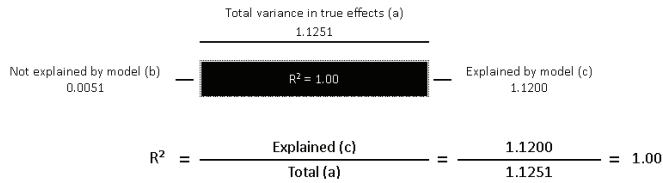**Supplementary Fig. 6.** Meta-regression model of the future pregnancy rate in the laparoscopy group.

4. Meta-regression model

Pregnancy rate in the laparoscopy group

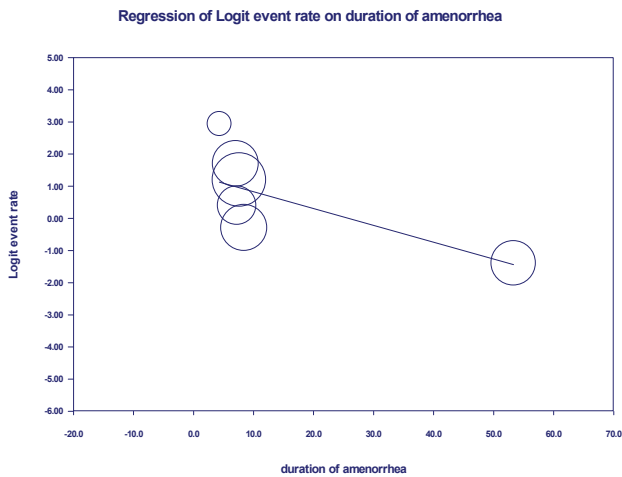Covariate(s): duration of amenorrhea & sample size

R^2 for Model 1, Random effects (MM), Z-Distribution, Logit event rate

Total variance in true effects (a)
1.1251

Not explained by model (b) $R^2 = 1.00$ Explained by model (c)
0.0051   1.1200

$$R^2 = \frac{\text{Explained (c)}}{\text{Total (a)}} = \frac{1.1200}{1.1251} = 1.00$$

(a) To compute the total variance (of all studies about the grand mean) we run the regression with no covariates.
(b) To compute the variance not explained by the model (of all studies about the regression line) we run the regression with the covariates.
(c) The difference between these values gives us the variance explained by the model.

Scatter plot
Duration of amenorrhea

Regression of Logit event rate on duration of amenorrhea

SS

Regression of Logit event rate on SS