

Appendix S1. Database description

TriNetX research network

The TriNetX research network, comprising over 130 health collaborative organizations (HCOs), is a global-federated research network widely utilized in large-scale epidemiological studies. It offers access to electronic medical records, including disease diagnoses (recorded base on ICD-10-CM codes), medication prescriptions (recorded based on ATC codes, VA codes or RxNorm codes), procedures undergone (recorded base on ICD-10-PCS codes), and laboratory data. This study utilized Global collaborative network, a subset of the TriNetX network, for analysis. The Global network includes 134 HCOs across 19 countries, with data from over 120 million patients. The TriNetX database undergoes monthly updates, ensuring up-to-date information.

Ethic statement

This research has been approved by Institutional Review Board of Chung Shan Medical University Hospital (IRB No. CS1-25002) and the need of informed consent is exempted by the Institutional Review Board. Trial registry is not applicable as the current study is not a clinical trial.