

CURRICULUM VITAE

2012



NAME: Paul B. Batalden, M.D.

ADDRESS: 1449 Hythe Street
Saint Paul, MN 55108

EDUCATION:

Graduate: University of Minnesota Medical School; Minneapolis, Minnesota
1963 – 1967 B.S., M.D.

Undergraduate: Augsburg College; Minneapolis, Minnesota
1959 – 1963 B.A., cum laude

POSTDOCTORAL TRAINING:

1967 – 1969 Internship and Residency; Department of Pediatrics
University of Minnesota; Minneapolis, Minnesota.

LICENSE AND CERTIFICATION:

1976 – Present American Board of Pediatrics Certificate Number: 19756.

ACADEMIC & PROFESSIONAL POSITIONS:

2012 – Present Professor Emeritus, The Dartmouth Institute for Health Policy and Clinical Practice,
The Geisel School of Medicine at Dartmouth

2011 – Present Member, Board of Advisors, Armstrong Institute for Patient Safety and Quality,
Johns Hopkins Medicine, Baltimore, Maryland

2011 – Present Member, National Advisory Board, Active Aging Research Center, University of
Wisconsin, Madison, Wisconsin

2011 – Present Advisor, External Advisory Council, Anderson Center, Cincinnati Children's
Hospital and Medical Center, Cincinnati, Ohio

2010 - Present Chair, Health Foundation Improvement Science Development Group, The Health
Foundation, London, UK

2009 - 2012 Associate Director, Dartmouth Hitchcock Leadership Preventive Medicine
Residency

2009 - Present Senior Fellow & Governing Board Advisor, Institute for Healthcare
Improvement

2009 - Present Adjunct Professor, Quality Improvement and Health and Welfare Leadership, Jönköping University, Jönköping, Sweden

2008 - Present Fellow, The American College of Preventive Medicine (certificate #12055)

2006 - 2008 Panel Member, Institute of Medicine Forum on Science of Health Care Quality Improvement and Implementation

2006 - 2008 Board of Trustees, Dartmouth-Hitchcock Alliance (DHA)

2005 - 2008 Founding Chair, Institute for Healthcare Improvement/Health Professions Education Collaborative

2002 - 2009 Founder & Program Director, Dartmouth-Hitchcock Leadership Preventive Medicine Residency Program, Dartmouth-Hitchcock Medical Center, Dartmouth Medical School

2001 - 2002 Chair, Quality of Care Education Medical School Objective Project Expert Panel, AAMC

1998 - 2005 Founder and Director, U.S. Veteran's Administration National Quality Scholars Fellowship Program

1996 – 2009 Senior Vice President for Health Professional Development, Institute for Healthcare Improvement, Boston, MA

1995 – 2000 Member, Board of Directors, Allina Health Systems, Minneapolis, MN. Chair, Quality Committee

1994 – 2012 Professor of Pediatrics and Community and Family Medicine, The Dartmouth Institute for Health Policy and Clinical Practice (formerly the Center for the Evaluative Clinical Sciences), Dartmouth Medical School

1994 – 2009 Founding Director, Center for Leadership and Improvement (formerly Health Care Improvement Leadership Development), The Dartmouth Institute for Health Policy and Clinical Practice (formerly the Center for the Evaluative Clinical Sciences), Dartmouth Medical School

1991 – 1996 Chair (Founding) of the Board of Directors, Institute for Healthcare Improvement, Charter member, Boston, MA

1996 – 2009 Member, Board of Directors, Institute for Healthcare Improvement, Boston, MA

1990 – 2000 Ernest Breech Chairman, Department of Health Care Quality Improvement Education & Research, Henry Ford Health Sciences Center, Detroit, MI

1988 - 1994 Member, Board of Directors, Nashville General Hospital. Chair, Quality and Academics Committee

1986 – 1994 Vice President for Medical Care and Head, Quality Resource Group, Hospital Corporation of America, Nashville, Tennessee

