RESULTS

Table (1): Distribution of patients according to different stages of hepatic fibrosis.

Stages of fibrosis	No	%
0	9	18
1	18	36
2	9	18
3	8	16
4	6	12
Total	50	100%

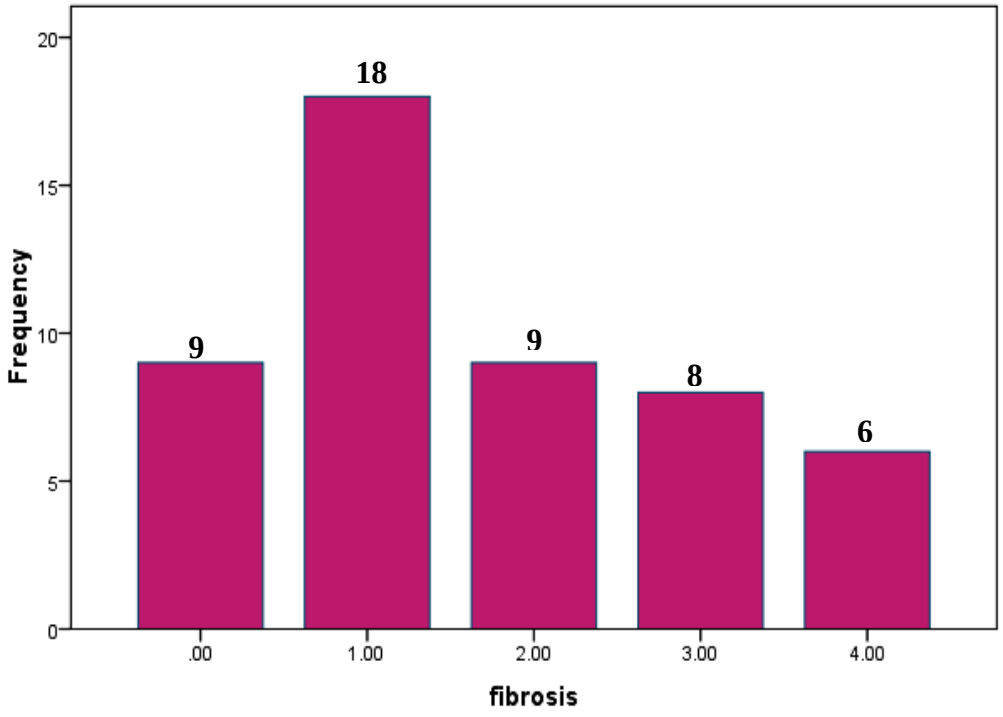

Figure (1): Distribution of patients according to different stages of hepatic fibrosis.

Table (2): Characteristics of patients according to the stage of fibrosis and grade of necroinflammtory changes.

Stage / Grade	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
Grade 0	0	0	0	0	0	0	
Grade 1	26	96.3	14	60.9	40	80	
Grade 2	1	3.7	9	39.1	10	20	**0.002**
Grade 3	0	0	0	0	0	0	
Total	27	100.0	23	100.0	50	100.0	

There was statistically significant relationship between stage of fibrosis and necroinflammatory changes .

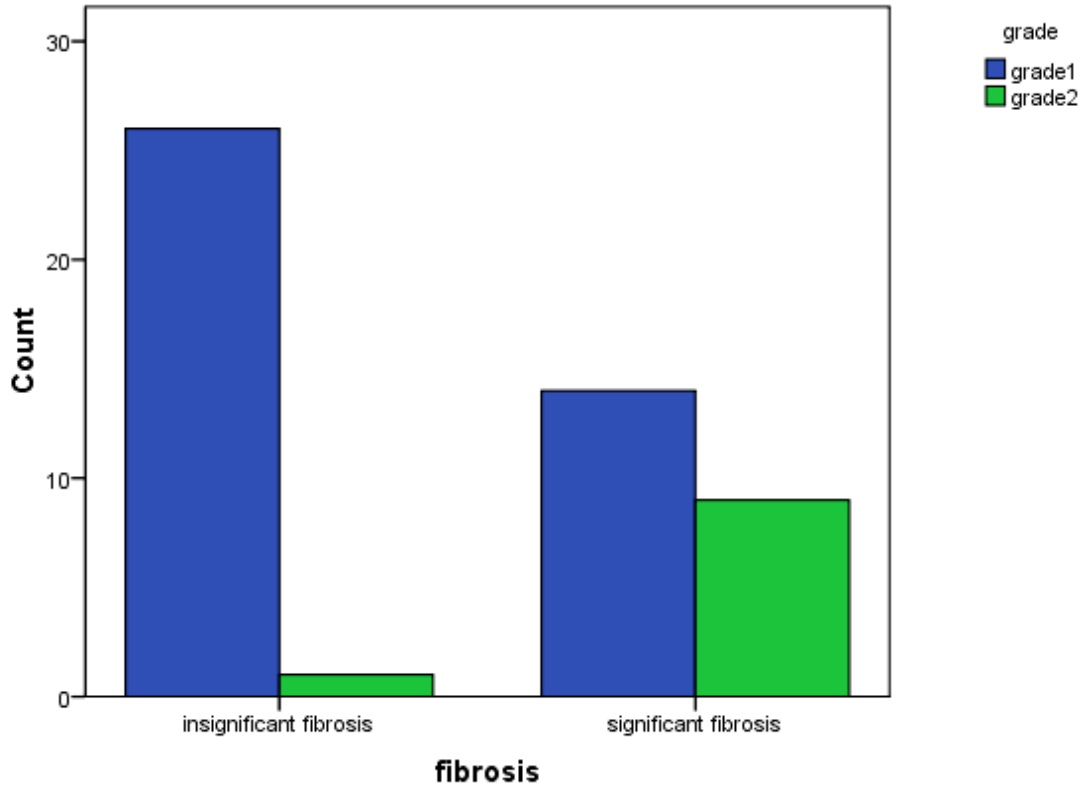

Figure (2):Characteristics of patients according to the stage of fibrosis and grade of necroinflammtory changes.

Table (3): Characteristics of patients according to the stage of fibrosis and degree of steatosis.

Stage / Steatosis	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
5%	15	55.6	14	60.9	29	58	
10%	11	40.7	4	17.4	15	30	**0.048**
15%	1	3.7	5	21.7	6	12	
Total	27	100.0	23	100.0	50	100.0	

There was significant relationship between stage of fibrosis and different degrees of steatosis

