

**Table 2** Comparison of ANCOVA, LMM and linear regression model.

ANOVA vs LMM		
Model	AIC	BIC
ANCOVA	487	503
LMM (random intercept)	354	376
LMM (random coefficient)	304	333
LMM vs linear regression model		
Likelihood ratio test:		
Prediction values Prob>chi <sup>2</sup> =0.00 that LMM was a superior model to LMM (p-value 0.0001)		
ANOVA, Analysis of variance; ANCOVA, Analysis of covariance; LMM, Linear mixed model.		