

Unit 3 References

- Aaron, S., McEvoy, D.S., Ray, S., Hickman, T.-T.T., Wright, A., 2019. Cranky comments: detecting clinical decision support malfunctions through free-text override reasons. *J Am Med Inform Assoc* 26, 37–43. <https://doi.org/10.1093/jamia/ocy139>
- Adlassnig, K.-P., Haug, P., Jenders, R.A., 2018. Arden Syntax: Then, now, and in the future. *Artif Intell Med* 92, 1–6. <https://doi.org/10.1016/j.artmed.2018.09.001>
- Allen, A., 2017. A 40-year “conspiracy” at the VA [WWW Document]. Politico. URL <https://www.politico.com/agenda/story/2017/03/vista-computer-history-va-conspiracy-000367> (accessed 2.4.21).
- American Health Information Management Association, American Medical Informatics Association, 2007. The value of personal health records. A joint position statement for consumers of healthcare by the American Health Information Management Association and the American Medical Informatics Association. *J AHIMA* 78, 22, 24.
- Andreadis, K., Chan, E., Park, M., Benda, N.C., Sharma, M.M., Demetres, M., Delgado, D., Sigworth, E., Chen, Q., Liu, A., Grossman Liu, L., Sharko, M., Zikmund-Fisher, B.J., Ancker, J.S., 2021. Imprecision and Preferences in Interpretation of Verbal Probabilities in Health: a Systematic Review. *J Gen Intern Med* 36, 3820–3829. <https://doi.org/10.1007/s11606-021-07050-7>
- Anyidoho, P.A., Verschraegen, C.F., Markham, M.J., Alberts, S., Sweetenham, J., Cameron, K., Abu Hejleh, T., 2023. Impact of the Immediate Release of Clinical Information Rules on Health Care Delivery to Patients With Cancer. *JCO Oncol Pract* 19, e706–e713. <https://doi.org/10.1200/OP.22.00712>
- Artiga, S., Hinton, E., 2018. Beyond Health Care: The Role of Social Determinants in Promoting Health and Health Equity. KFF. URL <https://www.kff.org/racial-equity-and-health-policy/issue-brief/beyond-health-care-the-role-of-social-determinants-in-promoting-health-and-health-equity/> (accessed 1.3.21).
- Ash, J.S., Corby, S., Mohan, V., Solberg, N., Becton, J., Bergstrom, R., Orwoll, B., Hoekstra, C., Gold, J.A., 2021. Safe use of the EHR by medical scribes: a qualitative study. *J Am Med Inform Assoc* 28, 294–302. <https://doi.org/10.1093/jamia/ocaa199>
- Avansino, J., Leu, M.G., 2012. Effects of CPOE on provider cognitive workload: a randomized crossover trial. *Pediatrics* 130, e547-552. <https://doi.org/10.1542/peds.2011-3408>
- Barcelona, V., Horton, R.L., Rivlin, K., Harkins, S., Green, C., Robinson, K., Aubey, J.J., Holman, A., Goffman, D., Haley, S., Topaz, M., 2023. The Power of Language in Hospital Care for Pregnant and Birthing People: A Vision for Change. *Obstet Gynecol* 142, 795–803. <https://doi.org/10.1097/AOG.0000000000005333>
- Barnett, G.O., Winickoff, R., Dorsey, J.L., Morgan, M.M., Lurie, R.S., 1978. Quality assurance through automated monitoring and concurrent feedback using a computer-based medical information system. *Med Care* 16, 962–970. <https://doi.org/10.1097/00005650-197811000-00007>
- Barry, M.J., Tseng, C.-W., 2022. Moving to More Evidence-Based Primary Care Encounters: A Farewell to the Review of Systems. *JAMA* 328, 1495–1496. <https://doi.org/10.1001/jama.2022.18346>
- Basch, P., Smith, J.R.L., 2018. CMS Payment Policy, E&M Guideline Reform, and the Prospect of Electronic Health Record Optimization. *Appl Clin Inform* 9, 914–918. <https://doi.org/10.1055/s-0038-1676337>

- Bates, D.W., Ebell, M., Gotlieb, E., Zapp, J., Mullins, H.C., 2003a. A proposal for electronic medical records in U.S. primary care. *J Am Med Inform Assoc* 10, 1–10. <https://doi.org/10.1197/jamia.m1097>
- Bates, D.W., Kuperman, G.J., Rittenberg, E., Teich, J.M., Fiskio, J., Ma'luf, N., Onderdonk, A., Wybenga, D., Winkelman, J., Brennan, T.A., Komaroff, A.L., Tanasijevic, M., 1999. A randomized trial of a computer-based intervention to reduce utilization of redundant laboratory tests. *Am J Med* 106, 144–150. [https://doi.org/10.1016/s0002-9343\(98\)00410-0](https://doi.org/10.1016/s0002-9343(98)00410-0)
- Bates, D.W., Kuperman, G.J., Wang, S., Gandhi, T., Kittler, A., Volk, L., Spurr, C., Khorasani, R., Tanasijevic, M., Middleton, B., 2003b. Ten commandments for effective clinical decision support: making the practice of evidence-based medicine a reality. *J Am Med Inform Assoc* 10, 523–530. <https://doi.org/10.1197/jamia.M1370>
- Bates, D.W., Landman, A.B., 2018. Use of Medical Scribes to Reduce Documentation Burden: Are They Where We Need to Go With Clinical Documentation? *JAMA Intern Med* 178, 1472–1473. <https://doi.org/10.1001/jamainternmed.2018.3945>
- Bedgood, M., Rabbani, N., Brown, C., Goldstein, R., Carlson, J.L., Steinberg, E., Powell, A., Pageler, N.M., Morse, K., 2023. The Prevalence of Confidential Content in Adolescent Progress Notes Prior to the 21st Century Cures Act Information Blocking Mandate. *Appl Clin Inform* 14, 337–344. <https://doi.org/10.1055/s-0043-1767682>
- Beeler, P.E., Orav, E.J., Seger, D.L., Dykes, P.C., Bates, D.W., 2016. Provider variation in responses to warnings: do the same providers run stop signs repeatedly? *J Am Med Inform Assoc* 23, e93-98. <https://doi.org/10.1093/jamia/ocv117>
- Bell, D.S., Greenes, R.A., 1994. Evaluation of UltraSTAR: performance of a collaborative structured data entry system. *Proc Annu Symp Comput Appl Med Care* 216–222.
- Bell, S.K., Mejilla, R., Anselmo, M., Darer, J.D., Elmore, J.G., Leveille, S., Ngo, L., Ralston, J.D., Delbanco, T., Walker, J., 2017. When doctors share visit notes with patients: a study of patient and doctor perceptions of documentation errors, safety opportunities and the patient-doctor relationship. *BMJ Qual Saf* 26, 262–270. <https://doi.org/10.1136/bmjqs-2015-004697>
- Blackley, S.V., Huynh, J., Wang, L., Korach, Z., Zhou, L., 2019. Speech recognition for clinical documentation from 1990 to 2018: a systematic review. *J Am Med Inform Assoc* 26, 324–338. <https://doi.org/10.1093/jamia/ocy179>
- Blease, C., Walker, J., DesRoches, C.M., Delbanco, T., 2021. New U.S. Law Mandates Access to Clinical Notes: Implications for Patients and Clinicians. *Ann Intern Med* 174, 101–102. <https://doi.org/10.7326/M20-5370>
- Blumenthal, S., 2017. The Use of Clinical Registries in the United States: A Landscape Survey. *EGEMS (Wash DC)* 5, 26. <https://doi.org/10.5334/egems.248>
- Bobb, A.M., Payne, T.H., Gross, P.A., 2007. Viewpoint: controversies surrounding use of order sets for clinical decision support in computerized provider order entry. *J Am Med Inform Assoc* 14, 41–47. <https://doi.org/10.1197/jamia.M2184>
- Bouayad, L., Ialynytchev, A., Padmanabhan, B., 2017. Patient Health Record Systems Scope and Functionalities: Literature Review and Future Directions. *J Med Internet Res* 19, e388. <https://doi.org/10.2196/jmir.8073>
- Bruce, G., 2024. Epic's dominance in 12 numbers [WWW Document]. *Becker's Health IT*. URL <https://www.beckershospitalreview.com/ehrs/epics-dominance-in-12-numbers.html> (accessed 2.9.25).