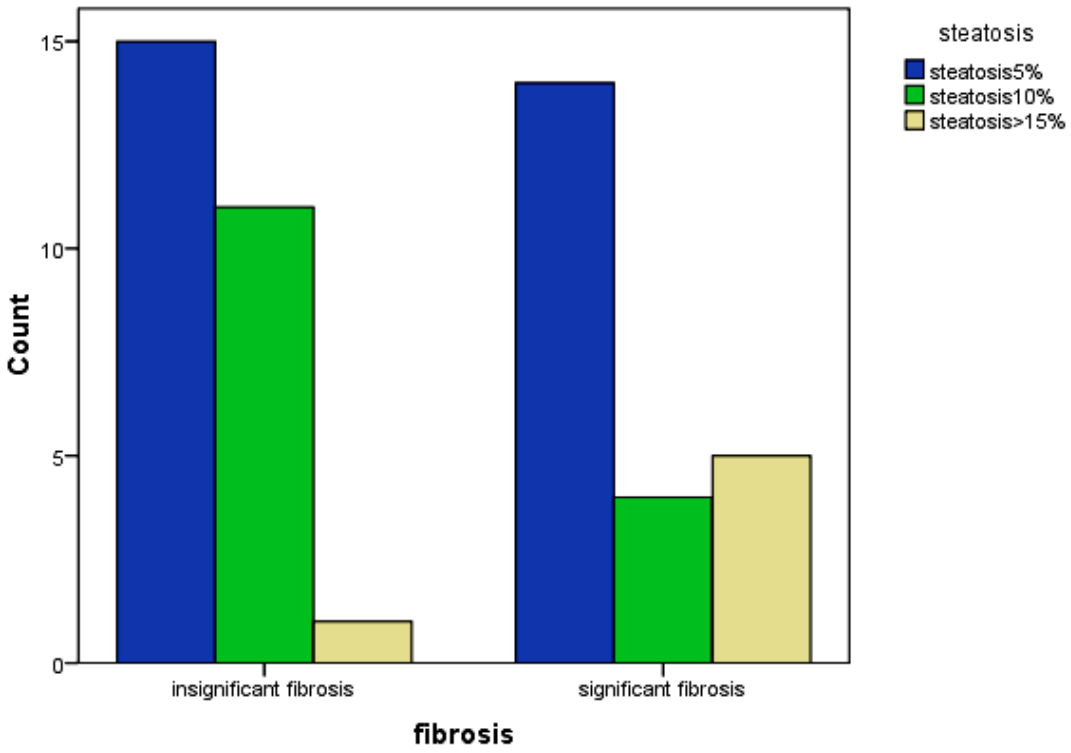

Figure (3): Characteristics of patients according to the stage of fibrosis and degree of steatosis.

Table (4):Characteristics of patients according to stage of fibrosis and changes in normal alanine aminotransferase level.

Stage / ALT U/L	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
≤ 30	16	59.3	13	56.5	29	58	***0.536***
31-40	11	40.7	10	43.5	21	42	
Total	27	100.0	23	100.0	50	100.0	

There was no significant relationship between stage of fibrosis changes in normal alanine aminotransferase level.

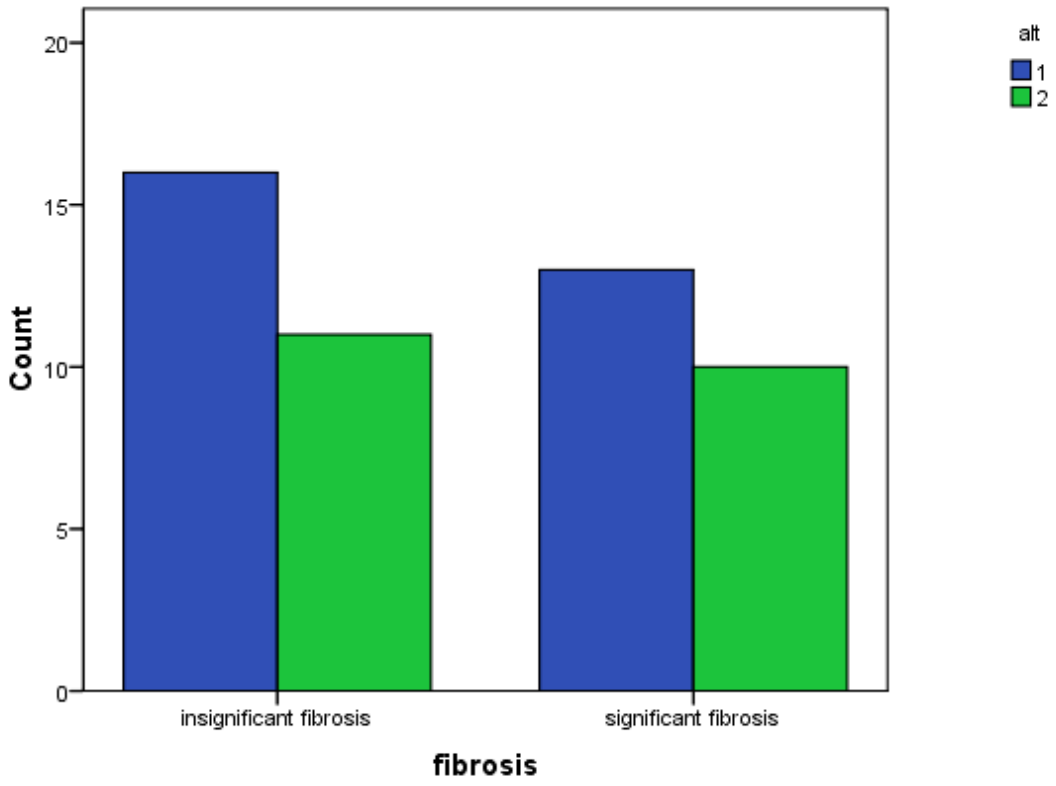

Figure (4):Characteristics of patients according to stage of fibrosis and . changes in normal alanine aminotransferase level.

Table (5): Characteristics of patients according to the stage of fibrosis and sex.

Stage / Sex	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
Female	4	14.8	7	30.4	11	22	***0.162***
Male	23	85.2	16	69.6	39	78	
Total	27	100.0	23	100.0	50	100.0	

There was no statistically significant relationship between stage of fibrosis and sex.

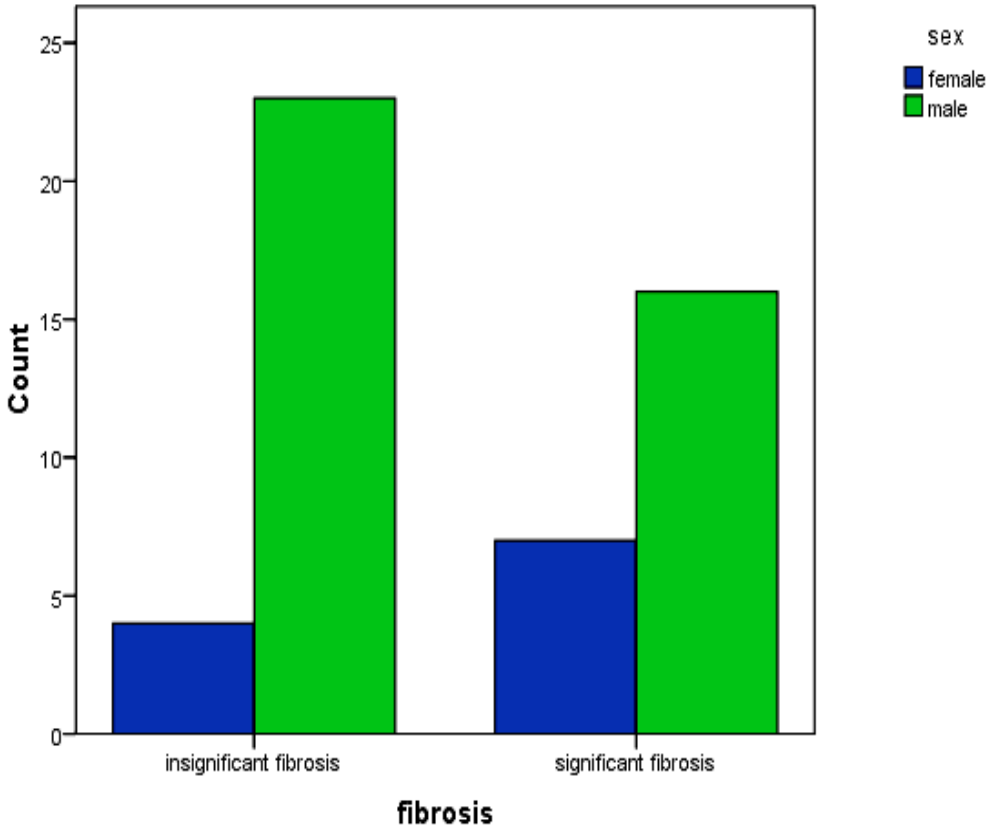

Figure (5): Characteristics of patients according to the stage of fibrosis and sex .

Table (6): Characteristics of patients according to the stage of fibrosis and HCV RNA level.

