Moderator

Louisa Jorm, PhD
University of New South Wales (UNSW)
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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
Big data in Asia-Pacific health care
Louisa Jorm 5 September 2016
Medicine is an information profession and the underlying basis of investigation must increasingly include data science.

Harlan Krumholz, 2016
Doctors, Nurses, and Midwives per 10 Million Population, 2011.


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 compared with other benzodiazepines. Due to concerns about increasing use of alprazolam, in February 2014, the Australian Therapeutic Goods Administration selectively rescheduled alprazolam from Schedule 4 (Prescription Only Medicine) of the Poisons Standard to Schedule 8 (Controlled Drug), 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.


The agreement gives DeepMind access to a wide range of healthcare data on the 1.6 million patients who pass through three London hospitals run by the Royal Free NHS Trust – Barnet, Chase Farm and the Royal Free – each year. The agreement also includes access to patient data from the last five years.


https://medsnap.com/
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 Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

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