

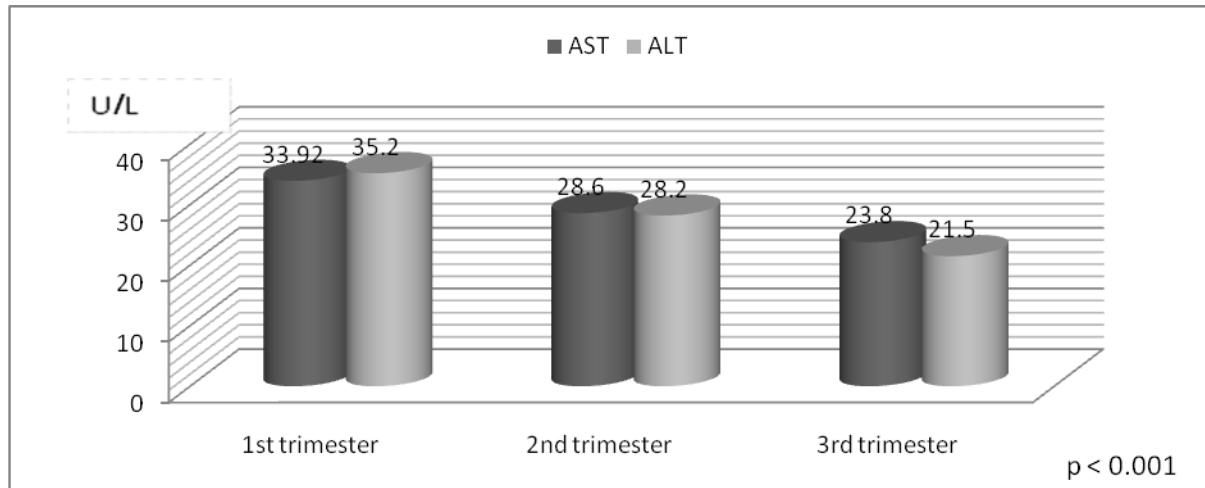
Table (1): Characteristics of the studied groups.

Characteristic (Mean \pm SD)		Case group	Control groups		
		Pregnant HCV – positive (n = 26)	Pregnant HCV- Negative (n = 10)	Non pregnant HCV – positive (n = 10)	Non pregnant HCV – negative (n = 10)
Age (Years)		27.9 \pm 3.8	29.8 \pm 3.9	26 \pm 5,2	32.6 \pm 6.2
Gestational age		37.6 \pm 2.4	38.2 \pm 2.1	-----	-----
Hb (gm/dl)		10.92 \pm 0.958	11.92 \pm 0.97	11.8 \pm 0.7	11.7 \pm 0.93
Platelet		268077 \pm 61710	278077 \pm 62710	251177 \pm 65410	292077 \pm 63110
WBCs		5720 \pm 1420	6100 \pm 1890	6780 \pm 1730	4950 \pm 1040
R.BI.S (mg/dl)		94.85 \pm 24.506	96.58 \pm 25.52	94.85 \pm 23.53	97.85 \pm 23.51
S.Creatinine (mg/dl)		0.697 \pm 0.1254	0.797 \pm 0.13	0.79 \pm 0.2	0.79 \pm 0.13
AST (U/l)	1 ST Trimester	33.92 \pm .78	25 \pm 7.1	69.4 \pm 19.8	24.9 \pm 7
	2 nd Trimester	28.6 \pm 8.5			
	3 rd Trimester	23.8 \pm 6.0			
ALT (U/l)	1 ST Trimester	35.2 \pm 7.7	25.4 \pm 5.4	52.00 \pm 14.6	20.22 \pm 3
	2 nd Trimester	28.2 \pm 6.2			
	3 rd Trimester	21.5 \pm 5.9			
S.IFN- α (pg/ml)	Early 2 nd Trimester	22.1 \pm 15.3	16.45 \pm 13.6	18.3 \pm 7.5	19.4 \pm 10.8
	Late 3 rd Trimester	39.1 \pm 30.0			
HCVRNA (IU/ml)	Early 2 nd Trimester	265858 \pm 293083	-----	-----	-----
	Late 3 rd Trimester	315785 \pm 564668			
		No.	No.		
Parity	Primi-Gravida	14 (53.8%)	3 (30%)	-----	-----
	Multi-Gravida	12 (46.2%)	7 (70%)	-----	-----
Mode of delivery	CS	11 (42.3%)	4 (40%)	-----	-----
	NVD	15 (57.7%)	6 (60%)	-----	-----