Stage / PCR IU/ml	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
< 100.000	10	37	6	26.1	16	32	
100.000 – 1.000.000	15	55.6	12	52.2	27	54	***0.308***
> 1.000.000	2	7.4	5	21.7	7	14	
Total	27	100.0	23	100.0	50	100.0	

There was no statistically significant relationship between the stage of fibrosis and HCV RNA level.

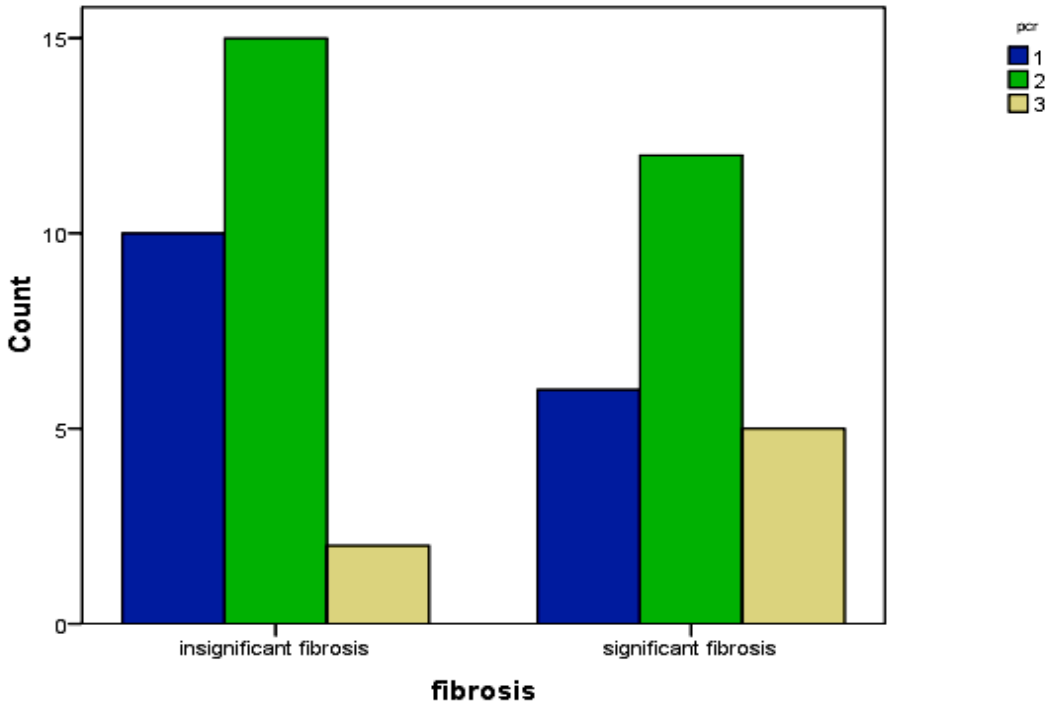

Figure (6):Characteristics of patients according to the stage of fibrosis and HCV RNA level.

Table (7): Characteristics of patients according to the stage of fibrosis and blood transfusion.

Stage / Blood transfusion	Insignificant fibrosis Stage (0-1)		Significant fibrosis Stage (2-4)		Total		P. value
	No.	%	No.	%	No.	%	
No	19	70.4	16	69.6	35	70	***0.595***
Yes	8	29.6	7	30.4	15	30	
Total	27	100.0	23	100.0	50	100.0	

There was no statistically significant relationship between the stage of fibrosis and blood transfusion.

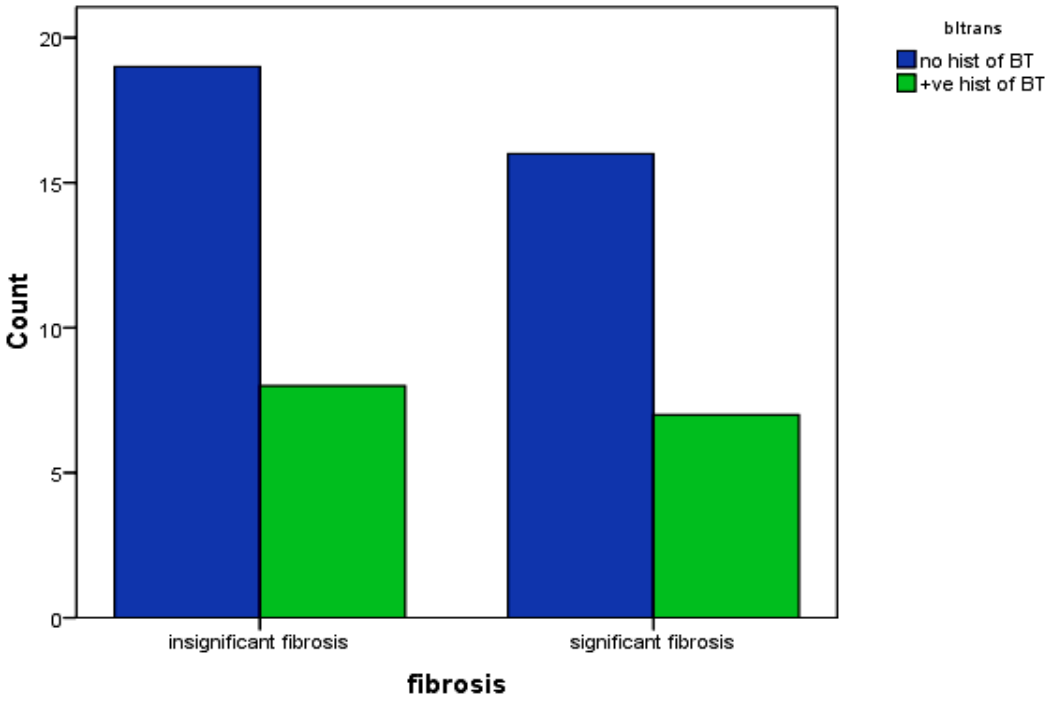

Figure (7): Characteristics of patients according to the stage of fibrosis and blood transfusion.

Table (8):Characteristics of patients according to (X ± SD) of age and stage of fibrosis.

Age / Stage	X ± SD	P. value
Insignificant firbosis (0-1)	39.2 ± 9.6	***0.186***
Significant firbosis (2-4)	43.3 ± 7.0	

There was no significant relationship between (X ± SD) of age and stage of fibrosis.

Table (9):Characteristics of patients according to the grade of necroinflommatory changes and degree of steatosis.

Grade / Steatosis	Grade 1		Grade 2		Total		P. value
	No.	%	No.	%	No.	%	
5%	23	57.5	6	60	29	58	***0.080***
10%	14	35	1	10	15	30	
15%	3	7.5	3	30	6	12	
Total	40	100.0	10	100.0	50	100.0	

There was no significant relationship between the grade of necroinflammtory changes and degree of steatosis.

