5 July 2023

To whom it may concern

Title of this study: Clinical impact of portal vein pulsatility on the prognosis of hospitalized patients with acute heart failure

Chief investigator: Tomoyuki Honjo,

Division of Cardiology, Department of Internal Medicine, Shinko Hospital.

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical methods and techniques mentioned are appropriate for the research

Please contact me if you have any queries.

Sincerely,

Tomoyuki Honjo. M.I

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