

Table 5. Hepatic Total Lipids (TL), Triglyceride (TG), and Cholesterol (Chol) among the Control and Sepsis Groups

Group	TL	TG (mg/g liver)	Chol
FOC (<i>n</i> = 10)	65.2 ± 10.1	16.5 ± 11.6	3.4 ± 0.8
SOC (<i>n</i> = 10)	66.4 ± 9.7	16.4 ± 4.9	3.5 ± 0.7
FOS (<i>n</i> = 10)	65.7 ± 8.2	14.7 ± 3.6	3.2 ± 0.4
SOS (<i>n</i> = 10)	72.1 ± 14.5	25.3 ± 11.6*	3.9 ± 0.3
Significance of <i>F</i> value			
Treatment effect	NS	NS	NS
Oil effect	NS	NS	NS
Treatment × Oil effect	NS	NS	NS

Values are the mean ± SD.

Groups are described in the footnotes to table 3.

A 2 × 2 analysis of variance (ANOVA); *p* < 0.05: statistically significant; NS: non-significant. Treatment: control vs. sepsis; Oil: safflower oil vs. fish oil.

*Significantly different from other groups in the same column at *p* < 0.05 as determined by Duncan's multiple range test.

Table 6. Erythrocyte Superoxide Dismutase (SOD) and Glutathione Peroxidase (GSHPx) Activities as well as Plasma Total Antioxidant Status (TAS) among All Groups

Group	SOD	GSHPx (U/mg Hb)	TAS (mmol/L)
FOC (<i>n</i> = 10)	1.27 ± 0.80	0.40 ± 0.22	2.61 ± 0.28
SOC (<i>n</i> = 10)	1.59 ± 0.43	0.48 ± 0.20	2.67 ± 0.29
FOS (<i>n</i> = 10)	1.57 ± 0.61	0.36 ± 0.07	2.98 ± 0.38
SOS (<i>n</i> = 10)	1.48 ± 0.42	0.40 ± 0.12	2.72 ± 0.49
Significance of <i>F</i> value			
Treatment effect	NS	NS	NS
Oil effect	NS	NS	NS
Treatment × oil effect	NS	NS	NS

Values are the mean ± SD.

Groups are described in the footnotes of table 3.

A 2 × 2 analysis of variance (ANOVA); *p* < 0.05: statistically significant; NS: non-significant. Treatment: control vs. sepsis; Oil: safflower oil vs. fish oil.

No significant difference was observed among all groups as determined by Duncan's multiple range test.

tween the FOS and SOS groups, except for TG, which was higher in the FOS than in the SOS group (Table 3). The plasma amino acid profiles demonstrated that concentrations of glutamine (Gln), arginine (Arg), and branched-chain amino acids (BCAAs), including valine, leucine, and isoleucine, in the septic groups were lower than those in the non-septic control groups. No significant differences were observed in plasma BCAAs, Gln, or Arg concentrations between the FO

and SO groups, regardless of whether the rats were septic or not (Table 4). There were no differences in hepatic total lipids among all groups. Hepatic TG levels, however, were significantly higher in the SOS group than in the FO and SOC groups (Table 5). There were no significant differences in erythrocyte GSHPx or SOD activities between the groups with and without sepsis. Also, plasma total antioxidant status did not differ among all groups (Table 6).