

## **Robert Eugene Murphy, M.D.**

**PRESENT TITLE:** Associate Dean, Applied Informatics,  
and Associate Professor  
School of Biomedical Informatics  
University of Texas Health Science Center at Houston

**ADDRESS:** 7000 Fannin Street, Suite E710.F  
Houston, TX 77030  
Office: (713) 500-3918  
Cell: (832) 331-5369  
E-mail: [robert.murphy@uth.tmc.edu](mailto:robert.murphy@uth.tmc.edu)

**CITIZENSHIP:** United States of America

### **UNDERGRADUATE EDUCATION:**

Tulane University, 1981-82  
New Orleans, LA

Bachelor of Arts (History), 1982-85  
Rice University  
Houston, TX

### **GRADUATE EDUCATION:**

Doctor of Medicine, 1985-90  
University of Kentucky College of Medicine  
Lexington, KY

### **POSTGRADUATE TRAINING:**

Residency, Emergency Medicine, 1990-93  
Henry Ford Hospital  
Detroit, MI

Course/Fellow, Medical Informatics, 2004  
National Library of Medicine/Marine Biological Laboratory  
Woods Hole, MA

## **ACADEMIC & ADMINISTRATIVE APPOINTMENTS**

Medical Director, Emergency Services, 1998-2002  
Physician Consultant, Medical Informatics, 2001-02  
Director, Medical Informatics, 2002-04  
Associate Vice President & Chief Medical Informatics Officer, 2004-05  
Norton Healthcare System  
Louisville, KY

Assistant Clinical Professor, 1998-2006  
Department of Emergency Medicine  
University of Louisville School of Medicine  
Louisville, KY

Medical Director, Information Systems, 2005-08  
Chief Medical Informatics Officer, 2008-14  
Chief Health Informatics Officer, 2014-15  
Consulting Medical Informaticist, 2015-present  
Memorial Hermann Health System  
Houston, TX

Adjunct Assistant Professor, 2005-10  
Adjunct Associate Professor, 2010-15  
Associate Professor, 2015-present  
Associate Dean, Applied Informatics, 2016-present  
School of Biomedical Informatics  
University of Texas Health Science Center at Houston  
Houston, TX

Coordinating Center Director, June 2016-2017  
Director, Vizient Inpatient Quality Collaborative, 2017-present  
University of Texas Health Intelligence Platform (UT-HIP)  
University of Texas System  
Houston, TX

## **HOSPITAL APPOINTMENTS**

Staff Physician, 1993-96  
Acute Care Specialists  
Louisville, KY

Attending Physician, 1993-2002  
Department of Emergency Medicine  
Norton Audubon Hospital (formerly Humana Audubon Regional Medical Center)  
Louisville, KY

Staff Physician, 1997-99  
Assistant Medical Director, 1997  
Medical Director 1998-99  
Louisville Emergency Physicians  
Louisville, KY

Attending Physician, 1997-2002  
Section Chairman, 1998-2002  
Department of Emergency Medicine  
Norton Hospital  
Louisville, KY

Staff Physician, 1999-2002  
Regional Medical Director, 1999-2002  
Kentuckiana Emergency Physicians  
Louisville, KY

Attending Physician, 1999-2002  
Department of Emergency Medicine  
Norton Southwest Hospital  
Louisville, KY

## **LICENSURE**

Medical License, Kentucky Board of Medical Licensure, # 29956, 1993-present  
Administrative Medicine License, Texas Medical Board, # 568280, 2013-present

## **CERTIFICATION**

American Board of Emergency Medicine, 1994, 2003

## **PROFESSIONAL ORGANIZATIONS**

### **Regional**

Jefferson County Medical Society, 1993-2005

- Chair, Mini-Internship Committee 2000-01
- Member, EMS Committee 1997-2002

Kentucky Medical Association, 1993-2005

Harris County Public Health Task Force

- Information Technology Committee, 2004-05

### **National**

American College of Emergency Physicians, 1990-2002; 2010-14

- Fellow 1996-2005, 2010-14
- Member, Michigan Chapter 1990-1993
- Member, Kentucky Chapter 1993-2002
- Secretary/Treasurer, Kentucky Chapter 1999
- Member, Texas Chapter 2010-14

