

CURRICULUM VITAE
Francis Miller Fesmire, M.D.
August 31, 2010

BIRTHDAY: November 16, 1959; Atlanta, GA

EDUCATION:

High School:

The Baylor School, Chattanooga, TN, August 1972-June 1978

Undergraduate:

Harvard University, September 1978-June 1981, BA degree

Major: Biology

Senior Thesis: "The effects of phorbol ester tumor promoters on the immune system"

Medical School:

Vanderbilt University, August 1981-May 1985, MD degree

Internship:

Internal Medicine, University Hospital, Jacksonville Health Education Program and the University of Florida College of Medicine, July 1985-June 1986

Residency:

Emergency Medicine, University Hospital, Jacksonville Health Education Program and the University of Florida College of Medicine, July 1986-June 1988

HONORS:

Valedictorian, National Merit Finalist, The Baylor School, 1978

Magna Cum Laude, Harvard University, 1981

Outstanding Emergency Medicine Resident Award, University Hospital, 1988

Young Investigator Award, Emergency Medicine Foundation, 1996

Ig Nobel Prize for Medicine 2006

Hero of Emergency Medicine, American College of Emergency Physicians, 2008

BOARD CERTIFICATION:

Diplomat American Board Emergency Medicine, Dec 8, 1989; recertified Dec 31, 1999; recertified Oct 20, 2009; Current Board Certification expires Dec 21, 2019.

MEDICAL LICENSURE:

Tennessee, ME MDO18842; issued June 23, 1988, active

SOCIETY MEMBERSHIPS:

American College of Emergency Physicians 1986-Present

Society of Chest Pain Centers 1993-Present

American Medical Association 1988-1992

Southern Medical Society 1994-1996, 2002-2005

UNIVERSITY APPOINTMENTS:

Associate Professor, UT College of Medicine, 2005-present

Director of Research, Emergency Medicine Residency, UT College of Medicine, 2008-present

Core Faculty, Emergency Medicine Residency, UT College of Medicine, 2008-present
 Clinical Instructor Emergency Medicine, UT College of Medicine, 1992–present
 Clinical Assistant Professor, UT College of Medicine, 1997-2005

HOSPITAL AND REGIONAL APPOINTMENTS:

Medical Director, Chest Pain Center, Erlanger Medical Center, September 1998-present
Member, Emergency Medicine Quality Improvement Committee, Erlanger Medical Center, 2001-present
Member, Cardiac Quality Improvement Committee, Erlanger Medical Center 2003-present
Member, Scientific Review Committee, UT Chattanooga College of Medicine, 2007-present
Board of Directors, American Heart Association, Chattanooga Chapter, 1996-1998
Member, Ethics Committee, Erlanger Medical Center, 1997-1999
Member, Cardiac Council, Erlanger Medical Center, 1998-present
Interim Medical Director, Emergency Department, Erlanger Medical Center, August, 1998-September, 1998
Member, Pharmacy and Therapeutics Committee, Erlanger Medical Center, 2000-2002

PRACTICE (PROFESSIONAL) EXPERIENCE:

Erlanger Medical Center, Attending Emergency Physician, July 1991-Present
 Memorial Hospital, Attending Emergency Physician, June 1988-June 1991

TEACHING EXPERIENCE:

Clinical Instructor in Emergency Medicine, July 1991-Present, Supervise rotating resident, medical students, and PA students in clinical practice of emergency medicine

NATIONAL COMMITTEES AND OFFICES HELD:

