



2021 Election for Board Director

Candidate

S. Trent Rosenbloom, MD, MPH, FACMI, FAMIA

Professional Title And Affiliation

Vice Chair of Faculty Affairs & Professor, Department of Biomedical Informatics
Director, Clinical Effectiveness Research for VHAN
Director, My Health at Vanderbilt
Associate Director, Medical Innovators Development Program
Professor, Internal Medicine and Pediatrics
Professor, School of Nursing
Vanderbilt University Medical Center

Personal Statement

Dr. Rosenbloom has become a nationally recognized investigator and leader in the field of health information technology evaluation, demonstrating a clear commitment to AMIA and its goals. His research has focused on evaluating health information technologies, with an emphasis on studying patient engagement technologies, clinical documentation and interface terminologies. Dr. Rosenbloom has been committed to AMIA throughout his career, serving on the Board of Directors, regularly participating in symposia, on AMIA committees and in AMIA Policy Meetings. In addition, he has spent substantial effort contributing to the success of the field in other ways, including participation in national committees and study sections, and mentoring the next generation of informaticists. His high impact publications, excellent interpersonal skills, and thoughtful approach to science have allowed him to achieve national recognition as a biomedical informatics investigator, leader and advocate.

Informatics Interests

Dr. Rosenbloom's primary research interests involve studying how patients, families and healthcare providers interact with health information technologies, in particular when interacting with patient portals, when making clinical decisions. This involves evaluating patient portals, clinical documentation systems, specialized interface terminologies. Based on this interest, Dr. Rosenbloom directs Vanderbilt's patient portal, which is actively used by over 800,000 users and is one of the oldest continuously active patient portals in use around the world. This portal is central to Vanderbilt's strategies around patient engagement, telehealth, and bridging the gaps in care for underserved and diverse patient populations in the greater Nashville region.

AMIA Engagement and Participation

Since joining AMIA in 2000, Dr. Rosenbloom has served in numerous leadership roles. He has served on the AMIA Board of Directors since 2019. He has participated in two Scientific Program Committees for the annual Fall Symposium and been a vice chair for a third; served on the Editorial Board for the Journal of the American Medical Informatics Association (JAMIA) and as a member of the AMIA Journal and Publications Committee; participated in Six AMIA national Health Policy Meeting Committees; participated in the 2010 search committee for the JAMIA Editor in Chief; and, been involved in a Working Group on Unintended Consequences. Dr. Rosenbloom also represented AMIA in testifying at the US Office of the National Coordinator Health Information Technology Policy Meaningful Use and Certification / Adoption Workgroups Clinical Documentation hearing in 2/2013, and as part of a Joint AMIA / AHIMA Capitol Hill briefing: "Unlocking Patient Data—Pulling the Linchpin of Data Exchange and Patient Empowerment". Dr. Rosenbloom has served as a Guest Editor for Special Issues of JAMIA focusing on person-generated health data and clinical burnout, and was selected as a finalist in the most recent search for the new JAMIA Editor in Chief. Dr. Rosenbloom has attended nearly every AMIA Fall Symposium since joining the organization. As a result of his leadership and service to AMIA, Dr. Rosenbloom received the competitive AMIA New Investigator Award in 2009, was elected to the American College of Medical Informatics (ACMI) in 2011, and a Fellow of AMIA (FAMIA) in 2020. Last, Dr. Rosenbloom was a co-Chair on the NIH-Funded "25 by 5 Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025", which was jointly led with AMIA.

Participation in other organizations

Dr. Rosenbloom has actively participated in numerous professional organizations, including a member of the HL7 Pediatric Data Special Interest Group, the American Academy of Pediatrics' Council on Clinical Information Technology, and as an American Academy of Pediatrics Electronic Translation of Academy Clinical Content Initiative (eTACC) Member. In addition, he has participated in over 30 standing and ad hoc study sections for the National Library of Medicine, the Agency for Healthcare Research and Quality, the Patient Centered Outcomes Institute, the Department of Defense, and the National Science Foundation. Dr. Rosenbloom has reviewed for and participated in editorial boards for numerous medical and informatics journals, and been an Associate Editor for the International Journal of Medical Informatics. Dr. Rosenbloom has served as a Director on several Boards of Directors and medical committees, including at his synagogue, his children's schools and the Vanderbilt Hillel.

