Moderator





Louisa Jorm, PhD
University of New South Wales
(UNSW)
Sydney, Australia

Second Plenary Session



Harnessing the Power of Big Data to Make Better Health Care Decisions in the Asia-Pacific Region



Christopher Chute, MD, DrPH
Bloomberg Distinguished Professor of
Health Informatics, Professor of
Medicine, Public Health, and Nursing
Chief Health Research Information
Officer, Johns Hopkins Medicine
Johns Hopkins University
Baltimore, MD, USA

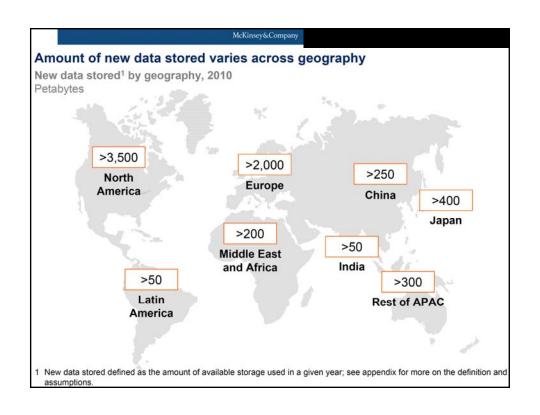


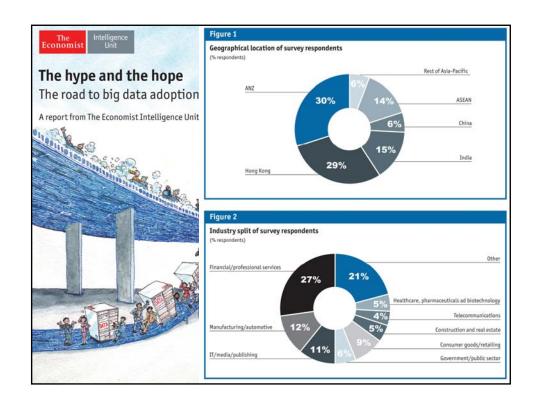
Trish Williams, PhD Professor & Chair of Digital Health Technologies Flinders University Adelaide, Australia

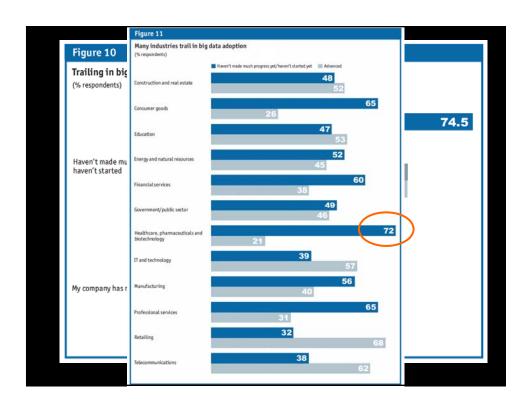


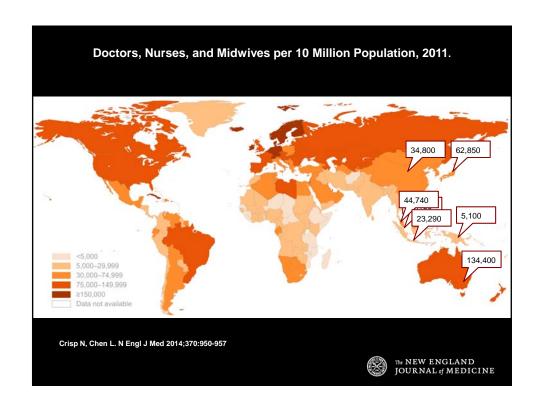
Yoke Sin Chong, PhD
Chief Executive Officer
Integrated Health Information
Systems Pte Ltd
Singapore

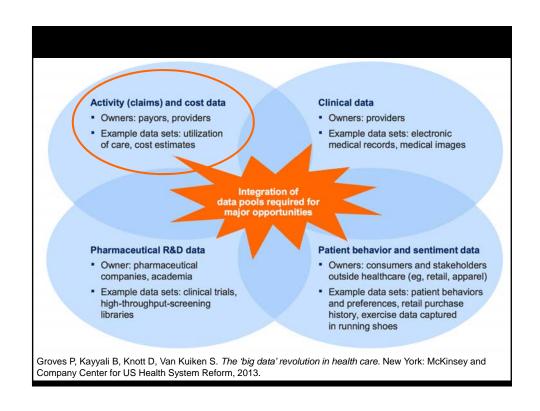






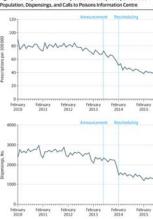






Interrupted Time Series Analysis of the Effect of Rescheduling Alprazolam in Australia: Taking Control of Prescription Drug Use

Alprazolam is significantly more toxic, has no addit therapeutic benefit, and is increasingly misused comp with other benzodiazepines. 1-3 Due to concerns about increasing use of alprazolam, in February 2014, the Aulian Therapeutic Goods Administration selectively resculed alprazolam from Schedule 4 (Prescription Only Morine) of the Poisons Standard to Schedule 8 (Contribute), equivalent to Schedule II in the United States.



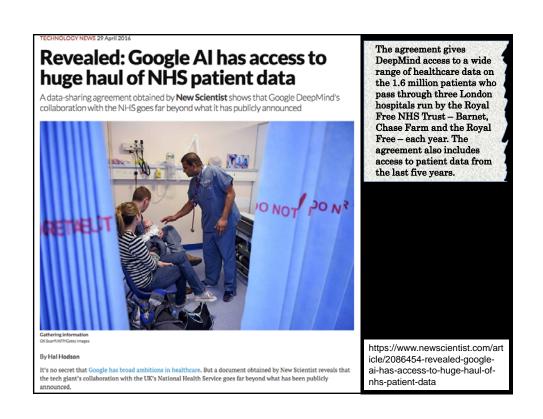
Discussion | In Australia, selectively rescheduling alprazolam led to a reduction in overall use and adverse events and increased switching to less toxic benzodiazepines.