Member, ACEP's Chest Pain Clinical Policy Writing Subcommittee, 1992-1993
Chairman, ACEP's Seizure Clinical Policy Writing Subcommittee, 1995-1996
Chairman, ACEP's Penetrating Extremity Trauma Clinical Policy Writing Subcommittee, 1997-1998
Chairman, ACEP's AMI/Unstable Angina Clinical Policy Writing Subcommittee, 1998-2000
Member, AMI Expert Panel for the National Medicare Quality Improvement Initiative: The National Acute Myocardial Infarction Project; Department of Health and Human Services, 2000-2002
Chairman, ACEP's Deep Venous Thrombosis Clinical Policy Writing Subcommittee, 2000-2003
Chairman, ACEP's Pulmonary Embolus Clinical Policy Writing Subcommittee, 2000-2003
Member, Antiplatelet Therapy for Acute Coronary Syndromes (ATACS) – Clinical Consensus Panel and Scientific Roundtable, 2003 – 2004.
Member, Special Track Review Committee – Applications of Artificial Intelligence in Medicine, The 17th International Flairs Conference, 2003-2004
Chairman, ACEP Writing Committee Non-ST Segment Elevation Acute Coronary Syndromes, 2003-2006
Chairman, ACEP Writing Committee Indications for Reperfusion Therapy in Patients with Suspected Acute Myocardial Infarction, 2003-2006
Chairman, Society of Chest Pain Centers Committee on Assessment of Patients Determined to have Low to Moderate Risk for ACS, 2003-2006
Member, ACC/AHA Writing Committee to Develop Clinical Performance Measures in Unstable Angina/Non-ST-Elevation Myocardial Infarction, 2004-2006

Member, Clinical Policy Committee of the American College of Emergency Physicians (ACEP), 1993-present

Chairman, Harvard College of Admissions Schools Committee 1999-present

Member, Emergency Medicine Coalition for Research and Education (EMCREG), 2000-present

Member, Steering Committee for CRUSADE National Quality Improvement Initiative in patients with non-ST-segment elevation acute coronary syndromes, 2001-2005

Board of Trustees, Society of Chest Pain Centers and Providers, 2002-2009

Member, Society of Chest Pain Center, Accreditation Committee, 2003-present

Member, ACC/AHA Writing Committee to Update Guidelines on the Management of Patients with Unstable Angina/Non-ST-Elevation Myocardial Infarction, 2005-2010

Member, ACC/AHA Writing Committee on Clinical Performance Measures in Acute Myocardial Infarction 2005-2009

Member, ACC/AHA Writing Committee on Clinical Data Standards in Coronary Artery Disease, 2006-2008

Chairman, ACEP Writing Committee Clinical Policy on Pulmonary embolism, 2006-2010

Member, ACC Writing Committee on Practical Considerations in the Interpretation of Troponin Elevations, 2008-2010

Member, ACEP Research Committee, 2008-2010.

Member, ACC/AHA Writing Committee on ST-Segment Acute Myocardial Infarction 2010-present

Co-Chairman, Clinical Policy Committee of the American College of Emergency Physicians (ACEP), 2010-present.

EDITORIAL APPOINTMENTS:

Editorial Board, *Emergency Medicine Practice*, 1998-present

Peer reviewer, *Annals of Emergency Medicine*, 1997-present

Peer reviewer, *American Journal of Emergency Medicine*, 1993-present

Peer reviewer, *Western Journal of Medicine*, 1992

Peer reviewer, AHCPR's Unstable Angina Clinical Practice Guideline, 1994

Peer reviewer, ACC/AHA Acute Myocardial Infarction Clinical Practice Guidelines, 1995-1996

Peer reviewer, ACC/AHA Acute Myocardial Infarction Clinical Practice Guidelines, 1999

Peer reviewer, The Prediction of Risk for Patients with Unstable Angina, UCSF-Stanford Evidence-Based Practice Center, under contract from AHCPR, 1999

Peer reviewer, ACC/AHA Guideline on the management of patients with unstable angina/non-ST segment elevation myocardial infarction, 2000

Peer reviewer, *Journal of Clinical Ligand Assay*, 2002

Peer reviewer, *American Journal of Cardiology*, 2002

Peer reviewer, *European Journal of Cardiology*, 2003

Peer reviewer, *Academic Emergency Medicine*, 2002

MULTI-INSTITUTIONAL STUDY PARTICIPATION:

Site Investigator, GUSTO-IV Pilot SPEED Trial and Emergency Department Sub-study, 1997-1998

Site Investigator, GUSTO-IV, 1999-2000

Site Investigator, EARLY Trial, 2000-2001

Site Investigator, CRUSADE Study, 2001-2005

Site Investigator, EARLY ACS, 2005

CURRENT RESEARCH PROJECTS:

Buchheit R, Fesmire FM. Feasibility of Prehospital Transmission of the 12-lead ECG Utilizing a Camera Capable Cellular Phone for the Identification of ST-Segment Elevation Acute Myocardial Infarction

Whaley H, Fesmire FM. Utility of CTA Head and Neck in Acute CVA and TIA Patients: Does MRA Head and Neck or Carotid Duplex Ultrasound Detect Any Additional Significant Stenosis or Ulcerated Plaque

CURRENT EMPLOYER:

Erlanger Medical Center (1991-Present)
Employer: TN EM-I Medical Services, P.C.
6200 S Syracuse Way Ste 200
Greenwood Village, CO 80111

REFERENCES:

Available upon request.

