

CURRICULUM VITAE

Name: Mark Edward Splaine, M.D., M.S.

Address: Dartmouth Hitchcock Medical Center
Section of General Internal Medicine
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Date of Birth: November 3, 1964

Education:

- 1982-1986 Harvard College
Bachelor of Arts in Biochemical Sciences cum laude
- 1987-1991 Dartmouth Medical School
Doctor of Medicine with honors
- 1994-1996 Dartmouth College
Masters in Evaluative Clinical Science

Postdoctoral Training:

- 1991-1994 Resident in General Internal Medicine
Dartmouth-Hitchcock Medical Center
Lebanon, New Hampshire
- 1994-1996 VA Ambulatory Care Fellow in Internal Medicine
Veterans Administration Hospital
White River Junction, Vermont

Licensure and Certification:

- 1994- New Hampshire Medical License
- 1994 Diplomate of the American Board of Internal Medicine
- 1992 Diplomate of the National Board of Medical Examiners

Academic Appointments:

- 1994-1997 Instructor in Internal Medicine
Dartmouth Medical School
- 1997-1998 Assistant Professor of Medicine
Dartmouth Medical School
- 1998-2004 Assistant Professor of Medicine and Community and Family Medicine
Dartmouth Medical School
- 2004- Associate Professor of Medicine and Community and Family Medicine
Dartmouth Medical School

Hospital Appointments:

- 1994- Dartmouth-Hitchcock Medical Center
Lebanon, New Hampshire
- 1994-1996 Veterans Administration Hospital
White River Junction, Vermont

Awards and Honors:

- 1986 Fulbright/Deutscher Akademischer Austauschdienst Scholarship to conduct research at the Max Planck Institute for Biochemistry, Martinsried, West Germany
- 1989 Award for Outstanding Student Service at Dartmouth Medical School
- 1990 Elected to Alpha Omega Alpha Honorary Medical Society
- 1991 Zaslow Prize awarded by Departmental Chairpersons at Dartmouth Medical School for outstanding service to the medical school community
- 1994 Alma Hass Milham Award presented to a Dartmouth-Hitchcock houseofficer who embodies the qualities of humane and ethical practice medicine
- 1996 Mack Lipkin Sr. Associates Award for outstanding research presentation at the National Meeting of the Society of General Internal Medicine

National and Institutional Service:

Institutional

- 1992-1994 Residency Education Sub-committee
Section of General Internal Medicine Advisory Committee
Department of Internal Medicine
Dartmouth Hitchcock Medical Center
- 1993-1994 Primary Care Curriculum Initiative
Dartmouth Medical School
- 1996- Intern Selection Committee
Department of Internal Medicine
Dartmouth Hitchcock Medical Center
- 1998-1999 Strategic Planning Committee for Research
Dartmouth Medical School
- 1998-2000 Patient Access Steering Committee
Dartmouth Hitchcock Medical Center
- 1998- Board of Incorporators
The Hitchcock Foundation
- 1999-2001 Non-scientific Grant Review Committee
The Hitchcock Foundation
- 1999- Strategic Planning Committee for Allocation of Funds
Dartmouth Medical School

- 1999- Quality Grant Review Committee
Dartmouth Hitchcock Medical Center
- 2000- Board of Trustees
The Hitchcock Foundation
- 2000-2002 Strategic Planning Committee for Space and New Building Project
Dartmouth Hitchcock Medical Center
- 2000- Quality Council
Dartmouth Hitchcock Medical Center
- 2000- Joshua Burnett Clinical Research Fellowship Committee
The Hitchcock Foundation
- 2001 Dartmouth Hitchcock System Metric Task Force
Dartmouth Hitchcock Clinic
- 2001- Continuing Medical Education Leadership Committee
Dartmouth Hitchcock Medical Center
- 2001- Executive Committee (Secretary), Board of Trustees
The Hitchcock Foundation
- 2002- Department of Medicine Education Committee
Dartmouth Hitchcock Medical Center

