

# CHMEGH23: Principles of Health Informatics

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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. Third edition. CRC Press; 2015.
  3.  
Foley T, Fairmichael F. The Potential of Learning Healthcare Systems. Published online 2015.  
<http://www.learninghealthcareproject.org/publication/1/112/the-potential-of-learning-health-care-systems>
  4.  
Wachter R. Using information technology to improve the NHS. Published online 2016.  
<https://www.gov.uk/government/publications/using-information-technology-to-improve-the-nhs>
  5.  
GREENHALGH T, Potts HWW, 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. 2009;87(4):729-788.  
doi:10.1111/j.1468-0009.2009.00578.x

6.

Friedman C, Rubin J, Brown J, 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*. Published online 23 October 2014. doi:10.1136/amiajnl-2014-002977

7.

Yom-Tov E, Borsa D, Cox IJ, McKendry RA. Detecting Disease Outbreaks in Mass Gatherings Using Internet Data. *Journal of Medical Internet Research*. 2014;16(6). doi:10.2196/jmir.3156

8.

Dixon J, Sanderson C, Elliott P, Walls P, Jones J, Petticrew M. Assessment of the reproducibility of clinical coding in routinely collected hospital activity data: a study in two hospitals. *Journal of Public Health*. 1998;20(1):63-69. <http://jpubhealth.oxfordjournals.org/content/20/1/63>

9.

Taylor P. Rigging the Death Rate. *The London Review of Books*. Published online 11AD. <http://www.lrb.co.uk/v35/n07/paul-taylor/rigging-the-death-rate>

10.

Freemantle N, Richardson M, Wood J, et al. Weekend hospitalization and additional risk of death: An analysis of inpatient data. *JRSM*. 2012;105(2):74-84. doi:10.1258/jrsm.2012.120009

11.

Li L, Rothwell PM. Biases in detection of apparent "weekend effect" on outcome with administrative coding data: population based study of stroke. *BMJ*. Published online 16 May 2016. doi:10.1136/bmj.i2648

12.

Li L, Cheng WY, Glicksberg BS, et al. Identification of type 2 diabetes subgroups through

topological analysis of patient similarity. *Science Translational Medicine*. 2015;7(311):311ra174-311ra174. doi:10.1126/scitranslmed.aaa9364

13.

D'Agostino RB, Vasan RS, Pencina MJ, et al. General Cardiovascular Risk Profile for Use in Primary Care: The Framingham Heart Study. *Circulation*. 2008;117(6):743-753. doi:10.1161/CIRCULATIONAHA.107.699579

14.

Weissman JS, Schneider EC, Weingart SN, et al. Comparing Patient-Reported Hospital Adverse Events with Medical Record Review: Do Patients Know Something That Hospitals Do Not? *Annals of Internal Medicine*. 2008;149(2). doi:10.7326/0003-4819-149-2-200807150-00006

15.

Staa TP v., Goldacre B, Gulliford M, et al. Pragmatic randomised trials using routine electronic health records: putting them to the test. *BMJ*. 2012;344(feb07 1):e55-e55. doi:10.1136/bmj.e55

16.

GREENHALGH T, ROBERT G, MACFARLANE F, BATE P, KYRIAKIDOU O. Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations. *The Milbank Quarterly*. 2004;82(4):581-629. doi:10.1111/j.0887-378X.2004.00325.x

17.

Michie S, van Stralen MM, West R. The behaviour change wheel: A new method for characterising and designing behaviour change interventions. *Implementation Science*. 2011;6(1). doi:10.1186/1748-5908-6-42

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*. 2015;66:63-72. doi:10.1016/j.compind.2014.10.001

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*. 2005;8(1):61-65. doi:10.1007/s10729-005-5217-2

20.

Rapley T, May C, Heaven B, et al. Doctor-patient interaction in a randomised controlled trial of decision-support tools. *Social Science & Medicine*. 2006;62(9):2267-2278. doi:10.1016/j.socscimed.2005.10.011

21.

Carpenter I, Ram MB, Croft GP, Williams JG. Medical records and record-keeping standards. *Clinical Medicine*. 2007;7(4):328-331. doi:10.7861/clinmedicine.7-4-328

22.

Cimino JJ. Desiderata for controlled medical vocabularies in the twenty-first century. *Methods of Information in Medicine*. 1998;37(4-5):394-403. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3415631/>

23.

IHTSDO. SNOMED Clinical Terms ® User Guide January 2010 International Release. Published online 2010.

24.

Rector AL. Clinical Terminology: Why Is it so Hard? *Methods of Information in Medicine*. 1999;38(4/5):239-252.

25.

Rector AL, 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*. 2011;18(4):432-440. doi:10.1136/amiajnl-2010-000045

26.

Cornet R. Definitions and Qualifiers in SNOMED CT. *Methods of Information in Medicine*. 2009;48(2):178-183.

27.