COMMUNITY SERVICE:

Regional Chairman, Harvard College of Admissions Schools Committee , 1999-present
Bright School Yearbook, 2003-2007

HOBBIES:

Civil War Relic collecting, golf, guitar, reading, writing, astronomy, skiing.

SPOUSE:

Connie E. (Bowling) Fesmire, RN (DOB 04/07/64)

CHILDREN:

Nathanael Forrest Fesmire (DOB 07/18/93)
Jonathan Hunter Fesmire (DOB 07/14/95)

WORK ADDRESS:

P.O. Box 4045
Chattanooga, TN 37405
(423) 778-4662
(423) 778-7273

INTERNET ADDRESS:

francis.fesmire@gmail.com

INVITED LECTURES:

A two-hour protocol for evaluation of chest pain: The Heart Institute of St. Francis Fifth Annual Cardiovascular Symposium; November 5-6, 1998; Columbus Georgia

Automated serial ECG monitoring in conjunction with the delta CK-MB : The Heart Institute of St.

Francis Fifth Annual Cardiovascular Symposium; November 5-6, 1998; Columbus Georgia

Continuous ECG monitoring in the ED for evaluation of chest pain; Grand Rounds, University of Tennessee College of Medicine; September 8th, 1999.

Usefulness of continuous ST-segment monitoring with automated serial ECGs in the evaluation of Chest Pain; Florida Health Systems Cardiac Symposium; February 11, 1999; Orlando, Florida.

Usefulness of continuous ST-segment monitoring with automated serial ECGs in the evaluation of Chest Pain; Grand Rounds, Department of Internal Medicine, UT College of Medicine, Chattanooga, Tn September 7, 1999.

Continuous ECG monitoring in the ED for evaluation of chest pain; First Emergency Medicine Symposium; Maui, Hawaii; February 22, 2000.

Cardiac serum markers during the ED evaluation of chest pain; First Emergency Medicine Symposium; Maui, Hawaii; February 22, 2000.

Continuous ECG monitoring in the ED for evaluation of chest pain; Grand Rounds, Vanderbilt University School of Medicine, Nashville, TN; April 3, 2000.

Utilization of serum markers to identify and exclude acute myocardial infarction during the initial ED evaluation of chest pain patients; Current Issues in Emergency Medicine With a Focus on Improving Clinical Processes; Carolinas HealthCare System; Charlotte, NC May 17, 2000.

Electrocardiography: Identifying patients with acute ischemic syndromes with static and continuous ECG. Current Issues in Emergency Medicine With a Focus on Improving Clinical Processes; Carolinas HealthCare System; Charlotte, NC May 17, 2000.

Evaluation of Chest Pain in the 21st Century: Utilization of Continuous 12-Lead ECG Monitoring, 2-hour Delta Serum Marker Measurements, and Selective Nuclear Stress Testing to Identify and Exclude Acute Coronary Syndromes. EmCare Annual Medical Director Conference, November 9-10, 2000.

Two Hour Levels of CK-MB, Myoglobin, and Troponin I: Potential for Early Diagnosis of Patients with Acute Coronary Syndromes; Third Annual Joint Summit on Markers in Cardiology; Jewish Hospital Heart and Lung Institute, Louisville, Kentucky, October 12-13, 2000.

Recognizing Acute Coronary Syndromes. Second Emergency Medicine Symposium; Maui, Hawaii; February 14, 2001

Cardiac serum markers during the ED evaluation of chest pain; Second Emergency Medicine Symposium; Maui, Hawaii; February 15, 2001.

Early Diagnosis in Acute Coronary Syndromes; Cardiovascular and Vascular Disease Update for the Primary Care Physician; Presented by the University of Tennessee College of Medicine and Erlanger Heart & Vascular Center, Chattanooga, Tn, February 24, 2001.

Critical Issues in Patients with AMI or Unstable Angina; Cardiac Disease in the New Millennium. American Academy of Clinical Chemistry Audio Conference, April 25, 2001.

