## **Certificate of Biostatistics**

Manuscript NO: 83153

**Manuscript Type:** META-ANALYSIS

Title: The efficacy and safety of intravenous tranexamic acid in total shoulder

arthroplasty: a meta-analysis

The statistical methods of this study were reviewed by a member of the Biostatistics service from Guangzhou University of Chinese Medicine.

Name: Jinlong Zhao

Signature: Zhao Jin Long

Contact information: Email: oszhaojinlong@163.com