

Transforming Existing Clinical and Research Data Sets to Standardized Terminology for Research



OiSaeng Hong, RN, PhD, FAAN¹
Karen A. Monsen, RN, PhD, FAAN^{2,3} (Presenter)
Madeleine J. Kerr, RN, PhD^{2,3}
Dal Lae Chin, RN, PhD¹

¹ University of California at San Francisco (UCSF) School of Nursing, San Francisco, CA
² University of Minnesota School of Nursing, Minneapolis, MN
³ University of Minnesota Institute for Health Informatics, Minneapolis, MN

Greetings from San Francisco



OiSaeng Hong

Large Research Data Sets

- Potentials to utilize existing large data sets to inform important clinical/research questions in new ways
 - Informatics focus
 - Expand scholarship/expertise

More Value with Standardization

- **Comparability of standardized concepts**
 - Hearing, Substance use, Circulation
 - Knowledge
 - Behavior
 - Status

Two Exemplars

- **Hearing health**
 - SIREN (Safety Instruction to Reduce Exposure of Noise and hearing loss) with career firefighters
- **Diabetes**
 - SALSAs (Sacramento Area Latino Study on Aging) with older Mexican Americans

Dissemination Pattern

- **Communicate best practices**
 - Standardized care plans
 - Standardized outcomes; create opportunities for data exchange across settings
- **Disseminate findings**
 - Quantitative results
 - New perspectives
 - Rapid publication and presentation acceptance

Low cost, high reward

- Transformation of existing data
 - Cost effective
 - New perspective
 - Rapid turn around

Leadership

- Standardized ontology bridges worlds
 - Research
 - Practice
 - Education
- Standardized ontology bridges content silos
 - Comprehensive, holistic view of health
- Leaders are needed to build these bridges

Acknowledgement

- **SIREN Project**
 - Funded by Department of Homeland Security Federal Emergency Management Administration (EMW-2007-FP-00785, PI: Hong)
- **SALSA Project**
 - Funded by National Institute of Aging (AG12975, PI- Haan), National Institute for Diabetes, Digestive and Kidney Diseases (DK60753, PI-Haan)
