

Assessment of Antioxidant and Antimicrobial Activities of *Strobilanthus Barbatus* against Organism Isolated from the Arthritic synovial fluids

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ABSTRACT

Rheumatoid arthritis (RA) is one of the most common inflammatory autoimmune diseases. It is characterized by persistent synovitis, systemic inflammation and production of autoantibodies. Rather than the molecular mechanisms and genetic factors; environmental factors like infection and smoking play a pivotal role in RA pathogenesis. Recently, various natural products have been shown to safely suppress pro-inflammatory pathway and control RA. Parallely to prevent the destructive processes caused by oxidative stress caused by inflammation, antioxidants either in the form of raw extracts or their chemical constituents are very effective and essential. With all these facts, the present study was done to investigate the leaves of *Strobilanthus barbatus* for its antimicrobial and antioxidant activity. The obtained results showed that the ethanolic extract of *Strobilanthus barbatus* has 79.92% of inhibition in 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging activity, 13.69mg/g GAE (Gallic Acid Equivalent) for phenolic content and most effective against various pathogens isolated than the chloroform extract.