

4. Results

The results obtained were statistically analyzed, using T.test and Pearson Correlation test. The level of significance was expressed as $P < 0.05$ for significant, and $P < 0.01$ for highly significant. The results were as follow:

Table(4.1) Showed significant increase of GGT(p.value = 0.029) and triglycerides (p.value = 0.006) between study and control groups and no differences of cholesterol (p.value = 0.502) between study and control groups.

Figure(4.1) a scatter plot shows negative correlation between GGT and cholesterol. (p.value = 0.125 r = 0.220).

Figure(4.2) a scatter plot shows positive correlation between GGT and Triglycerides. (p.value = 0.013 r = 0.348).

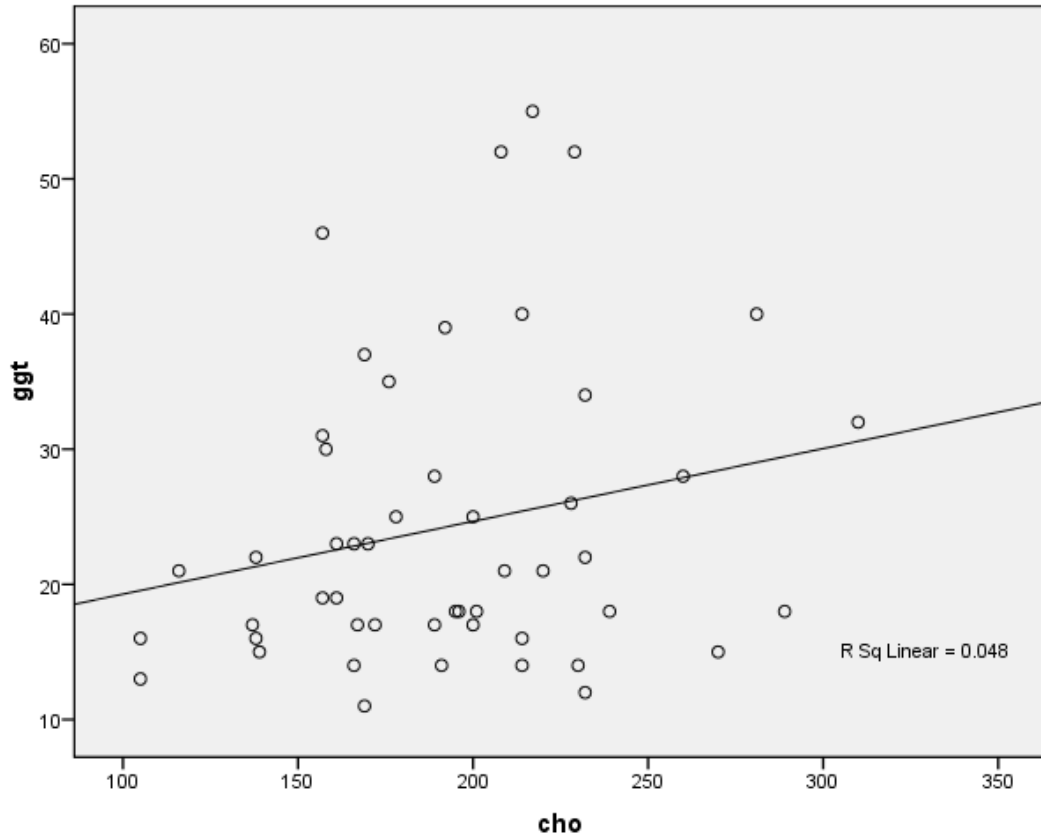
Figure(4.3) a scatter plot shows negative correlation between GGT and BMI. (p.value = 0.332 r = 0.140).

Figure(4.4) a scatter plot shows negative correlation between GGT and FBS. (p.value = 0.187 r = 0.190).

Table 4.1 : Comparison of means and P.value of serum GGT, Cholesterol and Triglycerides concentration between study and control groups .

parameters	Case (n=50) Mean \pm SD	Control (n=45) Mean \pm SD	P.value
GGT (IUL)	24.28 \pm 11.1	19.56 \pm 9.4	0.029
Cholesterol (mg\dl)	192.86 \pm 45.3	186.22 \pm 50.7	0.502
Triglycerides (mg\dl)	184.78 \pm 114.5	130.62 \pm 68.3	0.006

