

CHMEGH23: Principles of Health Informatics

[View Online](#)

Adams, Trina, Martin Budden, Chris Hoare, and Hugh Sanderson. 2004. 'Lessons from the Central Hampshire Electronic Health Record Pilot Project: Issues of Data Protection and Consent'. *BMJ* 328 (7444): 871–74. <https://doi.org/10.1136/bmj.328.7444.871>.

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

Anderson, R. 2010. 'Do Summary Care Records Have the Potential to Do More Harm than Good? Yes'. *BMJ* 340 (jun16 4): c3020–c3020. <https://doi.org/10.1136/bmj.c3020>.

Blumenthal, David. 2011. 'Implementation of the Federal Health Information Technology Initiative'. *New England Journal of Medicine* 365 (25): 2426–31. <https://doi.org/10.1056/NEJMs1112158>.

'BMA Policies BMA General Practitioners, 2006'. 2006. 2006.

Bramley, Michelle . 2005. 'A Framework for Evaluating Health Classifications '. *Health Information Management* 34 (3): 71–83. http://www.himaa.org.au/members/journal/34_3_2006/pdf/bramley.pdf.

Carpenter, I., M. B. Ram, G. P. Croft, and J. G. Williams. 2007. 'Medical Records and Record-Keeping Standards'. *Clinical Medicine* 7 (4): 328–31. <https://doi.org/10.7861/clinmedicine.7-4-328>.

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

Cimino, J. J. 1998. 'Desiderata for Controlled Medical Vocabularies in the Twenty-First Century'. *Methods of Information in Medicine* 37 (4–5): 394–403. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3415631/>.

Coiera, Enrico. 2015. *Guide to Health Informatics*. Third edition. Boca Raton: CRC Press.

Cornet, Ronald. 2009. 'Definitions and Qualifiers in SNOMED CT'. *Methods of Information in Medicine* 48 (2): 178–83.

Cottrell, E., R. Chambers, and P. O'Connell. 2012. 'Using Simple Telehealth in Primary Care to Reduce Blood Pressure: A Service Evaluation'. *BMJ Open* 2 (6): e001391–e001391. <https://doi.org/10.1136/bmjopen-2012-001391>.

Cottrell, E., K. McMillan, and R. Chambers. 2012. 'A Cross-Sectional Survey and Service

Evaluation of Simple Telehealth in Primary Care: What Do Patients Think?' *BMJ Open* 2 (6): e001392–e001392. <https://doi.org/10.1136/bmjopen-2012-001392>.

Cresswell, Kathrin M, Allison Worth, and Aziz Sheikh. 2012. 'Integration of a Nationally Procured Electronic Health Record System into User Work Practices'. *BMC Medical Informatics and Decision Making* 12 (1). <https://doi.org/10.1186/1472-6947-12-15>.

D'Agostino, R. B., R. S. Vasan, M. J. Pencina, P. A. Wolf, M. Cobain, J. M. Massaro, and W. B. Kannel. 2008. 'General Cardiovascular Risk Profile for Use in Primary Care: The Framingham Heart Study'. *Circulation* 117 (6): 743–53. <https://doi.org/10.1161/CIRCULATIONAHA.107.699579>.

Delbanco, Tom, Jan Walker, Sigall K. Bell, Jonathan D. Darer, Joann G. Elmore, Nadine Farag, Henry J. Feldman, et al. 2012. 'Inviting Patients to Read Their Doctors' Notes: A Quasi-Experimental Study and a Look Ahead'. *Annals of Internal Medicine* 157 (7): 461–70. <https://doi.org/10.7326/0003-4819-157-7-201210020-00002>.

Dixon, Brian E, Jamie Pina, Hadi Kharrazi, Fardad Gharghabi, and Janise Richards. 2015. 'What's Past Is Prologue: A Scoping Review of Recent Public and Global Health Informatics Literature'. *Online Journal of Public Health Informatics* 7 (2). <https://doi.org/10.5210/ojphi.v7i2.5931>.