CS = Caesarian Section

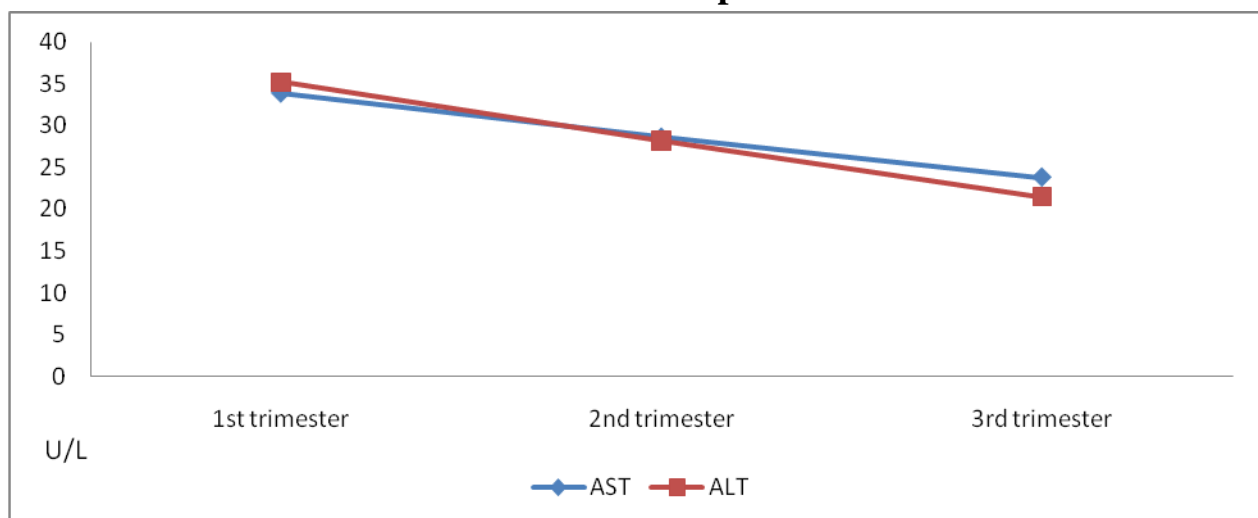
NVD = Normal Vaginal Delivery.

Fig. (1): Monitoring of AST and ALT serum levels throughout the 3 trimesters in the studied pregnant women (cases) with chronic hepatitis C.

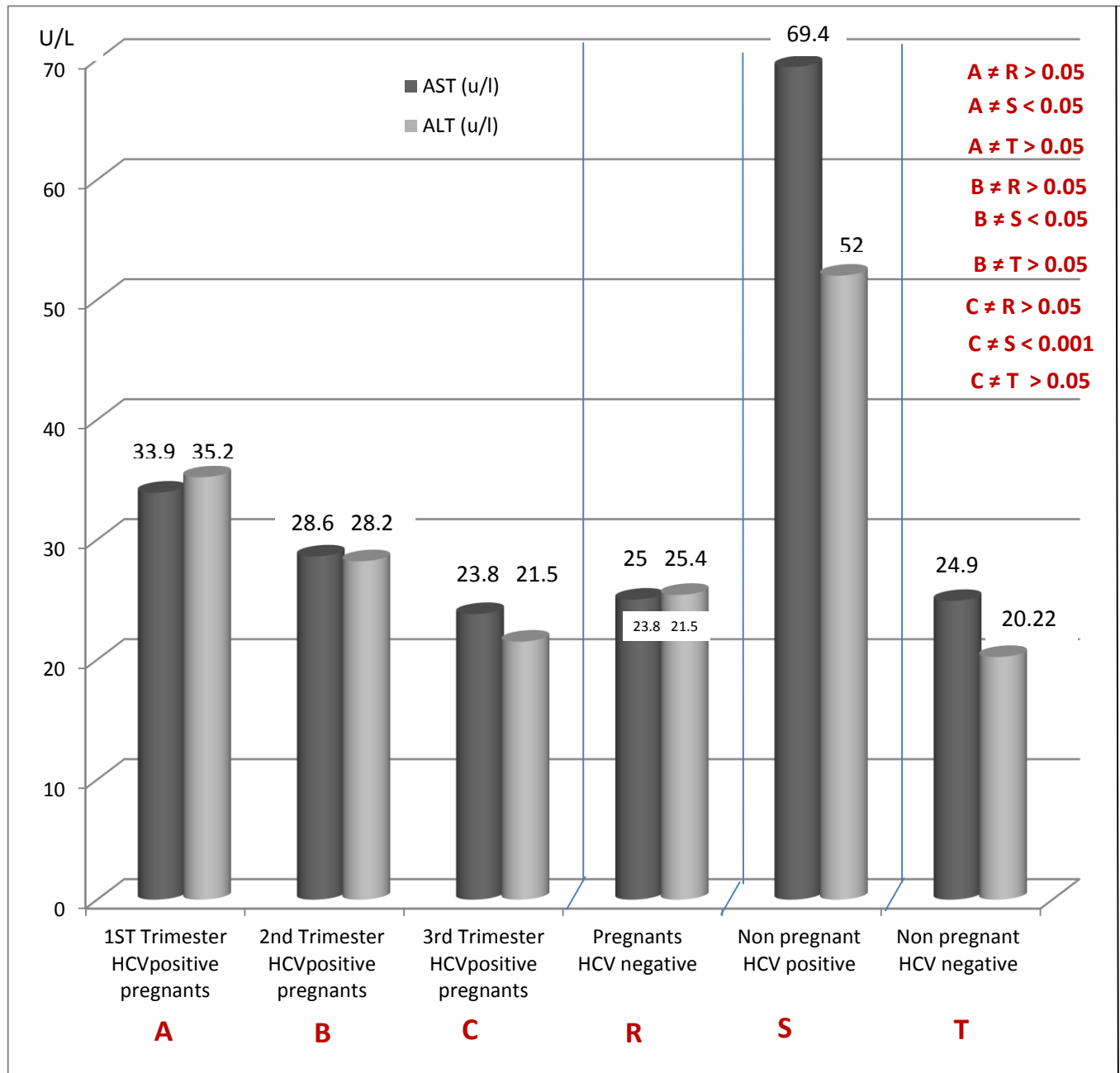


There was a highly significant decrease in transaminases levels when assessed in the 1st, 2nd and 3rd trimesters in the studied cases with chronic hepatitis C.