1977 – 1986 Associate Professor, Co-Founder and Director, Kellogg Pharmaceutical Clinical Scientist Fellows Program, School of Pharmacy, University of Minnesota, Minneapolis, Minnesota

- 1975 – 1986 Practicing Pediatrician and Executive Vice President for Professional Management and Chief Operating Officer, Park Nicollet Medical Center
- 1975 – 1976 Quality Assurance Project Director, InterStudy, Minneapolis, Minnesota
- 1973 – 1975 Assistant Surgeon General and Director, Bureau of Community Health Services, USPHS, Department of Health, Education and Welfare, Rockville, Maryland
- 1972 – 1973 Assistant Surgeon General and Director, Community Health Service, USPHS, Department of Health, Education and Welfare, Rockville, Maryland
- 1970 – 1972 Medical Director, Job Corps, Department of Labor and Special Assistant, Office of the Administrator, Health Services and Mental Health Administration, Department of Health, Education and Welfare, Washington, D.C.
- 1969 – 1970 Clinical Associate, Acute Leukemia Service for Children, National Cancer Institute, Bethesda, Maryland

AWARDS, HONORS:

- 2010 Deming Medal, American Society of Quality
- 2009 Academy for Healthcare Improvement Inaugural Leadership Award for Advancing the Scholarship of Health Care Improvement (to be known subsequently as the Paul Batalden Leadership Award)
- 2007 Accreditation Council Graduate Medical Education's John C. Gienapp Award
- 2003 American College Medical Quality Founders' Award
- 2002 Alfred I. duPont Award for Excellence in Children's Healthcare
- 1998 Codman Award
- 1997 American Hospital Association Award of Honor
- 1995 Teaching Award, Graduating Class CECS, Dartmouth
- 1993 Chair, United States Quality Council, US Conference Board
- 1988 Membership, Institute of Medicine, National Academy of Sciences
- 1987 Examiner, Malcolm Baldrige National Quality Award
- 1985 Member, Minnesota Academy of Medicine
- 1984 Distinguished Alumnus, Augsburg College
- 1974 National Medical Assoc. Service Award (health needs disadvantaged)
- 1972 Job Corps Hall of Fame (Medical Director work)
- 1967 University of Minnesota Ski-U-Mah Student Leadership Award
- 1966 Alpha Omega Alpha (Medical School Honor Society)
- 1965 James E. Moore Student-Faculty Surgical Society
- 1963 Augsburg College Guild of Honor

MAJOR RESEARCH INTERESTS:

- Scholarship/Science of the improvement of quality, safety and value of health care
- Development and formation of health professionals

BIBLIOGRAPHY:

Journal Articles:

Batalden PB, Swaim WR, Lowman JT, "Diet Induced Red Cell Reduced Glutathione Deficiency," *J Lab Clin Med*, 71: 312, 71(2):312-318, February 1968.

Nelson SH, Batalden PB, Kraft DP, et al., "Preventive Mental Health Programming for a Non-Health Agency," *Am J Psychiatry*, 131(4):419-22, April 1974.

Fielding J, Batalden PB, Tolbert G, et al., "Coordinated Sickle Cell Program for Economically Disadvantaged Adolescents," *Am J Public Health*, 64(5):427-32, May 1974.

Nelson SH, Batalden PB, Shaevitz, et al., "Turning on a National Agency: The Job Corps Drug Workshop Experience," *J Drug Education*, 4(2):209-23, summer 1974.

Nelson SH, Wolff B, Batalden PB, "Manpower Training as an Alternative to Disadvantaged Adolescent Drug Misuse," *Am J Public Health*, 65(6): 599-603, June 1975.

Batalden PB, "A Quality Assurance Program in Action," *Group Practice-Journal of American Group Practice Association*, 18-20 &24, September/October 1977.

Batalden PB, "Group Practice: An Operational Program to Change Behavior of Ambulatory Care Providers," *JCAHO Quality Review Bulletin*, 3:12-14, 1977.