Healthcare Information Management and Systems Society, 2000-present

- Member, CDS Task Force 2004-12

American Medical Informatics Association, 2000-present

- Reviewer, AMIA Annual Symposium 2009-10; 2013-present
- Clinical Information Systems Workgroup, 2005-present
- People and Organizational Issues Workgroup, 2005-present
- Clinical Decision Support Workgroup, 2015-present

American Health Information Management Association, 2003-present

American Medical Directors of Information Systems, 2006-2016

## **HONORS AND AWARDS**

### **Personal**

Modern Healthcare Top 25 Clinical Informaticists, 2010

Modern Healthcare Top 25 Clinical Informaticists, 2011

Modern Healthcare Top 25 Clinical Informaticists, 2012

Memorial Hermann Physician Network Lifetime Service Award, 2015

### **Committees**

*CDS Oversight Committee (Chair)*

Memorial Hermann Breakthrough of the Quarter--Quality (System Services): "Reducing Inappropriate Erythropoietin Stimulating Agents Usage with Clinical Decision Support," 2008

Memorial Hermann Breakthrough of the Year—Quality: "CDS Good Catches: Reducing Medical Errors with Clinical Decision Support," 2010

*e-Ordering Editorial Board (Chair)*

Memorial Hermann Physician Network High Impact Award, 2012

Memorial Hermann Physician Network High Impact Award, 2013

Memorial Hermann Physician Network High Impact Award, 2014

**Hospitals**

*Memorial Hermann Katy Hospital*

*Memorial Hermann Sugar Land Hospital*

*Memorial Hermann Southeast Hospital*

HIMSS Analytics Stage 6 EMR Adoption Model, 2011

*Children's Memorial Hermann Hospital*

*Memorial Hermann Memorial City Hospital*

*Memorial Hermann Northwest Hospital*

*Memorial Hermann Hospital-Texas Medical Center*

*Memorial Hermann TIRR Hospital*

HIMSS Analytics Stage 6 EMR Adoption Model, 2012

**SERVICE TO THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON COMMITTEES**

Search Committee, Chief Medical Informatics Officer, 2015

Search Committee, Vice President and Chief Information Officer, 2018

Co-Chair, Joint Memorial Hermann/UTHealth Task Force on Research and Quality Data Analytics, 2018

Search Committee, Chief Information Officer, 2019

Search Committee, Chief Medical Informatics Officer, 2019

Search Committee. Physician Informaticist, 2020

**SERVICE TO THE SCHOOL OF BIOMEDICAL INFORMATICS COMMITTEES**

Admissions, Progression and Graduation Committee, 2015-17, 2018-19

Non-tenure Track Faculty Search Committee, 2015-16

Tenure Track Faculty Search Committee, 2015-16

Student Fee Advisory Task Force, 2015

School of Biomedical Informatics Executive Committee, 2016-present

Search Committee, Executive Director, University of Texas Clinical Data Network, 2016

Bylaws Committee, 2017-18  
Scholarship Committee, 2017-present

## **SERVICE TO OTHER PROFESSIONAL ORGANIZATIONS**

### University of Kentucky College of Medicine

- (Founding) Editor, Orientation Handbook for First Year Students, 1988-90
- Member, Orientation Committee, 1988-90

### Henry Ford Hospital

- Secretary/Treasurer, House Staff Council, 1991-92
- President, House Staff Council, 1992-93
- (Resident) Member, Graduate Medical Executive Committee, 1992-93

### Audubon Regional Medical Center

- Chair, Code 300 Committee, 1995-96

### Norton Hospital

- Member, Medical Executive Committee, 1997-2002
- Secretary/Treasurer, Medical Executive Committee, 2000
- Chair, EMTALA Task Force, 1998-1999
- Chair, Resuscitation Committee, 1998-2000
- Member, Medical Care Appraisal Committee, 1998-2000
- Member, Cardiac & Critical Care Committee, 1998-2001
- Member, Ethics Committee, 2000-02

### Norton Healthcare

- Member, System Medical Executive Committee, 2000-05
- Co-Chair, Clinical Information System Selection Committee, 2000
- Member, NortonLINK Executive Steering Committee, 2003-05
- Chair, Physician IT Advisory Committee, 2003-05
- Chair, Norton Web Council, 2004-05
- Member, CME Committee, 2002-05