Education and Experience

Northwestern University, 6/1992 – BA with honors, Religion
Vanderbilt University Medical School, 5/1996 - MD, Medicine
Vanderbilt University Medical School, 12/2001 - MPH, Public Health

Recent Publications

In total, Dr. Rosenbloom has been a lead author or a coauthor on over 100 publications in the field, including patient engagement technologies, evaluations of interface terminologies, clinical

documentation systems, decision support systems and pediatric growth charts integrated into electronic health record systems. These are a select few.

Rosenbloom ST, Brown SH, Froehling DA, Bauer BA, Wahner-Roedler DL, Gregg WM, Elkin PL. Using SNOMED CT to Represent Two Interface Terminologies. *J Am Med Inform Assoc.* 2009 Jan-Feb;16(1):81-8. [PMCID: PMC2605600]

Rosenbloom ST, McGregor TL, Chen Q, An AQ, Hsu S, Dupont WD. Specialized Pediatric Growth Charts For Electronic Health Record Systems: the example of Down syndrome. Accepted, Proceedings of the AMIA Annual Symposium 2010.

Cusack CM, Hripcsak G, Bloomrosen M, Rosenbloom ST, Weaver CA, Wright A, Vawdrey DK, Walker J, Mamykina L. The future state of clinical data capture and documentation: a report from AMIA's 2011 Policy Meeting. *J Am Med Inform Assoc.* 2013 Jan 1;20(1):134-40. doi: 10.1136/amiajnl-2012-001093. Epub 2012 Sep 8.

Middleton B, Bloomrosen M, Dente MA, Hashmat B, Koppel R, Overhage JM, Payne TH, Rosenbloom ST, Weaver C, Zhang J. Enhancing patient safety and quality of care by improving the usability of electronic health record systems: recommendations from AMIA. *J Am Med Inform Assoc.* 2013 Jan 25. PMID: 23355463.

Rosenbloom ST, Miller RA, Adams P, Madani S, Khan N, Shultz EK. Implementing an Interface Terminology for Structured Clinical Documentation. *J Am Med Inform Assoc.* 2013 Feb 5. PMID: 23384817

Rosenbloom ST, Harris P, Pulley J, Basford M, Grant J, Dubuisson A, Rothman RL. The Mid-South Clinical Data Research Network. *J Am Med Inform Assoc.* 2014 Jul;21(4):627-32. doi: 10.1136/amiajnl-2014-002745. Epub 2014 May 12. PMID: 24821742

Brennan PF, Valdez R, Alexander G, Arora S, Bernstam EV, Edmunds M, Kirienko N, Martin RD, Sim I, Skiba D, Rosenbloom ST. Patient-centered care, collaboration, communication, and coordination: a report from AMIA's 2013 Policy Meeting. *J Am Med Inform Assoc.* 2014 Oct 30. pii: amiajnl-2014-003176. doi: 10.1136/amiajnl-2014-003176.

Turer RW, Zuckowsky TD, Causey HJ, Rosenbloom ST. ICD-10-CM Crosswalks in the primary care setting: assessing reliability of the GEMs and reimbursement mappings. *J Am Med Inform Assoc.* 2015 Feb 8. pii: ocu028. doi: 10.1093/jamia/ocu028. PMID: 25665703

Rosenbloom ST, Carroll RJ, Warner JL, Matheny ME, Denny JC. Representing Knowledge Consistently Across Health Systems. *Yearb Med Inform.* 2017 Aug;26(1):139-147. doi: 10.15265/IY-2017-018. Epub 2017 Sep 11. PMID: 29063555.

Cronin RM, Davis SE, Shenson JA, Chen Q, Rosenbloom ST, Purcell Jackson G. Growth of Secure Messaging Through a Patient Portal as a Form of Outpatient Interaction across Clinical

Specialties. Appl Clin Inform. 2015 Apr 29;6(2):288-304. doi: 10.4338/ACI-2014-12-RA-0117. eCollection 2015. PMID: 26171076.

Rosenbloom ST. Person-generated Health and Wellness Data for Health Care. J Am Med Inform Assoc. 2016 May;23(3):438-9. DOI: 10.1093/jamia/ocw059. PMID: 27288293.

Steitz BD, Wong JIS, Cobb JG, Carlson B, Smith G, Rosenbloom ST. Policies and Procedures Governing Patient Portal Use at an Academic Medical Center. JAMIA Open. 2019 Oct 24;2(4):456-464. DOI: 10.1093/jamiaopen/ooz058. PMID: 32025642.