Fig. (2): Correlation between AST and ALT serum levels and pregnancy duration in the studied cases with chronic hepatitis C.



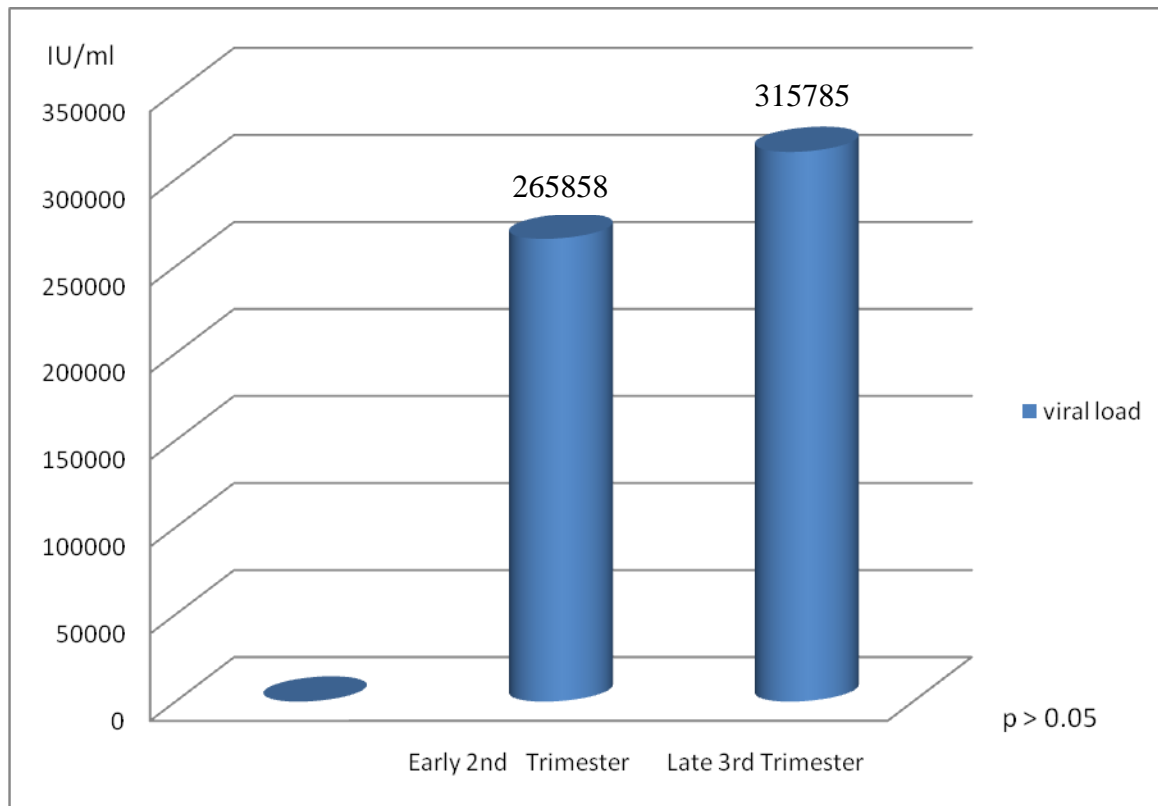
There was a statistically highly significant negative correlation between serum transaminases and pregnancy duration. Both were similarly decreasing as pregnancy was progressing.

Fig. (3): Comparison between AST and ALT levels in the studied groups.

In the 3rd trimester, pregnant women with chronic hepatitis C (**C**) had serum transaminases levels comparable to those of the studied healthy pregnant and non pregnant women without hepatitis C (**R & T**) with no statistically significant difference.

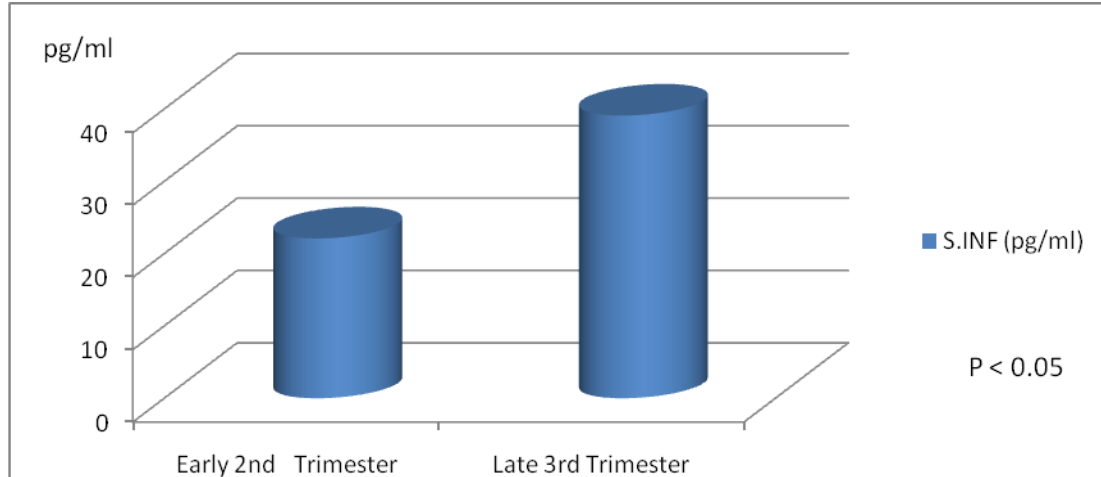
Non pregnant women who were HCV- Ab +ve (**S**) showed the highest transaminases level. This was highly significant when compared to that of the cases group in the 3rd trimester (**C**) and statistically significant when compared with that measured in the 1st and 2nd trimesters in the cases group (**A & B**), while it was of no statistical significance when compared with that of the other two control groups (**R & T**).