Dixon, Jennifer, Colin Sanderson, Paul Elliott, Peter Walls, Jeremy Jones, and Mark Petticrew. 1998. 'Assessment of the Reproducibility of Clinical Coding in Routinely Collected Hospital Activitydata: A Study in Two Hospitals'. *Journal of Public Health* 20 (1): 63–69. <http://jpubhealth.oxfordjournals.org/content/20/1/63>.

Eichelbaum, Michel, Magnus Ingelman-Sundberg, and William E. Evans. 2006. 'Pharmacogenomics and Individualized Drug Therapy'. *Annual Review of Medicine* 57 (1): 119–37. <https://doi.org/10.1146/annurev.med.56.082103.104724>.

El Emam, Khaled, David Buckeridge, Robyn Tamblyn, Angelica Neisa, Elizabeth Jonker, and Aman Verma. 2011. 'The Re-Identification Risk of Canadians from Longitudinal Demographics'. *BMC Medical Informatics and Decision Making* 11 (1). <https://doi.org/10.1186/1472-6947-11-46>.

Fellegi, Ivan P., and Alan B. Sunter. 1969. 'A Theory for Record Linkage'. *Journal of the American Statistical Association* 64 (328): 1183–1210.

Finney, John M, A Walker, Tim EA Peto, and David H Wyllie. 2011. 'An Efficient Record Linkage Scheme Using Graphical Analysis for Identifier Error Detection'. *BMC Medical Informatics and Decision Making* 11 (1). <https://doi.org/10.1186/1472-6947-11-7>.

Foley, Tom, and Fergus Fairmichael. 2015. 'The Potential of Learning Healthcare Systems'. <http://www.learninghealthcareproject.org/publication/1/112/the-potential-of-learning-health-care-systems>.

Fox, John, Marc Gutenstein, Omar Khan, Matthew South, and Richard Thomson. 2015. 'OpenClinical.Net: A Platform for Creating and Sharing Knowledge and Promoting Best Practice in Healthcare'. *Computers in Industry* 66 (January): 63–72. <https://doi.org/10.1016/j.compind.2014.10.001>.

Freemantle, N., M. Richardson, J. Wood, D. Ray, S. Khosla, D. Shahian, W. Roche, I. Stephens, B. Keogh, and D. Pagano. 2012. 'Weekend Hospitalization and Additional Risk of Death: An Analysis of Inpatient Data'. *JRSM* 105 (2): 74–84. <https://doi.org/10.1258/jrsm.2012.120009>.

Friedman, C., J. Rubin, J. Brown, M. Buntin, M. Corn, L. Etheredge, C. Gunter, et al. 2014. 'Toward a Science of Learning Systems: A Research Agenda for the High-Functioning Learning Health System'. *Journal of the American Medical Informatics Association*, October. <https://doi.org/10.1136/amiajnl-2014-002977>.

Gallivan, S., M Utle, T Treasure, and O Valencia. 2002. 'Booked Inpatient Admissions and Hospital Capacity: Mathematical Modelling Study'. *BMJ* 324 (7332): 280–82. <https://doi.org/10.1136/bmj.324.7332.280>.

Green, Judith, Zoe McDowall, and Henry WW Potts. 2008. '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 (1). <https://doi.org/10.1186/1472-6947-8-36>.

Greenhalgh, T., S. Hinder, K. Stramer, T. Bratan, and J. Russell. 2010. 'Adoption, Non-Adoption, and Abandonment of a Personal Electronic Health Record: Case Study of HealthSpace'. *BMJ* 341 (nov16 1): c5814–c5814. <https://doi.org/10.1136/bmj.c5814>.

Greenhalgh, T., and J. Keen. 2013. 'England's National Programme for IT'. *BMJ* 346 (jun28 2): f4130–f4130. <https://doi.org/10.1136/bmj.f4130>.

Greenhalgh, T., K. Stramer, T. Bratan, E. Byrne, J. Russell, and H. W. W. Potts. 2010. 'Adoption and Non-Adoption of a Shared Electronic Summary Record in England: A Mixed-Method Case Study'. *BMJ* 340 (jun16 4): c3111–c3111. <https://doi.org/10.1136/bmj.c3111>.

Greenhalgh, T., G. W Wood, T. Bratan, K. Stramer, and S. Hinder. 2008. 'Patients' Attitudes to the Summary Care Record and HealthSpace: Qualitative Study'. *BMJ* 336 (7656): 1290–95. <https://doi.org/10.1136/bmj.a114>.

