

## ABSTRACT

The present work involves the measurement and control of free radical status of diabetic patients using herbal medicines in comparison to normal individuals.

75 blood samples were collected from Haripur Hazara for this study and the study period was of 2 months. In which 25 were normal and 50 were diabetic patients of Type II which were further divided into 2 groups. 25 were diabetic controlled and 25 were those of using herbal medicine combination of *Gymnema Sylvestre* and *Terminalia Chebula* 50%/50% wt/wt. Free radical status was monitored by measuring plasma hydroperoxides using N, N' dimethyl-p-phenylene diamine dihydrochloride as free radical scavenger.

Results shows that the plasma hydroperoxide values increases with the increase of sugar values. In normal individuals plasma hydroperoxide values are  $100 \pm 93.02$  those in control diabetic group  $170.15 \pm 95.66$  are high as compared to normal group. While plasma hydroperoxides values in diabetic patients using herbal medicine combination (*Gymnema Sylvestre* and *Terminalia Chebula*)  $155.81 \pm 90.79$  are high as compared to normal but low from control group. Statistical analysis of the data shows that the groups having  $p \text{ value} < 0.05$  were considered significant.