### Memorial Hermann Healthcare System

- Member, Clinical Information Systems Executive Council, 2005-10
- Member, Advanced Care4 Workgroup, 2005-15; Co-Chair, 2011-12
- Member, Memorial Hermann Physician Network [MHMD] Clinical Programs Committee, 2005-15
- Chair, MHMD System Medical Informatics Committee, 2005-15
- Member, Quality & Patient Safety Council, 2005-15
- Chair, Clinical Decision Support Oversight Committee, 2006-15; Member, 2015-2018

- Member, eOrdering Steering Committee, 2007-10
- Member, Clinical Informatics Steering Committee, May 2009-15
- Member, FirstNet Steering Committee, 2009-10
- Chair, MHMD eOrdering Editorial Board, 2009-15
- Member, Health Information Technology Committee, 2011-15
- Member, ISD Investment Council, 2011-15
- Member, ICD-10 Steering Committee, 2011-15
- Member, Security and Privacy Executive Council, 2011-15
- Member, MHMD eDocumentation Editorial Board, 2012-15

## **SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREES**

### **Graduates with Master's Degree in Health Informatics**

Michelle Scerzbo, Spring 2016  
 Xiaochan Zhang, Spring 2016  
 Ky Nguyen, Fall 2017  
 Dinesh Banjara, Spring 2017  
 Edward Elms, Spring 2018  
 Irene Marron, Spring 2018  
 Johanna Morton, Spring 2018  
 Michelle Pelham, Spring 2018

### **Candidates for Master's Degree in Health Informatics**

Rory Letvin, Spring 2016-Spring 2018  
 Saad Mahmood, Fall 2016-present  
 Vikas Mandadi, Fall 2016-present  
 Jason Buchanan, Spring 2017-present  
 Steven Pham, Spring 2017-present  
 Agnita Manoharan, Fall 2017-present  
 Shreyas Bhavsar, Fall 2017-present  
 Michael James Martin, Spring 2018-present  
 Dennis Felix Mejia, Spring 2018-present  
 Clara Elena Monsivais, Spring 2018-present  
 Katelin Muse, Spring 2018-present  
 Vi Thug Nguyen, Spring 2018-present  
 Michael James Martin, Summer 2018-present  
 Alexander Powers, Fall 2018-present  
 Yolanda Pizano, Fall 2018-present  
 Irene Kerubo Otachi, Spring 2019-present  
 Ankita Pondichetty, Spring 2019-present  
 Jooby Joy, Summer 2019-present  
 Bryan Martinez, Summer 2019-present

### **Graduates with Doctor of Philosophy in Health Informatics**

*Member of Faculty Advisor Committee*

Kang Lin Hsieh, Fall 2015-Spring 2019

### **Candidates for Doctor of Philosophy in Health Informatics**

*Member of Faculty Advisor Committee*

Roni Matin, Fall 2016-present

### **Candidates for Doctorate in Health Informatics**

*Chair Faculty Advisor Committee*

Joseph Bridges, Fall 2019-present

Kathleen de Figueiredo, Fall 2019-present

Jerry Cade, Fall 2019-present

## **TEACHING RESPONSIBILITIES**

### **University of Texas Health Science Center at Houston, School of Biomedical Informatics**

Instructor, (HI 6001) Applied Clinical Decision Support, Summer 2008

Lecturer, (HI 6001) Health Information Technology for Patient Safety and Quality, Spring 2009

Instructor, (HI 6001) Applied Clinical Decision Support, Summer 2009

Lecturer, (HI 6001) Health Information Technology for Patient Safety and Quality, Spring 2010

Instructor, (HI 6001) Introduction to Applied Clinical Decision Support, Summer 2010

Lecturer, (HI 6001) Advanced EHR Analytics, Spring 2011

Instructor, (HI 6001) Special Topics in Health Informatics: Change Management, Fall 2015

