

significant difference ($p < 0.05$) as shown in (Table 6) .

The LDL-C, HDL-C was also higher in patients with ERA than the control group with a significant difference ($p < 0.05$) as shown in (Table 7).

4- Correlation of TC , CRP , HDL-C , ESR

There was a significant direct correlation between serum TC and CRP in patients with ERA ($p < 0.05$).

Serum HDL-C had shown a significant correlation in relation to CRP in patients with ERA ($p < 0.05$), with an inverse correlation.

Serum TC had a significant correlation to ESR in patients with ERA ($p < 0.05$), with a direct correlation as shown in (Figure 3).

Serum HDL-C had a significant correlation with ESR in patients with ERA ($p < 0.05$), with an inverse correlation.

Table 1: Comparison between mean values \pm standard deviation of patients with ERA and control group

Parameter	Control values \pm S.D.	ERA patients values \pm S.D.
Sex (male / female)	5/20	3/22
Age (year)	55.04 \pm 10.4	54.2 \pm 9.6
Body mass index (BMI) (Kg/m ²)	25.3 \pm 1.8	25.2 \pm 2.4
IgM Rheumatoid factor (+/-)	0/0	21/4
C – reactive protein	2.1 \pm 0.7	24.4 \pm 10.8
ESR (mm/hr)	501 \pm 1.7	49.9 \pm 11.2
TC (mg/dl)	192.2 \pm 18.5	217.9 \pm 37.5
LDL (mg/dl)	125.7 \pm 14.7	141.2 \pm 24.2
HDL (mg/dl)	52.0 \pm 5.5	40.5 \pm 7.9
TG (mg/dl)	98.3 \pm 13.4	133.4 \pm 27.5
TC/HDL	3.74 \pm 0.7	5.69 \pm 1.37
LDL/HDL	205 \pm 0.57	4.04 \pm 0.9

Table 2: The relationship between Serum Total Cholesterol level in ERA patients and control group

Groups	Serum level of total cholesterol (mean \pm S.D.) mg/dl	P value
Patients with ERA	217.9 \pm 37.5	0.004
Control group	192.2 \pm 18.5	