

Fig. 1 Box Plot Showing Anti-S Antibody Concentration and Neutralizing Antibody Response Rate Against the Wuhan Strain and Omicron Variant in Participants Receiving Latest Vaccine Dose During Different Trimesters

(A) Concentration of maternal and cord blood anti-S antibody in all participants. (B) Concentration of maternal and cord blood anti-S antibody in participants with SARS-CoV-2 negative. (C) Concentration of maternal and cord blood anti-S antibody in participants with SARS-CoV-2 positive. (D) Concentration of maternal and cord blood neutralizing antibodies against Wuhan strain in all participants. (E) Concentration of maternal and cord blood neutralizing antibodies against Wuhan strain in participants who were SARS-CoV-2 negative. (F) Concentration of maternal and cord blood neutralizing antibodies against Wuhan strain in participants who were SARS-CoV-2 positive. (G) Concentration of maternal and cord blood neutralizing antibodies against Omicron variant in all participants. (H) Concentration of maternal and cord blood neutralizing antibodies against Omicron variant in participants who were SARS-CoV-2 negative. (I) Concentration of maternal and cord blood neutralizing antibodies against Omicron variant in participants who were SARS-CoV-2 positive. Significance was determined using the Mann-Whitney U test. * $p < 0.05$

T1, before pregnancy and during first trimester; T2, during second trimester; T3, during third trimester; *SARS-COV-2*, severe acute respiratory syndrome coronavirus 2

Fig. 2 Scatter Plot Presenting Correlation Between the Time Interval from Latest Vaccine or Infection to Blood Sampling and Log₁₀ Transformed Maternal and Cord Blood Anti-S Concentration

(A) Correlation between the time interval from latest vaccine dose to blood sampling and log₁₀ transformed maternal blood (●) and cord blood (○) anti-S concentration in participants with SARS-COV-2 negative (n=37).

(B) Correlation between the time interval from infection to blood sampling and log₁₀ transformed maternal blood (◆) and cord blood (◇) anti-S concentration in participants with SARS-CoV-2 positive >7 days (n=12).

Fig. 3 Scatter Plot Presenting the Correlation of Time Interval from Last Vaccine or Infection and Transplacental Transfer Ratio of Anti-S and Anti-N Antibodies

Anti-S antibody transplacental ratio of participants with SARS-CoV-2 negative (n=37) were depicted in the scatter plot as triangle marker (▲). Anti-N and anti-S antibodies transplacental ratio of participants with SARS-CoV-2 infection >7 days (n=12) were depicted as circle (○) and filled diamond- shaped marker (◆), respectively.

Anti-S, anti-S RBD antibody; *Anti-N*, anti-nucleocapsid antibody.