Instructor, (HI 6315) Advanced Electronic Health Records, Spring 2016

Instructor, (HI 6316) Change Management for Health Informatics, Fall 2016

Lecturer, (HI 5001) Foundations of Health Informatics, Fall 2016

Lecturer, (HI 5001) Foundations of Health Informatics, Spring 2017

Instructor, (BMI 6316) Change Management for Health Informatics, Fall 2017

Lecturer, (BMI 5001) Foundations of Health Informatics, Fall, 2017

Lecturer, (BMI 5001) Foundations of Health Informatics, Spring 2018

Lecturer, (BMI 5001) Foundations of Health Informatics, Fall 2018

Instructor, (BMI 6316) Change Management in Health Informatics, Spring 2018

Instructor, (BMI 6316) Change Management in Health Informatics, Spring 2019

Lecturer, (BMI 5001) Foundations of Health Informatics, Spring 2019

Lecturer, (PH 3941) Claims Data in Healthcare Research, Spring 2019

Lecturer, (PHD 3846) Quality Management and Improvement in Healthcare, Spring 2019

Instructor, (BMI 6316) Change Management in Health Informatics, Fall 2019

Lecturer, (BMI 5001) Foundations of Health Informatics, Fall 2019



Lecturer, (BMI 7302) Theories and Frameworks for Biomedical Informatics Research, Fall 2019

Instructor, (BMI 6316) Change Management in Health Informatics, Spring 2020

Lecturer, (PHD 3846) Quality Management and Improvement in Healthcare, Spring 2020

Lecturer, (BMI 5001) Foundations of Health Informatics, Spring 2020

Adviser, (BMI 6001) Practicum in Biomedical Informatics, Spring 2015-present

Adviser, (BMI 6002) Directed Study in Biomedical Informatics, Spring 2015-present

### **University of Texas Health Science Center at Houston, McGovern Medical School**

Lecturer, Clinical informatics for Clinical Researchers, Spring 2016

Lecturer, Clinical informatics for Clinical Researchers, Summer 2018

### **Rice University, Jesse H. Jones Graduate School of Business**

Lecturer, Rice/Memorial Hermann Physician Executive Course, Spring 2006

Lecturer, Rice/Memorial Hermann Physician Executive Course, Spring 2007

Lecturer, (MGMT 750) Healthcare Informatics, Systems and Management, Spring 2014

Lecturer, (MGMT 750) Healthcare Informatics, Systems and Management, Spring 2015

Lecturer, (MGMT 750) Healthcare Informatics, Systems and Management, Fall 2015

Lecturer, (MGMT 750) Healthcare Informatics, Systems and Management, Fall 2016

Lecturer, (MGMT 750) Healthcare Informatics, Systems and Management, Fall 2017

### **American Medical Informatics Association**

Tutorial Faculty, Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes, 2010-11, 2013-2016

Faculty Participant, CMIO Informatics Workshop, 2011

Tutorial Faculty, Change Management in Health Informatics, 2016-2018

### **Health Information Management Systems Society**

Workshop Faculty, You Can't Have One without the Other: Practical CDS & Quality Improvement, February 20, 2011

## **CURRENT GRANT SUPPORT**

### **University of Texas Health Intelligence Platform (orig. Clinical Data Network)**

University of Texas System Board of Regents

06/01/2016 – 8/31/2019

Total direct costs: \$12,400,000

Role: Coordinating Center Director

The UT-Health Intelligence Platform (UT-HIP) is a key component of the UT Health Care Enterprise Quantum Leap program. The goal of the UT-HIP is to will deliver information and analytics for actionable insights for UT System health institutions to empower improvements in healthcare quality and value.

### **Caregiver Innovations to Reduce Harm in Neonatal Intensive Care**

Agency for Healthcare Research and Quality 1P30HS-24459-01 (PI – Eric Thomas)

09/30/2015 – 8/31/2019

Total direct costs: \$691,291

Role: Co-investigator

The goal of University of Texas at Houston (UTH) Patient Safety Learning Laboratory (UTPSLL) is to create an environment of collaborative learning focused on reducing all-cause preventable harm by 50% in the neonatal intensive care unit (NICU). Five cores of experts in; 1) Robust Process Improvement (methods of Lean, Six Sigma, and change management); 2) electronic health records; 3) parent engagement; 4) patient safety measurement; and 5) project administration and leadership will collaborate with clinician leaders, frontline caregivers, and parents from Memorial Hermann Health System NICUs to reduce all preventable harms.