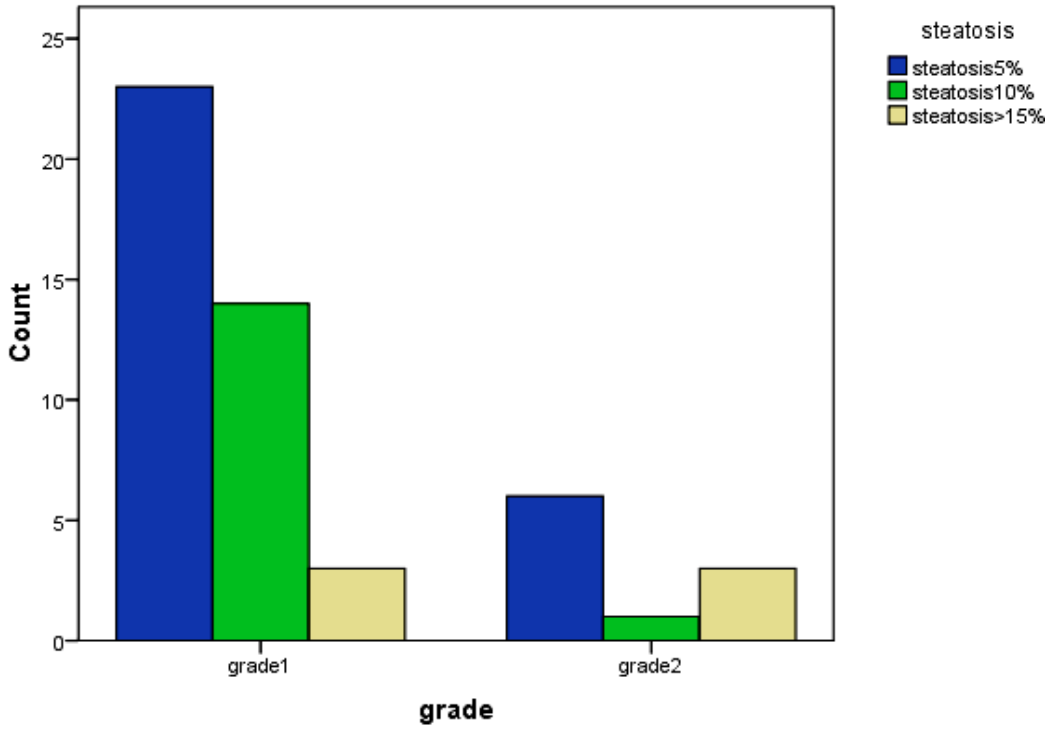

Figure (8):Characteristics of patients according to the grade of necroinflommatory changes and degree of steatosis.

Table (10):Characteristics of patients according to the grade of necroinflammatory changes and changes in normal alanine aminotransferase level.

Grade / ALT U/L	Grade 1		Grade 2		Total		P. value
	No.	%	No.	%	No.	%	
≤ 30	23	57.5	6	60	29	58	***0.589***
31-40	17	42.5	4	40	21	42	
Total	40	100.0	10	100.0	50	100.0	

There was no significant relationship between the grade necorinflammatory changes and changes in normal alanine aminotransferase level.

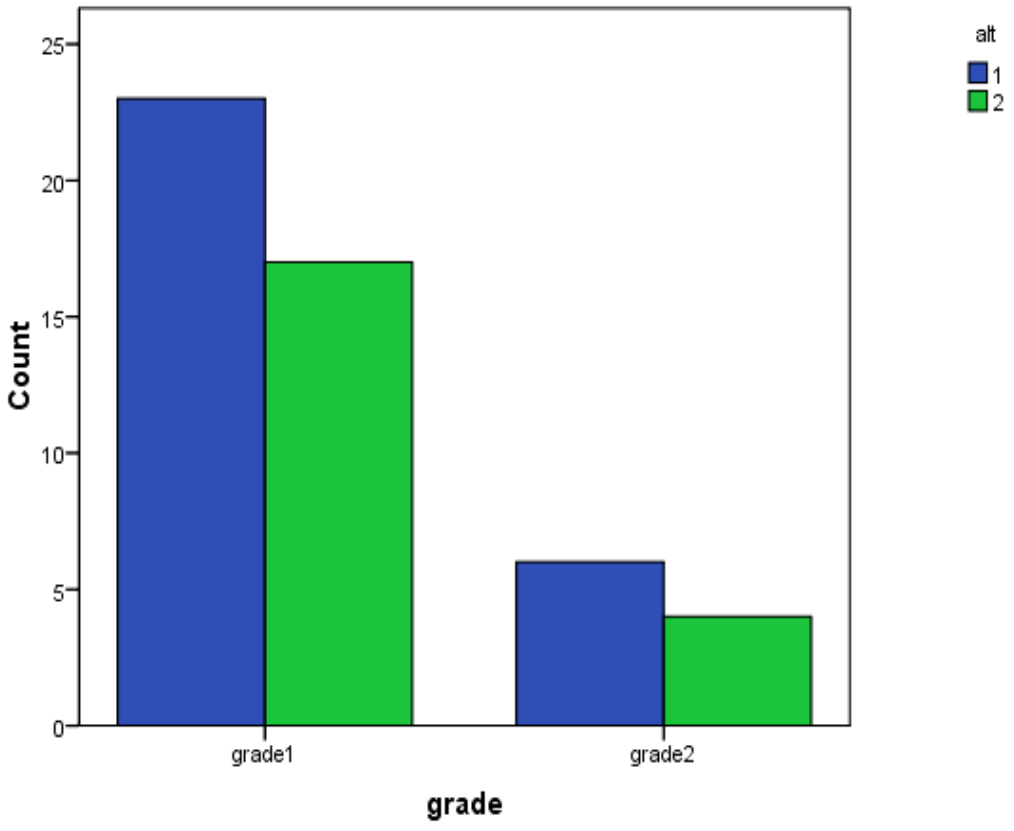

Figure (9):Characteristics of patients according to the grade of necroinflammatory changes and changes in normal alanine aminotransferase level.

Table (11):Characteristics of patients according to (X ± SD) of age and grading of necroinflammatory changes.

Age / Grade	X ± SD	P. value
Grade 1	37.7 ± 9.8	**0.011**
Grade 2	43.3 ± 7.2	

There was significant relationship between (X ± SD) of age and grading of necroinflammatory changes.

Table (12):Characteristics of patients according to the grade of necroinflommatory changes and sex.

Grade / Sex	Grade 1		Grade 2		Total		P. value
	No.	%	No.	%	No.	%	
Female	9	22.5	2	20	11	22	***0.618***
Male	31	77.5	8	80	39	78	
Total	40	100.0	10	100.0	50	100.0	

There was no significant relationship between the grade of necroinflammatory changes and sex.

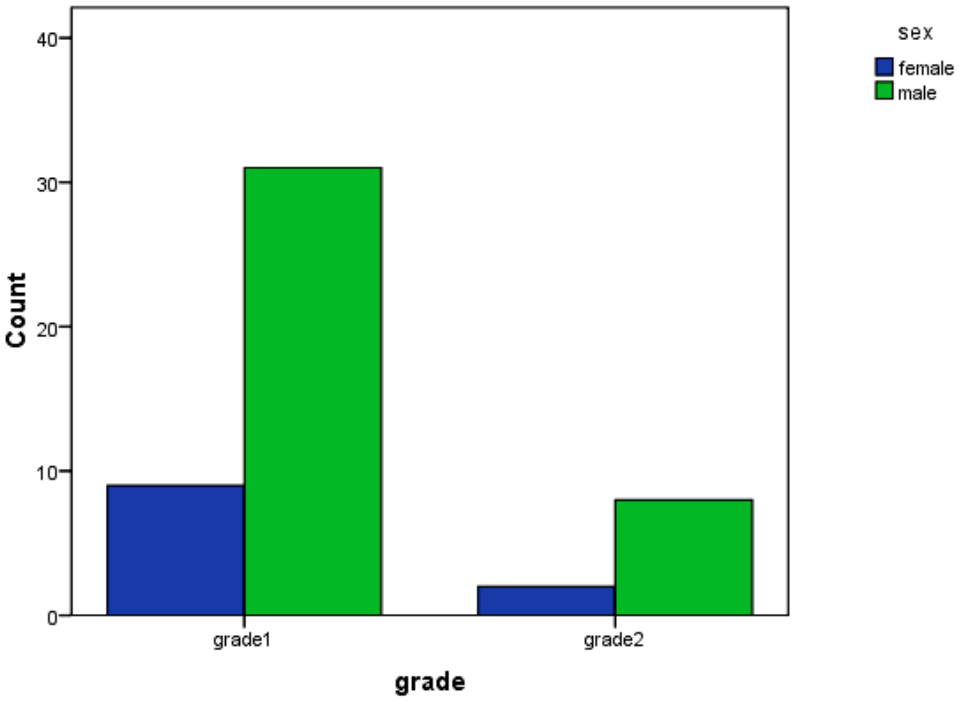

Figure (10): Characteristics of patients according to the grade of necroinflommatory changes and sex.

