Aims and objectives

The present study mainly highlights the occurrence of lipid peroxidation and possible breakdown of antioxidants in gastrointestinal carcinoma patients as compared to healthy control subjects. Enzymatic and non-enzymatic parameters play an important role in cell protection against harmful influence of oxidative stress, therefore to fulfill the aim of our study we took the following objectives:

1. To know the status of antioxidants enzymes defenses (SOD, GPx, and Vitamin-C) and MDA level in gastrointestinal carcinoma patients and Control subjects.

2. To know the correlation of these antioxidants and total antioxidant capacity with age, sex, in gastrointestinal carcinoma patients and Control subjects.

3. To find out the possible functional impact of the risk associated with Pepsinogen-C (PG-II/PGC) gene polymorphism.

4. To know the correlation between the pepsinogen-C gene polymorphism and serum Pepsinogen-C (PG-II) in gastrointestinal carcinoma patients and control subjects.