National

- 1998-1999 Member of National Expert Panel for a grant funded by the Health Resources and Services Administration entitled "Understanding the Value Added to Clinical Care by Training Activities"
- 1998-1999 Member of Planning Group for Institute for Healthcare Improvement Breakthrough Series Collaborative on Improving Care for People with Chronic Conditions
- 1998- Facilitator for semiannual retreats of the Residency Review Committee Chairs and Staff of the Accrediting Council on Graduate Medical Education

Journal Referee Activities:

Journal of the American Medical Association
Journal of General Internal Medicine
Spine

Professional Societies:

- 1992- American College of Physicians, Associate
- 1995- Society of General Internal Medicine, Member

Major Leadership Role in Administration:

- 2002- Co-Chief for Section of General Internal Medicine
Dartmouth-Hitchcock Medical Center

Major Leadership Roles in Teaching and Educational Reform:

Residents & Fellows

- 1998- Co-Director of Program
Veterans Administration National Quality Scholars Fellowship Program
Leadership role involves:
- 1) Communication and planning of program with leadership in the Office of Academic Affiliations in Washington, DC.
 - 2) Coordination and planning of program activities with Senior Scholars in Birmingham, Cleveland, Iowa City, Nashville, San Francisco and White River Junction.
 - 3) Design and teach two-way interactive video curriculum (25 2-hour sessions) to 6 sites across the United States.
 - 4) Planning, coordination and implementation of 3 national meetings of the program per year
 - 5) Oversee program evaluation
 - 6) Assist with program development.
- Center for the Evaluative Clinical Sciences, Dartmouth Medical School

Graduate Students

- 1999- Course Director
Statistical Methods and Analysis for Quality Improvement
Leadership role involves developing, planning and implementing curriculum for the 10 4-hour sessions of course. Other responsibilities include: coordinating additional faculty who serve as guest lecturers, overseeing and mentoring teaching assistants, coordinating course content with other course directors.
Center for the Evaluative Clinical Sciences, Dartmouth Medical School

Medical Students

- 1997- Coordinator of Vertical Integration Group New Skills Curriculum
Curriculum spans Years 1 – 4 at Dartmouth Medical School
Leadership role involves meeting with course directors, developing and implementing new curricular activities into existing courses.
Dartmouth Medical School
- 1998- Health, Society and the Physician – Course planning committee
Leadership role involves working with course directors to develop, plan and implement new curricula for this Year 4 course.
Dartmouth Medical School
- 2003- Institute for Healthcare Improvement Medical School Collaborative
Co-founder and member of the Executive Committee for a National collaborative of medical schools dedicated to reforming their curriculum to embrace the goals of the Medical Student Outcomes Project of the American Association of Medical Colleges.
One of four Dartmouth Medical School representatives.
Dartmouth Medical School

Additional Teaching Experiences:

Medical Students

- 1990-1995 Section leader in Physical Diagnosis for Year 2 Medical Students
Dartmouth Medical School
- 1995-1997 Section leader in Epidemiology/Biostatistics for Year 1 Medical Students
Dartmouth Medical School

- 1998- Lecture on Clinical Management of Pain
Neurosciences Course Year 1 Medical Students
Dartmouth Medical School
- 1998-2002 Section leader in Medical Pharmacology for Year 2 Medical Students
Dartmouth Medical School
- 1999- Lecture on Evidence Based Medicine
Pharmacology Course Year 2 Medical Students
Dartmouth Medical School

Graduate Students (Masters and Doctoral)

- 1995 Teaching assistant in Epidemiology/Biostatistics for Masters Students
Dartmouth Medical School
- 1997- Continuous Improvement of Health Care
Lectures on variation and the use of enumerative and analytic study design for
improvement work
Course Faculty
Center for the Evaluative Clinical Sciences, Dartmouth Medical School
- 1997 Statistics for Continuous Quality Improvement
Lectures on measuring system performance and practical uses of control charts in
clinical care (3 4-hour sessions)
Center for the Evaluative Clinical Sciences, Dartmouth Medical School
- 1997-1999 Management of Health Services and Medical Care
Lecture on measuring system performance and clinical quality improvement
Invited Faculty
School of Business Administration, University of Vermont
- 1998 Statistical Methods for Quality Improvement
Co-director of Course (7 4-hour sessions)
Center for the Evaluative Clinical Sciences, Dartmouth Medical School

