**Table S1:** Biochemical analysis of blood samples of albino wistar rat treated with normal and thermo-oxidized sesame seed oil samples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Groups** | **TC (mg/dl)** | **TG (mg/dl)** | **HDL (mg/dl)** | **LDL (mg/dl)** | **VLDL (mg/dl)** | **ALT (IU/L)** | **AST (IU/L)** |
| **I Normal** | 85.13±1.69 | 62.16±2.33 | 43.17±3.28 | 51.32±1.86 | 13.29±0.91 | 40.53±5.84 | 67.36±3.35 |
| **II SSO** | 93.94±2.01\*\* | 75.19±3.52\*\* | 34.76±4.05# | 57.67±3.15a | 17.69±2.01\*\* | 58.43±2.63# | 75.94±3.82a |
| **III SSO4** | 116.93±3. 95# | 113.25±6.02# | 23.61±2.08# | 82.58±6.95# | 22.85±2.07# | 74.07±2.08# | 129.67±0.99# |
| **IV SSO8** | 161.27±3.48# | 156.03±6.19# | 17.81±2.08# | 104.23±2.08# | 32.79±1.57# | 95.28±3.70# | 145.12±3.68# |

All values were expressed as Mean ±SEM (n=6 rats/ group). #- P<0.001 as compared to the Normal group; a-non significant (ANOVA followed by Tukey's Test).

**Table S2**: Hematological analysis of blood samples albino wistar rats treated with normal and thermo-oxidized sesame seed oil samples

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group** | **Haemoglobin**  **(mg/dL)** | **RBC count**  **(×106/mm3)** | **WBC count**  **(×103/mm3)** | **Platelet count**  **(×103/mm3)** | **Glucose**  **(mg/dL)** |
| **I Normal** | 16.63±0.31 | 7.66±0.42 | 4.33±0.18 | 413.92±7.32 | 94.71±3.62 |
| **II SSO** | 15.77±0.37a | 7.12±0.13\* | 3.87±0.51a | 505.29±2.6# | 105.78±2.40# |
| **III SSO4** | 12.92±0.58# | 6.04±0.46# | 3.22±0.25\* | 392.15±12.57a | 134.85±4.09# |
| **IV SSO8** | 10.59±0.36# | 4.92±0.09# | 2.62±0.29# | 275.71±14.61# | 186.78±5.51# |

All values were expressed as Mean ±SEM (n=6 rats/ group). #- P<0.001 as compared to the Normal group; \*P<0.05 as compared to the normal group; a-non significant (ANOVA followed by Tukey's Test

**Table S3**: Antioxidant enzyme result heart and liver

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Heart** | | | | **Liver** | | | |
| **Group** | **GSH**  (µmol of phosphorus liberated/min/mg protein) | **TBARS**  (nmol MDA/mg protein) | **SOD**  (nmol MDA/mg protein) | **Catalase**  (nmol H2O2 -consumed/min/mg protein) | **GSH**  (µmol of phosphorus liberated/min/mg protein) | **TBARS**  (nmol MDA/mg protein) | **SOD**  (nmol MDA/mg protein) | **Catalase**  (nmol H2O2 -consumed/min/mg protein) |
| **I Normal** | 25.81±0.90 | 0.24±0.03 | 1.80±0.03 | 58.41±1.25 | 30.42±2.19 | 0.32±0.01 | 1.91±0.07 | 35.05±1.40 |
| **II**  **SSO** | 22.98±1.84\* | 0.29±0.006\*\* | 1.65±0.03# | 56.43±1.88a | 25.21±1.53# | 0.41±0.01# | 1.74±0.05# | 28.05±2.01# |
| **III SSO4** | 16.77±0.39# | 0.49±0.009# | 1.42±0.03# | 36.31±2.45# | 17.48±2059# | 0.50±0.01# | 1.45±0.06# | 26.53±1.90# |
| **IV SSO8** | 10.22±1.51# | 0.79±0.005# | 1.26±0.06# | 24.18±2.05# | 9.76±1.66# | 0.69±0.02# | 1.21±0.05# | 17.76±1.54# |

All values were expressed as Mean ±SEM (n=6 rats/ group). #- P<0.001 as compared to the Normal group;; a-non significant (ANOVA followed by Tukey's Test).