Table (13):Characteristics of patients according to the grade of necroinflommatory changes and blood transfusion.

Grade / Blood transfusion	Grade 1		Grade 2		Total		P. value
	No.	%	No.	%	No.	%	
No	29	72.5	6	60	35	70	***0.341***
Yes	11	27.5	4	40	15	30	
Total	40	100.0	10	100.0	50	100.0	

There was no significant relationship between the grade of necroinflammtory changes and blood transfusion.

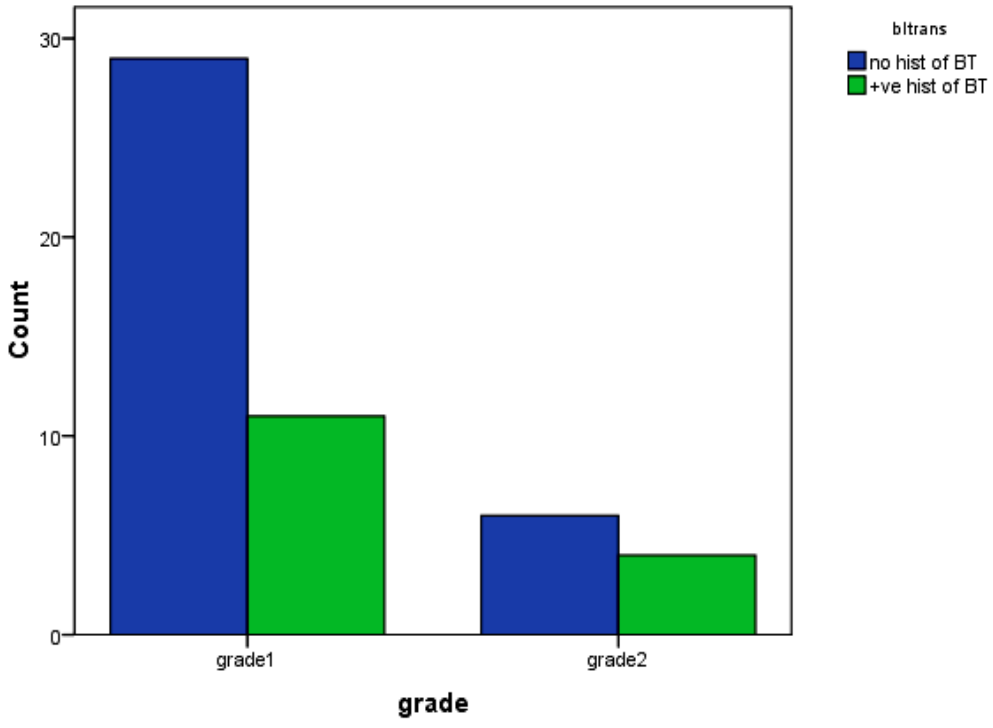

Figure (11):Characteristics of patients according to the grade of necroinflammatory changes and blood transfusion.

Table (14):Characteristics of patients according to grading of necroinflammatory changes and HCV RNA level.

Grade / PCR IU/ml	Grade 1		Grade 2		Total		P. value
	No.	%	No.	%	No.	%	
< 100.000	13	32.5	3	30	16	32	
100.000 – 1000.000	22	55	5	50	27	54	***0.829***
> 1000.000	5	12.5	2	20	7	14	
Total	40	100.0	10	100.0	50	100.0	

There was no significant relationship between grading of necroinflammatory changes and HCV RNA level.

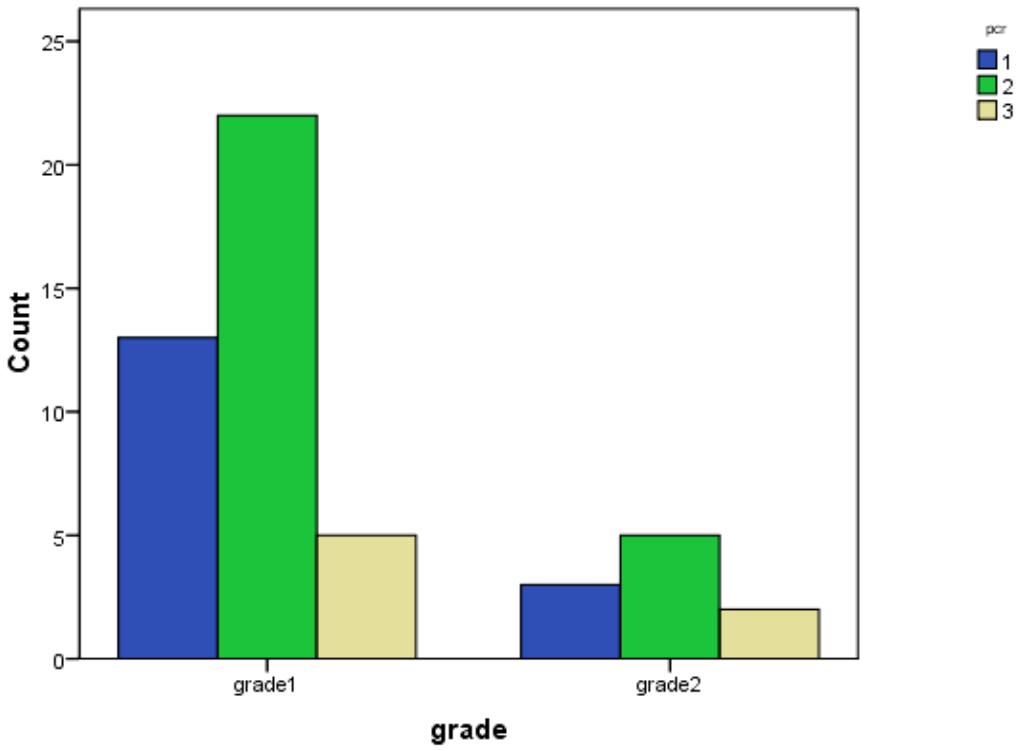

Figure (12):Characteristics of patients according to grading of necroinflammatory changes and HCV RNA level.

Table (15):Characteristics of patients according to (X ± SD) of age and degree of steatosis.

Age / Steatosis	X ± SD	P. value
5%	40.4 ± 9.0	***0.592***
10%	38.2 ± 9.7	
15%	42.8 ± 10.36	

There was no significant relationship between (X ± SD) of age and degree of steatosis.

Table (16):Characteristics of patients according to degree of steatosis and sex.

Steatosis / Sex	5%		10%		15%		Total		P. value
	No.	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	
Female	5	17.2	5	33.3	1	16.7	11	22	***0.448***
Male	24	82.8	10	66.7	5	83.3	39	78	
Total	29	100.0	15	100.0	6	100.0	50	100.0	

There was no significant relationship between degree of steatosis and sex.

