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Abstract:

AIM OF THIS STUDY: Chinese herbal pill Yi Shen Juan Bi (YJB), which is a compoun herbal rug, has tra itionall been use as an anti-rheumatic rug in Chinese local clinics. Thus, we investigate the therapeutic effect of the YJB in rheumatoi arthritis (RA), using Freun 's complete in uce a juvant arthritis (AA) in rat mo el.

METHODS:

For that purpose, macrophage erive c tokine tumor necrosis factor alpha (TNF-a) an interleukin-1 (IL-1) were measure in ex vivo b en me linke immunosorbent assa (ELISA). e also assa e the effect of YJB on peritoneal macrophage erive nitric oxi e (NO) in ex vivo b Griess reaction. Prostaglan in E (PGE) in metape es was assa e b ultraviolet spectrophotometer metho . Further s novial Bax level was examine b estern blot anal sis.

RESULTS:

YJB significantl ecrease the pro uction of peritoneal macrophages erive TNF-a, IL-1 an NO. YJB also significantl ecrease prostaglan in E (PGE) an upregulate the Bax expression in AA rat's s novium.

CONCLUSION:

YJB is a potential anti-rheumatic agent targeting the inflammator an immunomo ulator response of macrophages while own regulating the PGE an up-regulating the pro-apoptotic Bax expression. Such characteristics of YJB on AA ma be a vantageous to the treatment of clinical rheumatoi arthritis.

Ke wor s: Yi ShenJuanBi; NO; TNF-a; IL-1; PGE; Bax