# CHMEGH23: Principles of Health Informatics



1.

Taylor, P. From patient data to medical knowledge: the principles and practice of health informatics. (BMJ, 2006).

2.

Coiera, E. Guide to health informatics. (CRC Press, 2015).

З.

Foley, T. & Fairmichael, F. The Potential of Learning Healthcare Systems. (2015).

4.

Wachter, R. Using information technology to improve the NHS. (2016).

5.

GREENHALGH, T., Potts, H. W. W., Wong, G., Bark, P. & Swinglehurst, D. Tensions and paradoxes in electronic patient record research: a systematic literature review using the meta-narrative method. The Milbank Quarterly **87**, 729–788 (2009).

6.

Friedman, C. et al. Toward a science of learning systems: a research agenda for the high-functioning Learning Health System. Journal of the American Medical Informatics Association (2014) doi:10.1136/amiajnl-2014-002977.

Yom-Tov, E., Borsa, D., Cox, I. J. & McKendry, R. A. Detecting Disease Outbreaks in Mass Gatherings Using Internet Data. Journal of Medical Internet Research **16**, (2014).

8.

Dixon, J. et al. Assessment of the reproducibility of clinical coding in routinely collected hospital activitydata: a study in two hospitals. Journal of Public Health **20**, 63–69 (1998).

9.

Taylor, P. Rigging the Death Rate. The London Review of Books (11AD).

10.

Freemantle, N. et al. Weekend hospitalization and additional risk of death: An analysis of inpatient data. JRSM **105**, 74–84 (2012).

11.

Li, L. & Rothwell, P. M. Biases in detection of apparent "weekend effect" on outcome with administrative coding data: population based study of stroke. BMJ (2016) doi:10.1136/bmj.i2648.

12.

Li, L. et al. Identification of type 2 diabetes subgroups through topological analysis of patient similarity. Science Translational Medicine 7, 311ra174-311ra174 (2015).

13.

D'Agostino, R. B. et al. General Cardiovascular Risk Profile for Use in Primary Care: The Framingham Heart Study. Circulation **117**, 743–753 (2008).

Weissman, J. S. et al. Comparing Patient-Reported Hospital Adverse Events with Medical Record Review: Do Patients Know Something That Hospitals Do Not? Annals of Internal Medicine **149**, (2008).

## 15.

Staa, T.-P. v. et al. Pragmatic randomised trials using routine electronic health records: putting them to the test. BMJ **344**, e55–e55 (2012).

### 16.

GREENHALGH, T., ROBERT, G., MACFARLANE, F., BATE, P. & KYRIAKIDOU, O. Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations. The Milbank Quarterly **82**, 581–629 (2004).

## 17.

Michie, S., van Stralen, M. M. & West, R. The behaviour change wheel: A new method for characterising and designing behaviour change interventions. Implementation Science **6**, (2011).

### 18.

Fox, J., Gutenstein, M., Khan, O., South, M. & Thomson, R. OpenClinical.net: A platform for creating and sharing knowledge and promoting best practice in healthcare. Computers in Industry **66**, 63–72 (2015).

### 19.

Sherlaw-Johnson, C. A Method for Detecting Runs of Good and Bad Clinical Outcomes on Variable Life-Adjusted Display (VLAD) Charts. Health Care Management Science **8**, 61–65 (2005).

## 20.

Rapley, T. et al. Doctor-patient interaction in a randomised controlled trial of decision-support tools. Social Science & Medicine **62**, 2267–2278 (2006).

Carpenter, I., Ram, M. B., Croft, G. P. & Williams, J. G. Medical records and record-keeping standards. Clinical Medicine **7**, 328–331 (2007).

### 22.

Cimino, J. J. Desiderata for controlled medical vocabularies in the twenty-first century. Methods of Information in Medicine **37**, 394–403 (1998).

## 23.

IHTSDO. SNOMED Clinical Terms ® User Guide January 2010 International Release. (2010).

### 24.

Rector, A. L. Clinical Terminology: Why Is it so Hard? Methods of Information in Medicine **38**, 239–252 (1999).

### 25.

Rector, A. L., Brandt, S. & Schneider, T. Getting the foot out of the pelvis: modeling problems affecting use of SNOMED CT hierarchies in practical applications. Journal of the American Medical Informatics Association **18**, 432–440 (2011).

### 26.

Cornet, R. Definitions and Qualifiers in SNOMED CT. Methods of Information in Medicine **48**, 178–183 (2009).