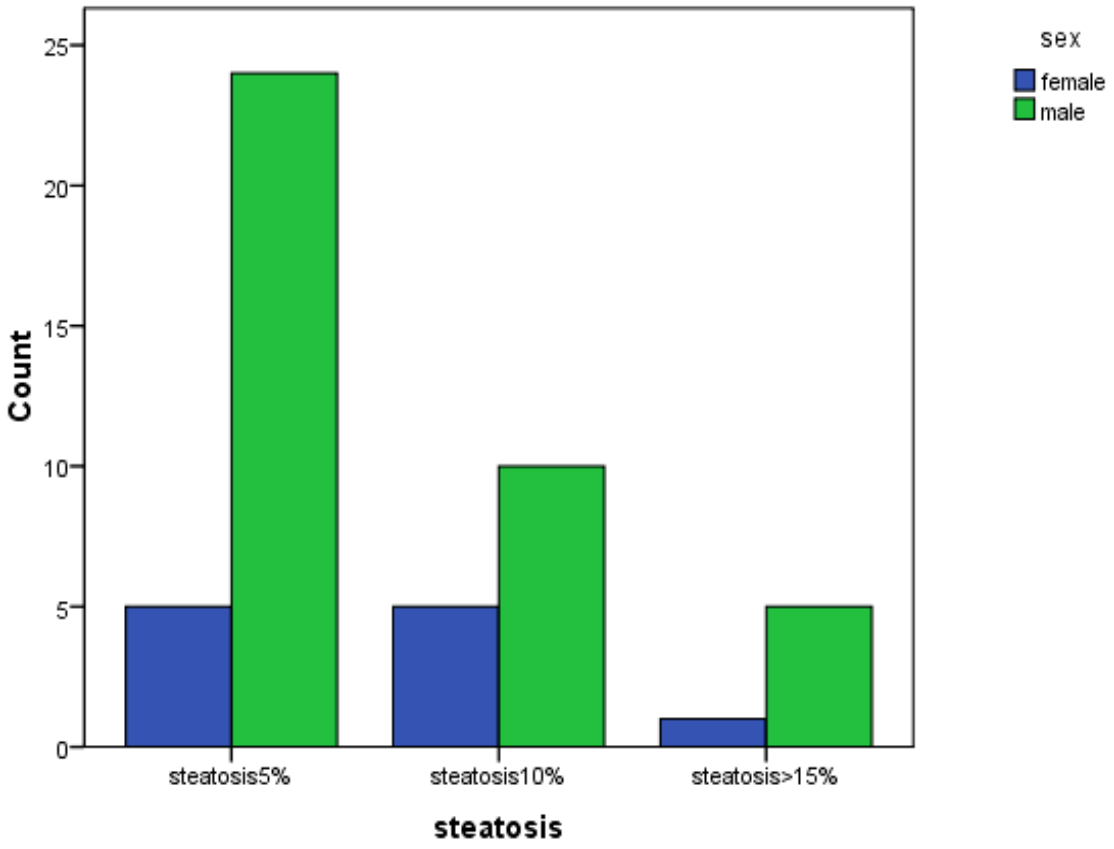

Figure (13):Characteristics of patients according to degree of steatosis and sex.

Table (17):Characteristics of patients according to degree of steatosis and blood transfusion.

Steatosis / Blood transfusion	5%		10%		15%		Total		P. value
	No.	%	No.	%	No.	%	No.	%	
No	21	72.4	10	66.7	4	66.7	35	70	***0.909***
Yes	8	27.6	5	33.3	2	33.3	15	30	
Total	29	100.0	15	100.0	6	100.0	50	100.0	

There was no significant relationship between degree of steatosis and blood transfusion.

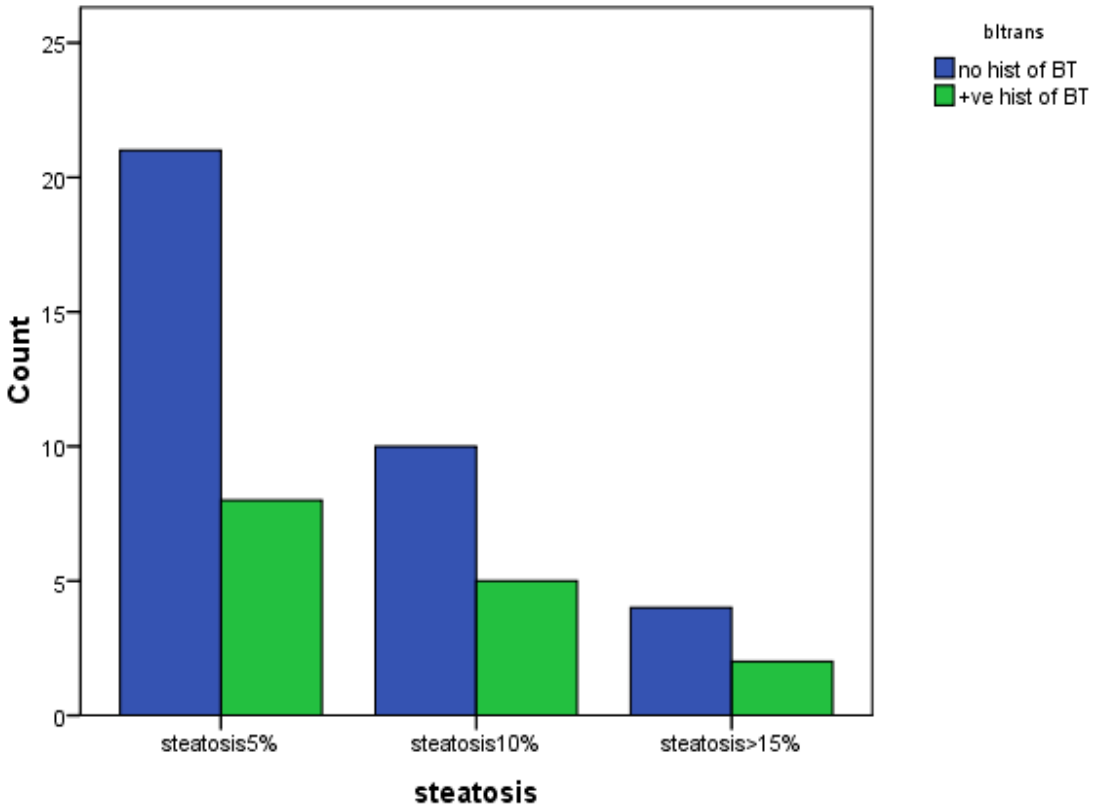

Figure (14):Characteristics of patients according to degree of steatosis and blood transfusion.

Table (18):Characteristics of patients according to degree of steatosis and changes in normal alanine aminotransferase level .

Steatosis / ALT U/L	5%		10%		15%		Total		P. value
	No.	%	No.	%	No.	%	No.	%	
≤ 30	18	62.1	7	46.7	4	66.7	29	58	***0.556***
31-40	11	37.9	8	53.3	2	33.3	21	42	
Total	29	100.0	15	100.0	6	100.0	50	100.0	

There was no significant relationship between degree of steatosis and changes in normal alanine aminotransferase level.

