







Calculation:

(A) sample/(A) stander ×200 (standard conc.)= Mg/dl

cholesterol in sample

Conversion factor : Mg/dl×mmol \L

## 6. Result

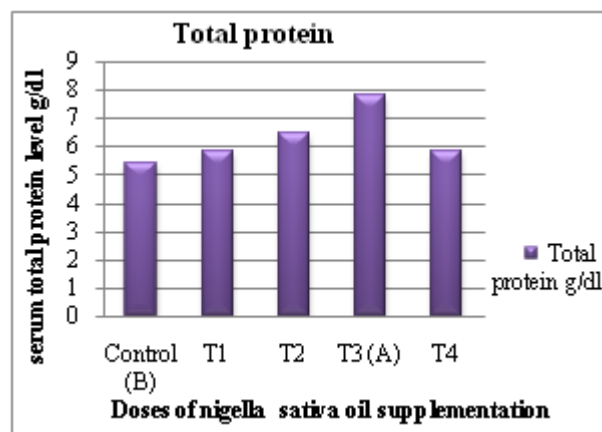
The result in table explain that black seeds administration in combination with oliveoil.

**Cholesterol:**the result obtain in (Figure 1) significantly decrease  $p < 0.05$  ( T3) as compared with control,(T1) and (T2). While (T4) result reverse increase..

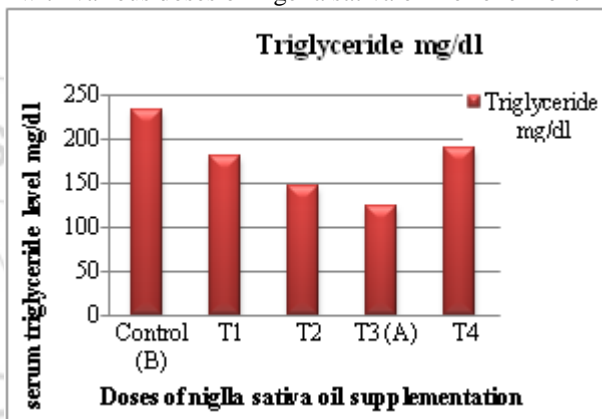
**Total protein :-** the effect of black seeds on total protein conc. Of (T3) is significantly increase  $p < 0.05$  as a compared with control, (T1) and (T2) .

While (T4) result reverse decrease (Figure 2).

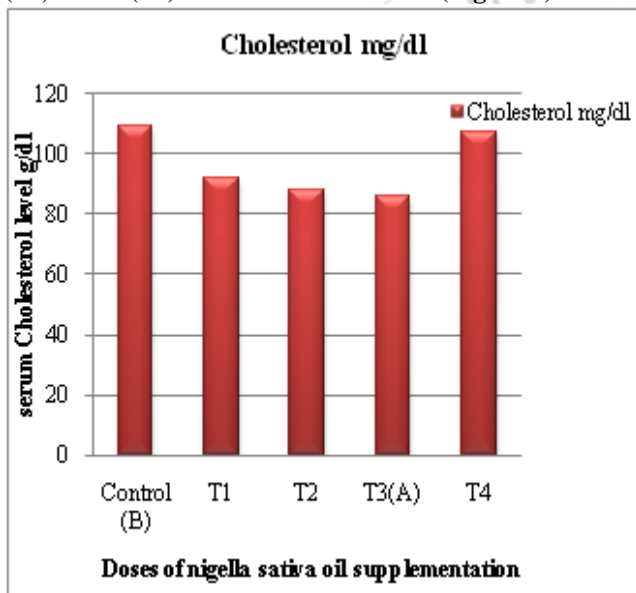
**Triglycerol:** -the data pertaining to triglyceride concentration of control and treated groups are depicted in table .triglyceride concentration shown a significant decrease  $p < 0.05$  (T3) as a compared with control, (T1), (T2) While (T4) result reverses increase (Figure 3).



**Figure 2:** change in Total protein level of rabbit supplement with various doses of nigella sativa oil for one month



**Figure 3:** change in Triglyceride level of rabbit supplement with various doses of nigella sativa oil for one month



**Figure 1:** Change in cholesterol level of rabbit supplement with various doses of nigella sativa oil for one month

**Table 3:** The effect of black seed oil and olive oil combination on serum total protein, cholesterol and Triglycerol of rabbits administration for 30 day

Group	Parameter	Cholesterol	Total protein	Triglyceride
		Mean ± SE	Mean ± SE	Mean ± SE
Control		109.32 ± 23.427 (B)	5.4 ± 1.256 (B)	233.1 ± 25.717 (B)
T1	25%	91.86 ± 29.142	5.8 ± 0.607	179.08 ± 67.086
T2	50%	88.1 ± 56.66	6.5 ± 1.985	146.6 ± 34.585
T3	75%	86.02 ± 20.173 (A)	7.8 ± 1.531 (A)	122.8 ± 28.362 (A)
T4	100%	106.9 ± 11.760	5.8 ± 426	190.26 ± 18.330

Control gives distal water only

(T1) combination 25% black seed oil and 75% olive oil

(T2) combination 50% black seed oil and 50% olive oil

(T3) combination 75% black seed oil and 25% olive oil

T4)100 % black seed oil only)

Values are expressed as mean± SE

n=5 animal/group

Capital letters denote significant differences  $p < 0.05$  between group

LSD for total protein = 2.35

## 7. Discussion

It is well that a successful for treatment of dyslipidemia is primary prevention of postprandial hyper lipidemia by aggressive delaying fat digestion and absorption (4,2). Previously, it has shown that oligomeric procyanidians containing .it was found that degree of polymerization of oligomeric procyanidians was an important factor to increase potency on pancreatic lipase inhibition (11). In the study the effect of black seed oil combination with olive oil at 75% on cholesterol, total protein and triglyceride (12, 13, 14) compartment with control, 25%, 50%.

Finding showed that acute administration of black seed oil is markedly suppressed the elevation of serum cholesterol and triglyceride in high concentration of black seed oil of 75% (14, 23, and 24). The black seed oil reduced plasma lipid profile and prevent high .while in total protein is increased 75%. Fat diet mauced obesity in hamster and related metabolic (26). The supplemented with proanthocyanidin-rich extract from black seed oil inhibits progression of Atherosclerosis in cholesterol in rabbit (27). The mechanism of action in related to prevention of low. Density lipoprotein (LDL) oxidation in the arterial well diet (30).

We suggest that large term and high concentration supplementation of black seed oil reduced plasma liquid cholesterol and triglyceride while total protein increased from these point of view, an intake of black seed oil combination with olive oil feasible therapeutic strategy for prevention and treatment of patient with hyperlipidemia and obesity.

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