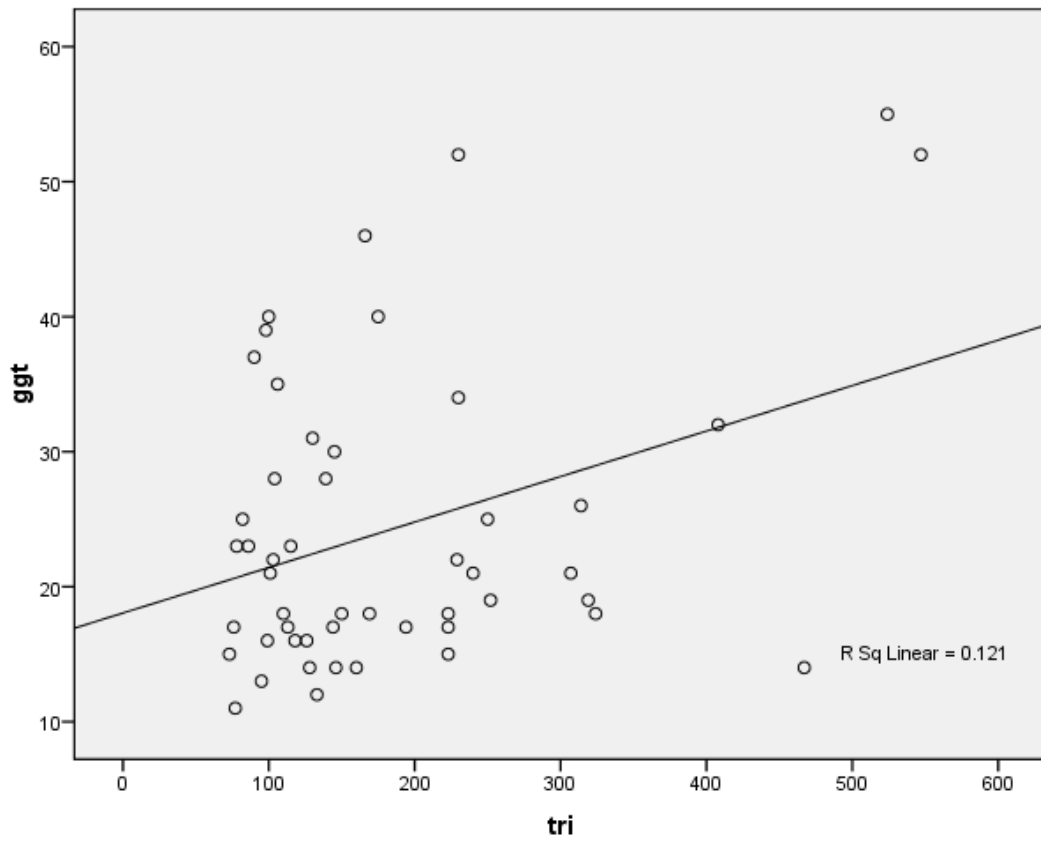
Independent sample t- test was used for comparison, P.value considered significant at level ≤ 0.05



Y axis = gamma glutamyl transferase (IU/L)
 X axis = cholesterol (mg\dl)

Figure(4.1) : Correlation between serum GGT and cholesterol .

(p.value=0.125 r=0.220).

