

## EFFECT OF CUPPING TREATMENT ON SOME BIOCHEMICAL VARIABLES OF THI-QAR PROVINCE

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### ABSTRACT

The aim of this study was to investigate the effect of cupping treatment on serum glucose, serum oxidation-antioxidants status. Using the lipid peroxidation marker, malondialdehyde (MDA) and preventative antioxidant Ceruloplasmin (Cp) and Albumin (Alb), in serum of volunteer

Blood samples were obtained from (100) volunteer (before and after cupping treatment), as well as (35) healthy subjects as a control group. They divided into two groups as the following:

**Control Group:** - Included Thirty five healthy subjects aged (20-70 years).

**Pre Cupping Group:** - Included one hundred volunteer before cupping aged (20-70 years).

**Post Cupping Group:** - Included one hundred volunteer after cupping aged (20-70 years).

**Results:** The results show a significant decrease can be observed in post cupping group when comparison with pre cupping group ( $p \leq 0.05$ ), while a non-significant difference in the level of serum glucose can be observed in post cupping group in comparison with control group ( $p \leq 0.05$ ). Serum MDA also shown a significant decrease can be observed in post cupping group in comparison with pre cupping group ( $p \leq 0.05$ ), while a non-significant difference in the level of serum MDA can be observed in post cupping group in comparison with control group ( $p \leq 0.05$ ). As well pre cupping group shown that significant increase ( $p \leq 0.05$ ) in serum MDA when comparison with post cupping and control groups. While serum Cp levels shown that significant increase ( $p \leq 0.05$ ) in serum CP can be observed in pre and post cupping groups when compared to with control group, as well as post cupping group show significant decrease ( $p \leq 0.05$ ) in serum CP in comparison with pre cupping group. As well as serum Alb show that significant increase ( $p \leq 0.05$ ) in serum Alb can be observed in pre and post cupping groups when comparison with control group, as well as post cupping group shows a significant decrease ( $p \leq 0.05$ ) in serum Alb in comparison with pre cupping group.

**KEYWORDS:** Cupping, Volunteer, Oxidant-Antioxidants Status