**Figure 1A.** Correlation between HOMA-IR and serum leptin level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**

**Figure 1B.** Correlation between HOMA-IR and serum IL-6 level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**

**Figure 1C.** Correlation between HOMA-IR and serum testosterone level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**

**Figure 2A.** Correlation between serum testosterone and serum IL-6 level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**

**Figure 2B.** Correlation between serum testosterone and serum leptin level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**

**Figure 2C.** Correlation between serum leptin and serum IL-6 level in study subjects

**r = spearman Correlation coefficient**

**n = total numbers of subjects**

**Statistical significant difference was set as p<0.05**