

Pharmacological Effects of Artemisiae Capillaris Herba, *Artemisia capillaris* Stem Aqueous Extracts on the High Fat Diet Supplied Mice

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Purpose: The object of this study is to observe the dosage-dependent pharmacological effects of an aqueous extracts of dried stems of *Artemisia capillaris* Thunberg. [Artemisiae Capillaris Herba, Korean name In-Jin, INJ] on 45%/Kcal high fat diet (HFD) supplied mice.

Materials and Methods: 45%/Kcal rodent HFD are supplied to ICR mice from 1 week before initiation of INJ administration throughout the 12 weeks, and after the end of 12 weeks of 62.5, 125 and 250mg/kg/day of INJ administration, the efficacy was divided into five categories – 1) hypoglycemic, 2) hepato-protective, 3) nephroprotective, 4) hypolipemic, and 5) anti-obesity effects.

Results: After end of 84 days of continuous treatment of three different dosages of INJ, all diabetes related complications were inhibited; relatively favorable anti-obesity, hypolipemic, hepatoprotective, hypoglycemic and nephroprotective effects.

Conclusion: Obese, hyperglycemia, hyperlipemia, steatohepatitis and related nephropathies induced by HFD supply were dramatically inhibited by 84 days of continuous treatment of all three different dosages of INJ. It is, therefore expected that INJ extract will be promise as an alternative therapy for diet-related diabetes and complications.

Key words: Artemisia capillaries, aqueous extracts, HFD, obesity,

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