ABSTRACT 318  (T2:PS0 – Adults)
THE INFLUENCE OF WEIGHT LOSS ON ARTERIAL STIFFNESS IN OBESE AND OVERWEIGHT SUBJECTS

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ABSTRACT 520  (T3/T4:PS4 – Adipose tissues)
INHIBITORY EFFECTS OF JUL05 ON 3T3-L1 ADIPOCYTE DIFFERENTIATION AND OBESITY INDUCED BY HIGH FAT DIET IN MICE.

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Introduction: JUL05 is a combination of 4 natural components (Corni Fructus, Dioscorea Rhizoma, Aurantii Fructus Immaturus, Platycodi Radix) used as traditional Korean medicine in Asia. Obesity is a metabolic disorder characterized by chronic inflammation and dyslipidemia and is a strong predictor for the development of hypertension, diabetes mellitus, and cardiovascular disease. This study examined anti-obesity and cholesterol-lowering properties of ethanol extracts from the JUL05.

Methods: The cellular lipid content in 3T3L-1 adipocytes was assessed by Oil Red O staining. Expression of peroxisome proliferators activated receptor-γ (PPAR-γ) was determined by real-time RT-PCR. The effect of JUL05 in weight loss was also examined in high-fat diet induced obese mice.

Results: JUL05 suppressed the differentiation of 3T3-L1 adipocytes by downregulating cellular induction of PPAR-γ. In vivo study showed that JUL05 induced the weight loss in high-fat diet induced obese mice. These results indicate that JUL05 has a potent antiadipogenic effect in 3T3-L1 cells due to the inhibition of adipocyte differentiation and adipogenesis.

Conclusion: Our results indicate that, with the continuing spread of obesity prevention as a fundamental medicine strategy, both clinicians and researchers should take a closer look at herbal medicine. JUL05 may be beneficial in the treatment of obesity and can be used as a safe natural promoter of health.

ABSTRACT 564  (T3/T4:PS6 – Neurobesity)
MEAL PATTERNS OF RATS MAINTAINED ON TRYPTOPHAN AND LYSINE SUPPLEMENTED DIET.
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