- Bruce, G., 2023. EHR vendor market share in the US [WWW Document]. Becker's Health IT. URL <https://www.beckershospitalreview.com/ehrs/ehr-vendor-market-share-in-the-us.html> (accessed 2.13.24).
- Bryant, A.D., Fletcher, G.S., Payne, T.H., 2014. Drug interaction alert override rates in the Meaningful Use era: no evidence of progress. *Appl Clin Inform* 5, 802–813. <https://doi.org/10.4338/ACI-2013-12-RA-0103>
- Chaparro, J.D., Hussain, C., Lee, J.A., Hehmeyer, J., Nguyen, M., Hoffman, J., 2020. Reducing Interruptive Alert Burden Using Quality Improvement Methodology. *Appl Clin Inform* 11, 46–58. <https://doi.org/10.1055/s-0039-3402757>
- Choi, K., Gitelman, Y., Asch, D.A., 2018. Subscribing to Your Patients - Reimagining the Future of Electronic Health Records. *N Engl J Med* 378, 1960–1962. <https://doi.org/10.1056/NEJMp1800874>
- Chunara, R., Gjonaj, J., Immaculate, E., Wang, I., Alaro, J., Scott-Sheldon, L.A.J., Mangeni, J., Mwangi, A., Vedanthan, R., Hogan, J., 2024. Social determinants of health: the need for data science methods and capacity. *Lancet Digit Health* 6, e235–e237. [https://doi.org/10.1016/S2589-7500\(24\)00022-0](https://doi.org/10.1016/S2589-7500(24)00022-0)
- Cimino, J.J., 2013. Improving the electronic health record--are clinicians getting what they wished for? *JAMA* 309, 991–992. <https://doi.org/10.1001/jama.2013.890>
- Clinical Decision Support Software; Guidance for Industry and Food and Drug Administration Staff [WWW Document], 2022. . Federal Register. URL <https://www.federalregister.gov/documents/2022/09/28/2022-20993/clinical-decision-support-software-guidance-for-industry-and-food-and-drug-administration-staff> (accessed 1.12.23).
- Del Beccaro, M.A., Jeffries, H.E., Eisenberg, M.A., Harry, E.D., 2006. Computerized provider order entry implementation: no association with increased mortality rates in an intensive care unit. *Pediatrics* 118, 290–295. <https://doi.org/10.1542/peds.2006-0367>
- Delbanco, T., Walker, J., Bell, S.K., Darer, J.D., Elmore, J.G., Farag, N., Feldman, H.J., Mejilla, R., Ngo, L., Ralston, J.D., Ross, S.E., Trivedi, N., Vodicka, E., Leveille, S.G., 2012. Inviting patients to read their doctors' notes: a quasi-experimental study and a look ahead. *Ann Intern Med* 157, 461–470. <https://doi.org/10.7326/0003-4819-157-7-201210020-00002>
- Delbanco, T., Walker, J., Darer, J.D., Elmore, J.G., Feldman, H.J., Leveille, S.G., Ralston, J.D., Ross, S.E., Vodicka, E., Weber, V.D., 2010. Open notes: doctors and patients signing on. *Ann Intern Med* 153, 121–125. <https://doi.org/10.7326/0003-4819-153-2-201007200-00008>
- Denneson, L.M., Cromer, R., Williams, H.B., Pisciotto, M., Dobscha, S.K., 2017. A Qualitative Analysis of How Online Access to Mental Health Notes Is Changing Clinician Perceptions of Power and the Therapeutic Relationship. *J Med Internet Res* 19, e208. <https://doi.org/10.2196/jmir.6915>
- DesRoches, C.M., Wachenheim, D., Garcia, A., Harcourt, K., Henry, J., Shah, R., Patel, V., 2024. Clinician and Patient Perspectives on the Exchange of Sensitive Social Determinants of Health Information. *JAMA Netw Open* 7, e2444376. <https://doi.org/10.1001/jamanetworkopen.2024.44376>
- Detmer, D., Bloomrosen, M., Raymond, B., Tang, P., 2008. Integrated personal health records: transformative tools for consumer-centric care. *BMC Med Inform Decis Mak* 8, 45. <https://doi.org/10.1186/1472-6947-8-45>
- Dolin, R.H., Shenvi, E., Alvarez, C., Barrows, R.C., Boxwala, A., Lee, B., Nathanson, B.H., Kleyner, Y., Hagemann, R., Hongsermeier, T., Kapusnik-Uner, J., Lakdawala, A., Shalaby,

- J., 2024. PillHarmonics: An Orchestrated Pharmacogenetics Medication Clinical Decision Support Service. *Appl Clin Inform* 15, 378–387. <https://doi.org/10.1055/a-2274-6763>
- Donnelly, W.J., 2005. Viewpoint: patient-centered medical care requires a patient-centered medical record. *Acad Med* 80, 33–38. <https://doi.org/10.1097/00001888-200501000-00009>
- Drago, K., Sharpe, J., De Lima, B., Alhomod, A., Eckstrom, E., 2020. Safer Prescribing for Hospitalized Older Adults with an Electronic Health Records-Based Prescribing Context. *J Am Geriatr Soc* 68, 2123–2127. <https://doi.org/10.1111/jgs.16640>
- Drew, B.J., Harris, P., Zègre-Hemsey, J.K., Mammone, T., Schindler, D., Salas-Boni, R., Bai, Y., Tinoco, A., Ding, Q., Hu, X., 2014. Insights into the problem of alarm fatigue with physiologic monitor devices: a comprehensive observational study of consecutive intensive care unit patients. *PLoS One* 9, e110274. <https://doi.org/10.1371/journal.pone.0110274>
- Dreyer, N.A., Garner, S., 2009. Registries for robust evidence. *JAMA* 302, 790–791. <https://doi.org/10.1001/jama.2009.1092>
- Dufendach, K.R., Eichenberger, J.A., McPheeters, M.L., Temple, M.W., Bhatia, H.L., Alrifai, M.W., Potter, S.A., Weinberg, S.T., Johnson, K.B., Lehmann, C.U., 2015. Core Functionality in Pediatric Electronic Health Records, AHRQ Comparative Effectiveness Technical Briefs. Agency for Healthcare Research and Quality (US), Rockville (MD).
- Dufendach, K.R., Lehmann, C.U., Spooner, S.A., 2024. Special Requirements of Electronic Health Record Systems in Pediatrics: Clinical Report. *Pediatrics* 154, e2024068509. <https://doi.org/10.1542/peds.2024-068509>
- Duggan, M.J., Gervase, J., Schoenbaum, A., Hanson, W., Howell, J.T., Sheinberg, M., Johnson, K.B., 2025. Clinician Experiences With Ambient Scribe Technology to Assist With Documentation Burden and Efficiency. *JAMA Netw Open* 8, e2460637. <https://doi.org/10.1001/jamanetworkopen.2024.60637>
- Dullabh, P., Heaney-Huis, K., Desai, P., Jiménez, F., Ryan, S., McCoy, A.B., Osheroff, J.A., 2023. Scaling, Measurement, and Dissemination of CDS Workgroup: PC CDS Performance Measurement Inventory User Guide | CDSiC [WWW Document]. Agency for Healthcare Research and Quality. URL <https://cdsic.ahrq.gov/cdsic/measurementuserguide> (accessed 2.13.24).
- Eisen, M., 2020. The Future of Madison’s “Epiconomy.” *Madison Magazine*.
- Electronic Health Record Modernization: VA Needs to Address Change Management Challenges, User Satisfaction, and System Issues | U.S. GAO [WWW Document], 2023. . . Government Accountability Office. URL <https://www.gao.gov/products/gao-23-106685> (accessed 4.16.23).
- Elias, P., Peterson, E., Wachter, B., Ward, C., Poon, E., Navar, A.M., 2019. Evaluating the Impact of Interruptive Alerts within a Health System: Use, Response Time, and Cumulative Time Burden. *Appl Clin Inform* 10, 909–917. <https://doi.org/10.1055/s-0039-1700869>
- Ellenbogen, A.L., Patrie, J.T., Gaskin, C.M., 2021. Improving Patient Access to Medical Images by Integrating an Imaging Portal With the Electronic Health Record Patient Portal. *J Am Coll Radiol*. <https://doi.org/10.1016/j.jacr.2020.12.028>
- Embi, P.J., Yackel, T.R., Logan, J.R., Bowen, J.L., Cooney, T.G., Gorman, P.N., 2004. Impacts of computerized physician documentation in a teaching hospital: perceptions of faculty and resident physicians. *J Am Med Inform Assoc* 11, 300–309. <https://doi.org/10.1197/jamia.M1525>
- Evans, R.S., Pestotnik, S.L., Classen, D.C., Clemmer, T.P., Weaver, L.K., Orme, J.F., Lloyd, J.F., Burke, J.P., 1998. A computer-assisted management program for antibiotics and other