Patel PD, Cobb J, Wright D, Turer R, Jordan T, Humphrey A, Kepner AL, Smith G, Rosenbloom ST. Rapid Development of Telehealth Capabilities within Pediatric Patient Portal Infrastructure for COVID-19 Care: Barriers, Solutions, Results. J Am Med Inform Assoc. 2020 Apr 17;ocaa065. DOI: 10.1093/jamia/ocaa065. PMID: 32302395.

Sulieman L, Steitz B, Rosenbloom ST. Analysis of Employee and Non-Employee Patient Portal Use at an Academic Medical Center. Appl Clin Inform. 2020; 11(03): 433-441. DOI: 10.1055/s-0040-1713412. PMID: 32557441.

Honors and Awards

- Vanderbilt Physician Scientist Development Award, 2004
- AMIA New Investigator Award, 2009
- Election to the American College of Medical Informatics (ACMI), 2011
- Vanderbilt University Medical Center Above and Beyond Award, 2019
- Election as a Fellow of AMIA (FAMIA), 2020

Evidence of Strategic Thinking/Experience in Activities of AMIA or another non-profit or institution

Dr. Rosenbloom brings experience from over 20 years in in strategic thinking from Vanderbilt and with AMIA. For example, with AMIA, Dr. Rosenbloom developed strategy around and then led several activities related to reducing provider burnout related to clinical documentation burden. This effort stemmed out of Dr. Rosenbloom's early career research on clinical documentation, interface terminologies, and EHR usability. Building off that foundation, Dr. Rosenbloom collaboratively laid out a series of activities to raise awareness, bring together stakeholders and thinkers, and begin to plan actions to reduce documentation burden. These activities included co-Chairing the 2020 ACMI Winter meeting, guest editing a JAMIA special issue, and co-Chairing the NIH-Funded "25 by 5 Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025". Together, this ongoing work has created a multidisciplinary community working to solve the problem of documentation burden, including stakeholders from professional associations with this common goal. Also, as director for the Vanderbilt patient portal, Dr. Rosenbloom works with Vanderbilt's institutional leadership to develop strategy around numerous patient engaging technology initiatives, and then to guide operational teams towards specific measurable goals. This work includes setting and pursuing annual targets for portal enrollment, considering and prioritizing new functionality, aligning

efforts with other institutional priorities, and ensuring ongoing compliance with local policy, and state and federal laws. In the past year, this strategic thinking and leadership involved Dr. Rosenbloom ensuring increasing portal enrollment that reached out to diverse communities as Vanderbilt increased its use of portal-based telehealth, building out policy, procedure, and functionality to accommodate new requirements stemming from the 21st Century Cures Act, and working with institutional leadership to plan new measurable goals for the coming fiscal year.

Contributions to Activities that Support Diversity, Equity, and Inclusion

Dr. Rosenbloom is committed to correcting and bridging gaps that exist in access to healthcare, medical education, and science resulting from diversity in race, religion, gender and sex, and socioeconomic background. He has translated this commitment into concrete activities in his work and personal life. This summary includes four examples. First, Dr. Rosenbloom has served nearly 20 years as the medical director for ConnectUS Health, a Federally Qualified Health Center that provides primary care, pediatric care, and women's healthcare and perinatal services to Nashville's underserved communities, including uninsured and underinsured individuals. ConnectUS serves a large non-English speaking community, including Hispanic and Arabic patients. Second, Dr. Rosenbloom's primary informatics interest focuses on patient-engaging technologies, including patient portals. There is strong evidence that patient portals historically harden the digital divide, which creates an important opportunity for improvement. Dr. Rosenbloom's work in this domain has included efforts to bring patient portal access and use to diverse populations that experience barriers related to language, internet access, and diverse cultural norms such as a preference towards text messaging or use of technologies like WhatsApp. Third, Dr. Rosenbloom has also served in various positions in Vanderbilt School of Medicine's Admissions Committee, and currently serves as a member of the Admissions Leadership Committee and an Associate Director of the school's Medical Innovators Development Program. All admissions activities align with and enact the school's commitment to the acceptance and graduation of a diverse group of trainees of all races, ethnicities, genders, gender identities, sexual orientation, disabilities, all places of geographic origin and the full spectrum of socio-economic status. Fourth, Dr. Rosenbloom serves as one of the few mohelim in Tennessee. A mohel is a religiously and technically trained individual that serves the Jewish community by assisting families adhere to the commandment to provide a safe, ritual circumcision for their sons on the eighth day of life in a nonmedical setting. Dr. Rosenbloom has served the Nashville and surrounding community in this capacity for 23 years.