Fig. (4): Comparison between HCV- RNA viral load in early 2nd and late 3rd trimesters in the studied cases with chronic hepatitis C.



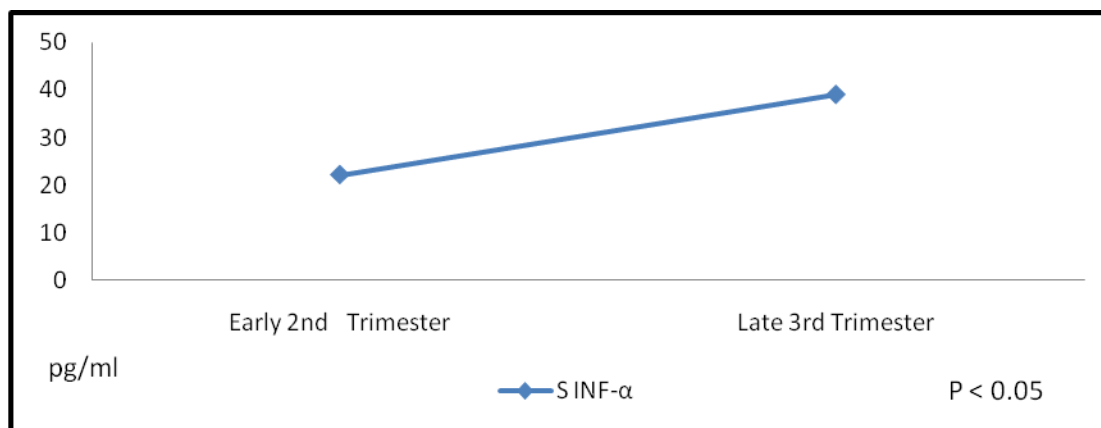
There was no statistically significant difference between HCV-RNA viral load assessed in early 2nd and late 3rd trimesters in the studied cases with pregnant group .

Fig. (5): Serum endogenous IFN- α level in early 2nd and late 3rd trimesters in the studied cases with chronic hepatitis C.



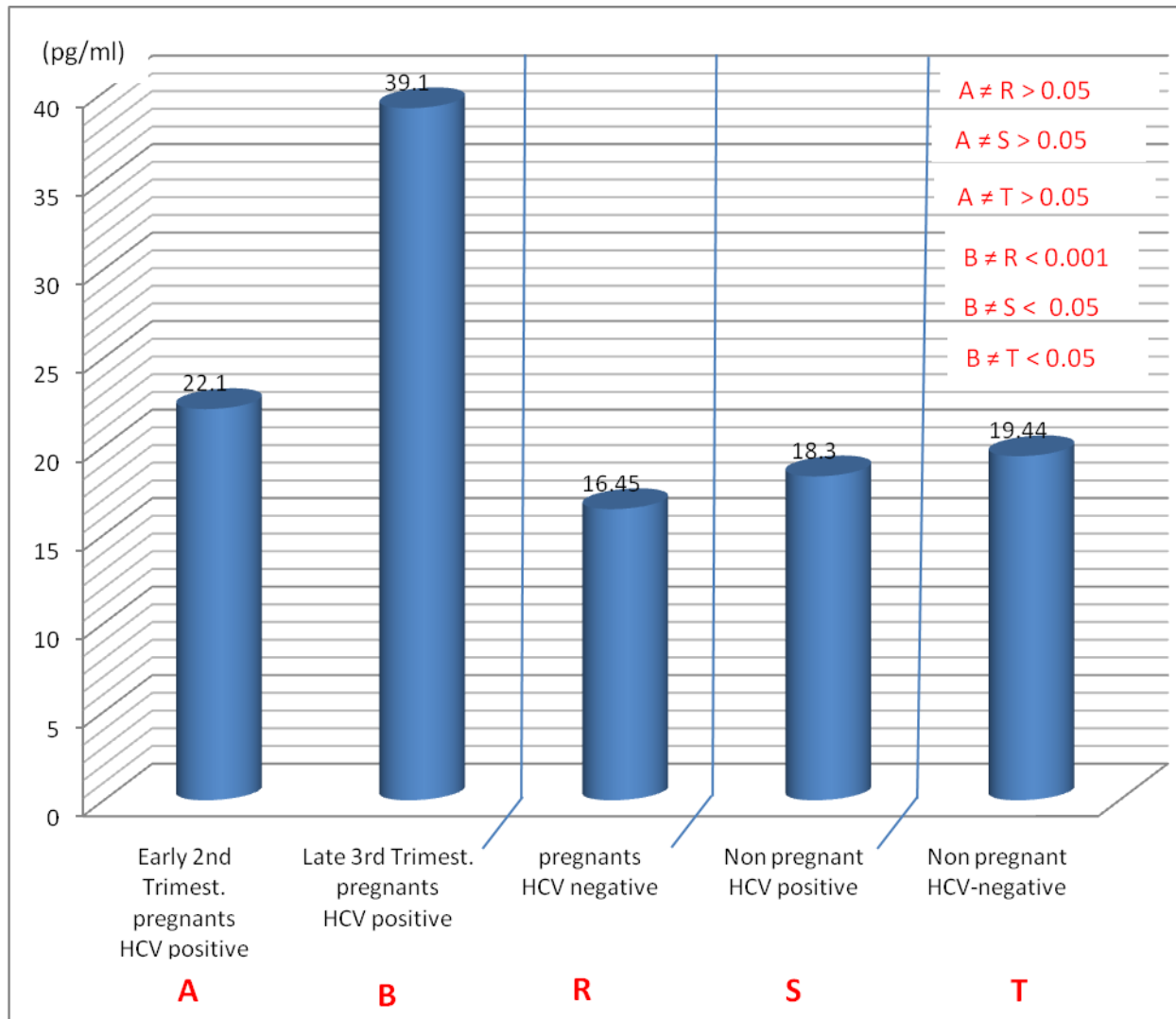
There was a statistically significant increase in serum endogenous IFN- α level measured in late 3rd compared to that in early 2nd trimester in the studied cases with chronic hepatitis C.

