Number of observation	Mean value + SEM	Range	Z	p	Significant
Group I	11	1.11	0.17-3.93			
(reference)		± 0.009		-3.222	<0.001	Highly
Group II	30	19.08	0.06-62.07			significant
(patient)		± 0.02				

There is a statistically highly significant increase in the serum leptin level in the patients with positive anorexia when compared with reference group.

Fig. (10) Mean value of serum leptin level in both patient with negative anorexia and reference groups after exclusion of 7 obese references

Fig. (10) Mean value of serum leptin level in both patient with negative anorexia and reference groups after exclusion of 7 obese references

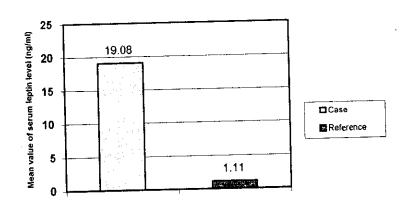


Fig. (11) Mean value of serum leptin level in both patient with positive anorexia and reference groups after exclusion of 7 obese references

 Table (17): Correlation of lymphocytic percentage with all other parameters in the patients group.

Parameters	r	Į.	Result
Age (years)	-0.149	- (1,1),5	Non significant, negative correlation
Duration of dialysis (years)	-0.315	1 1,05	Significant, negative correlation
Height (meter)	-0.041		Non significant, negative correlation
Weight (kg)	0.296	0.05	Significant, positive correlation
B.M.I. kg/m <sup>2</sup>	0.428	- 8765 T	Significant, positive correlation
Serum leptin level (ng/ml)	-0.725	+ 0,05	Significant, negative correlation
Blood urea level (mg/dl)	0.021	Transpira I	Non Significant, positive correlation
Serum creatinine level (mg/dl)	0.164	- 1,11	Non Significant, positive correlation
Serum albumin level (g/dl)	0.516		Significant, positive correlation
Serum eholesterol level (mg/dl)	0.294		Significant, positive correlation

Table (18): Correlation of serum cholesterol levels with all other parameters in the patient group.

Parameters	r	p	Result
Age (years)	-0.217	> 0.05	Non significant, negative correlation
Duration of dialysis (years)	-0.004	> 0.05	Non significant, negative correlation
Height (meter)	0.141	> 0.05	Non significant, positive correlation
Weight (kg)	0.141	> 0.05	Non significant, positive correlation
B.M.I. kg/m <sup>2</sup>	0.115	> 0.05	Non significant, positive correlation
Serum leptin level (ng/ml)	-0.249	> 0.05	Non significant, negative correlation
Blood urea level (mg/dl)	0.294	< 0.05	Significant, positive correlation
Serum creatinine level (mg/dl)	0.533	< 0.05	Significant, positive correlation
Serum albumin level (g/dl)	0.341	< 0.05	Significant, positive correlation
Blood hemoglobin level (mg/dl)	0.292	< 0.05	Significant, positive correlation
Lymphocytic percentage (%)	0.294	< 0.05	Significant, positive correlation

Table (19): Correlation of serum albumin levels (gm/dl) with all other parameters in the patient group.

Parameters	r	$\frac{1}{1}$ $p$	Result
Age (years)	-0.102	0.05	Non significant, negative correlation
Duration of dialysis (years)	-0.215	1	Non significant, negative correlation
Height (meter)	-0.045	10,05	Non significant, negative correlation
Weight (kg)	0.228	1 Te.45	Non significant, positive correlation
B.M.I. kg/m <sup>2</sup>	0.324	F 35 T	Significant, positive correlation
Serum leptin level (ng/ml)	-0.624		Significant, negative correlation
Blood urea level (mg/dl)	-0.186	1 1115	Non significant, negative correlation
Serum creatinine level (mg/dl)	0.102	Table	Non significant, positive correlation
Serum cholesterol level (mg/dl)	0.341	17.5	Significant, positive correlation
Blood hemoglobin level (mg/dl)	0.086		Non significant, positive correlation
Lymphocytic percentage (%)	0.516	11,035	Significant, positive correlation

Table (20): Correlation of body mass index and all other parameters in patients and reference groups.

		Referen	ce		Pati	Patient		
Parameter	r	р	Results	r	р	Results		
Age (years)	0.307	> 0.05	Non significant, Positive correlation	-0.084	> 0.05	Non significant, Negative correlation		
Duration of dialysis (years)				- 0.274	> 0.05	Non significant, Negative correlation		
Height (meter)	-0.501	> 0.05	Non significant, Negative correlation	-0.085	> 0.05	Non significant, Negative correlation		
Weight (kg)	0.965	< 0.05	significant, positive correlation	0.750	< 0.05	significant, positive correlation		
Serum leptin level (ng/ml)	0.782	< 0.05	significant, positive correlation	-0.605	< 0.05	Significant, Negative correlation		
Blood urea level (mg/dl)	0.206	> 0.05	Non significant, Positive correlation	-0.105	> 0.05	Non significant, Negative correlation		
Serum creatinine level (mg/dl)	-0.345	>0.05	Non significant, Negative correlation	-0.244	> 0.05	Non significant, Negative correlation		
Serum albumin level (g/dl)	-0.305	> 0.05	Non significant, Negative correlation	0.324	< 0.05	significant, positive correlation		
Serum cholesterol level (mg/dl)	0.254	> 0.05	Non significant, Positive correlation	0.115	> 0.05	Non significant, positive correlation		
Blood hemoglobin level (mg/dl)	-0.071	> 0.05	Non significant, Negative correlation	0.053	> 0.05	Non significant, positive correlation		
Lymphocytic percentage (%)	-0.023	> 0.05	Non significant, Negative correlation	0.428	< 0.05	Significant, positive correlation		