Pushing the Envelope on ECG Analysis. Emergency Cardiac Care: State of the Art. Presented for the Mayo School of Continuing Education. Whistler, British Columbia, Canada. June 20, 2001.

Cardiac Markers: Separating the Wheat from the Chaff. Emergency Cardiac Care: State of the Art. Presented for the Mayo School of Continuing Education. Whistler, British Columbia, Canada. June 22, 2001.

The Erlanger Protocol: Serial 12-lead ECG monitoring, 2-hour delta serum marker measurements, and selective dual nuclear scanning to identify and exclude acute coronary syndromes. Presented at Karolinska Institutet, Department of Cardiology, Danderyd Hospital in conjunction with the European Society of Cardiology XXII Congress. Stockholm, Sweden; September 4, 2001.

The ACS Quality Improvement Initiative and the Battle to Close the Gap Between Evidence and Practice in Heart Attack Care. Presented at the Annual Meeting of the Society of Chest Pain Centers and Providers, Chicago, Illinois, October 14, 2001.

Evolution of Treatment Options for Acute Coronary Syndromes (Moderator): Presented by the Emergency Medicine Coalition for Research and Education. Chicago, Illinois, October 14, 2001.

Grading the Evidence. Evidence-Based Medicine: A Joint Symposium of the American College of Emergency Physicians and the Dutch Society of Emergency Physicians. Amsterdam, Holland, April 12-14, 2002.

Acute Coronary Syndromes; Evidence-Based Medicine: A Joint Symposium of the American College of Emergency Physicians and the Dutch Society of Emergency Physicians. Amsterdam, Holland, April 12-14, 2002.

The Erlanger Chest Pain Protocol; Presented at the Mini-Medical School, UT College of Medicine, Chattanooga, TN, May 14, 2002.

Serum Markers for the Prediction of Ischemic Heart Disease; 17th Annual Family Medicine Update; Chattanooga, TN, June 12-15, 2002.

The Erlanger Chest Pain Quality Improvement Initiative: Improving care in patients with acute coronary syndromes. Presented at the Society of Chest Pain Centers and Providers 5th Congress of Chest Pain Centers in Emergency Departments; Yale University, New Haven, CO, September 13-14, 2002.

Cardiac Serum Markers Poster Session (Moderator): 2002 Scientific Assembly of the American College of Emergency Physicians (Research Forum), Seattle, WA, October 15-16, 2002.

Ensuring quality by eliminating errors in the evaluation of patients with acute coronary syndromes. Montgomery Area Community Health Sciences Institute, Montgomery, AL, February 7, 2003.

The Erlanger Chest Pain Quality Improvement Initiative: Improving care in patients with acute coronary syndromes; Sponsored by Millennium Pharmaceuticals; Knoxville, TN, April 2, 2003.

Rapid Rule Out Protocols – The Time has Come. Presented at the Society of Chest Pain Centers and

Providers 6th Congress of Chest Pain Centers in Emergency Departments; San Francisco, CA, May 10th, 2003.

Developing Marker Strategies – How to Use Markers Most Effectively. Presented at the Society of Chest Pain Centers and Providers 6th Congress of Chest Pain Centers in Emergency Departments; San Francisco, CA, May 10th, 2003.

Improving care in patients with acute coronary syndromes -- The Erlanger Chest Pain Quality Improvement Initiative. Grand Rounds, Vanderbilt University School of Medicine, Nashville, TN; May 19, 2003.

Defibrillation. Fundamental Critical Care Support (FCCS) Provider Course. Erlanger Medical Center, Chattanooga, TN; June 6, 2003.

The Erlanger Chest Pain Quality Improvement Initiative: Improving care in patients with acute coronary syndromes; Sponsored by Millennium Pharmaceuticals; Memphis, TN, June 19-20, 2003.

Improving care in patients with acute coronary syndromes; Lifeforce Lecture Series; Erlanger Medical Center, Chattanooga, TN; September 24, 2003.

The Erlanger Chest Pain Quality Improvement Initiative: Improving care in patients with acute coronary syndromes; Sponsored by Millennium Pharmaceuticals; Chestatee Regional Hospital, Dahlonega, GA; February 5, 2004.

Evaluation of Patients with Suspected Acute Coronary Syndromes in the 21st Century. River Park Hospital, McMinnville, TN; March 10, 2004.