Fig. (6): Correlation between serum endogenous IFN- α levels and pregnancy duration in the studied cases with chronic hepatitis C.



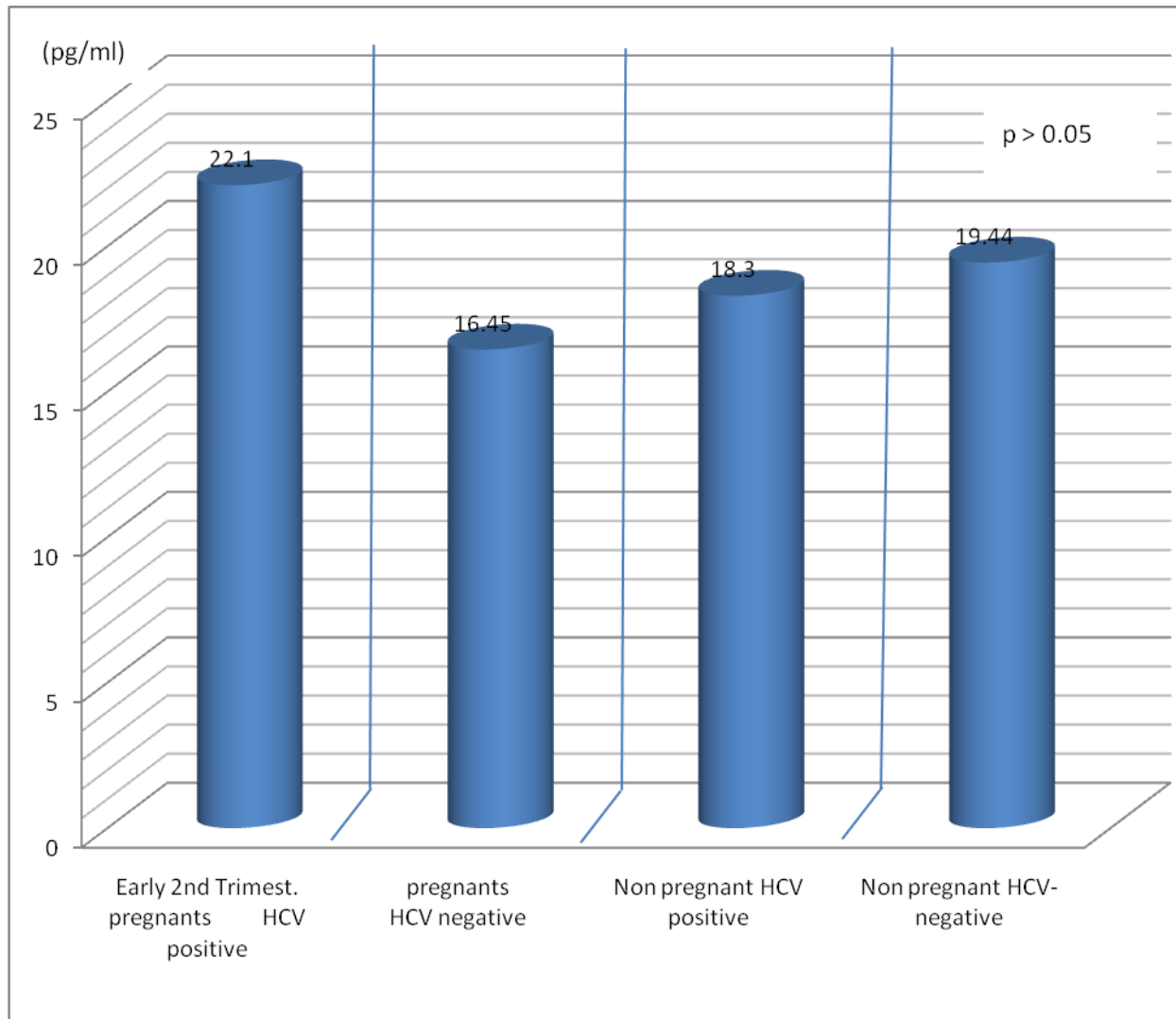
There was a statistically significant positive correlation between serum endogenous IFN- α level and pregnancy duration in the studied cases with chronic hepatitis C.

Fig. (7): Comparison between serum endogenous IFN- α levels in the studied groups.



