## **Online Supplement Material**

Estimation of the variance of treatment effect

For cross-over trials, the variance of the change in adiponectin due to fish oil supplementation was calculated as  $(SD^2_{end of treatment, fish oil} / n_{fish oil}) + (SD^2_{end of treatment, placebo} / n_{placebo}) - [2 (r) (SD_{end of treatment, fish oil} / n_{fish oil}) + (SD^2_{end of treatment, placebo} / n_{placebo}) - [2 (r) (SD_{end of treatment, fish oil} / n_{fish oil}) - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo})] - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo})] - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo})] - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo})] - [2 (r) (SD_{end of treatment, placebo}) - [2 (r) (SD_{end of treatment, placebo})] - [2 (r) (SD_{end of treatment, p$ 

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