Continuous 12-Lead ECG Monitoring in the Evaluation of Patients at Low to Moderate Risk of ACS. Presented at the Society of Chest Pain Centers and Providers 7th Congress of Chest Pain Centers in Emergency Departments; Chicago, IL; April 28-May 1, 2004.

Practice Guidelines Every Emergency Physician Should Know – Acute Coronary Syndromes. Presented at Clinical Decisions in Emergency Medicine: An Evidence-Based Conference; Ponte Vedra, Florida; June 17-20, 2004.

Improving Care in Patients with Non-ST-Segment Elevation Acute Coronary Syndromes – The CRUSADE Quality Improvement Initiative. Houston, TX; Sept 23, 2004.

Cardiovascular Emergencies: Advancing the Standard of Care. An EMCREG Symposium. San Francisco, CA; Oct 19, 2004.

Evaluation of Chest Pain in the 21st Century: Utilization of Continuous 12-Lead ECG Monitoring, 2-hour Delta Serum Marker Measurements, and Selective Nuclear Stress Testing to Identify and Exclude Acute Coronary Syndromes – Part 1. University of Tennessee College of Medicine, Department of Family Practice, Chattanooga, TN; Nov 10, 2004.

Evaluation of Chest Pain in the 21st Century: Utilization of Continuous 12-Lead ECG Monitoring, 2-hour Delta Serum Marker Measurements, and Selective Nuclear Stress Testing to Identify and Exclude Acute Coronary Syndromes – Part 2. University of Tennessee College of Medicine, Department of

Family Practice, Chattanooga, TN; Dec 8, 2004.

Acute Coronary Syndromes. 55th Annual Cardiac Symposium for Nurses: Keys to my Heart. American Stroke Association and American Heart Association. Chattanooga, TN; Feb 17, 2005.

Risk Stratification of Chest Pain Patients. 8th Congress of the Society of Chest Pain Centers; Orlando, Florida; April 30, 2005.

How Long is Too Long? Fibrinolytics or PCI. Scientific Assembly of the American College of Emergency Physicians. Washington, DC; Sept 27, 2005.

Practical Measures to Improve Door-to-Balloon Times in ST-Segment Elevation Acute Myocardial Infarction. 10th Congress of the Society of Chest Pain Centers, Nashville, TN, April, 2007.

Evaluation of Chest Pain in the 21st Century: Grand Rounds, Department of Emergency Medicine, University of Alabama, Birmingham, AL; May 22, 2008.

Current Concepts in Management of Acute Coronary Syndromes. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; August 8, 2008.

Do the Conclusions of the Study Support the Findings. Annual Nuts and Bolts Research Methods Symposium. UT Chattanooga College of Medicine, Chattanooga, TN September 11, 2008.

Therapeutic Hypothermia after Cardiac Arrest. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; October 31, 2008.

Practical Measures to Improve Door-to-Balloon Times in ST-Segment Elevation Acute Myocardial Infarction. Strategies for Enhancing Reperfusion of ST Elevation Myocardial Infarction in Tennessee, Franklin, TN, June 13, 2009.

Is It Possible to Reach an Appropriate Conclusion Supported by the Results. Annual Nuts and Bolts Research Methods Symposium. UT Chattanooga College of Medicine, Chattanooga, TN September 11, 2009.

Management of the Acutely Agitated Psychiatric Patient. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; October 15, 2009.

How Can Point-of-Care Testing Support Evidence-Based Medicine. PATH Summit: Point-of-Care Testing Assimilation Throughout the Hospital. Philadelphia, November 6-7, 2009.

Acute Management of Patients with Acute Decompensated Congestive Heart Failure. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; December 5, 2009.

Thrombolytic Therapy for Acute Myocardial Infarction. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; March 3, 2010.

Advanced Platelet Inhibitors in the Management of High Risk Non-ST Elevation ACS. University

of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; March 5, 2010.

Effectively Managing Emergency Department Stroke Patients. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; June 3, 2010.

How Long is Too Long. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; June 3, 2010.

Evaluation of Chest Pain in the 21st Century: Clinical Data, Continuous 12-Lead ECG Monitoring, Delta Serum Marker Measurements, and Selective Nuclear Stress Testing. University of Tennessee Chattanooga College of Medicine, Department of Emergency Medicine, Chattanooga, TN; July 7, 2010.