- antiinfective agents. *N Engl J Med* 338, 232–238.
<https://doi.org/10.1056/NEJM199801223380406>
- Florig, S.T., Corby, S., Devara, T., Weiskopf, N.G., Mohan, V., Gold, J.A., 2022. Medical Record Closure Practices of Physicians Before and After the Use of Medical Scribes. *JAMA* 328, 1350–1352. <https://doi.org/10.1001/jama.2022.13558>
- Frieden, T.R., Mostashari, F., 2008. Health care as if health mattered. *JAMA* 299, 950–952.
<https://doi.org/10.1001/jama.299.8.950>
- Fries, J.F., 1974. Alternatives in medical record formats. *Med Care* 12, 871–881.
<https://doi.org/10.1097/00005650-197410000-00006>
- Gantzer, H.E., Block, B.L., Hobgood, L.C., Tufte, J., 2020. Restoring the Story and Creating a Valuable Clinical Note. *Annals of Internal Medicine* 173, 380–382.
<https://doi.org/10.7326/M20-0934>
- Gardner, R.L., Cooper, E., Haskell, J., Harris, D.A., Poplau, S., Kroth, P.J., Linzer, M., 2019. Physician stress and burnout: the impact of health information technology. *J Am Med Inform Assoc* 26, 106–114. <https://doi.org/10.1093/jamia/ocy145>
- Garg, A.X., Adhikari, N.K.J., McDonald, H., Rosas-Arellano, M.P., Devereaux, P.J., Beyene, J., Sam, J., Haynes, R.B., 2005. Effects of computerized clinical decision support systems on practitioner performance and patient outcomes: a systematic review. *JAMA* 293, 1223–1238. <https://doi.org/10.1001/jama.293.10.1223>
- Gerber, J.S., Prasad, P.A., Fiks, A.G., Localio, A.R., Bell, L.M., Keren, R., Zaoutis, T.E., 2014. Durability of benefits of an outpatient antimicrobial stewardship intervention after discontinuation of audit and feedback. *JAMA* 312, 2569–2570.
<https://doi.org/10.1001/jama.2014.14042>
- Giardina, T.D., Baldwin, J., Nystrom, D.T., Sittig, D.F., Singh, H., 2018. Patient perceptions of receiving test results via online portals: a mixed-methods study. *J Am Med Inform Assoc* 25, 440–446. <https://doi.org/10.1093/jamia/ocx140>
- Gopinath, D., Agrawal, M., Murray, L., Horng, S., Karger, D., Sontag, D., 2020. Fast, Structured Clinical Documentation via Contextual Autocomplete, in: *Machine Learning for Healthcare*. Presented at the Machine Learning for Healthcare, PMLR, pp. 842–870.
- Goss, F.R., Blackley, S.V., Ortega, C.A., Kowalski, L.T., Landman, A.B., Lin, C.-T., Meter, M., Bakes, S., Gradwohl, S.C., Bates, D.W., Zhou, L., 2019. A clinician survey of using speech recognition for clinical documentation in the electronic health record. *Int J Med Inform* 130, 103938. <https://doi.org/10.1016/j.ijmedinf.2019.07.017>
- Goss, F.R., Zhou, L., Weiner, S.G., 2016. Incidence of speech recognition errors in the emergency department. *Int J Med Inform* 93, 70–73.
<https://doi.org/10.1016/j.ijmedinf.2016.05.005>
- Greenes, R., Del Fiol, G. (Eds.), 2023. *Clinical Decision Support and Beyond: Progress and Opportunities in Knowledge-Enhanced Health and Healthcare*, 3rd edition. ed. Academic Press.
- Greenes, R.A., Barnett, G.O., Klein, S.W., Robbins, A., Prior, R.E., 1970. Recording, retrieval and review of medical data by physician-computer interaction. *N Engl J Med* 282, 307–315.
<https://doi.org/10.1056/NEJM197002052820605>
- Greenes, R.A., Bates, D.W., Kawamoto, K., Middleton, B., Osheroff, J., Shahar, Y., 2018. Clinical decision support models and frameworks: Seeking to address research issues underlying implementation successes and failures. *J Biomed Inform* 78, 134–143.
<https://doi.org/10.1016/j.jbi.2017.12.005>

- Grouse, C.K., Waung, M.W., Holmgren, A.J., Mongan, J., Neinstein, A., Josephson, S.A., Khanna, R.R., 2022. Behavioral “nudges” in the electronic health record to reduce waste and misuse: 3 interventions. *J Am Med Inform Assoc* ocac238. <https://doi.org/10.1093/jamia/ocac238>
- Han, Y.Y., Carcillo, J.A., Venkataraman, S.T., Clark, R.S.B., Watson, R.S., Nguyen, T.C., Bayir, H., Orr, R.A., 2005. Unexpected increased mortality after implementation of a commercially sold computerized physician order entry system. *Pediatrics* 116, 1506–1512. <https://doi.org/10.1542/peds.2005-1287>
- Handler, J.A., Feied, C.F., Gillam, M.T., 2022. Novel Techniques to Assess Predictive Systems and Reduce Their Alarm Burden. *IEEE J Biomed Health Inform* 26, 5267–5278. <https://doi.org/10.1109/JBHI.2022.3189312>
- Health Data Stewardship: What, Why, Who, How - An NCVHS Primer, 2009. . National Committee on Vital and Health Statistics.
- Hersh, W., 2017a. From Vendor-Centric to Patient-Centric Data Stores. Informatics Professor. URL <https://informaticsprofessor.blogspot.com/2017/11/from-vendor-centric-to-patient-centric.html> (accessed 2.4.21).
- Hersh, W., 2017b. End of an Era For Academic Informatics: Demise of the Home-Grown EHR. Informatics Professor. URL <https://informaticsprofessor.blogspot.com/2017/11/end-of-era-for-academic-informatics.html> (accessed 2.4.21).
- Hersh, W., 2011. Electronic health records facilitate development of disease registries and more. *Clin J Am Soc Nephrol* 6, 5–6. <https://doi.org/10.2215/CJN.09901110>
- Hersh, W., 2007. Copy and Paste. PSNet. URL <https://psnet.ahrq.gov/web-mm/copy-and-paste> (accessed 2.2.21).
- Hersh, W.R., Weiner, M.G., Embi, P.J., Logan, J.R., Payne, P.R.O., Bernstam, E.V., Lehmann, H.P., Hripcsak, G., Hartzog, T.H., Cimino, J.J., Saltz, J.H., 2013. Caveats for the use of operational electronic health record data in comparative effectiveness research. *Med Care* 51, S30-37. <https://doi.org/10.1097/MLR.0b013e31829b1dbd>
- Himmelstein, G., Bates, D., Zhou, L., 2022. Examination of Stigmatizing Language in the Electronic Health Record. *JAMA Netw Open* 5, e2144967. <https://doi.org/10.1001/jamanetworkopen.2021.44967>
- Hripcsak, G., Ludemann, P., Pryor, T.A., Wigertz, O.B., Clayton, P.D., 1994. Rationale for the Arden Syntax. *Comput Biomed Res* 27, 291–324. <https://doi.org/10.1006/cbmr.1994.1023>
- Hsieh, T.C., Kuperman, G.J., Jaggi, T., Hojnowski-Diaz, P., Fiskio, J., Williams, D.H., Bates, D.W., Gandhi, T.K., 2004. Characteristics and consequences of drug allergy alert overrides in a computerized physician order entry system. *J Am Med Inform Assoc* 11, 482–491. <https://doi.org/10.1197/jamia.M1556>
- Hussain, M.I., Reynolds, T.L., Zheng, K., 2019. Medication safety alert fatigue may be reduced via interaction design and clinical role tailoring: a systematic review. *J Am Med Inform Assoc* 26, 1141–1149. <https://doi.org/10.1093/jamia/ocz095>
- Hysong, S.J., Sawhney, M.K., Wilson, L., Sittig, D.F., Esquivel, A., Singh, S., Singh, H., 2011. Understanding the management of electronic test result notifications in the outpatient setting. *BMC Med Inform Decis Mak* 11, 22. <https://doi.org/10.1186/1472-6947-11-22>
- Institute of Medicine, 2003. Key Capabilities of an Electronic Health Record System: Letter Report. National Academies Press (US). <https://doi.org/10.17226/10781>
- Institute of Medicine, 1997. The Computer-Based Patient Record: An Essential Technology for Health Care, Revised Edition. <https://doi.org/10.17226/5306>