Residents & Fellows

- 1994-1998 Faculty facilitator for Intern Support Group
Department of Internal Medicine
Dartmouth Hitchcock Medical Center
- 1995-1996 Medical Service Ward Attending
Veterans Administration Hospital
- 1997-1998 Improving Care in Ambulatory Geriatrics
Designed and led workshop series for Family Practice and Internal Medicine residents
focusing on how to understand current geriatric practice, measure and implement a
change to improve care.
Dartmouth Hitchcock Medical Center
- 1998 Elective in Quality Improvement
Designed and ran a 4-week reading and practical elective for a medicine resident.
Dartmouth Hitchcock Medical Center

- 1998-2002 Improving Care in Resident Practices
 Designed 7-week series of conferences for Primary Care Medicine residents to explore the issues on measurement and research in quality improvement as it applies to their practices.
 Dartmouth Hitchcock Medical Center
- 2000-2001 Health Care System Curriculum
 Designed and implemented a year-long curriculum consisting of 3 3-hour workshops for Family Medicine, Internal Medicine and Pediatric residents.
 Dartmouth Hitchcock Medical Center
- 2001- Inpatient Consult and Medicine Ward Attending
 Dartmouth Hitchcock Medical Center

Faculty & Employees

- 1996-1999 Clinical Improvement Workshop
 Faculty member teaching topics on benchmarking and applying a model for understanding how to manage a panel of patients in practice
 Hitchcock Clinic
- 1996-1997 Data for Decision Making Workshop
 Co-creator and faculty member teaching how to ask thoughtful questions and collect data for improvement work
 Hitchcock Clinic
- 1996-1998 Measurement & Statistics Workshop
 Faculty member teaching about the use of control charts in analyzing data for improvement work
 Hitchcock Clinic
- 1997 Factorial Design Workshop
 Co-creator and faculty member teaching concepts and practical clinical implementation of factorial design methods in clinical improvement work
 Hitchcock Clinic
- 1997-1998 Office Facilitator Workshop
 Co-creator and faculty member teaching concepts and methods to assist office practices in implementing and completing clinical improvement projects
 Hitchcock Clinic
- 1998-1999 Primary Care Office Practice Redesign
 Faculty member and facilitator for teaching clinicians and staff about the use of data and concepts of improvement in their work in primary care office practices
 Hitchcock Clinic, Southern Region
- 2003- Community Physician Faculty Development Workshop
 Faculty member and facilitator for teaching community-based physician about designing and implementing projects related to improving their office practice.
 Dartmouth-Hitchcock Clinic

Research Interests:

Developing methods to incorporate the use of statistical process control methods to improve patient care and the use of clinical measurement to enhance clinical practice. The major goals of this work are to make statistics more easily understandable and useful for health care providers; to develop practical methods to measure clinical processes and outcomes that can be incorporated into patient care settings; and to teach about how health professionals can use continuous quality improvement as a way to enhance their practice and the value they provide to patients.

Grant Support:

1998-2000 Faculty Development Training for Family Medicine Faculty

Develop and teach sessions in quality improvement and managed care designed to assist faculty from Maine, Massachusetts and New Hampshire in teaching residents about these topics.

(10% support)

1998-2000 Undergraduate Medical Education in the 21st Century

Design and implement new methods for teaching evidence based medicine, quality improvement and managing care for populations of patients in the 3rd year Primary Care Clerkship at Dartmouth Medical School.

(5% support)

1999-2002 Residency Training in General Internal Medicine and General Pediatrics

Robert Wood Johnson Generalist Initiative Grant

Train general internists who have the knowledge and skills necessary to provide cost effective, high quality health care to rural and underserved areas in which they practice.

