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Biostatistics Review Certificate

For manuscript titled:

**Development and Validation of a Machine Learning-Based Early Prediction
Model for Massive Intraoperative Bleeding in Patients with Primary Hepatic
Malignancies**

(Prepared by the author: Jin Li, Yuming Jia, Zhilei Zhang, Chengyu Liu, Zhanwu
Jiang, Zhiwei Hao, Li Peng)

The statistical methods of this study were reviewed by Jin Li from The Fourth
Hospital of Hebei Medical University.

Signatur

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