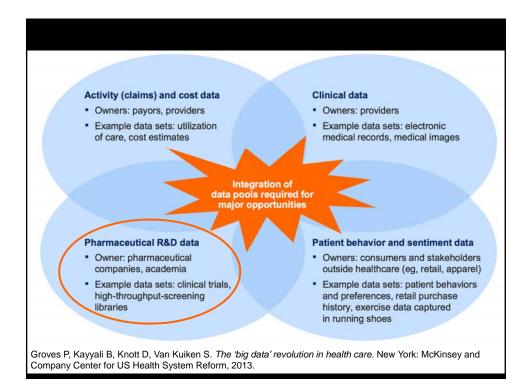
Schaffer AL, *Buckley NL*, *Cairns R*, *Pearson S*. JAMA Intern Med. Published online July 05, 2016. doi:10.1001/jamainternmed.2016.2992

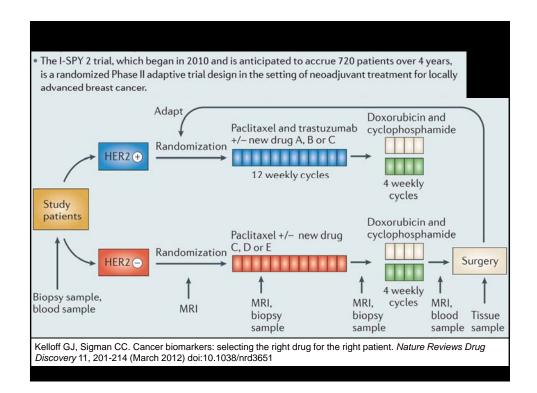
Company Center for US Health System Reform, 2013.

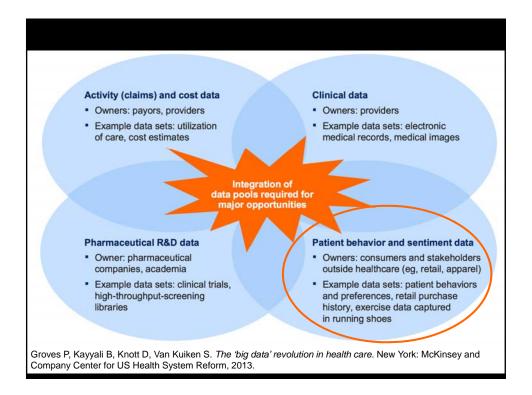
Activity (claims) and cost data Clinical data · Owners: payors, providers Owners: providers · Example data sets: utilization Example data sets: electronic of care, cost estimates medical records, medical images Integration of data pools required for Pharmaceutical R&D data Patient behavior and sentiment data Owner: pharmaceutical Owners: consumers and stakeholders outside healthcare (eg, retail, apparel) companies, academia Example data sets: patient behaviors · Example data sets: clinical trials, high-throughput-screening and preferences, retail purchase libraries history, exercise data captured in running shoes Groves P, Kayyali B, Knott D, Van Kuiken S. The 'big data' revolution in health care. New York: McKinsey and

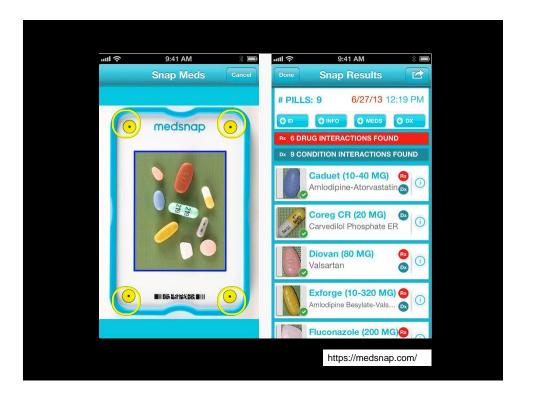


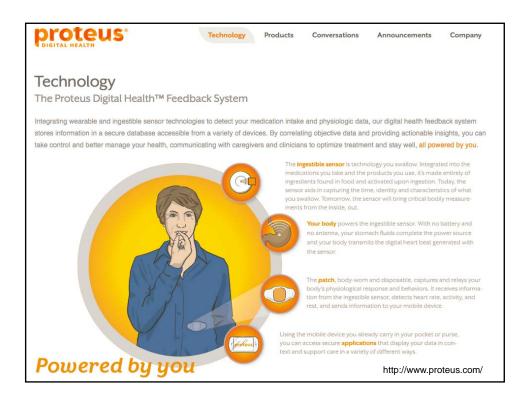








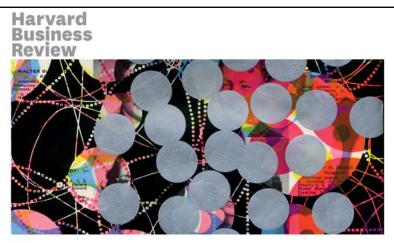




At e-commerce site operator Etsy Inc., a biostatistics Ph.D. who spent years mining medical records for early signs of breast cancer now writes statistical models to figure out the terms people use when they search Etsy for a new fashion they saw on the street.

Another 28-year-old at Yelp, with a Ph.D. in applied mathematics, turned his dissertation research on genome mapping into a product used by the company's advertising team. The same genome-mapping algorithm is now used to measure the effect on consumers when multiple small changes are made to online ads.

http://www.wsj.com/articles/academic-researchers-find-lucrative-work-as-big-data-scientists-1407543088



DATA

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE