

Effect of Cold Plasma on the Levels Mineral Blood Components In Vivo

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Abstract:

This study illustrates effect of cold plasma CAP on the mineral blood components in vivo. the mineral blood component (Ca, Na, Cl, K and Fe) are used. Floating Electrode-Dielectric Barrier Discharge (FE-DBD) system of probe diameter 4cm is used for this purpose, and variable voltage (0-20) kV and variable frequency (0-30) kHz, the output power was ranged from (10 - 70) W. the effect of cold atmospheric plasma on mineral blood is studied with different exposure durations (30,45,60) sec. As the plasma exposure duration increases, the calcium, potassium and iron components in the blood increased, while The sodium and chlorine elements decreased. These results give an indication of the cold plasma receptor to be used to treat many diseases related to mineral blood components.