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Plantamexica 2012, (5), 78: P_113 (DOI: 10.1055/s-0032-1307621)

(<https://www.thieme-connect.de/ejournals/abstract/plantamexica/doi/10.1055/s-0032-1307621>)

Abstract

The patent herbal compound rug, Yi Shen Juan Bi (YJB), has been found to be effective for the treatment of rheumatoid arthritis (RA), and our previous studies revealed that it has potent anti-rheumatic effects. We have conducted further investigations into the anti-arthritic activity of YJB using macrophage and S-novioc tes cells in an *ex-vivo* serum pharmacology assay. For that purpose, we use mouse serum containing YJB and analyze the macrophage-derived cytokines tumor necrosis factor alpha (TNF- α) and interleukin-1 (IL-1) using ELISA kits, nitric oxide (NO) by Griess reaction and the proliferation of rats S-novioc tes stimulated by TNF- α by MTT reaction assay *in vitro*. In addition, we analyze the cytotoxic concentrations of YJB by MTT reaction assay. This study confirms the anti-rheumatic effects of YJB correlate with a significant decrease of TNF- α , IL-1 and NO production by macrophages and also with significant decrease in the proliferation of S-novioc tes *in vitro*. A subsequent cytotoxicity assay also revealed no significant difference in cell viability. Our results suggest that YJB is a potential anti-rheumatic agent targeting the inflammatory and immunomodulatory response of macrophages and S-novioc te cells.