### **PENDING GRANT SUPPORT (SUBMITTED, PENDING DECISION)**

#### **Open Health Natural Language Processing Collaboratory**

Mayo Clinic (Xiaochian Jiang, PhD)

Total Direct: XXX

#### **Neural Methods for EHR Question Answering**

National Institutes of Health (PI: Kirk Roberts, PhD)

Total Direct: \$275,000

#### **Big Data for Small Diseases: Multi-task Machine Learning for Clinical Prediction**

National Institutes of Health (PI: Kirk Roberts, PhD)

Total Direct: \$1,500,000

### **UNFUNDED GRANT SUPPORT (SUBMITTED, DECISION TO NOT FUND, MAY OR MAY NOT BE RESUBMITTED)**

#### **Integrated likelihood methods for bias correction in EHR based association studies**

National Institutes of Health (PI – Han Chen)

07/01/2017 – 06/30/2021

Total Direct Costs Requested: \$130,000

This project proposes a rigorous analytical framework to effectively leverage all available information on misclassification parameters to incorporate it into integrated likelihood based inference. This approach directly addresses the portability issue of EHR-based phenotyping algorithms while minimizing the need for chart review when they are implemented in new EHR systems

### **Health Services Research Training Program at UTHealth**

AHRQ, T32-Training Grant (PI – Xianglin L. Du)  
7/1/2018 – 6/30/2023  
Total cost over 5 years: \$1,944,660.00

Description: The goal of this T32 training program is to provide high quality training to the next generation of health services researchers with hands-on research experience using state of the art methods. The program aims to train 4 pre-doctoral and 4 post-doctoral trainees per year with each being trained for 1 to 3 years, making a total of 8 pre-doctoral and 8 post-doctoral trainees over the 5-year period.

### **Feasibility of a Telehealth Intervention to Address Racial Disparities In Post-Stroke Blood Pressure Control**

National Institutes of Health (PI – Anjail Sharrief)  
12/1/2018 – 11/30/2020  
Total cost over 5 years: \$423,500.00

Description: Using inpatient and outpatient data within our health system, we will develop and implement a risk tool within the electronic medical record that will identify hospitalized stroke patients at risk for chronically uncontrolled blood pressure. Identified patients who meet additional eligibility criteria will be enrolled in a randomized pilot study comparing a telehealth intervention to usual care. The intervention will entail post-discharge telehealth visits with access to a multidisciplinary team, home blood pressure telemonitoring, and educational messaging around blood pressure control. The multidisciplinary team will include a clinical practitioner, a pharmacist, a social worker, and a nutritionist.

### **PAST GRANT SUPPORT**

None to report.

### **PUBLICATIONS**

#### **A. Referenced Original Articles in Journals**

1. Selvan MS, Sittig DF, Thomas EJ, Arnold C, **Murphy RE**, Shabot MM. Improving erythropoietin stimulating agent administration in a multi hospital system through quality improvement initiatives: A pre-post comparison study. *Journal of Patient Safety*. 2011 Sep;7(3):127-32.
2. Refuerzo JS, Straub H, **Murphy R**, Salter L, Ramen SM, Blackwell SC. Computerized physician order entry reduces medication turnaround time of labor induction agents. *American Journal of Perinatology*. 2011; 28:253-258.
3. Chang R, Hicks RE, Kale AC, **Murphy RE**, Meadows CA, Wade CE, Holcomb JB. High Platelet to Red Blood Cell Transfusion is Associated with Reduced 24-

hour Mortality After Acute Non-Trauma Hemorrhage. SHOCK 2017; 47:6 (Supp. 1):52-53.

## **B. Book Chapters**

1. **Murphy, RE.** First Day. In Young RK (Ed.), A Piece of My Mind: A New Collection of Essays from JAMA-The Journal of the American Medical Association, pp. 3-5. American Medical Association Press: Chicago (2000).

## **C. Other Professional Communications**

### **Published Panel discussion:**

1. Bloomer J, Fisher J, Henderson B, **Murphy RE**, Saunders N, Tedeschi JM. Straight talk--new approaches in healthcare. The road to a digital healthcare community. Panel discussion. Mod Healthc. 2005 Jun 6;35(23):37-40.