Greenhalgh, Trisha , Tanja Bratan, Emma Byrne, Jill Russell, Susan Hinder, and Henry Potts. 2010. 'The Devil's in the Detail: Final Report of the Independent Evaluation of the Summary Care Record and HealthSpace Programmes'. London: University College London.

GREENHALGH, TRISHA , Henry W W Potts, Geoff Wong, Pippa Bark, and Deborah Swinglehurst. 2009. 'Tensions and Paradoxes in Electronic Patient Record Research: A Systematic Literature Review Using the Meta-Narrative Method.' *The Milbank Quarterly* 87 (4): 729–88. <https://doi.org/10.1111/j.1468-0009.2009.00578.x>.

GREENHALGH, TRISHA, GLENN ROBERT, FRASER MACFARLANE, PAUL BATE, and OLIVIA KYRIAKIDOU. 2004. 'Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations'. *The Milbank Quarterly* 82 (4): 581–629. <https://doi.org/10.1111/j.0887-378X.2004.00325.x>.

Greenhalgh, Trisha, Rob Stones, and Deborah Swinglehurst. 2014. 'Choose and Book: A Sociological Analysis of "Resistance" to an Expert System'. *Social Science & Medicine* 104

(March): 210–19. <https://doi.org/10.1016/j.socscimed.2013.12.014>.

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

'Information for Health: An Information Strategy for the Modern NHS 1998-2005 - Executive Summary : Department of Health - Publications'. n.d.

Knowles, R. L., C. Bull, C. Wren, and C. Dezateux. 2009. '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 (1): 14–20. <https://doi.org/10.1136/adc.2008.152975>.

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

Koppel, R., and C. U. Lehmann. 2014. 'Implications of an Emerging EHR Monoculture for Hospitals and Healthcare Systems'. *Journal of the American Medical Informatics Association* 22 (2): 465–71. <https://doi.org/10.1136/amiajnl-2014-003023>.

Kripalani, Sunil, Frank LeFevre, Christopher O Phillips, Mark V Williams, Preetha Basaviah, and David W Baker. 2007. '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* 297 (8). <https://doi.org/10.1001/jama.297.8.831>.

Li, L., W.-Y. Cheng, B. S. Glicksberg, O. Gottesman, R. Tamler, R. Chen, E. P. Bottinger, and J. T. Dudley. 2015. 'Identification of Type 2 Diabetes Subgroups through Topological Analysis of Patient Similarity'. *Science Translational Medicine* 7 (311): 311ra174–311ra174. <https://doi.org/10.1126/scitranslmed.aaa9364>.

Li, Linxin, and Peter M Rothwell. 2016. 'Biases in Detection of Apparent "weekend Effect" on Outcome with Administrative Coding Data: Population Based Study of Stroke'. *BMJ*, May. <https://doi.org/10.1136/bmj.i2648>.

Lyons, Ronan A, Kerina H Jones, Gareth John, Caroline J Brooks, Jean-Philippe Verplancke, David V Ford, Ginevra Brown, and Ken Leake. 2009. 'The SAIL Databank: Linking Multiple Health and Social Care Datasets'. *BMC Medical Informatics and Decision Making* 9 (1). <https://doi.org/10.1186/1472-6947-9-3>.

Mandl, Kenneth D., and Isaac S. Kohane. 2012. 'Escaping the EHR Trap — The Future of Health IT'. *New England Journal of Medicine* 366 (24): 2240–42. <https://doi.org/10.1056/NEJMp1203102>.

McCartney, M. 2014. 'Care.Data Doesn't Care Enough about Consent'. *BMJ* 348 (apr22 20): g2831–g2831. <https://doi.org/10.1136/bmj.g2831>.

McCowan, C, B Kidd, and T Fahey. 2009. 'Factors Associated with Mortality in Scottish Patients Receiving Methadone in Primary Care: Retrospective Cohort Study'. *BMJ* 338 (jun16 4): b2225–b2225. <https://doi.org/10.1136/bmj.b2225>.