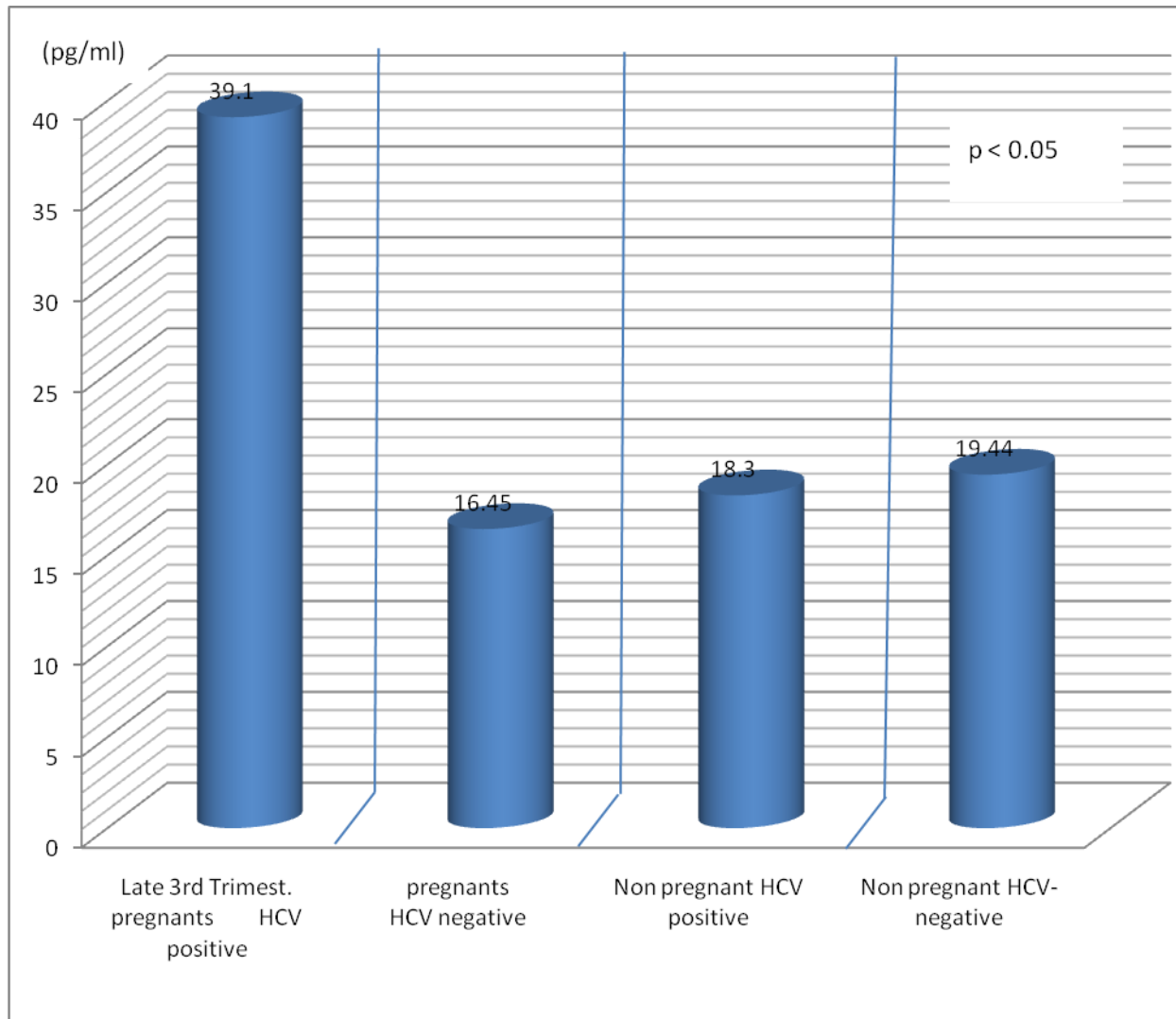
Serum endogenous IFN- α was significantly higher in the studied cases when measured in late 3rd trimester (**B**) compared to its level in the studied non pregnant groups (**S&T**). This increase was highly significant when compared to pregnant women without HCV (**R**). On the other hand, there was no statistically significant difference between serum endogenous IFN- α level measured in the studied cases in early 2nd trimester (**A**) compared to the studied 3 control groups (**R, S & T**).

Fig. (7a): Comparison between serum endogenous IFN- α level in early 2nd trimester in the studied cases group and that in the 3 control groups.



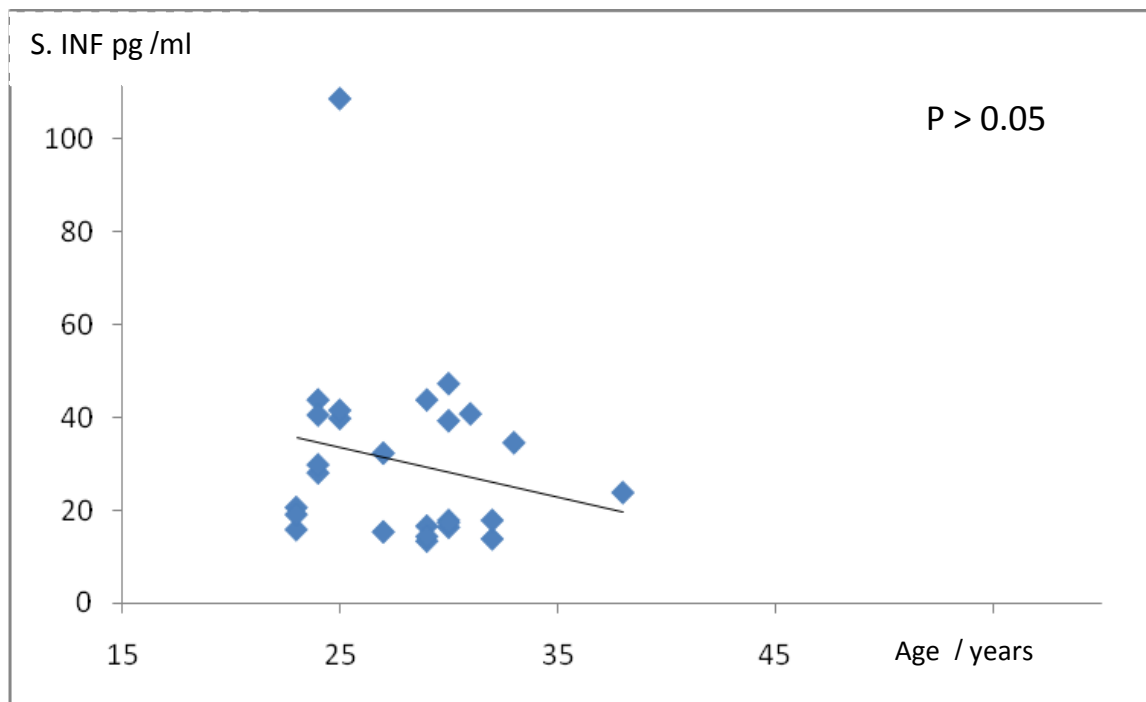
There was no statistically significant difference between serum endogenous IFN- α level measured in the studied cases in early 2nd trimester compared to its level in the studied 3 control groups.