Bramley M. A framework for evaluating health classifications . *Health Information Management*. 2005;34(3):71-83.  
[http://www.himaa.org.au/members/journal/34\\_3\\_2006/pdf/bramley.pdf](http://www.himaa.org.au/members/journal/34_3_2006/pdf/bramley.pdf)

28.

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*. 2010;10.

29.

Kripalani S, LeFevre F, Phillips CO, Williams MV, Basaviah P, Baker DW. Deficits in Communication and Information Transfer Between Hospital-Based and Primary Care Physicians Implications for Patient Safety and Continuity of Care. *JAMA: The Journal of the American Medical Association*. 2007;297(8). doi:10.1001/jama.297.8.831

30.

Knowles RL, 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*. 2009;96(1):14-20. doi:10.1136/adc.2008.152975

31.

Lyons RA, Jones KH, John G, et al. The SAIL databank: linking multiple health and social care datasets. *BMC Medical Informatics and Decision Making*. 2009;9(1). doi:10.1186/1472-6947-9-3

32.

Singleton P, Wadsworth M. Consent for the use of personal medical data in research. *BMJ*. 2006;333(7561):255-258. doi:10.1136/bmj.333.7561.255

33.

Willard HF, Angrist M, Ginsburg GS. Genomic medicine: genetic variation and its impact on the future of health care. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 2005;360(1460):1543-1550. doi:10.1098/rstb.2005.1683

34.

Eichelbaum M, Ingelman-Sundberg M, Evans WE. Pharmacogenomics and Individualized Drug Therapy. *Annual Review of Medicine*. 2006;57(1):119-137. doi:10.1146/annurev.med.56.082103.104724

35.

El Emam K, Buckeridge D, Tamblyn R, Neisa A, Jonker E, Verma A. The re-identification risk of Canadians from longitudinal demographics. *BMC Medical Informatics and Decision Making*. 2011;11(1). doi:10.1186/1472-6947-11-46

36.

McCowan C, Kidd B, Fahey T. Factors associated with mortality in Scottish patients receiving methadone in primary care: retrospective cohort study. *BMJ*. 2009;338(jun16 4):b2225-b2225. doi:10.1136/bmj.b2225

37.

Xu H, Jiang M, Oetjens M, 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*. 2011;18(4):387-391. doi:10.1136/amiajnl-2011-000208

38.

Willison DJ, Emerson C, Szala-Meneok KV, et al. Access to medical records for research purposes: varying perceptions across research ethics boards. *Journal of Medical Ethics*. 2008;34(4):308-314. doi:10.1136/jme.2006.020032

39.

Winkler WE. Overview of Record Linkage and Current Research Directions (Statistics #2006-2). RESEARCH REPORT SERIES. Published online 8 February 2006.

40.

McCartney M. Care.data doesn't care enough about consent. *BMJ*. 2014;348(apr22 20):g2831-g2831. doi:10.1136/bmj.g2831

41.

Sheather J, Brannan S. Patient confidentiality in a time of care.data. *BMJ*. 2013;347(nov27 1):f7042-f7042. doi:10.1136/bmj.f7042

42.

Fellegi IP, Sunter AB. A Theory for Record Linkage. *Journal of the American Statistical Association*. 1969;64(328):1183-1210.

43.

Finney JM, Walker A, Peto TE, Wyllie DH. An efficient record linkage scheme using graphical analysis for identifier error detection. *BMC Medical Informatics and Decision Making*. 2011;11(1). doi:10.1186/1472-6947-11-7

44.

Steventon A, Bardsley M, Billings J, et al. Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. *BMJ*. 2012;344(jun21 3):e3874-e3874. doi:10.1136/bmj.e3874

45.

Cottrell E, Chambers R, O'Connell P. Using simple telehealth in primary care to reduce blood pressure: a service evaluation. *BMJ Open*. 2012;2(6):e001391-e001391. doi:10.1136/bmjopen-2012-001391

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*. 2012;2(6):e001392-e001392. doi:10.1136/bmjopen-2012-001392

47.

Polisena J, Tran K, Cimon K, Hutton B, McGill S, Palmer K. Home telehealth for diabetes management: a systematic review and meta-analysis. *Diabetes, Obesity and Metabolism*. 2009;11(10):913-930. doi:10.1111/j.1463-1326.2009.01057.x

48.

Sanders C, Rogers A, Bowen R, 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*. 2012;12(1). doi:10.1186/1472-6963-12-220

49.

NHS e - Referral Service Vision and Key messages.  
<http://systems.hscic.gov.uk/ers/ersvision.pdf>

50.

Choose and Book Directory of Services.  
<http://www.chooseandbook.nhs.uk/staff/communications/fact/dos.pdf>

51.

Greenhalgh T, Stones R, Swinglehurst D. Choose and Book: A sociological analysis of 'resistance' to an expert system. *Social Science & Medicine*. 2014;104:210-219. doi:10.1016/j.socscimed.2013.12.014

52.

Gallivan S, Utley M, Treasure T, Valencia O. Booked inpatient admissions and hospital capacity: mathematical modelling study. *BMJ*. 2002;324(7332):280-282.

doi:10.1136/bmj.324.7332.280

53.