Challenges and Pragmatic Approaches in Troponin Testing. Abbott Point of Care. Webinar: October 6, 20, 27, 2010.

PUBLISHED ABSTRACTS:

Schauben JL, Fesmire FM, Roberge RJ, Wears RL, Sandroni S: Massive arsenic ingestion in humans: A characterization of two survivors. Presented at the 1987 AACT/AAPCC/ABMT/CAPCC Annual Scientific Meeting, Vancouver, Canada.

Fesmire FM, Percy RF, Wears RL: Diagnostic and prognostic importance of the previous ECG in comparison to the initial ECG. Presented at the 1990 Scientific Assembly of the Southern Medical Association.
South Med J 1990;83 (supplement 2):19.

Fesmire FM, Percy RF, Bardonnier JB, Calhoun FB, Atkins JV: Usefulness of serial ECG monitoring to risk stratify chest pain patients with a nondiagnostic initial ECG. Presented at the 1996 ACC Annual Scientific Assembly, Orlando, Florida 3/96;
J Am Coll Cardiol 1996; 27(supplement A):251A.

Fesmire FM, Percy RF, Bardonnier JB, Calhoun FB, Atkins JV: Serial creatine kinase-MB testing and Serial ECG monitoring during the emergency department evaluation of non-cocaine associated chest pain. Presented at the 1996 ACEP Research Forum, Cincinnati, Ohio, 2/24/96.
Ann Emerg Med 1996;27:117-118.

Fesmire FM, Percy RF, Bardonnier JB: Usefulness of serial ECG monitoring to risk stratify chest pain patients. Presented at the 5th World Congress on Heart Failure, Washington, DC, May 11-14.
J Heart Failure 1997;4:561.

Fesmire FM, Percy RF, Bardonnier JB: Automated serial ECG monitoring in conjunction with the 2 hour change in MB fraction of Creatine Kinase during the emergency department evaluation of chest pain. Presented at the 1997 Research Forum of the American College of Emergency Physicians in San Francisco, September 1997.
Ann Emerg Med 1997;30:424-425.

Fesmire FM: Delta CK-MB outperforms delta Troponin I at 2 hours during the initial ED evaluation of chest pain. Presented at the 1998 Scientific Assembly of the American College of Emergency Physicians -Research Forum, San Diego, CA, September 1998.
Ann Emerg Med 1998; 32 (supplement): S10.

Fesmire FM: A rapid rule out protocol for acute myocardial infarction: Serial ECG monitoring in conjunction with the 2-hour Δ CK-MB. Presented at the 1999 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Las Vegas, Nevada October 1999.
Ann Emerg Med 1999; 34 (supplement):S22.

Fesmire FM: Which chest pain patients benefit from continuous ST-segment monitoring with automated serial ECG? Presented at the 1999 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Las Vegas, Nevada October 1999.
Ann Emerg Med 1999;34:S4-S5.

Fesmire FM: Improved identification of acute coronary syndromes with second generation cardiac troponin I assay: Utility of 2-hour delta cTnI \geq + 0.02 ng/ml. Presented at the Third Annual Joint Summit on Markers in Cardiology; Jewish Hospital Heart and Lung Institute, Louisville, Kentucky, October 12-13, 2000.

Fesmire FM, Hughes AD, Stout PK, et al: Selective dual nuclear scanning in low risk chest pain patients. Presented at the 2000 Scientific Assembly of the American College of Emergency Physicians -Research Forum, Philadelphia, PA, October 23, 2000.
Ann Emerg Med 2000;36:S5.

Fesmire FM, Huges AD: Limitations of Rest and Stress Nuclear Scanning in High Risk Chest Pain Patients. Presented at the 2001 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Chicago, IL, October 15, 2001.
Ann Emerg Med 2001;38 (supplement):S5.

Fesmire FM, Hughes AD, Stout PK, et al: The Erlanger Protocol: Serial 12-lead ECG monitoring, 2-hour delta serum marker measurements, and selective dual nuclear scanning to identify and exclude acute coronary syndromes B A one year experience. Presented at the 2001 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Chicago, IL, October, 15 2001.
Ann Emerg Med 2001;38 (supplement):S3-S4.

