

Z207 The Mitigative Effect of *Cinnatomi Ramulus* Extract on Rheumatoid Arthritis

Sang hyun Ahn*, Jin Taek Kim, In Sick Park, Jae Man Jeng, Yoon Ho Kang¹, Ho Hyun Kim³, and Hai Poong Lee²

동국대학교 한의과대학 해부학교실, 내과학교실¹, 생명자원과학대학 응용생물학과², 세명대학교 한의과대학 생리학교실³

This study was performed to investigate the mitigative effect of *Cinnatomi Ramulus* extract(CRE) on rheumatoid arthritis(RA). The RA on female Balb/c mice were induced by Lipopolysaccharide injection, as dose of 300 μ l/kg, into synovial cavity of knee joint and then were administered with CRE, a dose of 0.33ml/kg/day, for 21 days. The were fixed in 10% neutral buffered formalin and were decalcificated in EDTA solution for 4 weeks. The hyperplasia of synovial membrane (SM) and migration of inflammation component cell and fibrosis in fibrous membrane(FM) were diminished on CRE treated mice than RA group. Especially, The distribution of IL-1B and IL-2R positive reactive cell in SM and ICAM positive reacted cell in FM were decreased on CRE extract treated mice. As results indicated that the CRE mitigated the RA.

Z208 The Immune-Suppressive Effect of *Coptidis Rhizoma* on Allergic Contact Dermatitis

Sang-Hyun Ahn*, Jin-Teak Kim, In-Sick Park, Yoon-Ho Kang¹, Ho Hyun Kim³, and Hai Poong Lee²

동국대학교 한의과대학 해부학교실, 내과학교실¹, 생명자원과학대학 응용생물학과², 세명대학교 한의과대학 생리학교실³

This study was performed to investigate the mitigative effect of *Coptidis Rhizoma* (CE) extract on allergic contact dermatitis. BALB/C mice were sensitized by one application of 25 μ l of 5% 2,4-dinitrochlorobenzene(DNCB) onto an abdominal skin. 2 weeks later, the mice were elicited with 4 μ l of 2.5% DNCB, and then were administered with CE extract, a dose of 0.33ml/kg/day, for 48 hours. The damaged epithelial cell decreased in CE extract reated group. In dermis, infiltration of lymphocytes, enlarged capillaries, and degranulated mast cell were diminished after CE extract treatment. The number of CD11b, CD25R and CD54 positive cell in CE extract treated group were decreased than DNCB group. As results indicated that the Immune-suppressive effect of *Coptidis Rhizoma* mitigated the allergic contact dermatitis.