- Michie, Susan, Maartje M van Stralen, and Robert West. 2011. 'The Behaviour Change Wheel: A New Method for Characterising and Designing Behaviour Change Interventions'. *Implementation Science* 6 (1). <https://doi.org/10.1186/1748-5908-6-42>.
- Mol, Annemarie. 2008. *The Logic of Care*. Routledge. <https://doi.org/10.4324/9780203927076>.
- 'National: Medical Records: Whose Right to Know?: What Can Patients Do?' 2006. *The Guardian Newspaper*, November. <http://search.proquest.com/docview/246527595?accountid=14511>.
- National Programme for IT: Costs and Benefits. 2013. Department of Health. <https://www.gov.uk/government/publications/final-benefits-statement-for-programmes-previously-managed-under-the-national-programme-for-it>.
- 'NHS e - Referral Service Vision and Key Messages'. n.d. Health and Social Care Information Centre. <http://systems.hscic.gov.uk/ers/ersvision.pdf>.
- O'Dowd, A. 2014. 'New E-Records System Leads to 20% Drop in Emergency Department Performance at Addenbrooke's'. *BMJ* 349 (dec08 3): g7537–g7537. <https://doi.org/10.1136/bmj.g7537>.
- Polisena, J., K. Tran, K. Cimon, B. Hutton, S. McGill, and K. Palmer. 2009. 'Home Telehealth for Diabetes Management: A Systematic Review and Meta-Analysis'. *Diabetes, Obesity and Metabolism* 11 (10): 913–30. <https://doi.org/10.1111/j.1463-1326.2009.01057.x>.
- Rapley, Tim, Carl May, Ben Heaven, Madeline Murtagh, Ruth Graham, Eileen F.S. Kaner, and Richard Thomson. 2006. 'Doctor–Patient Interaction in a Randomised Controlled Trial of Decision-Support Tools'. *Social Science & Medicine* 62 (9): 2267–78. <https://doi.org/10.1016/j.socscimed.2005.10.011>.
- Rector, A. L., S. Brandt, and T. Schneider. 2011. '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 (4): 432–40. <https://doi.org/10.1136/amiajnl-2010-000045>.
- Rector, Alan L. 1999. 'Clinical Terminology: Why Is It so Hard?' *Methods of Information in Medicine* 38 (4/5): 239–52.
- Sampalli, Tara , Michael Shepherd, Jack Duffy, and Roy Fox. 2010. 'An Evaluation of SNOMED CT® in the Domain of Complex Chronic Conditions'. *International Journal of Integrated Care* 10.
- Sanders, Caroline, Anne Rogers, Robert Bowen, Peter Bower, Shashivadan Hirani, Martin Cartwright, Ray Fitzpatrick, et al. 2012. 'Exploring Barriers to Participation and Adoption of Telehealth and Telecare within the Whole System Demonstrator Trial: A Qualitative Study'. *BMC Health Services Research* 12 (1). <https://doi.org/10.1186/1472-6963-12-220>.
- Shapiro, Jason S., Farzad Mostashari, George Hripcsak, Nicholas Soulakis, and Gilad Kuperman. 2011. 'Using Health Information Exchange to Improve Public Health'. *American Journal of Public Health* 101 (4): 616–23. <https://doi.org/10.2105/AJPH.2008.158980>.

Sheather, J., and S. Brannan. 2013. 'Patient Confidentiality in a Time of Care.Data'. *BMJ* 347 (nov27 1): f7042–f7042. <https://doi.org/10.1136/bmj.f7042>.

Sherlaw-Johnson, Chris. 2005. 'A Method for Detecting Runs of Good and Bad Clinical Outcomes on Variable Life-Adjusted Display (VLAD) Charts'. *Health Care Management Science* 8 (1): 61–65. <https://doi.org/10.1007/s10729-005-5217-2>.

Singleton, Peter, and Michael Wadsworth. 2006. 'Consent for the Use of Personal Medical Data in Research'. *BMJ* 333 (7561): 255–58. <https://doi.org/10.1136/bmj.333.7561.255>.

Staa, T.-P. v., B. Goldacre, M. Gulliford, J. Cassell, M. Pirmohamed, A. Taweel, B. Delaney, and L. Smeeth. 2012. 'Pragmatic Randomised Trials Using Routine Electronic Health Records: Putting Them to the Test'. *BMJ* 344 (feb07 1): e55–e55. <https://doi.org/10.1136/bmj.e55>.