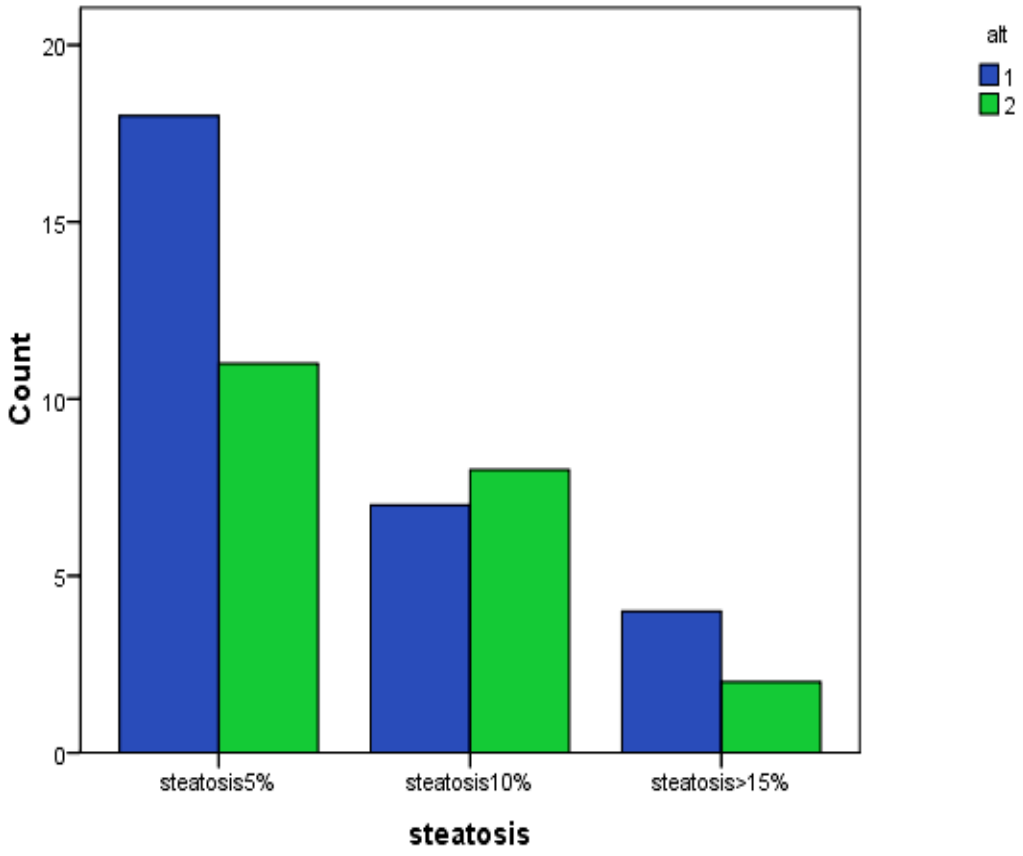

Figure (15): Characteristics of patients according to degree of steatosis and changes in alanine aminotransferase level .

Table (19):Characteristics of patients according to degree of steatosis and HCV RNA level.

Steatosis / PCR IU/ml	5%		10%		15%		Total		P. value
	No.	%	No.	%	No.	%	No.	%	
< 100.000	12	41.4	3	20	1	16.7	16	32	
100.000-1000.000	13	44.8	11	73.3	3	50	27	54	***0.231***
> 1000.000	4	13.8	1	6.7	2	33.3	7	14	
Total	29	100.0	15	100.0	6	100.0	50	100.0	

There was no significant relationship between degree of steatosis and HCV RNA level.

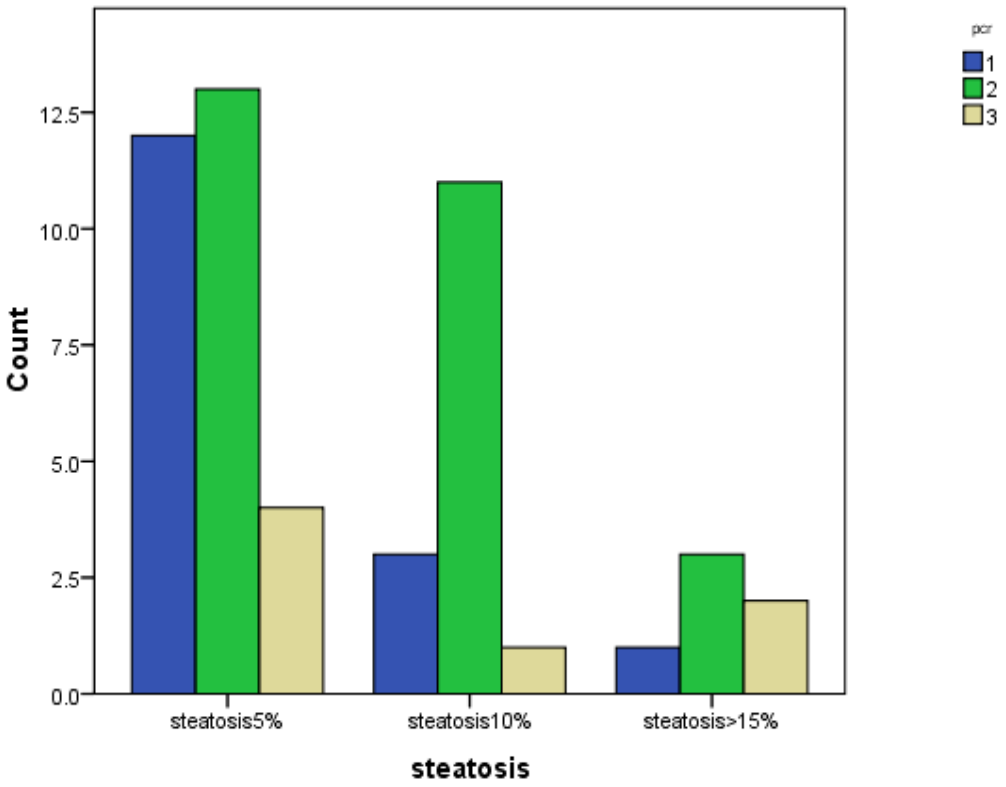

Figure (16):Characteristics of patients according to degree of steatosis and HCV RNA level.

Table (20):Characteristics of patients according to (X ± SD) of age and changes in normal alanine aminotransferas level .

Age / ALT U/L	X ± SD	P. value
≤ 30	44.04 ± 7.8	**0.007**
31- 40	37.0 ± 9.2	

There was significant relationship between (X ± SD) of age and changes in normal alanine aminotransferas level.

Table (21):Characteristics of patients according to changes in normal alanine aminotransferase level and sex.

ALT U/L / Sex	≤ 30 u/I		31-40 u/I		Total		P. value
	No.	%	No.	%	No.	%	
Female	5	17.2	6	28.6	11	22	***0.270***
Male	24	82.8	15	71.4	39	78	
Total	29	100.0	21	100.0	50	100.0	

There was no significant relationship between changes in normal alanine aminotransferas level and sex.

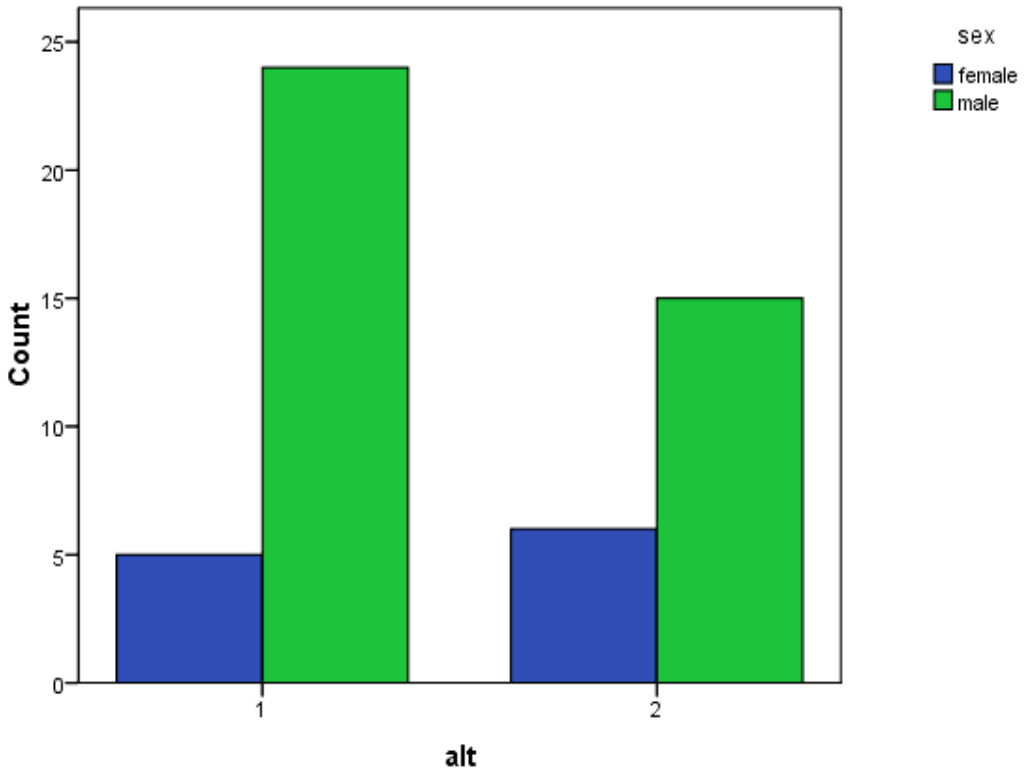

Figure (17):Characteristics of patients according to changes in normal alanine aminotransferas level and sex.