### **Published Narrative Essays:**

1. **Murphy RE.** First Day. JAMA. 1989;261(10):1509.
2. **Murphy RE.** First Day. JAMA-Japan Edition. 1989(6):33-34.
3. **Murphy RE.** First Day. JAMA-India Edition. 1989;5(4):426.

### **Contributor:**

1. Osheroff JA, Improving Medication Use and Outcomes with Clinical Decision Support: A Step-by-Step Guide. Chicago: Healthcare Information and Management Society: 2009.

### **Reviewer:**

1. Osheroff JA, Pifer EA, Teich JM, Sittig DF, Jenders RA. Improving Outcomes with Clinical Decision Support: An Implementer's Guide, Chicago: Healthcare Information and Management Society, 2005.

### **Posters and Abstracts:**

1. Selvan M, Peymann P, Malhotra C, Flowers P, Shabot MM, **Murphy RE**. Impact of clinical decision support system on warfarin management. 10th Annual Health Services and Outcomes Research Conference; Houston, TX, December 2, 2009
2. Selvan M, Peymann P, Sirajuddin AM, Brown DR, Court C, **Murphy RE**, Shabot MM. Do synchronous Warfarin/INR Alerts change the behavior of users to reduce the number of patients with high INR receiving Warfarin as well as reduce the overall number of Warfarin/INR alerts? 10th Annual Health Services and Outcomes Research Conference; Houston, TX, December 2, 2009.
3. Selvan M, Sittig DF, Arnold C, Thomas EJ, **Murphy RE**, Shabot MM. Variation between initial response and final clinical action taken for warfarin/INR alerts. 10th Annual Health Services and Outcomes Research Conference; Houston, TX, December 2, 2009
4. Selvan M, Sittig DF, Thomas EJ, Molony D, Shabot MM, **Murphy RE**. Pre-post analysis of clinical and cost outcomes among patients received warfarin following an INR  $\geq 3.5$ . 10th Annual Health Services and Outcomes Research Conference; Houston, TX, December 2, 2009
5. Selvan M, Sittig DF, Thomas EJ, **Murphy RE**, Shabot MM, Arnold C. Utilization of Erythropoiesis Stimulating Agents, Clinical and Cost Outcomes in a Community Hospital System Following Food and Drug Administration Warning and Institutional Quality Improvement Initiatives. 34<sup>th</sup> Annual Symposium of the American Medical Informatics Association, Washington, DC, November 15, 2010.
6. Holzmann-Pazgal G, Selvan M, Sirajuddin A, Monney C, **Murphy RE**. Utilizing Information Systems to Decrease Occupational Exposure to H1N1 Influenza. 2011 Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Dallas TX, April 2, 2011.

### **Major Presentations:**

1. EMTALA: What You Need to Know. Emergency Medicine Grand Rounds, University of Louisville, Louisville, KY, February 2000.