Roe MT, Ohman EM, Bahr R, Fesmire FM, Yang H, Christenson RC, Gibler WB: A randomized, placebo-controlled trial of early administration of eptifibatide for patients with non-ST-segment elevation acute coronary syndromes in the emergency department: The EARLY Pilot Trial. Presented at the XXII Congress of the European Society of Cardiology, September 1-5,2001, Stockholm, Sweden.
European Heart J 2001; 22 (supplement): 592.

Fesmire FM, Eriksson SV: Usefulness of baseline ST-vector magnitude to risk stratify chest pain patients. Presented at the XXII Congress of the European Society of Cardiology, September 1-5,2001, Stockholm, Sweden.
European Heart J 2001;22 (supplement): 433.

Fesmire FM, Fody EP, Feintuch TA: Risk stratification of chest pain patients in the emergency

department with suspected non-ST-segment acute coronary syndromes: Delta CK-MB outperforms first generation delta troponin I at 2 hours. Presented at the 2002 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Seattle, WA, October 15-16, 2002.

Ann Emerg Med 2002;40 (supplement):S1-S2.

Fesmire FM, Christenson RH, Gibler WB, et al: Delta CK-MB outperforms myoglobin at 2-hour during the emergency department identification and exclusion of non-ST-segment elevation acute myocardial infarction. Presented at the 2002 Scientific Assembly of the American College of Emergency Physicians - Research Forum, Seattle, WA, October 15-16, 2002.

Ann Emerg Med 2002;40 (supplement):S26.

Pollack CV, Summers RL, Hoekstra JW, Tiffany BR, Peacock WF, Diercks D, Fesmire FM, Gibler WB: Despite recommendations, troponin positivity does not usually increase intensity of intervention in high-risk non-ST-segment elevation acute coronary syndrome. Presented at the 2002 Scientific Assembly of the American College of Emergency Physicians (Research Forum), Seattle, WA, October 15-16, 2002.

Ann Emerg Med 2002; 40 (supplement); S3.

Fesmire FM, Roe MT, Peterson ED, Wojcik JF. Early utilization of glycoprotein IIb/IIIa inhibitors in the emergency department treatment of non-ST-segment elevation acute coronary syndromes: A local quality improvement initiative. Presented at the Society of Chest Pain Centers and Providers 5th Congress of Chest Pain Centers in Emergency Departments; Yale University, New Haven, CO, September 13-14, 2002.

Critical Pathways Cardiology 2002; 1:246-247.

Fesmire FM; Strelnikova NS. TennCare Blues: Reimbursement issues in chest pain patients with managed Medicaid. Presented at the Society of Chest Pain Centers and Providers 5th Congress of Chest Pain Centers in Emergency Departments; Yale University, New Haven, CO, September 13-14, 2002.

Critical Pathways Cardiology 2002; 1:247.

Pollack CV, Peacock WF, Summers RW, Fesmire FM, et al. Ischemia-modified albumin (IMA) is useful in risk stratification of emergency department chest pain patients (abstract). *Acad Emerg Med* 2003;10:555-556.

Fesmire FM, Wali GO, Adams DE. Utilization of the simplified Ho clinical score to risk stratify ED chest pain patients without history of pre-existing ischemic heart disease for adverse outcome (abstract). Presented at the 2003 Scientific Assembly of the American College of Emergency Physicians (Research Forum), Seattle, WA, October 12-13, 2003.

Ann Emerg Med 2003; 42:S63.

Fesmire FM, Adams DE, Wali GO. Inability of clinical scores to risk stratify ED chest pain patients with pre-existing ischemic heart disease for adverse outcome (abstract). Presented at the 2003 Scientific Assembly of the American College of Emergency Physicians (Research Forum), Seattle, WA, October 12-13, 2003. *Ann Emerg Med* 2003; 42:S9.

Fesmire FM, Novobilski AJ. The first step in the Erlanger Artificial Intelligence Initiative: development of a Bayesian network to risk stratify non-ST-segment elevation chest pain patients for thirty-day adverse outcome (abstract). Presented at the 2003 Scientific Assembly of the American

College of Emergency Physicians (Research Forum), Seattle, WA, October 12-13, 2003.
Ann Emerg Med 2003; 42:S9-S10.

