

### P3-01

#### Effects of *Panax ginseng* Extract on Body Weight and Serum Lipid Profile Changes of Rats Fed High Fat Diet

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This present study was carried out to investigate the body weight-regulatory effects and serum lipid profile changes of *Panax ginseng* extract in high fat diet-induced obese rats. Control group rats were fed with high fat diet and administrated normal saline for 8 weeks. Experimental group rats were fed with high fat diet and administrated extract of *Panax ginseng* (0.5 mg/kg) for 8 weeks. And observed that body weight of rats and total cholesterol, triglyceride, free fatty acid, total lipid, phospholipid, high density lipoprotein (HDL)-cholesterol, low density lipoprotein LDL-cholesterol in serum of rats. The results were as follows; The changes of the body weights in experimental group showed a significant decrease at 4, 7 and 8 weeks in comparison with control group. There were significant decrease of serum total lipid level in *Panax ginseng* extract treated group ( $p < 0.05$ ). There were significant decrease of serum phospholipid level, LDL-cholesterol level *Panax ginseng* extract treated group ( $p < 0.05$ ). Summarizing these results, it seems likely that *Panax ginseng* extract may be used to prevent or cure the obesity induced by high fat diet.

### P3-02

#### The Effects of *Aurantii Fructus Immaturus* and *Persicae Semen* on an Obesity of Rats Fed High Fat Diet

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We had experiment with *Aurantii Fructus Immaturus* and *Persicae Semen* in order to find cure effects for an obesity. We fed control group rats high fat diet and administered normal saline for 8 weeks. And we fed experimental group rats high fat diet and administered extract of *Aurantii Fructus Immaturus* and *Persicae Semen* for 8 weeks. The changes of the body weights in *Aurantii Fructus Immaturus* group showed a significant decrease at 5, 7 and 8 weeks in comparison with control group. But in *Persicae Semen* group didn't show a significant decrease in comparison with control group. The serum total cholesterol, free fatty acid, lipid, phospholipid level in *Aurantii Fructus Immaturus* group showed a significant decrease in comparison with control group. The serum level in *Persicae Semen* group didn't show significant change in comparison with control group. The average size of the epididymal fat cells of the rats in *Aurantii Fructus Immaturus* group showed a significant decrease in comparison with control group, but in *Persicae Semen* group didn't show a significant decrease in comparison with control group. The area % of the fat drops in hepatic lobule of rats in *Aurantii Fructus Immaturus* and *Persicae Semen* group showed a decrease in comparison with control group, but these results were not significant. Results of our research in this paper show that *Aurantii Fructus Immaturus* might have cured an obesity.