2. Update in Resuscitation. Quarterly Medical Staff Meeting, Norton Hospital, Louisville, KY, January 2001.
3. Critical Care: The Norton CareLINK HCIS Transplant. MEDITECH Physician Informatics Workshop, Boston, MA, October 2003.
4. Critical Care: The Norton CareLINK HCIS Transplant. MEDITECH MIX Road Forum, Louisville, KY, December 2003.
5. Norton Healthcare's EMR Journey. National Alliance for Healthcare Information Technology [NAHIT] Innovators Workshop, Chicago, IL, January 2004.
6. Benefit Realization—Hard, Soft, Tangible and Intangible, NAHIT Annual Meeting, Chicago, IL, June 2004.
7. Breakthroughs Every Day: Creating the Best Possible Clinical Outcomes with Information Technology. Memorial Hermann Health Network Providers PIVOT Conference, Houston, TX, October 2005.
8. Evidence-Based Medicine and the Role of Hospital Medical Staff. Memorial Hermann Medical Executive Committee Retreat, Houston, TX, January 2006.
9. The Physician Executive Team: Roles and Responsibilities in I.T. Adoption. Scottsdale Institute Spring Conference, Scottsdale, AZ, April 2006.
10. The Art and Science of Clinical Systems Implementations, University of Texas School of Health Information Sciences Research Seminar, Houston, TX, June 2006.
11. Rapid Development of Order Sets for CPOE. Cerner Health Conference, Orlando, FL, October 2006.
12. Transforming Care with Medical Informatics. Memorial Hermann Medical Executive Committee Retreat, Houston, TX, February 2007.
13. Transforming Care with Information Systems. Memorial Hermann Board of Directors Retreat, Austin, TX, April 2007.
14. Rapid Development and Ongoing Maintenance of Order Sets for CPOE. Zynx Health Conference, St. Petersburg, FL, May 2007.
15. Governing Clinical Decision Support. Cerner Health Conference, Kansas City, MO, October 2007.
16. ZynxOrder Intensive Session on Cerner Integration. Zynx Health Conference, San Diego, CA, May 2008.
17. Transforming Care with Medical Informatics, Memorial Hermann Northeast Hospital Quarterly Medical Staff Meeting, Humble, TX, May 2009.
18. Computerized Provider Order Entry. Memorial Hermann Southeast Hospital Quarterly Medical Staff Meeting, Houston, TX, May 2010.
19. The Art and (Imperfect) Science of Applied Medical Informatics at Memorial Hermann, University of Texas School of Biomedical Informatics Research Seminar, Houston, TX, January 11, 2012.
20. Health IT and Patient Safety: Risks and Benefits with CPOE. Memorial Hermann The Woodlands General Medical Staff Meeting, The Woodlands, TX, April 3, 2012.
21. Why Are We Doing This? Developing a Vision to Realize Potential Benefits, Cerner-Australia Conference on "Clinical Leadership through the EMR Journey," Melbourne, VIC, Australia, December 4, 2012

22. Supporting High Reliability Healthcare with Informatics. Clinical Excellence Commission, New South Wales Health, Sydney, NSW, Australia. December 6, 2012
23. One Record, One Patient: Using the EHR to Support Patient-Centered, High Reliability Healthcare. Senior Executive Forum, New South Wales Health, Sydney, NSW, Australia. December 7, 2012.
24. Cloud-enabled Clinical Decision Support at Memorial Hermann Health System. University of Texas School of Biomedical Informatics Research Seminar, Houston, TX, January 8, 2014.
25. Advancing Quality Outcomes: 2014 Major Health IT Programs. Memorial Hermann Hospital-Texas Medical Center Quarterly Medical Staff Meeting, Houston, TX, March 4, 2014.
26. Research and Analytics with Clinical Decision Support. Sydney/Southwest Sydney Local Health District, NSW, Australia. Royal Prince Alfred Hospital, July 20, 2015. Liverpool Hospital, July 21, 2015.
27. Clinical Leadership in Information Systems Governance. Sydney/Southwest Sydney Local Health District, NSW, Australia. Royal Prince Alfred Hospital, July 20, 2015. Liverpool Hospital, July 21, 2015.
28. Research and Analytics with Clinical Decision Support. New South Wales eHealth Commission, NSW, Australia. July 22, 2015.
29. Advancing Health with Medical Informatics. Seminar Series, Australia Institute for Healthcare Innovation, Macquarie University, Sydney, NSW, Australia, July 29, 2015.
30. Improving Quality and Patient Safety with Medical Informatics, New South Wales Health Clinical Excellence Commission, Sydney, NSW, Australia, July 30, 2015.
31. Advancing Health with Medical Informatics. New South Wales Agency for Clinical Innovation, Sydney, NSW, Australia, July 31, 2015.
32. Big Data: Bigger is Not Always Better. Medicine, Energy, Space and Technology (MEST), 2015 Conference, Houston, TX, September 14, 2015.
33. Saving Lives, Saving Healthcare: How Biomedical Informatics is Transforming Healthcare. University of Texas Health Science Center at Houston School of Biomedical Informatics Advisory Council, Houston, TX, February 27, 2017. With Bela Patel, MD.
34. Leading Change: Idea to Implementation. Clinical Nutrition Management DPG Symposium, St. Petersburg, FL, March 21, 2017. With Lynn Moore, RD
35. Saving Lives, Saving Healthcare: How Biomedical Informatics is Transforming Healthcare. University of Texas Health Science Center at Houston Development Board Spring Meeting, Houston, TX, April 4, 2017. With Bela Patel, MD.
36. Saving Lives, Saving Healthcare: How Biomedical Informatics is Transforming Healthcare. River Oaks Breakfast Club, Houston, TX, May 11, 2017.
37. Saving Lives, Saving Healthcare: How Biomedical Informatics is Transforming Healthcare. Kiwanis Club of Houston, Houston, TX, May 25, 2017.
38. Get to Green: A FHIR-enabled application for ventilator weaning using Cerner Ignite API. Cerner Health Conference 2017, Kansas City, MO, October 10, 2017. With Lee Ann Kincaid, MHA.

