

Article title: What, Where, and How to Collect Real-World Data and Generate Real-World Evidence to Support Drug Reimbursement Decision-Making in Asia: A reflection Into the Past and A Way Forward

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Supplementary file 1. Real-World Data Sources Available in Asia

Table S1: List of real-world data sources available in Asia (non-exhaustive). Adapted from Milea et al. (2015) and supplemented by the REALISE guidance authors.

Country / RWD source	RWD source
<p>Bhutan</p> <ul style="list-style-type: none"> • Bhutan cancer Registry • DHIS-2 (District Health Information System) • Mother and Child Health tracking system • Lab Information system • e-BMSIS (Electronic Bhutan Medical Supplies Inventory System) 	<p>Registry EMR EMR EMR EMR</p>
<p>China</p> <ul style="list-style-type: none"> • Zhongnan Hospital • West China Hospital • Jinhua Municipal Central Hospital database • The 306th Hospital of PLA, Beijing • Chinese People’s liberation army general hospital database • Soochow University Affiliates Children’s Hospital database • Urban Employee Basic Medical Insurance database (UEBMI) (Tianjin) • UEBMI (Guangzhou) • UEBMI (Hebei) • Urban Resident Basic Medical Insurance database (URBMI) (Guangzhou) • China Health Insurance Research Association (CHIRA) database • Zhongshan Hospital • New Rural Cooperative Medical Scheme (NRCMS) • Electronic Health Records (EHR) system - Minhang, Shanghai • Guangzhao Psychiatric Hospital 	<p>EMR EMR EMR EMR EMR EMR Claims database Claims database Claims database Claims database Claims database Claims database EMR Claims database EMR EMR</p>
<p>India</p> <ul style="list-style-type: none"> • National Health System Cost Database 	<p>Claims database</p>
<p>Japan</p>	<p>EMR</p>

<ul style="list-style-type: none"> • Convergence CT Global Research Network (CGRN) • Medical Data Vision (MDV) EBM Provider • Hamamatsu Medical University Database • Osaka University Database Computer Operating System Database Dokkyo Medical University • EMR Retrieval System-Kyoto University Hospital • Nihon University School of Medicine Clinical Data Warehouse • Japan Medical Data Centre (JMDC) Claims database • JammNet • Diagnosis Procedure Code Database • NHI Database • Medi-Trend • Nihon-Chouzai Pharmacy Claim Database • JMIRI Pharmacy Claims Database • Long term care insurance (Kaigo Hoken) 	<p>Hospital administration EMR EMR</p> <p>EMR EMR</p> <p>Claims database</p> <p>Claims database EMR</p> <p>Claims database Prescription Prescription Prescription Claims database</p>
<p>Malaysia</p> <ul style="list-style-type: none"> • United Nations University (UNU)-Casemix database • Electronic Health Management Information System • Acute Stroke Registry Malaysia • Malaysian Thalassaemia Registry • National Dermatology Registry • Malaysian Gastrointestinal Registry • Malaysian National Neonatal Registry • National Cardiovascular Disease Database • National Cancer Patient Registry • National Cardiovascular and thoracic surgical database • National Eye Database • National Inflammatory Arthritis Registry • National Neurology Registry 	<p>Hospital administration (discharge records)</p> <p>Hospital administration</p> <p>Registry Registry Registry Registry Registry Registry Registry Registry Registry Registry Registry Registry Registry</p>

<ul style="list-style-type: none"> • National Obstetrics Registry (NOR) Malaysia • National Renal Registry • Malaysian Registry of Renal Biopsy • National Transplant Registry • National Trauma Database • National Orthopaedic Registry Malaysia • National Suicide Registry Malaysia • Malaysian Registry of Intensive Care 	Registry Registry Registry Registry
<p>Philippines</p> <ul style="list-style-type: none"> • Philippine Health Insurance Corporation (PhilHealth) Claims Database • Philippine Health Insurance Corporation (PhilHealth) Cost Database for Z-Benefits • Philippine Integrated Disease Surveillance and Response (PIDSRS) • Philippine Renal Disease Registry (PRDR) • Field Health Service Information System • National Injury Surveillance System 	Claims database Claims database Registry Registry Database Database
<p>Singapore</p> <ul style="list-style-type: none"> • Casemix database • Medisave database • National Electronics Health Records Database • National Immunization Registry • Various condition-specific registries including Singapore Acute Myocardial Infarction Registry, Singapore Cancer Registry, Singapore Diabetes Registry, Singapore Stroke Registry, Singapore Renal Registry, etc. 	Hospital Claims database EMR Registry Registry

<p>South Korea</p> <ul style="list-style-type: none"> • National Health Insurance Corporation (NHIC) database • Health Insurance Review and Assessment (HIRA) database • NCI Central Cancer Registry • National Institute of Health Clinical Research Information System (CRIS) • All hospitals have EMR systems compliant to HL7 and connected with PACS and OCS for various research 	<p>Claims database</p> <p>Claims database</p> <p>Registry Registry (only publicly funded research registries)</p> <p>EMR (with image data)</p>
<p>Taiwan</p> <ul style="list-style-type: none"> • National Health Insurance (NHI) Database • NHI DAA-treated patients registry • NHI immune oncology drugs treated patient registry • Taiwan Cancer Registry • Cancer screening registries • Adult preventive health information file • Rare disease data • Data of genetic disease • Notifiable disease dataset of confirmed cases • Symptom Surveillance and Reporting System Database • Infectious diseases database (tuberculosis, HIV/AIDS) • Database of National Immunization Information System • Birth certificate application • Survey for three-hypers series • National Health Interview Survey • Chang Gung Research Database (CGRD) • China Medical University Hospital Clinical Research Data Repository (CMUH-CRDR) • National Taiwan University Hospital Integrated Health Care Information System (NTUH-IHIS) 	<p>Claims database Registry/Claims database Registry/Claims database</p> <p>Registry Registry Registry Registry Registry Registry Registry</p> <p>Registry</p> <p>Registry</p> <p>Registry Health survey Health survey EMR EMR</p> <p>EMR</p> <p>EMR</p> <p>EMR</p>

<ul style="list-style-type: none"> • Taipei Medical University Healthcare System Clinical Data • Taipei Veterans General Hospital Big Data Center (Taipei VGH BDC) 	
<p>Thailand</p> <ul style="list-style-type: none"> • Universal Coverage Scheme • Civil Servant Medical Benefits Scheme • Social Security Scheme • Ramathibodi Hospital Database • Buddhachinaraj Hospital Database • Sunpasitthiprasong Hospital • Nakhon Thai Crown Prince Hospital 	<ul style="list-style-type: none"> Claims database Claims database Claims database EMR EMR EMR EMR

Milea D, Azmi S, Reginald P, et al. A review of accessibility of administrative healthcare databases in the Asia-Pacific region. J Mark Access Health Policy 2015;3 doi: 10.3402/jmahp.v3.28076