(5% support)

2000-2003 General Internal Medicine Research Infrastructure

Bureau of Health Professions

Coordinate the translation of the results of local research in general medical practice into clinical care.

(10% support)

2002-2005 Faculty Development Grant in Internal Medicine

Bureau of Health Professions

Coordinate development of faculty knowledge around the improvement of health care and the translation of this knowledge into teaching and clinical care.

(5% support)

Mentoring Experience:

1995

Nicole Borofsky

Designed a summer research elective for a Stanford University student. This included teaching of computer programming skills, review of basic biostatistics and practical experience in conducting an ongoing research project on urinary tract infections in women.

1997-1999

Peter Soderland

Designed a summer internship for a Harvard College student. This included teaching of concepts and theories of clinical improvement and statistical process control, writing of an improvement guide for clinical geriatrics and experience working on a project studying methods for improving office prevention strategies.

- 1999 Scott Sanoff
Designed a summer internship for a Case Western Reserve medical student. This included teaching of concepts and theories of clinical improvement and statistical process control; clinical work in a general internal medicine clinic; study of the medical history as a process; analysis of patient satisfaction data for a cohort who had experience an acute myocardial infarction; and experience working on a project studying access to care in an orthopaedic surgery practice.
- 1999-2000 Christina Dematteo
Designed a summer internship for a Carlton College student. This included teaching of concepts and theories of clinical improvement and statistical process control, and experience working on projects studying methods for improving office care for patients with hypertension, hyperlipidemia and for geriatric patients.
- 2001-2003 Curits Campbell
Served as a faculty advisor for Curtis during his course work in the Masters Program at the Center for the Evaluative Clinical Sciences at Dartmouth Medical School. Have continued as a career advisor for Curtis in his current position in Quality Education, Measurement and Research at Dartmouth-Hitchcock Medical Center as he applies to medical school.
- 2002- Stephen Wrzesinski, MD, PhD
Serving as a faculty advisor for Steve during his Internal Medicine Residency at DHMC.

Invited Presentations:

Local/Regional

- 1994 "Reversible cardiomyopathy in a woman with thyrotoxicosis." Northern New England Meeting of the American College of Physicians, Portsmouth, New Hampshire.
- 1995 "Can women self-diagnose a urinary tract infection?" Accelerated Clinical Improvement Conference, Lahey Hitchcock Clinic, Manchester, New Hampshire.
- 1996 "Why adjust for differences in length of stay for major depression?" Accelerated Clinical Improvement Conference, Lahey Hitchcock Clinic, Concord, New Hampshire.
- 1997 "Applying a model for managing care from the inside out" Annual Meeting of the Dartmouth COOP Project, Ascutney, VT.
- 1997 "Tools for continuous quality improvement and decision making in the office" Annual Meeting of the Dartmouth COOP Project, Ascutney, VT.
- 1997 "Benchmarking: A buzzword or a powerful tool?" Annual Conference for Nurse Educators in Staff Development and Schools of Nursing, Ogunquit, ME.
- 1998 "80+ Project: Improving the health and wellbeing for persons age 80 and older." Annual Meeting of the Dartmouth COOP Project, Jackson, NH.
- 1998 "Developing the science of clinical practice." Annual Meeting of the New Hampshire Association for Health Care Quality, Manchester, NH.
- 1999 "An introduction to the knowledge domains for improvement." Meeting of the Diabetes Centers for New Hampshire, Lebanon, NH.

