

Supplemental Table 1

Effects of feeding various amounts of cholesterol (0.02 to 0.05%) to wild type and TgInsig-1 mice

| Parameter | Wild type | | | | TgInsig-1 | | | |
|--------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|
| | 0.02% | 0.05% | 0.15% | 0.5% | 0.02% | 0.05% | 0.15% | 0.5% |
| Body weight (g) | 20.5 ± 0.6 | 20.4 ± 0.8 | 20.2 ± 0.4 | 20.4 ± 0.9 | 19.5 ± 0.2 | 19.7 ± 0.3 | 19.4 ± 0.4 | 19.4 ± 0.3 |
| Liver weight (g) | 1.2 ± 0.03 | 1.2 ± 0.03 | 1.3 ± 0.02 | 1.2 ± 0.04 | 1.1 ± 0.05 | 1.1 ± 0.03 | 1.2 ± 0.05 | 1.2 ± 0.02 |
| Liver cholesterol content (mg/100g) | 2.3 ± 0.05 | 2.7 ± 0.15 | 2.8 ± 0.1 | 4.5 ± 0.2 | 1.9 ± 0.05** | 1.9 ± 0.05** | 2.3 ± 0.1* | 3.8 ± 0.3 |
| Liver triglyceride content (mg/100g) | 7.2 ± 1.6 | 6.9 ± 1.5 | 8.6 ± 0.6 | 10.1 ± 1.4 | 5.0 ± 0.2 | 4.9 ± 1.1 | 3.4 ± 0.1** | 7.8 ± 0.8 |
| Total plasma cholesterol (mg/dl) | 70 ± 5 | 72 ± 2 | 81 ± 2 | 94 ± 6 | 49 ± 4* | 46 ± 3** | 42 ± 4** | 67 ± 8* |
| Total plasma triglycerides (mg/dl) | 131 ± 23 | 104 ± 9 | 85 ± 6 | 67 ± 8 | 107 ± 18 | 71 ± 8 | 92 ± 16 | 66 ± 2 |
| Plasma insulin (ng/ml) | 0.53 ± 0.02 | 0.50 ± 0.04 | 0.50 ± 0.19 | 0.55 ± 0.09 | 0.43 ± 0.11 | 0.46 ± 0.02 | 0.62 ± 0.08 | 0.51 ± 0.05 |
| Plasma glucose (mg/dl) | 205 ± 9 | 193 ± 10 | 190 ± 8 | 190 ± 1 | 184 ± 8 | 182 ± 16 | 213 ± 7 | 200 ± 4 |
| Plasma free fatty acids (mM) | 0.61 ± 0.08 | 0.62 ± 0.1 | 0.66 ± 0.09 | 0.47 ± 0.07 | 0.52 ± 0.04 | 0.44 ± 0.05 | 0.49 ± 0.04 | 0.54 ± 0.02 |

8-week old female mice (4 per group) were fed an ad libitum chow diet supplemented with the indicated amount of cholesterol for 2 days prior to study. The wild type mice were littermates of the transgenic mice. Each value represents the mean ± SEM of 4 mice. Asterisks denote the level of statistical significance (Student's *t* test) between the wild type and TgInsig-1 groups. *, *p*< 0.05; **, *p*< 0.01.