## 27.

Bramley, M. A framework for evaluating health classifications . Health Information Management **34**, 71–83 (2005).

Sampalli, T., Shepherd, M., Duffy, J. & Fox, R. An evaluation of SNOMED CT® in the domain of complex chronic conditions. International Journal of Integrated Care **10**, (2010).

29.

Kripalani, S. et al. Deficits in Communication and Information Transfer Between Hospital-Based and Primary Care PhysiciansImplications for Patient Safety and Continuity of Care. JAMA: The Journal of the American Medical Association **297**, (2007).

30.

Knowles, R. L., Bull, C., Wren, C. & Dezateux, C. Ethics, governance and consent in the UK: implications for research into the longer-term outcomes of congenital heart defects. Archives of Disease in Childhood **96**, 14–20 (2009).

31.

Lyons, R. A. et al. The SAIL databank: linking multiple health and social care datasets. BMC Medical Informatics and Decision Making **9**, (2009).

32.

Singleton, P. & Wadsworth, M. Consent for the use of personal medical data in research. BMJ **333**, 255–258 (2006).

33.

Willard, H. F., Angrist, M. & Ginsburg, G. S. Genomic medicine: genetic variation and its impact on the future of health care. Philosophical Transactions of the Royal Society B: Biological Sciences **360**, 1543–1550 (2005).

34.

Eichelbaum, M., Ingelman-Sundberg, M. & Evans, W. E. Pharmacogenomics and Individualized Drug Therapy. Annual Review of Medicine **57**, 119–137 (2006).

El Emam, K. et al. The re-identification risk of Canadians from longitudinal demographics. BMC Medical Informatics and Decision Making 11, (2011).

36.

McCowan, C., Kidd, B. & Fahey, T. Factors associated with mortality in Scottish patients receiving methadone in primary care: retrospective cohort study. BMJ **338**, b2225-b2225 (2009).

37.

Xu, H. et al. Facilitating pharmacogenetic studies using electronic health records and natural-language processing: a case study of warfarin. Journal of the American Medical Informatics Association **18**, 387–391 (2011).

38.

Willison, D. J. et al. Access to medical records for research purposes: varying perceptions across research ethics boards. Journal of Medical Ethics **34**, 308–314 (2008).

39.

Winkler, W. E. Overview of Record Linkage and Current Research Directions (Statistics #2006-2). RESEARCH REPORT SERIES (2006).

40.

McCartney, M. Care.data doesn't care enough about consent. BMJ **348**, g2831–g2831 (2014).

41.

Sheather, J. & Brannan, S. Patient confidentiality in a time of care.data. BMJ **347**, f7042-f7042 (2013).

42.

Fellegi, I. P. & Sunter, A. B. A Theory for Record Linkage. Journal of the American Statistical Association **64**, 1183–1210 (1969).

## 43.

Finney, J. M., Walker, A., Peto, T. E. & Wyllie, D. H. An efficient record linkage scheme using graphical analysis for identifier error detection. BMC Medical Informatics and Decision Making **11**, (2011).

## 44.

Steventon, A. et al. Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. BMJ **344**, e3874–e3874 (2012).

## 45.

Cottrell, E., Chambers, R. & O'Connell, P. Using simple telehealth in primary care to reduce blood pressure: a service evaluation. BMJ Open **2**, e001391–e001391 (2012).

## 46.

Cottrell, E., McMillan, K. & Chambers, R. A cross-sectional survey and service evaluation of simple telehealth in primary care: what do patients think? BMJ Open **2**, e001392–e001392 (2012).

## 47.

Polisena, J. et al. Home telehealth for diabetes management: a systematic review and meta-analysis. Diabetes, Obesity and Metabolism **11**, 913–930 (2009).

### 48.

Sanders, C. et al. Exploring barriers to participation and adoption of telehealth and telecare within the Whole System Demonstrator trial: a qualitative study. BMC Health Services Research 12, (2012).

NHS e - Referral Service Vision and Key messages.

50.

Choose and Book Directory of Services.

#### 51.

Greenhalgh, T., Stones, R. & Swinglehurst, D. Choose and Book: A sociological analysis of 'resistance' to an expert system. Social Science & Medicine **104**, 210–219 (2014).

52.

Gallivan, S., Utley, M., Treasure, T. & Valencia, O. Booked inpatient admissions and hospital capacity: mathematical modelling study. BMJ **324**, 280–282 (2002).

53.

