

# Certificate of biostatistics

In 5<sup>th</sup> of September 2019

To whom it may concern

**Study title:**

Novel markers of endothelial dysfunction in HCV related cirrhosis: more than a mere prediction of esophageal varices.

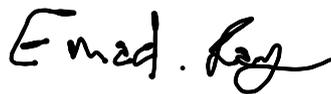
Chief Investigator: Amr Shaaban Hanafy,

Internal medicine- gastroenterology and Hepatology department -Zagazig University.

This letter is to confirm that I had read, qualified the statistical methods that were applied and followed by this research and I found them sound and appropriate

Sincerely,

Dr Emad Hanafy



Biostatistician, Faculty of medicine, 6 October University, Egypt.

Maromasso@yahoo.com