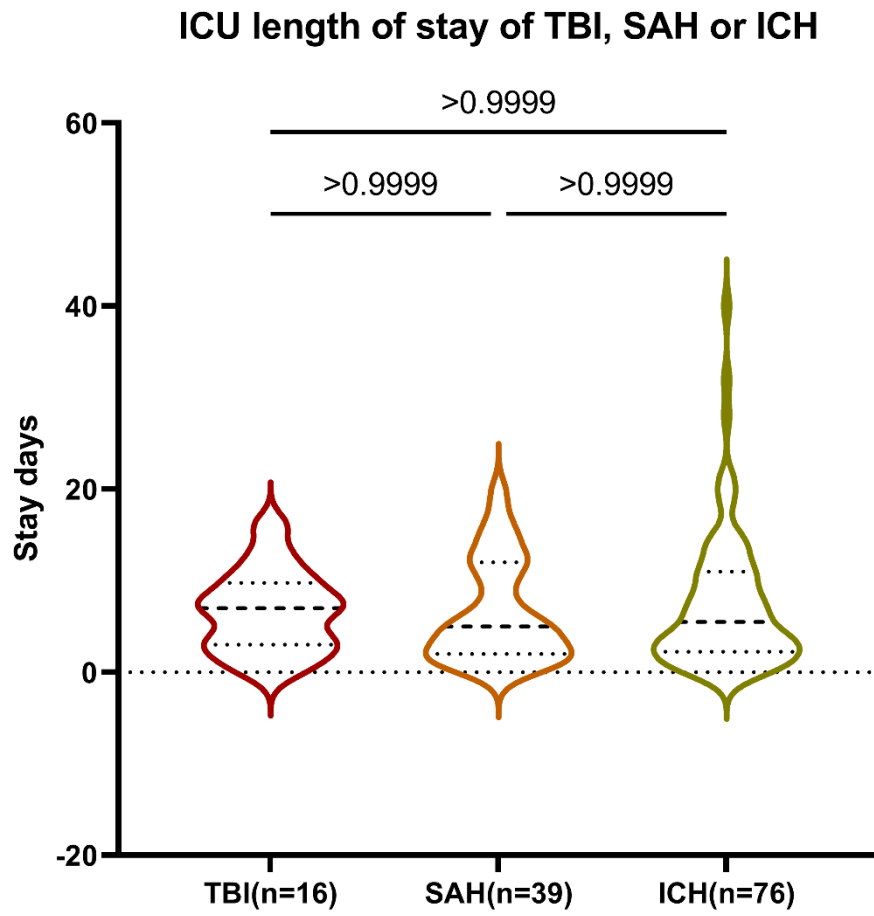
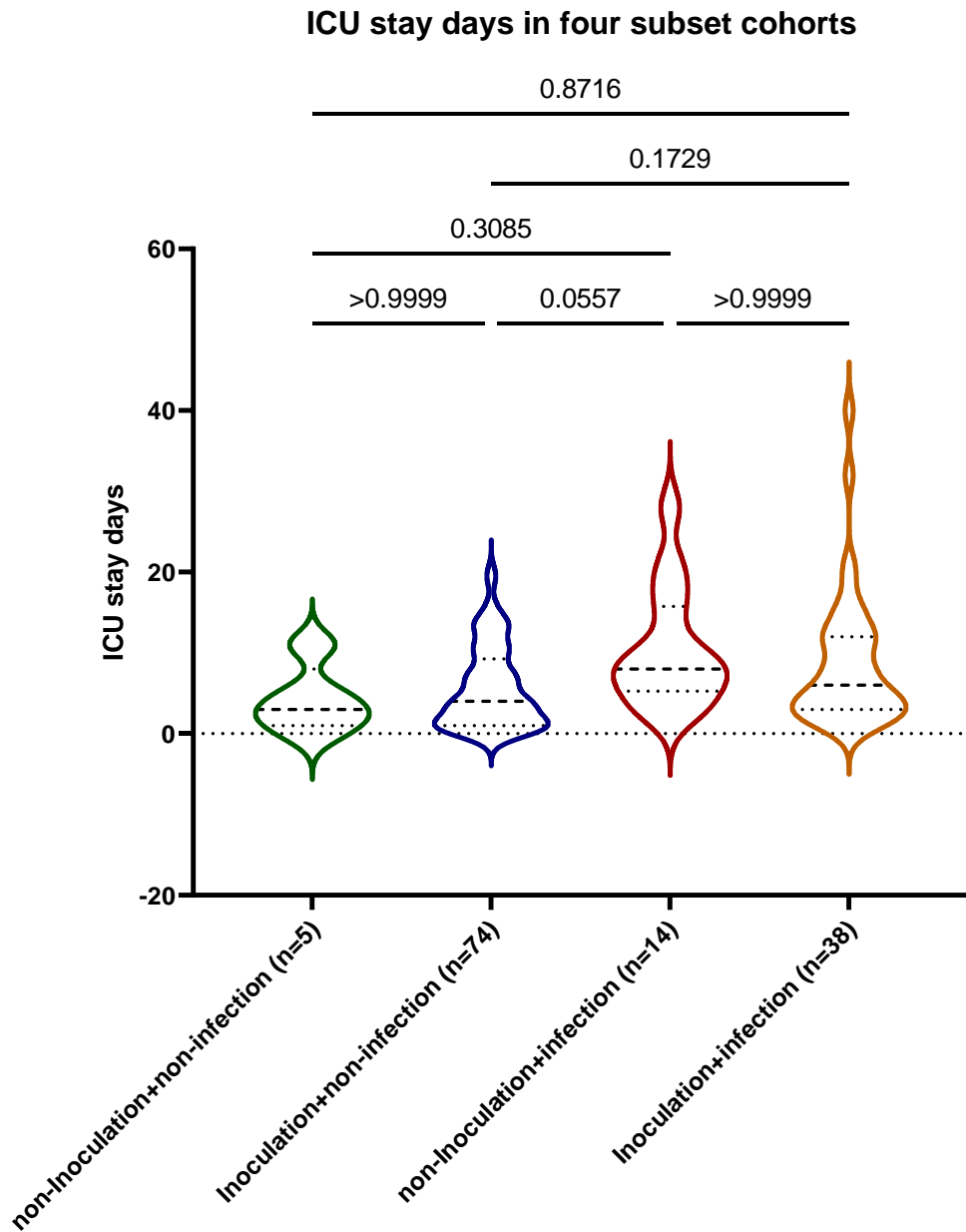


**Fig S1. Study Flow Chart**



**Fig S2.** The violin plot suggests no significant differences in ICU length of stay among patients with ICH, SAH, and TBI in the present study.



**Fig S3.** The violin plot did not show a significant difference between patients who received the COVID-19 vaccine and those who did not receive the vaccine