Fig. (7 b): Comparison between serum endogenous IFN- α level in late 3rd trimester in the studied cases group and that in the 3 control groups.



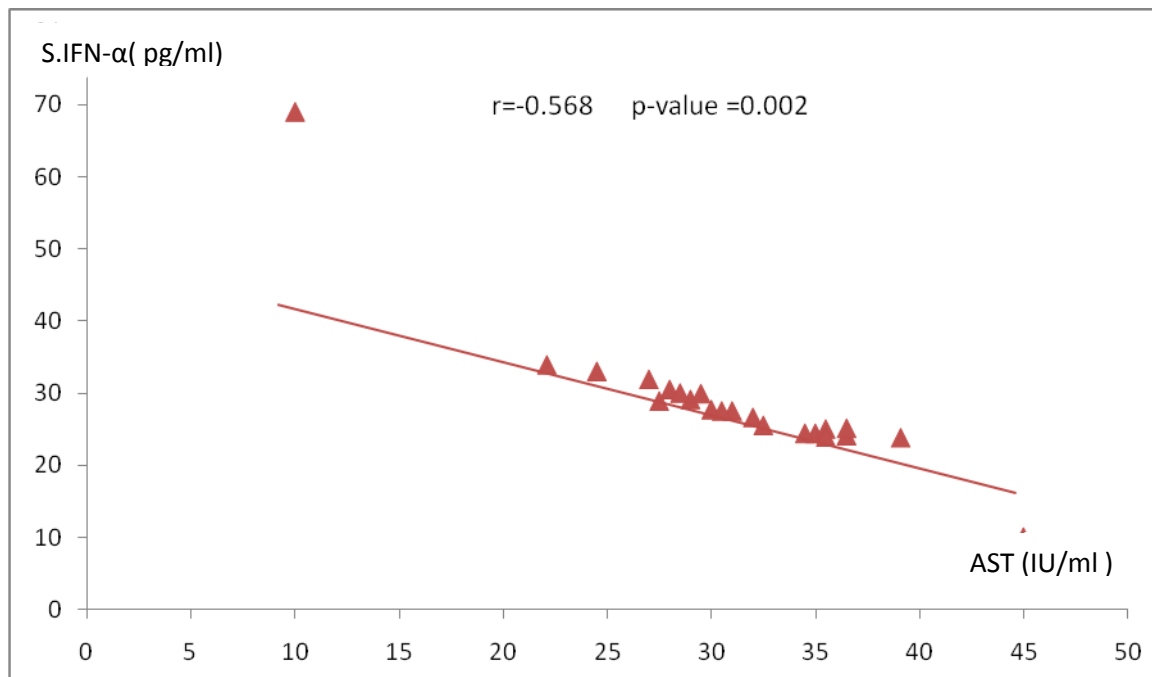
Serum endogenous IFN- α level was significantly higher ($p < 0.05$) in the studied cases when measured in late 3rd trimester compared to its level in the studied non pregnant groups. This increase was highly significant ($p < 0.001$) when compared to pregnant women without HCV.

Fig. (8): Correlation between Age and serum endogenous IFN- α levels in the studied cases with chronic hepatitis C.