- Isaac, T., Weissman, J.S., Davis, R.B., Massagli, M., Cyrulik, A., Sands, D.Z., Weingart, S.N., 2009. Overrides of medication alerts in ambulatory care. *Arch Intern Med* 169, 305–311. <https://doi.org/10.1001/archinternmed.2008.551>
- Jackson, S.L., Mejilla, R., Darer, J.D., Oster, N.V., Ralston, J.D., Leveille, S.G., Walker, J., Delbanco, T., Elmore, J.G., 2014. Patients who share transparent visit notes with others: characteristics, risks, and benefits. *J Med Internet Res* 16, e247. <https://doi.org/10.2196/jmir.3363>
- Jenders, R.A., Adlassnig, K.-P., Fehre, K., Haug, P., 2018. Evolution of the Arden Syntax: Key Technical Issues from the Standards Development Organization Perspective. *Artif Intell Med* 92, 10–14. <https://doi.org/10.1016/j.artmed.2016.08.001>
- Jenders, R.A., Sujansky, W., Broverman, C.A., Chadwick, M., 1997. Towards improved knowledge sharing: assessment of the HL7 Reference Information Model to support medical logic module queries. *Proc AMIA Annu Fall Symp* 308–312.
- Jennings, K., 2021. The Billionaire Who Controls Your Medical Records [WWW Document]. *Forbes*. URL <https://www.forbes.com/sites/katiejennings/2021/04/08/billionaire-judy-faulkner-epic-systems/> (accessed 4.10.21).
- Joseph, S., 2024a. Epic’s Market Share: Who Should Control The Levers Of Healthcare Innovation? [WWW Document]. *Forbes*. URL <https://www.forbes.com/sites/sethjoseph/2024/02/26/epics-antitrust-paradox-who-should-control-the-levers-of-healthcare-innovation/> (accessed 2.9.25).
- Joseph, S., 2024b. Competitive Or Exclusionary? Epic’s Seven Business Practices That Raise Questions [WWW Document]. *Forbes*. URL <https://www.forbes.com/sites/sethjoseph/2024/02/26/competitive-or-exclusionary-epics-seven-anti-competitive-sins/> (accessed 2.9.25).
- Joseph, S., 2024c. Epic’s Consumer Strategy Is Bold. Its Tactics Push The Boundaries. – The Health Care Blog. *The Health Care Blog*. URL <https://thehealthcareblog.com/blog/2024/11/19/epics-consumer-strategy-is-bold-its-tactics-push-the-boundaries/> (accessed 2.9.25).
- Kane-Gill, S.L., O’Connor, M.F., Rothschild, J.M., Selby, N.M., McLean, B., Bonafide, C.P., Cvach, M.M., Hu, X., Konkani, A., Pelter, M.M., Winters, B.D., 2017. Technologic Distractions (Part 1): Summary of Approaches to Manage Alert Quantity With Intent to Reduce Alert Fatigue and Suggestions for Alert Fatigue Metrics. *Crit Care Med* 45, 1481–1488. <https://doi.org/10.1097/CCM.0000000000002580>
- Kassakian, S.Z., Yackel, T.R., Gorman, P.N., Dorr, D.A., 2017. Clinical decisions support malfunctions in a commercial electronic health record. *Appl Clin Inform* 8, 910–923. <https://doi.org/10.4338/ACI-2017-01-RA-0006>
- Keeler, B., 2024. An Epic Saga: The Origin Story. *Health API Guy*. URL <https://healthapiguy.substack.com/p/an-epic-saga-the-origin-story> (accessed 2.9.25).
- Khalifa, M., Albadawy, M., Iqbal, U., 2024. Advancing clinical decision support: The role of artificial intelligence across six domains. *Computer Methods and Programs in Biomedicine Update* 5, 100142. <https://doi.org/10.1016/j.cmpbup.2024.100142>
- Khasawneh, A., Kratzke, I., Adapa, K., Marks, L., Mazur, L., 2022. Effect of Notes’ Access and Complexity on OpenNotes’ Utility. *Appl Clin Inform* 13, 1015–1023. <https://doi.org/10.1055/a-1942-6889>
- Klein, J.W., Jackson, S.L., Bell, S.K., Anselmo, M.K., Walker, J., Delbanco, T., Elmore, J.G., 2016. Your Patient Is Now Reading Your Note: Opportunities, Problems, and Prospects.