Steventon, A., M. Bardsley, J. Billings, J. Dixon, H. Doll, S. Hirani, M. Cartwright, et al. 2012. 'Effect of Telehealth on Use of Secondary Care and Mortality: Findings from the Whole System Demonstrator Cluster Randomised Trial'. *BMJ* 344 (jun21 3): e3874–e3874. <https://doi.org/10.1136/bmj.e3874>.

Tang, P. C, J. S Ash, D. W Bates, J M. Overhage, and D. Z Sands. 2006. 'Personal Health Records: Definitions, Benefits, and Strategies for Overcoming Barriers to Adoption'. *Journal of the American Medical Informatics Association* 13 (2): 121–26. <https://doi.org/10.1197/jamia.M2025>.

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

———. 2006. *From Patient Data to Medical Knowledge: The Principles and Practice of Health Informatics*. Electronic resource. London: BMJ.

Wachter, Robert. 2015. *The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age*. New York: McGraw-Hill. <https://go.oreilly.com/university-college-london/library/view/~/9780071849470/?ar>.

———. 2016. 'Using Information Technology to Improve the NHS'. Department of Health. <https://www.gov.uk/government/publications/using-information-technology-to-improve-the-nhs>.

Walport, M. 2010. 'Do Summary Care Records Have the Potential to Do More Harm than Good? No'. *BMJ* 340 (jun16 4): c3022–c3022. <https://doi.org/10.1136/bmj.c3022>.

Weissman, Joel S., Eric C. Schneider, Saul N. Weingart, Arnold M. Epstein, JoAnn David-Kasdan, Sandra Feibelman, Catherine L. Annas, Nancy Ridley, Leslie Kirle, and Constantine Gatsonis. 2008. 'Comparing Patient-Reported Hospital Adverse Events with Medical Record Review: Do Patients Know Something That Hospitals Do Not?' *Annals of Internal Medicine* 149 (2). <https://doi.org/10.7326/0003-4819-149-2-200807150-00006>.

Willard, H. F., M. Angrist, and G. S. Ginsburg. 2005. 'Genomic Medicine: Genetic Variation and Its Impact on the Future of Health Care'. *Philosophical Transactions of the Royal Society B: Biological Sciences* 360 (1460): 1543–50. <https://doi.org/10.1098/rstb.2005.1683>.

Willison, D J, C Emerson, K V Szala-Meneok, E Gibson, L Schwartz, K M Weisbaum, F Fournier, K Brazil, and M D Coughlin. 2008. 'Access to Medical Records for Research Purposes: Varying Perceptions across Research Ethics Boards'. *Journal of Medical Ethics* 34 (4): 308–14. <https://doi.org/10.1136/jme.2006.020032>.

Winkler, William E. . 2006. 'Overview of Record Linkage and Current Research Directions (Statistics #2006-2)'. RESEARCH REPORT SERIES. Statistical Research Division, U.S. Census Bureau.

Wright, Adam, Stanislav Henkin, Joshua Feblowitz, Allison B. McCoy, David W. Bates, and Dean F. Sittig. 2013. 'Early Results of the Meaningful Use Program for Electronic Health Records'. *New England Journal of Medicine* 368 (8): 779–80. <https://doi.org/10.1056/NEJMc1213481>.

Xu, H., M. Jiang, M. Oetjens, E. A. Bowton, A. H. Ramirez, J. M. Jeff, M. A. Basford, et al. 2011. 'Facilitating Pharmacogenetic Studies Using Electronic Health Records and Natural-Language Processing: A Case Study of Warfarin'. *Journal of the American Medical Informatics Association* 18 (4): 387–91. <https://doi.org/10.1136/amiajnl-2011-000208>.

Yom-Tov, Elad, Diana Borsa, Ingemar J Cox, and Rachel A McKendry. 2014. 'Detecting Disease Outbreaks in Mass Gatherings Using Internet Data'. *Journal of Medical Internet Research* 16 (6). <https://doi.org/10.2196/jmir.3156>.