Table (22):Characteristics of patients according to changes in normal alanine aminotransferase level and blood transfusion.

ALT U/L / Blood transfusion	≤ 30 u/I		31-40 u/I		Total		P. value
	No.	%	No.	%	No.	%	
No	20	69	15	71.4	35	70	***0.552***
Yes	9	31	6	28.6	15	30	
Total	29	100.0	21	100.0	50	100.0	

There was no significant relationship between changes in normal alanine aminotransferase level and blood transfusion.

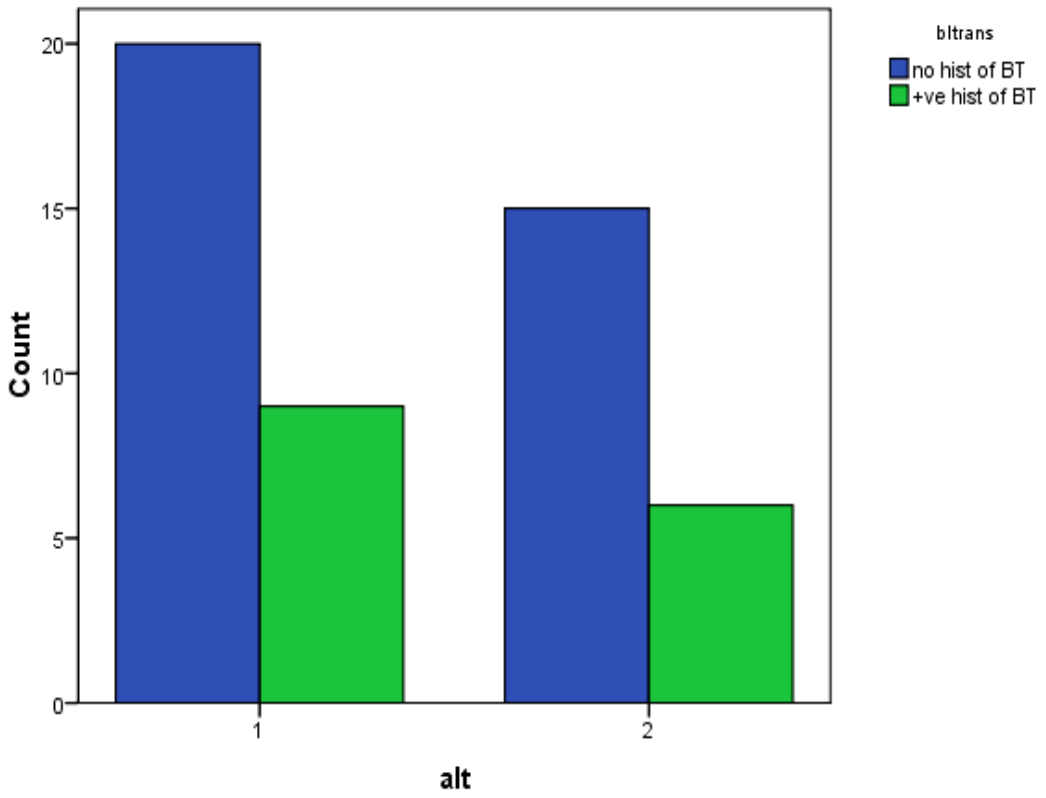

Figure (18):Characteristics of patients according to changes in normal alanine aminotransferase level and blood transfusion.

Table (23):Characteristics of patients according to changes in normal alanine aminotransferase level and HCV RNA level.

ALT U/L / PCR IU/ml	≤ 30 u/I		31-40 u/I		Total		P. value
	No.	%	No.	%	No.	%	
< 100.000	10	34.5	6	28.6	16	32	
100.000-1000.000	14	48.3	13	61.9	27	54	***0.586***
> 1000.000	5	17.2	2	9.5	7	14	
Total	29	100.0	21	100.0	50	100.0	

There was no significant relationship between changes in normal alanine aminotransferase level and HCV RNA level.

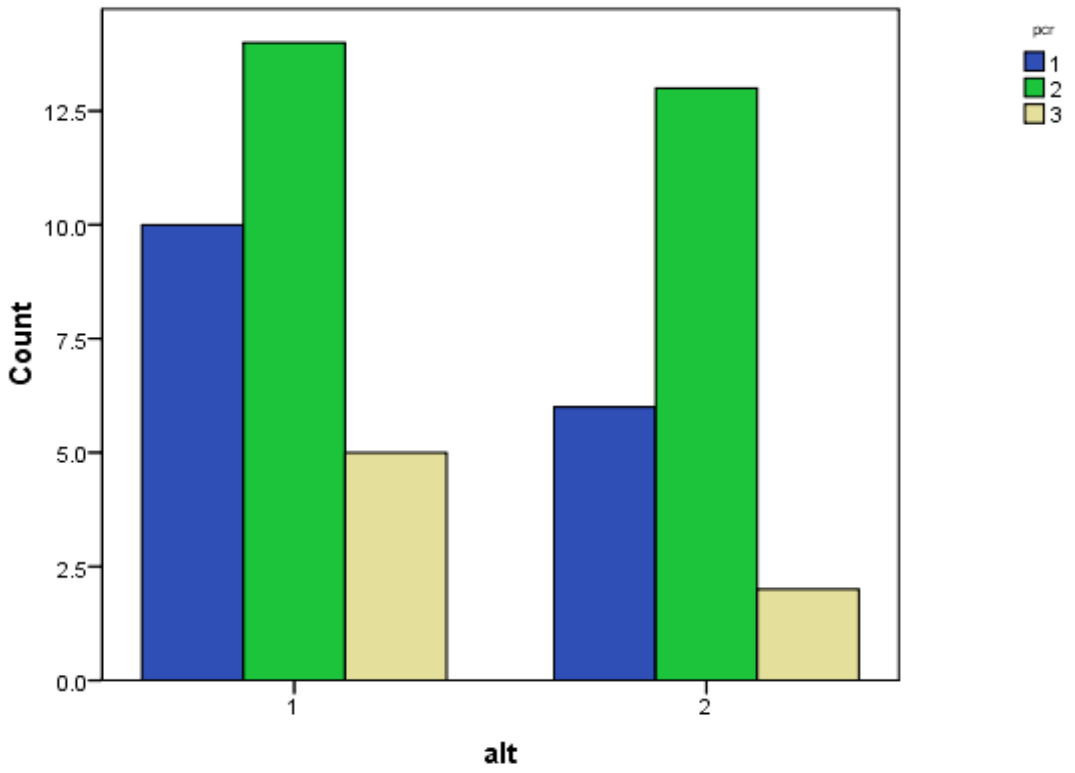

Figure (19):Characteristics of patients according to changes in normal alanine aminotransferase level and HCV RNA level.

Table (24):Characteristics of patients according to (X ± SD) of age and HCV RNA level.

Age / PCR IU/ml	X ± SD	P. value
< 100.000	38.4 ± 9.3	***0.466***
100.000-1000.000	40.01 ± 9.9	
> 1000.000	43.7 ± 6.2	

There was no significant relationship between (X ± SD) of age and HCV RNA level.