Comparative *In-vitro* anti oxidant evaluation of selective anti retroviral drugs

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Abstract:

Objective: Comparative *In-vitro* anti oxidant evaluation of selective anti retroviral drugs.

Methods: Evaluation of *in-vitro* anti oxidant potential of selective anti retroviral drugs (A & B) with concentrations (5, 10 mg/kg P.O) and standard ascorbic acid with same concentration. In vitro antioxidant analysis of anti HIV drugs was performed by 1,1diphenyl, 2 picryl hydroxyl (DPPH) assay, nitric oxide scavenging assay, reducing power assay and hydrogen peroxide assay.

Results: Obtain results revealed that anti HIV drugs (A & B) showing *In-vitro* anti-oxidant activity in comparison with reference standard ascorbic acid. Comparatively A compound showing more antioxidant potential than B compound.

Conclusion: These results clearly revealed that A & B exhibited its *in-vitro* antioxidant potential dose dependent manner in comparison with reference standard ascorbic acid and further studies are suggested to evaluate repurposing potential of A & B which is related to oxidation induced various disorders.

Key words: Repurposing of drugs, *In-vitro* anti oxidant evaluation