- The American Journal of Medicine 129, 1018–1021.
<https://doi.org/10.1016/j.amjmed.2016.05.015>
- Kommer, C.G., 2018. Good Documentation. JAMA 320, 875–876.
<https://doi.org/10.1001/jama.2018.11781>
- Kwan, J.L., Lo, L., Ferguson, J., Goldberg, H., Diaz-Martinez, J.P., Tomlinson, G., Grimshaw, J.M., Shojania, K.G., 2020. Computerised clinical decision support systems and absolute improvements in care: meta-analysis of controlled clinical trials. BMJ 370, m3216.
<https://doi.org/10.1136/bmj.m3216>
- Lam, B.D., Dupee, D., Gerard, M., Bell, S.K., 2023. A Patient-Centered Approach to Writing Ambulatory Visit Notes in the Cures Act Era. Appl Clin Inform 14, 199–204.
<https://doi.org/10.1055/s-0043-1761436>
- Landi, H., 2020. Practice Fusion to pay \$145M settlement for taking kickbacks aimed at increasing opioid prescriptions. FierceHealthcare.
- Lin, A.C., 2017. How to write an Open Note for patients. The Undiscovered Country. URL <https://ctlin.blog/2017/09/18/how-to-write-an-open-note-for-patients/> (accessed 2.4.21).
- Lin, C.-T., McKenzie, M., Pell, J., Caplan, L., 2013. Health care provider satisfaction with a new electronic progress note format: SOAP vs APSO format. JAMA Intern Med 173, 160–162.
<https://doi.org/10.1001/2013.jamainternmed.474>
- Liu, T.-L., Hetherington, T.C., Dharod, A., Carroll, T., Bundy, R., Nguyen, H., Bundy, H.E., Isreal, M., McWilliams, A., Cleveland, J.A., 2024. Does AI-Powered Clinical Documentation Enhance Clinician Efficiency? A Longitudinal Study. NEJM AI 1, A1oa2400659. <https://doi.org/10.1056/A1oa2400659>
- Lomotan, E.A., Meadows, G., Michaels, M., Michel, J.J., Miller, K., 2020. To Share is Human! Advancing Evidence into Practice through a National Repository of Interoperable Clinical Decision Support. Appl Clin Inform 11, 112–121. <https://doi.org/10.1055/s-0040-1701253>
- Longhurst, C.A., Parast, L., Sandborg, C.I., Widen, E., Sullivan, J., Hahn, J.S., Dawes, C.G., Sharek, P.J., 2010. Decrease in hospital-wide mortality rate after implementation of a commercially sold computerized physician order entry system. Pediatrics 126, 14–21.
<https://doi.org/10.1542/peds.2009-3271>
- Lorkowski, J., Pokorski, M., 2022. Medical Records: A Historical Narrative. Biomedicines 10, 2594. <https://doi.org/10.3390/biomedicines10102594>
- Los, R.K., van Ginneken, A.M., van der Lei, J., 2005. OpenSDE: a strategy for expressive and flexible structured data entry. Int J Med Inform 74, 481–490.
<https://doi.org/10.1016/j.ijmedinf.2005.04.005>
- Luks, A.M., Goldberger, Z.D., 2021. Watch Your Language!—Misusage and Neologisms in Clinical Communication. JAMA Intern Med 181, 5.
<https://doi.org/10.1001/jamainternmed.2020.5679>
- Lybarger, K.J., Ostendorf, M., Riskin, E., Payne, T.H., White, A.A., Yetisgen, M., 2018. Asynchronous Speech Recognition Affects Physician Editing of Notes. Appl Clin Inform 9, 782–790. <https://doi.org/10.1055/s-0038-1673417>
- Ma, S.P., Liang, A.S., Shah, S.J., Smith, M., Jeong, Y., Devon-Sand, A., Crowell, T., Delahaie, C., Hsia, C., Lin, S., Shanafelt, T., Pfeffer, M.A., Sharp, C., Garcia, P., 2025. Ambient artificial intelligence scribes: utilization and impact on documentation time. J Am Med Inform Assoc 32, 381–385. <https://doi.org/10.1093/jamia/ocae304>

- May, T., 2022. The Fragmentation of Health Data. Datavant. URL <https://medium.com/datavant/the-fragmentation-of-health-data-8fa708109e13> (accessed 2.7.25).
- McCormack, M., 2013. We'd all be better off with our health records on Facebook [WWW Document]. Quartz. URL <https://qz.com/161727/wed-all-be-better-off-with-our-health-records-on-facebook/> (accessed 2.2.21).
- McCoy, A.B., Russo, E.M., Johnson, K.B., Addison, B., Patel, N., Wanderer, J.P., Mize, D.E., Jackson, J.G., Reese, T.J., Littlejohn, S., Patterson, L., French, T., Preston, D., Rosenbury, A., Valdez, C., Nelson, S.D., Aher, C.V., Alrifai, M.W., Andrews, J., Cobb, C., Horst, S.N., Johnson, D.P., Knake, L.A., Lewis, A.A., Parks, L., Parr, S.K., Patel, P., Patterson, B.L., Smith, C.M., Suszter, K.D., Turer, R.W., Wilcox, L.J., Wright, A.P., Wright, A., 2022. Clinician collaboration to improve clinical decision support: the Clickbusters initiative. *J Am Med Inform Assoc* 29, 1050–1059. <https://doi.org/10.1093/jamia/ocac027>
- McDonald, C.J., 1976. Protocol-based computer reminders, the quality of care and the non-perfectability of man. *N Engl J Med* 295, 1351–1355. <https://doi.org/10.1056/NEJM197612092952405>
- McDonald, C.J., Hui, S.L., Smith, D.M., Tierney, W.M., Cohen, S.J., Weinberger, M., McCabe, G.P., 1984. Reminders to physicians from an introspective computer medical record. A two-year randomized trial. *Ann Intern Med* 100, 130–138. <https://doi.org/10.7326/0003-4819-100-1-130>
- McGreevey, J.D., Mallozzi, C.P., Perkins, R.M., Shelov, E., Schreiber, R., 2020. Reducing Alert Burden in Electronic Health Records: State of the Art Recommendations from Four Health Systems. *Appl Clin Inform* 11, 1–12. <https://doi.org/10.1055/s-0039-3402715>
- Meltsner, M., 2012. A patient's view of OpenNotes. *Ann Intern Med* 157, 523–524. <https://doi.org/10.7326/0003-4819-157-7-201210020-00012>
- Micek, M.A., Arndt, B., Baltus, J.J., Broman, A.T., Galang, J., Dean, S., Anderson, M., Sinsky, C., 2022. The effect of remote scribes on primary care physicians' wellness, EHR satisfaction, and EHR use. *Healthc (Amst)* 10, 100663. <https://doi.org/10.1016/j.hjdsi.2022.100663>
- Mikk, K.A., Sleeper, H.A., Topol, E.J., 2017. The Pathway to Patient Data Ownership and Better Health. *JAMA* 318, 1433–1434. <https://doi.org/10.1001/jama.2017.12145>
- Mogharbel, A., Dowding, D., Ainsworth, J., 2021. Physicians' Use of the Computerized Physician Order Entry System for Medication Prescribing: Systematic Review. *JMIR Med Inform* 9, e22923. <https://doi.org/10.2196/22923>
- Murphy, D.R., Meyer, A.N.D., Russo, E., Sittig, D.F., Wei, L., Singh, H., 2016. The Burden of Inbox Notifications in Commercial Electronic Health Records. *JAMA Intern Med* 176, 559–560. <https://doi.org/10.1001/jamainternmed.2016.0209>
- Naik, A.D., Singh, H., 2010. Electronic health records to coordinate decision making for complex patients: what can we learn from wiki? *Med Decis Making* 30, 722–731. <https://doi.org/10.1177/0272989X10385846>
- Nanji, K.C., Patel, A., Shaikh, S., Seger, D.L., Bates, D.W., 2016. Evaluation of Perioperative Medication Errors and Adverse Drug Events. *Anesthesiology* 124, 25–34. <https://doi.org/10.1097/ALN.0000000000000904>
- Nazi, K.M., Turvey, C.L., Klein, D.M., Hogan, T.P., Woods, S.S., 2015. VA OpenNotes: exploring the experiences of early patient adopters with access to clinical notes. *J Am Med Inform Assoc* 22, 380–389. <https://doi.org/10.1136/amiajnl-2014-003144>

