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## ICESM-2018

*Healthy Soul & Body through Nature*

### ABSTRACTS



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Golden sponsor Alma

## Finding the antioxidant activity in aqueous extracts of powder of *Murrya koenigii* leaves at room temperature by using ferric reduction method

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Antioxidant of plant origin is believed to help protect the cells from free radical damage. They may prevent and / or improve different disease status. *Murrayakoenigiileaves* are reported to possess potent antioxidant properties. The Aim of this study is to determine the Antioxidant activity of the aqueous extracts of *Murrayakoenigiileaves* By Ferric Reduction method. Leaves were dried to constant weight, powdered and sieved. Antioxidant activity was estimated in the cold and hot aqueous extracts of the *M. koenigii* leaf powder in two-month interval for one year. This study showed that the EC<sub>50</sub> value of cold and hot extracts of *M.koenigiileaf* powder was verified with months. EC<sub>50</sub> values are inversely proportional antioxidant activity. The higher antioxidant activity of cold and hot extracts was (66.83-35.63) µg/ml in June respectively. The lower antioxidant activity of cold and hot extracts was (157.33-110.5) µg/ml in December respectively. Hot extract of *M.koenigiileaf* powder showed greater antioxidant activity than the cold extracts in tested months. The mean and SD of EC 50 values were (93.99±33.5), (69.42±24.8) µg/ml. In Siddha Medicine, the lifespan of 'Chooranam', which is prepared from herbs, is used for 3 months. Hence, the leaf powder can be used for the 'Chooranam' preparation. However freshly prepared leaf powder is recommended for the preparation of the 'Chooranam'.

**Keywords-** antioxidant activity, Ferric Reduction method, *Murryakoenigii*, Siddha Medicine,