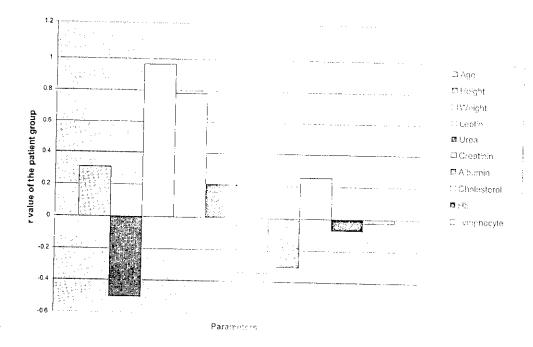


Fig. (12): Shows the correlation between 111, rences group and all other parameters regarding Body Nuss Index (BMI).

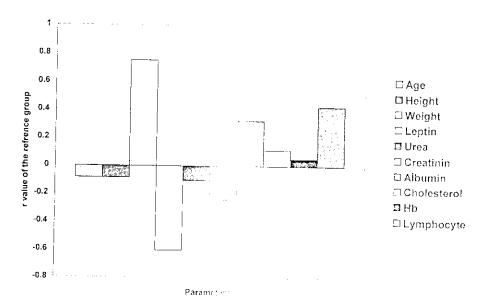


Fig. (13): Shows the correlation between the patients group and all other parameters regarding Body Mass Index (BMI).

Table (21): Correlation of serum leptin level (ng/ml) and all other parameters in patients and reference groups.

		Referenc	e		Patie	Results
Parameter	r	p	Results	r	p	<del></del>
Age (years)	0.388	> 0.05	Non significant, Positive	0.127	> 0.05	Non significant, Positive correlation
Duration of dialysis			correlation	0.230	> 0.05	Non significant, Positive correlation
(years)			- i-nificant			Non significant,
Height (meter)	-0.041	> 0.05	Non significant, negative correlation	-0.009	> 0.05	negative correlation
Weight (kg)	0.730	< 0.05	Significant, Positive	-0.482	< 0.05	Significant, Negative correlation
B.M.1. kg/m <sup>2</sup>	0.782	< 0.05	correlation Significant, Positive correlation	-0.605	< 0.05	Significant, Negative correlation
Blood urca level	0.206	> 0.05	Non Significant, Positive	0.049	> 0.05	Non significant, Positive correlation
(mg/dl) Serum creatinine	-0.268	>0.05	Non significant, negative	-0.172	> 0.05	Non significant, negative correlation
level (mg/dl)		0.05	Non significant, negative	-0.624	< 0.05	Significant, Negative
Serum albumin level (g/dl)	-0.334	> 0.05	correlation	<u> </u>	<del></del>	Non significant,
Serum cholesterol	0.476	< 0.05	Significant, positive correlation	-0.249	> 0.05	Negative correlation
level (mg/dl)  Blood hemoglobin	-0.210	> 0.05	Non significant, Negative	-0.122	> 0.05	Non significant, Negative correlation
level (mg/dl)  Lymphocytic	-0.121	> 0.05	Non significant,	-0.725	< 0.05	Significant, Negative correlation

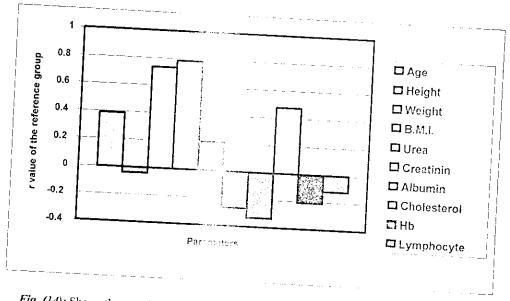


Fig. (14): Shows the correlation between serum leptin level and all other parameters in reference group.

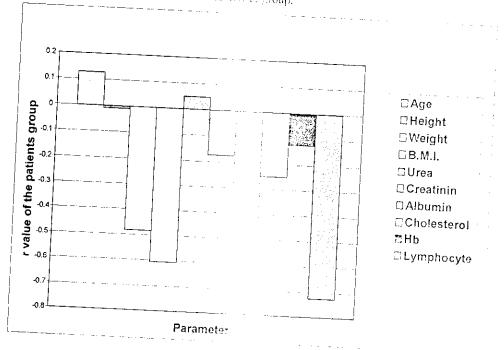


Fig. (15): Shows the correlation between server leptin level and all other parameters in the patient corresp.