39. Managing Clinical Decision Support to Improve Quality and Patient Safety. OneConnect Grand Rounds. University of Texas M.D. Anderson Cancer Center, Houston, TX, January 11, 2018.
40. Setting FHIR to Interoperability. Swedish Education Session: Secure Implementation of eHealth Services and Solutions. HIMSS Annual Conference & Exhibition, Las Vegas, NV, March 5, 2018.
41. Helping Effect Change from Any Position in the Organization. UTHealth 2019 Advances in Teaching and Learning Day Conference, Houston TX, June 14, 2019.

### **Panels:**

1. CIO Leaders Panel: Perspective on Care Delivery. 14<sup>th</sup> Annual Spring Conference, Scottsdale Institute, Scottsdale, AZ, April 2007.
2. Efficient Cost Effective Care. 16<sup>th</sup> Annual Spring Conference, Scottsdale Institute, Scottsdale, AZ, September 2009.
3. Getting Clinical Decision Support Right: Best Practices and Perspectives from Quality Leaders and ONC. Healthcare Information Management Systems Society 2010 Annual Conference & Exhibition, Atlanta, GA, February 2010.
4. Structuring Care Recommendations for Broad Use in Clinical Decision Support: Implications of an AHRQ Project for Information System Vendors & Implementers, CDS researchers & Developers. 34<sup>th</sup> Annual Symposium of the American Medical Informatics Association, Washington DC, November 15, 2010.
5. The Relevance of Informatics to the CMIO. 34<sup>th</sup> Annual Symposium of the American Medical Informatics Association, Washington DC, Washington, DC, November 16, 2010.
6. Getting Clinical Decision Support Right: Best Practices and Perspectives from Quality Leaders and ONC. Healthcare Information Management Systems Society 2011 Annual Conference & Exhibition, Orlando, FL, February 2011.
7. Information Technology to Improve Quality and Decrease Costs. MIT Enterprise Forum of Texas, Houston, TX, April 20, 2011. Moderator.
8. Building an Infrastructure to Become Accountable for Care. 19<sup>th</sup> Annual Spring Conference, Scottsdale Institute, Scottsdale, AZ, April 19, 2012.
9. Clinical Decision Support: Improving Care and Outcomes. 11<sup>th</sup> Annual Fall Forum, Scottsdale Institute, Houston TX, October 25, 2012.

### **Web Conferences:**

1. Developing and Maintaining Order Sets for CPOE. Zynx Health Webinar, May 2008.
2. Are We Making a Difference? Measuring Impact of CDS at Memorial Hermann. Scottsdale Institute Web Conference, October 20, 2009. With Siraj Anwar, MBBS, MS.
3. Implementing CDS Rules with Structured Care Recommendations (eRecommendations). Scottsdale Institute Web Conference, March 28, 2011. With Jerry Osheroff, MD, and Eboni Price-Haywood, MD, MPH.



4. Delivering Standardized Evidence-Based Practice to Improve Quality and Contain Costs. HIMSS Webinar, November 21, 2013.

#### **Workshops/Workgroups:**

1. Reporting and Investigating Health IT-related Patient Safety Events, Institute of Medicine, Washington, DC, March 20-21, 2012
2. Technical Workgroup on Venous Thromboembolism and Pulmonary Embolism, National Health Safety Network, Center for Disease Control, 2012.
3. Evidence-Based Change Management: Classic Techniques for Modern Times. Texas Health Information Management Association 2017 Annual Conference, Frisco, TX, June 28, 2017.

#### **EDITORIAL ACTIVITIES**

##### **Ad Hoc Reviewer**

Journal of Health Affairs, 2013

AMIA Annual Symposium, 2008-09; 2013-present

Journal of the American Medical Informatics Association (JAMIA), 2013, 2015-present