Roe MT, Newby LK, Peterson ED, Li Y, Christenson RH, Bahr RD, Pollack CV Jr, Diercks DB, Fesmire FM, Peacock WF, Ohman EM, Gibler WB. Sub-optimal Treatment of Patients With Non-ST-Elevation Acute Coronary Syndromes Presenting With Positive Baseline Troponin Values. Abstract presented at American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 7-11, 2004.

Peacock WF, Roe MT, Chen AY, Fesmire FM, Lytle BL, Ornato JP, Hoekstra JW, Jesse RL, Ohman EM, Frank A, Bandura J, Peterson ED, Gibler, WB. Vein-to-Brain Time: An Emergency Department Quality of Care Marker for Non-ST-Segment Elevation Acute Coronary Syndromes. Abstract presented at Society for Academic Emergency Medicine Annual Meeting-2004. *Acad Emerg Med* 2004;11:569-70.

Roe MT, Newby LK, Peterson ED, Li Y, Christenson RH, Bahr RD, Pollack CV Jr., Diercks DB, Fesmire FM, Peacock WF, Ohman EM, Gibler WB. Sub-optimal Treatment of Patients With Non-ST-Elevation Acute Coronary Syndromes Presenting With Positive Baseline Troponin Values. Abstract presented at American College of Cardiology Scientific Sessions 2004. *J Am Coll Cardiol* 2004; 43:300A.

Novobilski, Andrew, F. Fesmire, D. Sonnemaker. "Mining Bayesian Networks to Forecast Adverse Outcomes Related to Acute coronary Syndrome." Presented at the 17th International Florida Artificial Intelligence Research (FLAIRS) Conference, Miami Beach, FL, May, 2004.

Novobilski, Andrew, J. Kline, F. Fesmire. "Using a Genetic Algorithm to Identify Predictive Bayesian Models in Medical Informatics." The International Conference on Information Technology (ITCC), Las Vegas, 2004.

Cairns CB, Milford-Beland S, Peterson ED, Newby LK, Peacock WF, Pollack CV, Christenson RH, Fesmire FM, Ohman EM, Gibler WB, Roe MT. Any troponin elevation is associated with increased mortality in patient with non-ST-elevation acute coronary syndromes despite variations in hospital laboratory assays and presence of renal insufficiency. Presented at the Scientific Assembly of the American College of Emergency Physicians (Research Forum), Washington DC September 26-27, 2005. *Ann Emerg Med* 2005; 46: S116.

Peacock WF IV, Roe MT, Bhatt DL, Fonarow GC, Jesse RL, Christenson RH, Newby LK, Fesmire FM, Milford-Beland S, Ohman EM, Peterson ED. Non-ST-segment elevation acute coronary syndrome mortality: an analysis of B-type natriuretic peptide and cardiac troponin. *Ann Emerg Med* 2005; 46:S3.

Fesmire FM. Utilization of ST-segment deviation sum and change score to identify high risk emergency department chest pain patients with acute coronary syndromes. Presented at the Scientific Assembly of the American College of Emergency Physicians (Research Forum), Washington DC September 26-27, 2005. *Ann Emerg Med* 2005; 46: S8.

McCullough CL, Novobilski AJ, Fesmire FM. Prediction of adverse outcomes of acute coronary syndrome using intelligent fusion of triage information with HUMINT. Presented at the SPIE Symposium on Defense and Security. Orlando, FL, April 2006.

Novobilski, Andrew, F. Fesmire, R. Palmiero. "The Impact of Software Instrumentation on Clinical Evaluations" Artificial Neural Networks in Engineering (ANNIE), St. Louis, 2006.

PUBLICATIONS (Novels):

Fesmire, Francis (2011). Nashville Skyline. Lulu.com ISBN 9780557697793 (undergoing type editing).

PUBLICATIONS (BOOKS AND BOOK CHAPTERS):

Fesmire FM, Luten RC: Evaluation of the pediatric cervical spine, in Harwood-Nuss AL, Linden CH, Luten RC, et al (eds): *The Clinical Practice of Emergency Medicine*. J.B Lippincott Company Philadelphia; 1991:823-827.

Fesmire FM: Evaluation and management of cervical spine injuries in the pediatric patient, in Little NE (ed): *Critical Decisions in Emergency Medicine (Vol 5)*. American College of Emergency Physicians, Dallas, Texas; 1991: 19-26.

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