Green, J., McDowall, Z. & Potts, H. W. Does Choose & Book fail to deliver the expected choice to patients? A survey of patients' experience of outpatient appointment booking. BMC Medical Informatics and Decision Making **8**, (2008).

54.

Mol, A. The Logic of Care. (Routledge, 2008). doi:10.4324/9780203927076.

55.

Greenhalgh, T. et al. Adoption and non-adoption of a shared electronic summary record in England: a mixed-method case study. BMJ **340**, c3111–c3111 (2010).

56.

Greenhalgh, T., Hinder, S., Stramer, K., Bratan, T. & Russell, J. Adoption, non-adoption, and abandonment of a personal electronic health record: case study of HealthSpace. BMJ **341**, c5814–c5814 (2010).

Walport, M. Do summary care records have the potential to do more harm than good? No. BMJ **340**, c3022-c3022 (2010).

58.

Anderson, R. Do summary care records have the potential to do more harm than good? Yes. BMJ **340**, c3020–c3020 (2010).

59.

Greenhalgh, T., Wood, G. W., Bratan, T., Stramer, K. & Hinder, S. Patients' attitudes to the summary care record and HealthSpace: qualitative study. BMJ **336**, 1290–1295 (2008).

60.

Tang, P. C., Ash, J. S., Bates, D. W., Overhage, J. M. & Sands, D. Z. Personal Health Records: Definitions, Benefits, and Strategies for Overcoming Barriers to Adoption. Journal of the American Medical Informatics Association **13**, 121–126 (2006).

61.

Delbanco, T. et al. Inviting Patients to Read Their Doctors' Notes: A Quasi-experimental Study and a Look Ahead. Annals of Internal Medicine **157**, 461–470 (2012).

62.

Information for health: an information strategy for the modern NHS 1998-2005 - executive summary : Department of Health - Publications.

63.

Greenhalgh, T. et al. The Devil's in the Detail: Final report of the independent evaluation of the Summary Care Record and HealthSpace programmes. (2010).

64.

Adams, T., Budden, M., Hoare, C. & Sanderson, H. Lessons from the central Hampshire electronic health record pilot project: issues of data protection and consent. BMJ **328**, 871–874 (2004).

65.

BMA Policies BMA General Practitioners, 2006. (2006).

66.

National: Medical records: Whose right to know?: What can patients do? The Guardian Newspaper (2006).

#### 67.

Cresswell, K. M., Worth, A. & Sheikh, A. Integration of a nationally procured electronic health record system into user work practices. BMC Medical Informatics and Decision Making **12**, (2012).

68.

Greenhalgh, T. & Keen, J. England's national programme for IT. BMJ **346**, f4130–f4130 (2013).

69.

Blumenthal, D. Implementation of the Federal Health Information Technology Initiative. New England Journal of Medicine **365**, 2426–2431 (2011).

70.

Wright, A. et al. Early Results of the Meaningful Use Program for Electronic Health Records. New England Journal of Medicine **368**, 779–780 (2013).

71.

Koppel, R. & Lehmann, C. U. Implications of an emerging EHR monoculture for hospitals and healthcare systems. Journal of the American Medical Informatics Association **22**,

465-471 (2014).

## 72.

Mandl, K. D. & Kohane, I. S. Escaping the EHR Trap — The Future of Health IT. New England Journal of Medicine **366**, 2240–2242 (2012).

## 73.

Wachter, R. The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age. (McGraw-Hill, 2015).

## 74.

O'Dowd, A. New e-records system leads to 20% drop in emergency department performance at Addenbrooke's. BMJ **349**, g7537–g7537 (2014).

## 75.

National Programme for IT: costs and benefits. (Department of Health, 2013).

## 76.

Addenbrookes and the Rosie Hospitals (Quality Report). (2015).

## 77.

Shapiro, J. S., Mostashari, F., Hripcsak, G., Soulakis, N. & Kuperman, G. Using Health Information Exchange to Improve Public Health. American Journal of Public Health **101**, 616–623 (2011).

## 78.

Dixon, B. E., Pina, J., Kharrazi, H., Gharghabi, F. & Richards, J. What's Past is Prologue: A Scoping Review of Recent Public and Global Health Informatics Literature. Online Journal of Public Health Informatics **7**, (2015).

Koo, D., O'Carroll, P. & LaVenture, M. Public Health 101 for Informaticians. Journal of the American Medical Informatics Association : JAMIA **8**, (2001).