- 2000 "Practical office systems to enhance diabetes care." Workshop on Improving Diabetes Care in Primary Care Practices, Dixville Notch, NH.
- 2000 "Office systems change." Workshop on Improving Diabetes Care in Primary Care Practices, Dixville Notch, NH.
- 2001 "Monitoring for complications of diabetes." Workshop on Improving Diabetes Care in Primary Care Practices, Dixville Notch, NH.
- 2001 "Practical office systems to enhance diabetes care." Workshop on Improving Diabetes Care in Primary Care Practices, Dixville Notch, NH.
- 2001 "Office systems to improve diabetes outcomes." Workshop on Improving Diabetes Care in Primary Care Practices, Dixville Notch, NH.
- 2001 "Studying populations in the ambulatory care setting." Meeting of Anthem and Dartmouth Hitchcock leadership, Lebanon, NH.
- 2003 "Improving Office Practice with Examples from Diabetes Care." Faculty Development Workshop, Lebanon, NH.
- 2003 "Improving Office Practice with Examples from Hypertension Care." Faculty Development Workshop, Lebanon, NH.
- 2004 "Approaching and Designing Office Practice Improvement Projects." Faculty Development Workshop, Lebanon, NH.

National

- 1995 "Simple interventions following myocardial infarction: the effect of distance from academic centers in Manitoba." National Meeting of the Society of General Internal Medicine, San Diego, California.
- 1996 "The accuracy of self-diagnosis in uncomplicated urinary tract infections in women." Plenary session. National Meeting of the Society of General Internal Medicine, Washington, DC.
- 1996 "Clinical management and health outcomes for poor individuals following myocardial infarction in Canada." National Meeting of the Society of General Internal Medicine, Washington, DC.
- 1996 "Does valve type influence long-term survival following aortic valve replacement?" National Meeting of the Society of General Internal Medicine, Washington, DC.
- 1997 "Taking a cue from the sentries: 80+ Project" National Forum of the Institute for Health Care Improvement, Orlando, FL.
- 1998 "The Micro-System in Health Care" National Forum of the Institute for Health Care Improvement, Orlando, FL.
- 1998 "Integrating Continuous Quality Improvement into Education" National Forum of the Institute for Health Care Improvement, Orlando, FL.
- 1998 "The Value Added to Clinical Care by Educational Activities" National Forum of the Institute for Health Care Improvement, Orlando, FL.

- 1999 "Coding and Billing for Geriatric Practice" Chronic Care Collaborative Learning Session 3, Institute for Health Care Improvement, Atlanta, GA.
- 1999 "The 8 Knowledge Domains for Improving Health Care" Health Professional Educational Collaborative of the Bureau of Health Professions, Boston, MA.
- 1999 "The Micro-Unit of Healthcare: A Model for Organizing, Providing, and Improving Care for Patients and Populations" Albany Medical Center, Albany, NY.
- 1999 "Using Control Charts in Clinical Care" Workshop at the National Forum of the Institute for Health Care Improvement, New Orleans, LA.
- 1999 "What is the Value of Education to Clinical Care?" Workshop at the National Forum of the Institute for Health Care Improvement, New Orleans, LA.
- 1999 "Promoting Learning about the Improvement of Health and Health Care Instead of Learning about 'Doing CQI'" Learning Laboratory at the National Forum of the Institute for Health Care Improvement, New Orleans, LA.
- 2000 "Patient self-care and clinical management using control charts and other graphical methods" Minicourse at the National Forum of the Institute for Health Care Improvement, San Francisco, CA.
- 2000 "When it is the faculty member's turn to learn..." Workshop at the National Forum of the Institute for Health Care Improvement, San Francisco, CA.
- 2000 "The professional educator's approach to errors" Workshop at the National Forum of the Institute for Health Care Improvement, San Francisco, CA.
- 2001 "Why is clinical quality improvement important?" Workshop for Department Chairs at the National Association of Program Directors in Internal Medicine Meeting, Atlanta, GA.
- 2001 "Patient self-care and clinical management using control charts and other graphical methods" Learning Lab at the National Forum of the Institute for Health Care Improvement, Orlando, FL.
- 2001 "Creating an effective organizational context for Microsystems." Workshop at the National Forum of the Institute for Health Care Improvement, Orlando, FL.
- 2002 "Systems-based practice: a new competency for improving health care." Workshop for Program Directors at the ACGME Mastering the Accreditation Process Workshop, Chicago, IL.
- 2002 "The general competencies of practiced-based learning and improvement and systems-based practice." Presentation at IHI / ACGME Meeting on General Competencies, Orlando, FL.
- 2002 "Systems-based practice: a new competency for improving health care." Presentation at IHI / ACGME Meeting on General Competencies, Orlando, FL.
- 2002 "Assessing the competencies: practiced-based learning and improvement and systems-based practice." Presentation at the International Scientific Symposium at the National Forum of the Institute for Health Care Improvement, Orlando, FL.