- O'Donnell, H.C., Suresh, S., COUNCIL ON CLINICAL INFORMATION TECHNOLOGY, 2020. Electronic Documentation in Pediatrics: The Rationale and Functionality Requirements. *Pediatrics* 146. <https://doi.org/10.1542/peds.2020-1682>
- Osheroff, J., Teich, J., Levick, D., Saldana, L., Velasco, F., Sittig, D., Rogers, K., Jenders, R., 2012. *Improving Outcomes with Clinical Decision Support: An Implementer's Guide*, Second Edition, 2nd edition. ed. HIMSS Publishing, Chicago, IL.
- Osheroff, J.A., Teich, J.M., Middleton, B., Steen, E.B., Wright, A., Detmer, D.E., 2007. A roadmap for national action on clinical decision support. *J Am Med Inform Assoc* 14, 141–145. <https://doi.org/10.1197/jamia.M2334>
- Ota, T., Patel, R.J., Delate, T., 2020. Effectiveness of Best Practice Alerts for Potentially Inappropriate Medication Orders in Older Adults in the Ambulatory Setting. *Perm J* 24. <https://doi.org/10.7812/TPP/19.041>
- Park, J., Saha, S., Chee, B., Taylor, J., Beach, M.C., 2021. Physician Use of Stigmatizing Language in Patient Medical Records. *JAMA Netw Open* 4, e2117052. <https://doi.org/10.1001/jamanetworkopen.2021.17052>
- Payne, T.H., Alonso, W.D., Markiel, J.A., Lybarger, K., Lordon, R., Yetisgen, M., Zech, J.M., White, A.A., 2018a. Using voice to create inpatient progress notes: effects on note timeliness, quality, and physician satisfaction. *JAMIA Open* 1, 218–226. <https://doi.org/10.1093/jamiaopen/ooy036>
- Payne, T.H., Alonso, W.D., Markiel, J.A., Lybarger, K., White, A.A., 2018b. Using voice to create hospital progress notes: Description of a mobile application and supporting system integrated with a commercial electronic health record. *J Biomed Inform* 77, 91–96. <https://doi.org/10.1016/j.jbi.2017.12.004>
- Payne, T.H., Hoey, P.J., Nichol, P., Lovis, C., 2003. Preparation and use of preconstructed orders, order sets, and order menus in a computerized provider order entry system. *J Am Med Inform Assoc* 10, 322–329. <https://doi.org/10.1197/jamia.M1090>
- Payne, T.H., Turner, G.K., 2023. I'm not burned out. This is how I write notes. *JAMIA Open* 6, ooad099. <https://doi.org/10.1093/jamiaopen/oad099>
- Perna, G., 2023. How Epic took over the hospital EHR market [WWW Document]. *Modern Healthcare*. URL <https://www.modernhealthcare.com/digital-health/epic-cerner-meditech-ehr-market> (accessed 2.13.24).
- Personal Health Records: What Health Care Providers Need to Know [WWW Document], 2019. . HealthIT.gov. URL <https://www.healthit.gov/sites/default/files/about-phrs-for-providers-011311.pdf> (accessed 2.4.21).
- Personal Health Records [WWW Document], 2019. . MedlinePlus. URL <https://medlineplus.gov/personalhealthrecords.html> (accessed 2.4.21).
- Purkayastha, S., Allam, R., Maity, P., Gichoya, J.W., 2019. Comparison of Open-Source Electronic Health Record Systems Based on Functional and User Performance Criteria. *Healthc Inform Res* 25, 89–98. <https://doi.org/10.4258/hir.2019.25.2.89>
- Rajkomar, A., Kannan, A., Chen, K., Vardoulakis, L., Chou, K., Cui, C., Dean, J., 2019. Automatically Charting Symptoms From Patient-Physician Conversations Using Machine Learning. *JAMA Intern Med* 179, 836–838. <https://doi.org/10.1001/jamainternmed.2018.8558>
- Reducing Interruptive Alert Burden Using Quality Improvement Methodology - PubMed [WWW Document], n.d. URL <https://pubmed.ncbi.nlm.nih.gov/31940671/> (accessed 12.22.21).

- Registries for Evaluating Patient Outcomes: A User's Guide: 4th Edition [WWW Document], 2020. . AHRQ Effective Health Care Program. URL <https://effectivehealthcare.ahrq.gov/products/registries-guide-4th-edition/users-guide> (accessed 2.4.21).
- Rieger, E.Y., Anderson, I.J., Press, V.G., Cui, M.X., Arora, V.M., Williams, B.C., Tang, J.W., 2023. Implementation of a Biopsychosocial History and Physical Exam Template in the Electronic Health Record: Mixed Methods Study. *JMIR Med Educ* 9, e42364. <https://doi.org/10.2196/42364>
- Rodman, A., Schaye, V., Hofmann, H., Airan-Javia, S.L., 2023. Point-counterpoint: Time to wash away the SOAP note-Or merely rinse it? *J Hosp Med* 18, 957–961. <https://doi.org/10.1002/jhm.13180>
- Roehrs, A., da Costa, C.A., Righi, R. da R., de Oliveira, K.S.F., 2017. Personal Health Records: A Systematic Literature Review. *J Med Internet Res* 19, e13. <https://doi.org/10.2196/jmir.5876>
- Rosenthal, A.F., 1984. Cutting costs in clinical chemistry. *MLO Med Lab Obs* 16, 30–38.
- Safe Practice Recommendations for Copy and Paste [WWW Document], 2017. . ECRI. URL <https://d84vr99712pyz.cloudfront.net/p/pdf/hit-partnership/copy-paste-recommendations.pdf> (accessed 2.2.21).
- Samwald, M., Fehre, K., de Bruin, J., Adlassnig, K.-P., 2012. The Arden Syntax standard for clinical decision support: experiences and directions. *J Biomed Inform* 45, 711–718. <https://doi.org/10.1016/j.jbi.2012.02.001>
- Sangal, R.B., Powers, E., Rothenberg, C., Ndumele, C., Ulrich, A., Hsiao, A., Venkatesh, A.K., 2021. Disparities in Accessing and Reading Open Notes in the Emergency Department Upon Implementation of the 21st Century CURES Act. *Ann Emerg Med* 78, 593–598. <https://doi.org/10.1016/j.annemergmed.2021.06.014>
- Sarabu, C., Lee, T., Hogan, A., Pageler, N., 2021. The Value of OpenNotes for Pediatric Patients, Their Families and Impact on the Patient-Physician Relationship. *Appl Clin Inform* 12, 76–81. <https://doi.org/10.1055/s-0040-1721781>
- Schiff, G., Mirica, M.M., Dhavle, A.A., Galanter, W.L., Lambert, B., Wright, A., 2018. A Prescription For Enhancing Electronic Prescribing Safety. *Health Aff (Millwood)* 37, 1877–1883. <https://doi.org/10.1377/hlthaff.2018.0725>
- Scott, K., 2013. *Medical Coding for Non-Coders*, 2nd edition. ed. American Health Information Management Associ, Chicago, IL.
- Sequoia Project, 2022. Infographic demonstrating the complexity of Designated Record Set (DRS)-based EHI. Sequoia Project.
- Shafer, P.R., Palani, S., Saeed, I., Legler, A., Barr, K., Carvalho, K., Pizer, S.D., 2024. Costs and Productivity Benefits of the Department of Veterans Affairs Maintaining Internal Systems and Strengthening Integrated Outside Networks Act Scribes Trial. *Value Health* 27, 713–720. <https://doi.org/10.1016/j.jval.2024.02.017>
- Shah, S.D., Cifu, A.S., 2018. From Guideline to Order Set to Patient Harm. *JAMA* 319, 1207–1208. <https://doi.org/10.1001/jama.2018.1666>
- Shah, S.J., Devon-Sand, A., Ma, S.P., Jeong, Y., Crowell, T., Smith, M., Liang, A.S., Delahaie, C., Hsia, C., Shanafelt, T., Pfeiffer, M.A., Sharp, C., Lin, S., Garcia, P., 2025. Ambient artificial intelligence scribes: physician burnout and perspectives on usability and documentation burden. *J Am Med Inform Assoc* 32, 375–380. <https://doi.org/10.1093/jamia/ocae295>