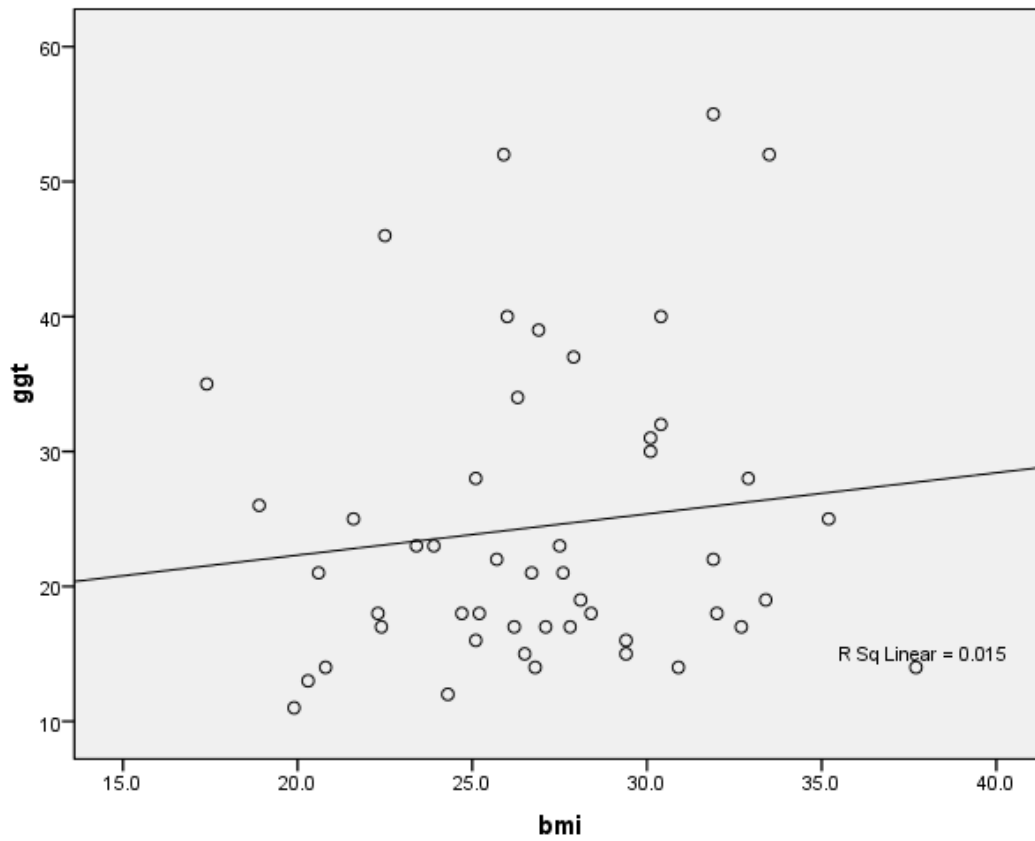


Y axis = gamma glutamyl transferase (IU\L)

X axis = triglycerides (mg\dl)

Figure (4.2) : correlation between GGT and Triglycerides .

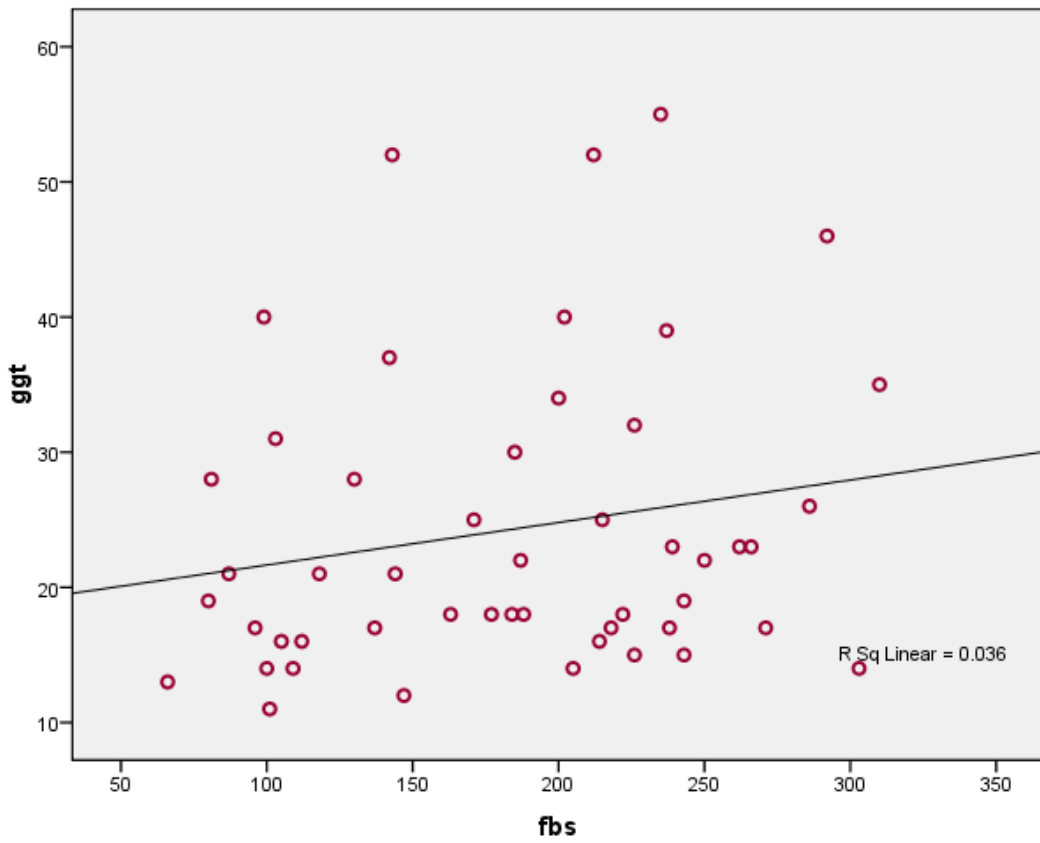
(p.value=0.013 r=0.348).



Y axis = gamma glutamyl transferase (IU/L)
 X axis = body mass index (kg/m²)

Figure (4.3): correlation between GGT and BMI .

(p.value=0.332 r=0.140).



Y axis = gamma glutamyl transferase (IU\L)
 X axis = fasting blood sugar (mg\dl)

Figure(4.4) : correlation between GGT and FBS .

(p.value=0.187 r= 0.190).