

Table 8. Expression of LT β R in patients with chronic HCV infection and healthy control group

Variables		Expression of LT- β R				P value
		Negative	Low	Intermediate	High	
Age	≤ 40	4 (66.66%)	3 (15.78%)	3 (15.78%)	6 (31.57%)	1.00
	> 40	2 (33.33%)	2 (10.52%)	1 (5.26%)	4 (21.05%)	
Gender	Male	3 (50%)	2 (10.52%)	3 (15.78%)	7 (36.84%)	0.653
	Female	3 (50%)	3 (15.78%)	1 (5.26%)	3 (15.78%)	
HAI	3/18	0	0	0	2 (10.52%)	0.634
	4/18	1 (16.66%)	2 (10.52%)	1 (5.26%)	3 (15.78%)	
	5/18	4 (66.66%)	1 (5.26%)	2	3 (15.78%)	
	6/18	0	0	0	1 (5.26%)	
	7/18	0	0	0	1 (5.26%)	
	8/18	1 (16.66%)	1 (5.26%)	1 (5.26%)	0	
	9/18	0	1 (5.26%)	0	0	
Stage	0	0	0	0	3 (15.78%)	0.715
	1/6	5 (83.33%)	1 (5.26%)	0	0	
	2/6	0	1 (5.26%)	1 (5.26%)	2 (10.52%)	
	3/6	0	1 (5.26%)	2 (10.52%)	3 (15.78%)	
	4/6	0	0	0	1 (5.26%)	
	5/6	1 (16.66%)	1 (5.26%)	0	0	
	6/6	0	1 (5.26%)	1 (5.26%)	1 (5.26%)	
Control		13 (100%)	0	0	0	

Table 9. Expression of LT β R in patients with hepatocellular carcinoma and healthy control group

Variables		Expression of LT- β R			
		Negative	Low	Intermediate	High
Age	≤ 40	0	2 (22.22%)	1 (11.11%)	2 (22.22%)
	> 40	1 (100%)	2 (22.22%)	0	2 (22.22%)
Gender	Male	1 (100%)	4 (44.44%)	1 (11.11%)	4 (44.44%)
	Female	0	0	0	0
Grade	I	0	0	0	0
	II	0	0	0	4 (44.44%)
	III	1 (100%)	4 (44.44%)	1 (11.11%)	0
Control		13 (100%)	0	0	

Discussion

It has been established that signaling pathways of lymphotoxins can induce both canonical and noncanonical nuclear factor kappa B (NF- κ B) cell survival system, whose role in controlling hepatic neoplasia remains controversial^(10,12).

The current study had demonstrated that lymphotoxin α and β was over expressed in patients with chronic HCV infection and

hepatocellular carcinoma (Table 1). This was in agreement with the finding of Haybaeck *et al* (2009)⁽¹⁴⁾ who reported the role of persistent lymphotoxin pathways in the development of hepatocellular carcinoma. It has been shown, after studying the expression of lymphotoxin α , β and their receptor in HCV infected transgenic mice that overexpressing these proteins in