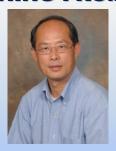


#### Moderator

# Second Plenary Session ELECTRONIC HEALTH RECORDS FOR INFORMED HEALTH CARE IN ASIAPACIFIC: LEARNING FROM EACH OTHER



Jianfei (Jeff) Guo, PhD, RPh
University of Cincinnati
Cincinnati, OH, USA



#### **Speakers**

# Second Plenary Session ELECTRONIC HEALTH RECORDS FOR INFORMED HEALTH CARE IN ASIAPACIFIC: LEARNING FROM EACH OTHER



Daopu Xie

Huangzhou Municipal Medical Insurance Bureau
Zhejiang Province, China



Naoto Kume, PhD

Kyoto University
Kyoto Prefecture, Japan



#### **Speakers**

# Second Plenary Session ELECTRONIC HEALTH RECORDS FOR INFORMED HEALTH CARE IN ASIAPACIFIC: LEARNING FROM EACH OTHER



Libby Roughead, PhD
University of South Australia
Adelaide, Australia



Judith K. Jones, MD, PhD
B.R.I.D.G.E. TO DATA ®
(Formerly US FDA)
Fairfax, VA, USA

### Type of Big-Health Data

- Clinical Trials
- Medical claims databases
- Medical record databases
- Specific registry databases
- Spontaneous reporting systems
- Health survey databases
- Other health care databases (e.g., Biobank,.... National Death Index)

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### EHRS vs. EMRs

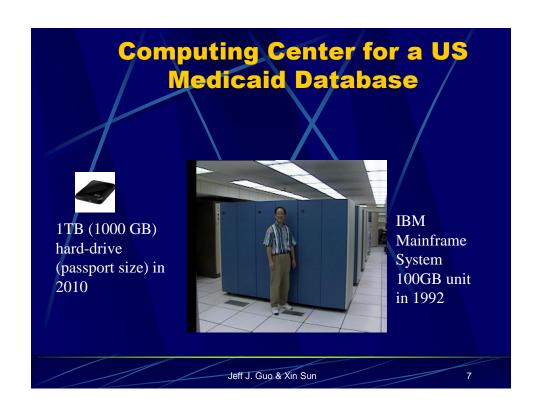
- Electronic health records (EHRs)
  - A systematic collection of electronic <u>health</u> information about a patient or population.
- Electronic medical records (EMRs)
  - A digital version of patient charts related to patient's <u>diagnosis and treatment</u>.
- EMRs and EHRs are often used interchangeably, but there are some differences.

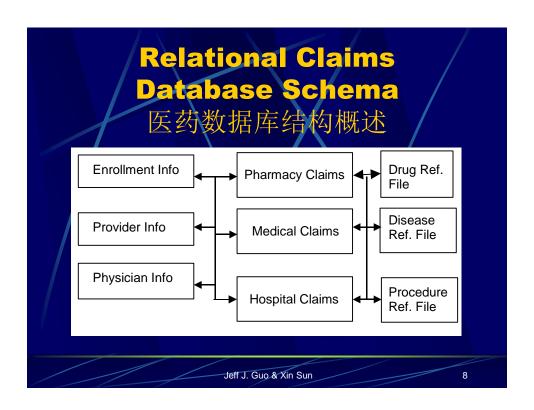
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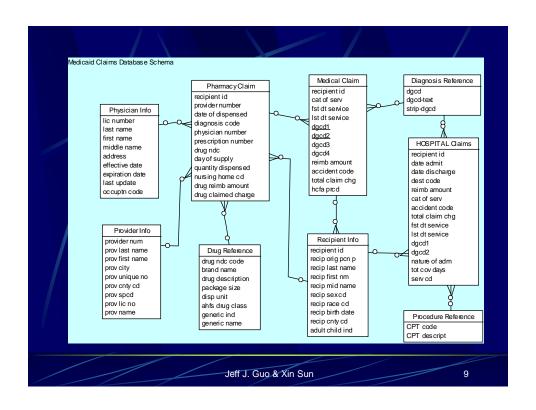
### **Objectives**

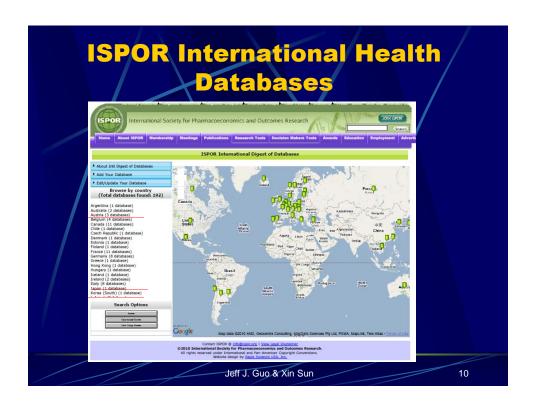
- Health care data is essential for evidence-based decision making.
- EHR (or EMR) is an important resource for health care.
- Let us discuss EHR/EMR in Asia Pacific about their development, collection, data use, and privacy concerns.
- Discuss international experience and lessons-learned.

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## **Examples of Health Databases in USA**

Database Name	Country
National Hospital Discharge Survey (NHDS)	USA
National Health Interview Survey	USA
Third National Health and Nutrition Examination Survey (NHANES III)	USA
Medi-Cal Paid Claims File	USA
MarketScan Private Pay, Fee for Service, Encounter, Medicare, and Medicaid	USA
Boston City Hospital Birth/Maternity Survey	USA
Department of Veterans Affairs (VA) - Patient Treatment File Database	USA
Department of Veterans Affairs (VA) - Outpatient Clinics Database	USA
Group Health Cooperative of Puget Sound	USA
California Birth Defects Monitoring Program	USA
SEER-Medicare Database	USA
American Association of Poison Control Centers Toxic Exposure Surveillance	USA
Rochester Epidemiology Project (REP)	USA
Vaccine Adverse Event Reporting System (VAERS)	USA
FDA Adverse Event Reporting System (AERs)	USA

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## Examples of Health Databases in UK

VAMP Research Data Bank (now GPRD?)	UK	3
PEMBase (Drug Safety Research Unit database based on Prescription-Event	UK	2
Medical Data Index (MDI)	UK	2
Morbidity Statistics From General Practice	UK	2
Committee on Safety of Medicines Register of Adverse Reactions	UK	2
Northern Ireland D.U.R.U. Database (Drug Utilization Research Unit)	UK	2
MEMO: Tayside Record Linkage System/Medicine Monitoring Unit	UK	1
UK MediPlus® General Practice Patient Records (GPRD)	UK	1
MEMO - Scotland	UK	1
International Studies of Infarct Survival (ISIS) - Lidocaine Controlled Trials	INT UK contact	2
Medicines Control Agency: General Practice Research Database (used to be	UK	1

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## Implications of Big-Health Databases Overview

- A number of health databases exist worldwide for research. Every database has its characteristics, advantages, and limitations.
- We need to identify the most appropriate database(s) for specific research needs according to geographical area, disease category, population characteristics, and medical specifications.

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