- Shenkin, B.N., Warner, D.C., 1973. Sounding board. Giving the patient his medical record: a proposal to improve the system. *N Engl J Med* 289, 688–692. <https://doi.org/10.1056/NEJM197309272891311>
- Siegler, E.L., 2010. The evolving medical record. *Ann Intern Med* 153, 671–677. <https://doi.org/10.7326/0003-4819-153-10-201011160-00012>
- Sittig, D.F., Ash, J.S., Zhang, J., Osheroff, J.A., Shabot, M.M., 2006. Lessons from “Unexpected increased mortality after implementation of a commercially sold computerized physician order entry system.” *Pediatrics* 118, 797–801. <https://doi.org/10.1542/peds.2005-3132>
- Sittig, D.F., Boxwala, A., Wright, A., Zott, C., Desai, P., Dhopeswarkar, R., Swiger, J., Lomotan, E.A., Dobes, A., Dullabh, P., 2023. A lifecycle framework illustrates eight stages necessary for realizing the benefits of patient-centered clinical decision support. *J Am Med Inform Assoc* 30, 1583–1589. <https://doi.org/10.1093/jamia/ocad122>
- Sittig, D.F., Boxwala, A., Wright, A., Zott, C., Gauthreaux, N.A., Swiger, J., Lomotan, E.A., Dullabh, P., 2024. Patient-centered clinical decision support challenges and opportunities identified from workflow execution models. *J Am Med Inform Assoc* 31, 1682–1692. <https://doi.org/10.1093/jamia/ocae138>
- Smith, T., 2025. Who are the largest EHR vendors? [WWW Document]. *EHR in Practice*. URL <https://www.ehrinpractice.com/largest-ehr-vendors.html> (accessed 2.9.25).
- Sparks, D., 2015. Dr. Henry Plummer, Mayo’s ultimate Renaissance man [WWW Document]. *Mayo Clinic News Network*. URL <https://newsnetwork.mayoclinic.org/discussion/throwbackthursday-dr-henry-plummer-mayos-ultimate-renaissance-man/> (accessed 1.16.23).
- Sriram, I., Harland, R., Lowenstein, S.R., 2020. I, EHR. *J Hosp Med* 15, 119–120. <https://doi.org/10.12788/jhm.3211>
- Steinkamp, J., Kantrowitz, J., Sharma, A., Bala, W., 2021. Beyond Notes: Why It Is Time to Abandon an Outdated Documentation Paradigm. *J Med Internet Res* 23, e24179. <https://doi.org/10.2196/24179>
- Steitz, B.D., Sulieman, L., Wright, A., Rosenbloom, S.T., 2021. Association of Immediate Release of Test Results to Patients With Implications for Clinical Workflow. *JAMA Netw Open* 4, e2129553. <https://doi.org/10.1001/jamanetworkopen.2021.29553>
- Steitz, B.D., Turer, R.W., Lin, C.-T., MacDonald, S., Salmi, L., Wright, A., Lehmann, C.U., Langford, K., McDonald, S.A., Reese, T.J., Sternberg, P., Chen, Q., Rosenbloom, S.T., DesRoches, C.M., 2023. Perspectives of Patients About Immediate Access to Test Results Through an Online Patient Portal. *JAMA Netw Open* 6, e233572. <https://doi.org/10.1001/jamanetworkopen.2023.3572>
- Strategy on Reducing Burden Relating to the Use of Health IT and EHRs | HealthIT.gov [WWW Document], 2020. . HealthIT.gov. URL <https://www.healthit.gov/topic/usability-and-provider-burden/strategy-reducing-burden-relating-use-health-it-and-ehrs> (accessed 2.4.21).
- Sun, M., Oliwa, T., Peek, M.E., Tung, E.L., 2022. Negative Patient Descriptors: Documenting Racial Bias In The Electronic Health Record. *Health Aff (Millwood)* 101377hlthaff202101423. <https://doi.org/10.1377/hlthaff.2021.01423>
- Sutton, R.T., Pincock, D., Baumgart, D.C., Sadowski, D.C., Fedorak, R.N., Kroeker, K.I., 2020. An overview of clinical decision support systems: benefits, risks, and strategies for success. *NPJ Digit Med* 3, 17. <https://doi.org/10.1038/s41746-020-0221-y>
- Tai-Seale, M., Dillon, E.C., Yang, Y., Nordgren, R., Steinberg, R.L., Nauenberg, T., Lee, T.C., Meehan, A., Li, J., Chan, A.S., Frosch, D.L., 2019. Physicians’ Well-Being Linked To In-

- Basket Messages Generated By Algorithms In Electronic Health Records. *Health Aff (Millwood)* 38, 1073–1078. <https://doi.org/10.1377/hlthaff.2018.05509>
- Taitsman, J.K., VanLandingham, A., Grimm, C.A., 2020. Commercial Influences on Electronic Health Records and Adverse Effects on Clinical Decision-making. *JAMA Intern Med* 180, 925–926. <https://doi.org/10.1001/jamainternmed.2020.1318>
- Tang, P.C., Ash, J.S., Bates, D.W., Overhage, J.M., Sands, D.Z., 2006. Personal health records: definitions, benefits, and strategies for overcoming barriers to adoption. *J Am Med Inform Assoc* 13, 121–126. <https://doi.org/10.1197/jamia.M2025>
- Tang, P.C., Lee, T.H., 2009. Your doctor's office or the Internet? Two paths to personal health records. *N Engl J Med* 360, 1276–1278. <https://doi.org/10.1056/NEJMp0810264>
- The “PROMIS” of Computer-Based Medical Records [WWW Document], 2019. . Circulating Now from NLM. URL <https://circulatingnow.nlm.nih.gov/2019/06/27/the-promis-of-computer-based-medical-records/> (accessed 1.11.23).
- Thielke, S., Hammond, K., Helbig, S., 2007. Copying and pasting of examinations within the electronic medical record. *Int J Med Inform* 76 Suppl 1, S122-128. <https://doi.org/10.1016/j.ijmedinf.2006.06.004>
- Tierney, A.A., Gayre, G., Hoberman, B., Mattern, B., Balleca, M., Kipnis, P., Liu, V., Lee, K., 2024. Ambient Artificial Intelligence Scribes to Alleviate the Burden of Clinical Documentation. *NEJM Catalyst* 5, CAT.23.0404. <https://doi.org/10.1056/CAT.23.0404>
- Tierney, W.M., McDonald, C.J., Martin, D.K., Rogers, M.P., 1987. Computerized display of past test results. Effect on outpatient testing. *Ann Intern Med* 107, 569–574. <https://doi.org/10.7326/0003-4819-107-4-569>
- Tierney, W.M., Miller, M.E., McDonald, C.J., 1990. The effect on test ordering of informing physicians of the charges for outpatient diagnostic tests. *N Engl J Med* 322, 1499–1504. <https://doi.org/10.1056/NEJM199005243222105>
- Toll, E., 2012. A piece of my mind. The cost of technology. *JAMA* 307, 2497–2498. <https://doi.org/10.1001/jama.2012.4946>
- Toll, E.T., Alkureishi, M.A., Lee, W.W., Babbott, S.F., Bain, P.A., Beasley, J.W., Frankel, R.M., Loveys, A.A., Wald, H.S., Woods, S.S., Hersh, W.R., 2019. Protecting healing relationships in the age of electronic health records: report from an international conference. *JAMIA Open* 2, 282–290. <https://doi.org/10.1093/jamiaopen/ooz012>
- Verheij, R.A., Curcin, V., Delaney, B.C., McGilchrist, M.M., 2018. Possible Sources of Bias in Primary Care Electronic Health Record Data Use and Reuse. *J Med Internet Res* 20, e185. <https://doi.org/10.2196/jmir.9134>
- Vigilante, K., 2018. Preserving Stewardship Of The Patient's Story. *Health Affairs Blog*. URL <https://www.healthaffairs.org/doi/10.1377/hblog20180705.349484/full/> (accessed 2.2.21).
- Vodicka, E., Mejilla, R., Leveille, S.G., Ralston, J.D., Darer, J.D., Delbanco, T., Walker, J., Elmore, J.G., 2013. Online access to doctors' notes: patient concerns about privacy. *J Med Internet Res* 15, e208. <https://doi.org/10.2196/jmir.2670>
- Wald, M.L., 2010. For No Signs of Trouble, Kill the Alarm. *The New York Times*.
- Walker, J., Leveille, S., Bell, S., Chimowitz, H., Dong, Z., Elmore, J.G., Fernandez, L., Fossa, A., Gerard, M., Fitzgerald, P., Harcourt, K., Jackson, S., Payne, T.H., Perez, J., Shucard, H., Stametz, R., DesRoches, C., Delbanco, T., 2019. OpenNotes After 7 Years: Patient Experiences With Ongoing Access to Their Clinicians' Outpatient Visit Notes. *J Med Internet Res* 21, e13876. <https://doi.org/10.2196/13876>

