Supplementary Figures

Supplementary Figure 1: Flow chart for participant selection.

Women who had a delivery between January 2011 and December 2020 with a definite outcome of confirming or excluding diagnosis of congenital syphilis by June 2021 (n=14449)

Excluded cases (n=589)
- Twin or multiple pregnancy (n=243)
- Neonatal death (n=17)
- Infected with HIV or HBV in the mother (n=308)
- Incomplete records (n=21)

Eligible cases (n=13860)

Congenital syphilis (n=1370)
Non-Congenital syphilis (n=12490)
**Supplementary Figure 2:** The least absolute shrinkage and selection operator (LASSO) regression model used to select predictors of mother-to-child transmission of syphilis (A) Selection of the tuning parameter ($\lambda$) of the nomogram. (B): LASSO coefficients of the ten features of the nomogram.