- 2003 “The general competencies: fundamentals of teaching and assessing systems-based practice.” Workshop for Program Directors at the ACGME Mastering the Accreditation Process Workshop, Chicago, IL.
- 2003 “Systems-based practice: a new competency for improving health care.” Presentation at Institute for Health Care Improvement Medical School Collaborative Meeting, Chicago, IL.
- 2004 “What practicing physicians and residents need to know about systems-based practice.” Presentation at ACGME/ABMS Meeting, Chicago, IL.
- 2004 “Getting started improving your own practice: focus efforts and identification of simple measures of care.” Presentation at University of Tennessee College of Medicine Meeting on Quality Improvement in Medical Education, Memphis, TN.

International

- 1997 "Practical methods for implementing improvement in clinical care" Plenary speaker. Meeting of the Ontario Clinical Improvement Network, Toronto, Ontario.
- 1998 “Improving patient care in the ambulatory setting.” Meeting of the Swedish National Leadership Network, Stockholm, Sweden.

Bibliography:

Journal Articles

1. Nelson EC, **Splaine ME**, Plume SK, Batalden PB. Good measurement for good improvement work. *Quality Management in Health Care*. 2004; 13(1): 1-16.
2. Ogrinc G, **Splaine ME**, Foster T, Regan-Smith M, Batalden PB. Exploring and embracing complexity in a distance learning curriculum for physicians. *Academic Medicine*. 2003; 78(3): 280-85.
3. Batalden PB, **Splaine ME**. What will it take to lead the continual improvement and innovation of health care in the twenty-first century? *Quality Management in Health Care*. 2002; 11(1): 45-54.
4. **Splaine ME**, Aron DA, Dittus RS, Kiefe CI, Landefeld CS, Rosenthal GE, Weeks WB, Batalden PB. A curriculum for training quality scholars to improve the health and health care of veterans and the community at large. *Quality Management in Health Care*. 2002; 10(3): 10-18.
5. Lurie JD, Merrens EJ, Lee J, **Splaine ME**. An approach to hospital quality improvement. *Medical Clinics of North America*. 86(4):825-45, 2002
6. **Splaine ME**, Caron A. Enhancing diabetes care using statistical process control charts. *The Endocrinologist*. 2002; 12(5): 412-420.
7. Ferguson R, Robinson A, **Splaine, M**. Use of the reliable change index to evaluate clinical significance in SF-36 outcomes. *Quality of Life Research*. 2002; 11(6): 509-16.
8. **Splaine ME**, Aron DA. Understand and using variation to improve diabetes care in the ambulatory setting. *The Endocrinologist*. 2000; 10(6): 412-418.
9. Nelson EC, **Splaine ME**, Godfrey MM, Kahn V, Hess A, Batalden PB, Plume SK. Using data to improve medical practice by measuring processes and outcomes of care. *The Joint Commission Journal on Quality Improvement*. 2000; 26(12): 667-685.

