

Table (1): Comparison of the three studied groups by socio demographic characteristics, family history and chronic illness (N. =85)

Parameter	Malignant tumor (N=60)	Benign tumor (N=10)	Healthy control (N=15)	P-value
Age				
Mean± S.D.	46.2 ± 18.9	52.8 ± 16.3	34.7 ± 10.9	0.024*
Median (Range)	44.5 (15 – 82)	52.5 (25 -75)	36 (20 – 59)	
Sex				
Males (%)	22 (56.4%)	4 (10.3%)	13 (33.3%)	0.002**
Females (%)	38 (82.6%)	6 (13.1%)	2 (4.3%)	
Family history				
Negative (%)	46 (83.6%)	9 (16.4%)	--	0.678***
Positive (%)	14 (93.3%)	1 (6.7%)		
Chronic illness				
Yes (%)	14 (66.7%)	7 (33.3%)	--	0.006***
No (%)	46 (93.9%)	3 (6.1%)		

Table (2): Comparison of Visfatin enzyme levels according to tumor burden (N. = 60)

Visfatin level is proportionally correlated with tumor burden

Enzyme	High (N=24)	Low (N=36)	P-value
Visfatin (µg/dl)			
Mean± S.D.	15.9 ± 2.7	14.02 ± 2.4	0.006*
Median (Range)	16.8 (11.8 – 19.7)	14 (10.9 – 19.1)	

Table (3): Comparison of Visfatin enzyme levels according to invasiveness and metastasis (N. = 60) Visfatin level is proportionally correlated with invasiveness and metastasis

Enzyme	Yes (N= 24)	No (N= 36)	P-value
Visfatin (µg/dl)			
Mean± S.D.	17.6 ± 1.3	12.9 ± 1.4	0.000*
Median (Range)	17.05 (15.1 – 19.7)	12.8 (10.9 – 15.5)	

Table (4): Comparison of Visfatin enzyme levels according to grade (N. =60)Visfatin level is proportionally correlated with tumor grade

Enzyme	Grade 1 (N=2)	Grade 2 (N=46)	Grade 3 (N=12)	P-value
Visfatin (µg/dl) Mean± S.D. Median(Range)	14.4 ± 0.0 14.4 (14.4 – 14.4)	14.7 ± 2.7 14.1 (11 -19.7)	15.4 ± 3.1 16.8 (10.9– 19.1)	0.867

Table (5): Comparison of Visfatin enzyme levels according to differentiation (N. =60)Visfatin level is proportionally correlated with tumor differentiation

Enzyme	Poor differentiation (N=16)	Moderate differentiation (N=38)	Well differentiation (N=6)	P- value
Visfatin (µg/dl) Mean± S.D. Median(Range)	17.8 ± 1.8 18.1 (14.1 – 19.7)	13.9 ± 2.1 14 (10.9 -17.1)	12.5 ± 1.5 11.7 (11.3– 14.4)	0.000*

Table (6): Comparison of Visfatin enzyme levels according to stage of cancer (N. =60)Visfatin level is proportionally correlated with stage of cancer

Enzyme	Stage I (N=10)	Stage II (N=32)	Stage III (N=14)	Stage IV (N=4)	P-value
Visfatin (µg/dl) Mean± S.D. Median (Range)	12.4 ± 1.2 12.5 (11 – 14)	13.7 ± 1.9 14.1 (10.9 - 17.1)	17.6 ± 1.05 17 (16.5– 19.7)	19.4 ± 0.3 19.4 (19.1– 19.7)	0.000*

Table (7): Comparison of Visfatin enzyme level among the study groups

Enzyme	Malignant tumor (N=60)	Benign tumor (N=10)	Healthy control (N=15)	P-value	P1	P2	P3
Visfatin (µg/dl) Mean± S.D. Median (Range)	14.8 ± 2.7 14.3 (10.9 – 19.7)	5.4 ± 1.8 5.6 (1.4 -8)	2.7 ± 1.2 2.4 (1 – 5)	0.000*	0.000 *	0.00 1*	0.0 00 *

Table (8): Comparison of Nitric oxide and lipid peroxide and superoxide dismutase enzyme level among the study groups

Enzyme	Malignant tumor (N=60)	Benign tumor (N=10)	Healthy control (N=15)	P-value	P1	P2	P3
Nitric oxide(Mmol/L) Mean± S.D. Median (Range)	19.9 ± 2.9 20.3 (15 – 25)	8.9 ± 1.5 8.4 (7.4-12)	5.1 ± 0.6 5 (4.1 – 6)	0.000 *	0.000*	0.000 *	0.00 0*
lipid peroxide (µmol/L) Mean± S.D. Median (Range)	6.3 ± 1.1 6.2 (4 – 8)	3.6 ± 0.49 3.6 (3 -4)	2.3 ± 0.52 2 (3 – 4)	0.000 *	0.000*	0.001 *	0.00 0*
superoxide dismutase (Unit/L) Mean± S.D. Median (Range)	241.3 ± 56.3 230.5	259 ± 26.8 245	424.5 ± 24.4 425	0.000 *	0.000*	0.001 *	0.00 0*