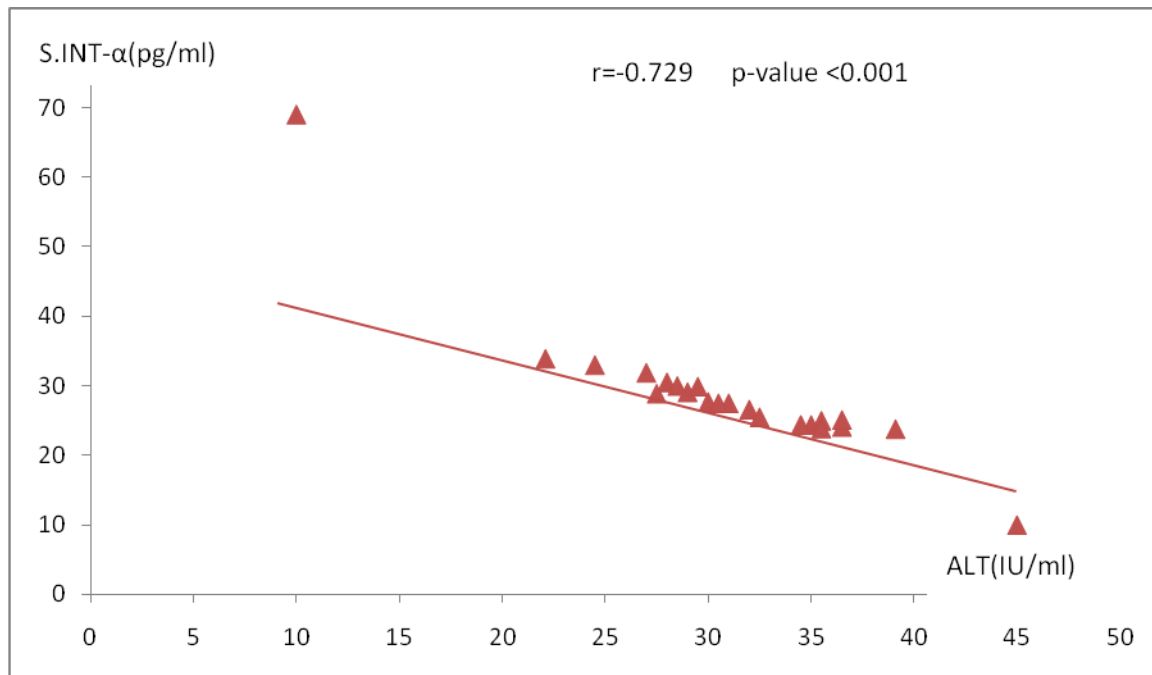
Age has no statistically significant impact on serum endogenous IFN- α level in the studied pregnant women with chronic hepatitis C (despite negative correlation).

Fig. (9): Correlation between serum endogenous IFN- α and AST level in the studied cases with chronic hepatitis C.



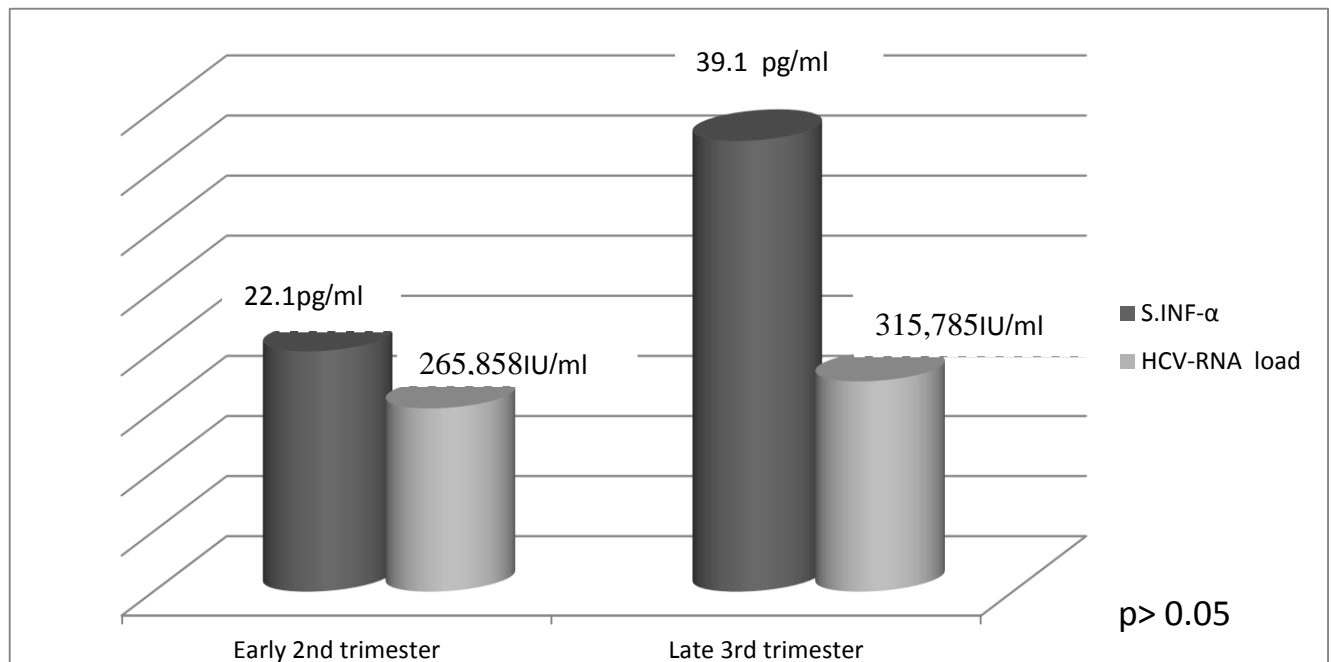
There was a statistically significant ($P < 0.05$) negative correlation between serum endogenous IFN- α and AST levels in the studied cases with chronic hepatitis C (AST was lower in those with higher endogenous IFN- α levels).

Fig. (10): Correlation between serum endogenous IFN- α and ALT in the studied cases with chronic hepatitis C.



There was a statistically highly significant ($P < 0.001$) negative correlation between serum endogenous IFN- α and ALT levels in the studied cases with chronic hepatitis C (the higher the endogenous IFN- α the lower the ALT level).

Fig. (11): Relationship between serum endogenous IFN- α levels and HCV- RNA load in the studied cases with chronic hepatitis C.



There was no statistically significant relationship between serum endogenous IFN- α levels and HCV- RNA load in the studied cases pregnant.