10. Nelson EC, **Splaine ME**, Batalden PB, Plume SK. Building measurement and data collection into medical practice. *Ann Intern Med* 1998; 128(6): 460-466.
11. **Splaine M**, Bierman AS, Wasson JH. Implementing a strategy for improving care: lessons from studying those age 80 and older in a health system. *J Ambulatory Care Manage* 1998; 21(3): 56-59.
12. **Splaine M**, Brooks WB, Patterson JA, von Reyn L, Wasson JH. Geriatric education: a system approach. *J Ambulatory Care Manage* 1998; 21(3): 40-48.
13. Bierman AS, Magari ES, Jette AM, **Splaine M**, Wasson JH. Assessing access as a first step toward improving the quality of care for the very old. *J Ambulatory Care Manage* 1998; 21(3): 17-26.
14. Patterson JA, Bierman AS, **Splaine M**, Goodlin SJ, Schreiber RJ, Wasson JH. The population of people age 80 and older: a sentinel group for understanding the future of health care in the United States. *J Ambulatory Care Manage* 1998; 21(3): 10-16.
15. **Splaine M**, Batalden P, Nelson E, Plume SK, Wasson JH. Looking at care from the inside out: a conceptual approach to geriatric care. *J Ambulatory Care Manage* 1998; 21(3): 1-9.
16. Wasson JH, **Splaine ME**, Bazos D, Fisher ES. Overview: working inside, outside, and side by side to improve the quality of health care. *Joint Commission Journal on Quality Improvement* 1998; 24(10): 513-517.
17. Batalden PB, Mohr JJ, Nelson EC, Plume SK, Baker GR, Wasson JH, Stoltz PK, **Splaine ME**, Wisniewski JJ. Continually improving the health and value of health care for a population of patients: the panel management process. *Quality Management in Health Care* 1997; 5(3): 41-51.
18. Plume SK, Nelson EC, Batalden PB, **Splaine ME**. Choosing what to measure in health care. *New Medicine*. 1997: 1:1-4.

Book Chapters & Monographs

1. Ogrinc GD, **Splaine ME**. The New Skills Curriculum at Dartmouth Medical School. In *Quality of Care Education Medical Student Outcomes Project Expert Panel Report of the American Association of Medical Colleges*, 2001.
2. **Splaine M**, Wasson J, von Reyn L, Soderland P, Jette A, Patterson J, Schreiber R, Goodlin S, Bierman A, Ladd Brown L, Mohr J, Silverman E. *Geriatric User Guide for Improvement of Care*, 1998.
3. Nelson E, **Splaine M**, Batalden P, Plume S. Measuring clinical outcomes at the front line. In *The Handbook for Managing Change in Health Care*. ASQ Quality Press. Milwaukee, WI, C Caldwell, ed. (1997), 225-248.
4. **Splaine M**, Ryan C, Wheeler M, Miller D, Loganbill H, Donohue L, Lenherr C, Galuska A, Brown L, Ross J. *The Physical Examination: A Preceptor's Teaching Manual*. (A manual used by Dartmouth Medical School from 1992-present to prepare preceptors for teaching physical diagnosis.)
5. **Splaine M**. A Student Self-study of Dartmouth Medical School. Presented to the Liaison Committee on Medical Education (LCME) of the Association of American Medical Colleges, 1991. (A survey and accompanying summary I designed to measure student opinion of medical education which is still used as a national model by the LCME for accreditation application.)

Abstracts

1. **Splaine M**, Fisher E, Sarria A, Wright B, Plohman J. Simple interventions following myocardial infarction: the impact of distance from academic centers in Manitoba [abstr]. *J. Gen. Intern. Med.* 1995; 10(4 Suppl): 83.
2. **Splaine M**, Davidson P, MacDonald D, Welch HG. The accuracy of self-diagnosis in uncomplicated urinary tract infections in women. [abstr]. *J. Gen. Intern. Med.* 1996; 11(4 Suppl): 54.
3. **Splaine M**, Tosteson A, Alexander N, Littenberg B. Does valve type influence long-term survival following aortic valve replacement? [abstr]. *J. Gen. Intern. Med.* 1996; 11(4 Suppl): 61.
4. **Splaine M**, Virnig B, Fisher E, Sarria A, Wright B, Plohman J. Clinical management and health outcomes for poor individuals following myocardial infarction in Canada. [abstr]. *J. Gen. Intern. Med.* 1996; 11(4 Suppl): 89.

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