- Walker, J., Leveille, S., Kriegel, G., Lin, C.-T., Liu, S.K., Payne, T.H., Harcourt, K., Dong, Z., Fitzgerald, P., Germak, M., Markson, L., Jackson, S.L., Shucard, H., Elmore, J.G., Delbanco, T., 2021. Patients Contributing to Visit Notes: Mixed Methods Evaluation of OurNotes. *J Med Internet Res* 23, e29951. <https://doi.org/10.2196/29951>
- Warner, J.L., Smith, J., Wright, A., 2019. It's Time to Wikify Clinical Documentation: How Collaborative Authorship Can Reduce the Burden and Improve the Quality of the Electronic Health Record. *Acad Med* 94, 645–650. <https://doi.org/10.1097/ACM.0000000000002613>
- Washington, V., DeSalvo, K., Mostashari, F., Blumenthal, D., 2017. The HITECH Era and the Path Forward. *N Engl J Med* 377, 904–906. <https://doi.org/10.1056/NEJMp1703370>
- Weed, L.L., 1969. Medical records, medical education, and patient care;: The problem-oriented record as a basic tool. Press of Case Western Reserve University, Distributed by Year Book Medical Publishers, Chicago, Cleveland.
- Weed, L.L., Zimny, N.J., 1989. The problem-oriented system, problem-knowledge coupling, and clinical decision making. *Phys Ther* 69, 565–568. <https://doi.org/10.1093/ptj/69.7.565>
- Weir, C.R., Hurdle, J.F., Felgar, M.A., Hoffman, J.M., Roth, B., Nebeker, J.R., 2003. Direct text entry in electronic progress notes. An evaluation of input errors. *Methods Inf Med* 42, 61–67.
- Williams, J.C., Andreou, A., Castillo, E.G., Neff, J., Goldenberg, M., Lee, C.R., Aysola, J., Rohrbaugh, R., Isom, J., 2023. Antiracist Documentation Practices - Shaping Clinical Encounters and Decision Making. *N Engl J Med* 389, 1238–1244. <https://doi.org/10.1056/NEJMms2303340>
- Winters, B.D., Cvach, M.M., Bonafide, C.P., Hu, X., Konkani, A., O'Connor, M.F., Rothschild, J.M., Selby, N.M., Pelter, M.M., McLean, B., Kane-Gill, S.L., Society for Critical Care Medicine Alarm and Alert Fatigue Task Force, 2018. Technological Distractions (Part 2): A Summary of Approaches to Manage Clinical Alarms With Intent to Reduce Alarm Fatigue. *Crit Care Med* 46, 130–137. <https://doi.org/10.1097/CCM.0000000000002803>
- Wong, A., Wright, A., Seger, D.L., Amato, M.G., Fiskio, J.M., Bates, D., 2017. Comparison of Overridden Medication-related Clinical Decision Support in the Intensive Care Unit between a Commercial System and a Legacy System. *Appl Clin Inform* 8, 866–879. <https://doi.org/10.4338/ACI-2017-04-RA-0059>
- Woods, S.S., Schwartz, E., Tuepker, A., Press, N.A., Nazi, K.M., Turvey, C.L., Nichol, W.P., 2013. Patient experiences with full electronic access to health records and clinical notes through the My HealtheVet Personal Health Record Pilot: qualitative study. *J Med Internet Res* 15, e65. <https://doi.org/10.2196/jmir.2356>
- Wright, A. (Ed.), 2014. *Clinical Problem Lists in the Electronic Health Record*, 1st edition. ed. Apple Academic Press.
- Wright, A., Ai, A., Ash, J., Wiesen, J.F., Hickman, T.-T.T., Aaron, S., McEvoy, D., Borkowsky, S., Dissanayake, P.I., Embi, P., Galanter, W., Harper, J., Kassakian, S.Z., Ramoni, R., Schreiber, R., Sirajuddin, A., Bates, D.W., Sittig, D.F., 2018a. Clinical decision support alert malfunctions: analysis and empirically derived taxonomy. *J Am Med Inform Assoc* 25, 496–506. <https://doi.org/10.1093/jamia/ocx106>
- Wright, A., Ash, J.S., Aaron, S., Ai, A., Hickman, T.-T.T., Wiesen, J.F., Galanter, W., McCoy, A.B., Schreiber, R., Longhurst, C.A., Sittig, D.F., 2018b. Best practices for preventing malfunctions in rule-based clinical decision support alerts and reminders: Results of a Delphi study. *Int J Med Inform* 118, 78–85. <https://doi.org/10.1016/j.ijmedinf.2018.08.001>

- Wright, A., Feblowitz, J.C., Pang, J.E., Carpenter, J.D., Krall, M.A., Middleton, B., Sittig, D.F., 2012. Use of order sets in inpatient computerized provider order entry systems: a comparative analysis of usage patterns at seven sites. *Int J Med Inform* 81, 733–745. <https://doi.org/10.1016/j.ijmedinf.2012.04.003>
- Wright, A., Hickman, T.-T.T., McEvoy, D., Aaron, S., Ai, A., Andersen, J.M., Hussain, S., Ramoni, R., Fiskio, J., Sittig, D.F., Bates, D.W., 2016. Analysis of clinical decision support system malfunctions: a case series and survey. *J Am Med Inform Assoc* 23, 1068–1076. <https://doi.org/10.1093/jamia/ocw005>
- Wright, A., McEvoy, D.S., Aaron, S., McCoy, A.B., Amato, M.G., Kim, H., Ai, A., Cimino, J.J., Desai, B.R., El-Kareh, R., Galanter, W., Longhurst, C.A., Malhotra, S., Radecki, R.P., Samal, L., Schreiber, R., Shelov, E., Sirajuddin, A.M., Sittig, D.F., 2019. Structured override reasons for drug-drug interaction alerts in electronic health records. *J Am Med Inform Assoc* 26, 934–942. <https://doi.org/10.1093/jamia/ocz033>
- Wright, A., Nelson, S., Rubins, D., Schreiber, R., Sittig, D.F., 2022. Clinical decision support malfunctions related to medication routes: a case series. *J Am Med Inform Assoc* 29, 1972–1975. <https://doi.org/10.1093/jamia/ocac150>
- Wright, A., Sittig, D.F., McGowan, J., Ash, J.S., Weed, L.L., 2014. Bringing science to medicine: an interview with Larry Weed, inventor of the problem-oriented medical record. *J Am Med Inform Assoc* 21, 964–968. <https://doi.org/10.1136/amiajnl-2014-002776>
- Wright, A., Wright, A.P., Aaron, S., Sittig, D.F., 2018c. Smashing the strict hierarchy: three cases of clinical decision support malfunctions involving carvedilol. *J Am Med Inform Assoc* 25, 1552–1555. <https://doi.org/10.1093/jamia/ocy091>
- Zhou, L., Blackley, S.V., Kowalski, L., Doan, R., Acker, W.W., Landman, A.B., Kontrient, E., Mack, D., Meteer, M., Bates, D.W., Goss, F.R., 2018. Analysis of Errors in Dictated Clinical Documents Assisted by Speech Recognition Software and Professional Transcriptionists. *JAMA Netw Open* 1, e180530. <https://doi.org/10.1001/jamanetworkopen.2018.0530>
- Zuccotti, G., Maloney, F.L., Feblowitz, J., Samal, L., Sato, L., Wright, A., 2014. Reducing risk with clinical decision support: a study of closed malpractice claims. *Appl Clin Inform* 5, 746–756. <https://doi.org/10.4338/ACI-2014-02-RA-0018>