

China Regional Electronic Health Records (rEHR)

China's rEHR Datasets includes 3 regional-level EHR sources comprising 333 hospitals and 256 health center stations, and other health service centers from Chongqing city, Tianjin city, and Yinzhou district in Ningbo city. Many other regional EHR databases are emerging across China in line with recent policy changes by the Chinese National Health Commission to promote the development of single large-scale health data platform.

Ideal Data Uses and Highlights

Ideal for commercial, med/sci, and AI/ML analysis, rEHR comprises both inpatient and outpatient hospital data and includes patient demographics, medical and clinical data (diagnosis, procedures, surgery, lab tests, comorbidities, hospitalizations, total cost of visit), and treatment information. Patient data is de-identified before being cleaned and structured in central database.

Regional EHR with different levels of collaboration on RWE projects in China

China: General features of Chinese rEHR



Abbreviations: EMR: Electronic Medical Records. EHR: Electronic Healthcare Records; IRB: Institutional Review Board; EC: Ethics Committee; RWD: Real World Data; RWE: Real World Evidence

China: Specific features of rEHR databases

	TIANJIN REHR	CHONGQING REHR	YINZHOU REHR
Description	• City-level regional EHR database in Tianjin city	 City-level regional EHR in Chongqing city 	• District-level regional EHR in Yinzhou, Ningbo city
Data coverage	• ~15 million residents	• ~32 million residents	• ~1.6 million residents
	• 82 hospitals	• 241 hospitals	• 10 hospitals + 22 community service centers
Data standardization	Unstandardized data	Unstandardized data	• OMOP data in T2D, HTN, COPD, CKD
Geographic location	• North China	• Southwest China	• East China

Abbreviations: rEHR: regional electronic healthcare records; EC: Ethics committee; HGRAC: Human Genetic Resource Administration of China *For full study, if the study does not involve/analyze genetic information or materials, there is no need for HGRAC application

Introduction/Overview of the three datasets

The Tianjin rEHR is a regional database from urban hospitals in Tianjin, China. This database pools patient-level data extracted from 82 hospitals and covering a region encompassing ~15 million residents. The dataset aims to improve healthcare services, research, and interoperability by providing standardized and comprehensive health information. The Chongqing rEHR is a regional database located in southwestern China and shares borders with Shaanxi, Hunan, and Guizhou provinces. This database pools patientlevel data extracted from 241 hospitals encompassing a region with ~32 million residents. The dataset aims to improve healthcare services, research, and interoperability by providing standardized and comprehensive health information. The Yinzhou rEHR is a districtlevel database encompassing a region of approximately 1.6 million residents in Yinzhou District, Ningbo City, China, since 2006. This dataset pools patient-level data extracted from 10 hospitals, 22 community health service centers, and 256 health service stations within the district. It serves as a valuable resource for research and insights related to healthcare outcomes and patient management.



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