

**Biostatistics statement**

Data are mean $\pm$ SD of at least three replicates. Student's t-test was used to compare continuous measurement data with normal distribution between two groups. One way analysis of variance (ANOVA) was employed while comparing three groups. Mann-Whitney U test was used to evaluate continuous data with non-normal distribution;  $\chi^2$  test was used to compare positive rates. Statistical analyses were performed with the SPSS13.0 software (SPSS, USA).  $P < 0.05$  was considered statistically significant.

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