Green J, McDowall Z, Potts HW. 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*. 2008;8(1). doi:10.1186/1472-6947-8-36

54.

Mol A. *The Logic of Care*. Routledge; 2008. doi:10.4324/9780203927076

55.

Greenhalgh T, Stramer K, Bratan T, Byrne E, Russell J, Potts HWW. Adoption and non-adoption of a shared electronic summary record in England: a mixed-method case study. *BMJ*. 2010;340(jun16 4):c3111-c3111. doi:10.1136/bmj.c3111

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*. 2010;341(nov16 1):c5814-c5814. doi:10.1136/bmj.c5814

57.

Walport M. Do summary care records have the potential to do more harm than good? No. *BMJ*. 2010;340(jun16 4):c3022-c3022. doi:10.1136/bmj.c3022

58.

Anderson R. Do summary care records have the potential to do more harm than good? Yes. *BMJ*. 2010;340(jun16 4):c3020-c3020. doi:10.1136/bmj.c3020

59.

Greenhalgh T, Wood GW, Bratan T, Stramer K, Hinder S. Patients' attitudes to the summary care record and HealthSpace: qualitative study. *BMJ*.

2008;336(7656):1290-1295. doi:10.1136/bmj.a114

60.

Tang PC, Ash JS, Bates DW, Overhage JM, Sands DZ. Personal Health Records: Definitions, Benefits, and Strategies for Overcoming Barriers to Adoption. *Journal of the American Medical Informatics Association*. 2006;13(2):121-126. doi:10.1197/jamia.M2025

61.

Delbanco T, Walker J, Bell SK, et al. Inviting Patients to Read Their Doctors' Notes: A Quasi-experimental Study and a Look Ahead. *Annals of Internal Medicine*. 2012;157(7):461-470. doi:10.7326/0003-4819-157-7-201210020-00002

62.

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

63.

Greenhalgh T, Bratan T, Byrne E, Russell J, Hinder S, Potts H. The Devil's in the Detail: Final report of the independent evaluation of the Summary Care Record and HealthSpace programmes. Published online 7 May 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*. 2004;328(7444):871-874. doi:10.1136/bmj.328.7444.871

65.

BMA Policies BMA General Practitioners, 2006.

66.

National: Medical records: Whose right to know?: What can patients do? *The Guardian*

Newspaper. Published online 1 November 2006.  
<http://search.proquest.com/docview/246527595?accountid=14511>

67.

Cresswell KM, Worth A, Sheikh A. Integration of a nationally procured electronic health record system into user work practices. *BMC Medical Informatics and Decision Making*. 2012;12(1). doi:10.1186/1472-6947-12-15

68.

Greenhalgh T, Keen J. England's national programme for IT. *BMJ*. 2013;346(jun28 2):f4130-f4130. doi:10.1136/bmj.f4130

69.

Blumenthal D. Implementation of the Federal Health Information Technology Initiative. *New England Journal of Medicine*. 2011;365(25):2426-2431. doi:10.1056/NEJMr1112158

70.

Wright A, Henkin S, Feblowitz J, McCoy AB, Bates DW, Sittig DF. Early Results of the Meaningful Use Program for Electronic Health Records. *New England Journal of Medicine*. 2013;368(8):779-780. doi:10.1056/NEJMc1213481

71.

Koppel R, Lehmann CU. Implications of an emerging EHR monoculture for hospitals and healthcare systems. *Journal of the American Medical Informatics Association*. 2014;22(2):465-471. doi:10.1136/amiajnl-2014-003023

72.

Mandl KD, Kohane IS. Escaping the EHR Trap — The Future of Health IT. *New England Journal of Medicine*. 2012;366(24):2240-2242. doi:10.1056/NEJMp1203102

73.

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

<https://go.oreilly.com/university-college-london/library/view/~/9780071849470/?ar>

74.

O'Dowd A. New e-records system leads to 20% drop in emergency department performance at Addenbrooke's. *BMJ*. 2014;349(dec08 3):g7537-g7537. doi:10.1136/bmj.g7537

75.

National Programme for IT: Costs and Benefits. Department of Health; 2013. <https://www.gov.uk/government/publications/final-benefits-statement-for-programmes-previously-managed-under-the-national-programme-for-it>

76.

Addenbrookes and the Rosie Hospitals (Quality Report). Published online 2015. <http://www.cqc.org.uk/location/RGT01>

77.

Shapiro JS, Mostashari F, Hripcsak G, Soulakis N, Kuperman G. Using Health Information Exchange to Improve Public Health. *American Journal of Public Health*. 2011;101(4):616-623. doi:10.2105/AJPH.2008.158980

78.

Dixon BE, 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*. 2015;7(2). doi:10.5210/ojphi.v7i2.5931

79.

Koo D, O'Carroll P, LaVenture M. Public Health 101 for Informaticians. *Journal of the American Medical Informatics Association : JAMIA*. 2001;8(6). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC130068/>