McClain MP, Batalden PB, O'Connor JP, "Assessing and Assuring Quality: A Look at the St. Louis Park Medical Center's Experience," *The Bulletin*, St. Louis Park Medical Center Research Foundation, 22(3): 109-115, 1978.

Batalden PB, McClain MP, O'Connor JP, "Quality Assurance in the Ambulatory Setting: An Operating Program," *Journal of Ambulatory Care Management*, 1-13, November, 1978.

Batalden PB, Van Dyne BJ, Cloyd J, "Pancreatitis Associated with Valproic Acid Therapy," *Pediatrics*, 64:520-22, 1979.

Zimney L, McClain MP, Batalden PB, et al., "Patient Telephone Interviews: A Valuable Technique for Finding Problems and Assessing Quality in Ambulatory Medical Care," *Journal of Community Health*, 6(1):35-42, Fall 1980.

Avery M, Batalden PB, O'Connor JP, "Medical Records Redesign: The Impact of Ambulatory Care Quality Assurance," *Topics in Health Record Management*, 1(2):25-35, 1980.

McClain MP, Stinson YS, Batalden PB, et al., "Costs of Care and Related Issues in Health Maintenance Organizations," *The Bulletin*, St. Louis Park Medical Center Research Foundation, 24(3):159-169, 1980.

Stergachis A, Batalden PB, "Prescription Refill Practices: Can They Be Improved?" *The Bulletin*, St. Louis Park Medical Center Research Foundation, 24(3):170-176, 1980.

Wertheimer AW, Batalden PB, Suntrup NL, O'Connor JP, "Pharmacists for the Future: An Innovative Experiment," *Irish Pharm J*, 58:489 & 491, December 1980.

Wilkins NA, McLean DJ, Anderson MW, Gatewood LC, Batalden PB. "The Impact of a Flexible Data Base Management System on the Decision Capabilities of Medical Professionals in an HMO Setting." 1982.

Giebink GS, Batalden PB, Russ, JN, Le CT. "Cefaclor v Amoxicillin in Treatment of Acute Otitis Media." *Am J Dis Child*, 138(3):287-292, 1984.

Avery M, Batalden PB, O'Connor JP, "Uitvloei van poliklinische kwaliteitszorg," *Mededelingen Meningen Feiten Nederlandse Vereniging Van Medisch Administrateurs*, 84-3 nr. 40, 11-18 Oktober 1984.

Steinwachs DM, Weiner JP, Shapior S, Batalden, P, Coltin K, Wasserman F. "A Comparison of the

- Requirements for Primary Care Physicians in HMOs with Projections Made by the GMENAC." *N Engl J Med*, 314:217-222, 1986.
- Daly K, Giebink GS, Le CT, Lingren B, Batalden PB, Anderson RS, Russ JN, et al., "Determining Risk for Chronic Otitis Media with Effusion," *Pediatric Infect Dis J*, 7(7):471-475, 1988.
- Batalden PB, Smith SD, Bovender JO, Hardison CD, "Quality Improvement: The Role and Application of Research Methods," *The Journal of Health Administration Education*, 7(3): 577-583, summer 1989.
- Nelson EC, Hays RD, Larson C, Batalden PB, "The Patient Judgment System: Reliability and Validity," *Quality Review Bulletin*, 15(6): 185-191, June 1989.
- Giebink GS, Batalden PB, Le CT, Russ SN, Knox SK, Anderson RS, et al., "A Controlled Trial Comparing Three Treatments for Chronic Otitis Media with Effusion," *Pediatric Infectious Disease Journal*, 9: 33-40, 1990.
- Nelson EC, Rose R, Batalden PB, "Physicians Judgments of Quality: How Do They Fit into Organization-wide Quality Improvement?" *The Quality Letter for Health Care Leaders*, 2(2):6-11, March 1990.
- Nelson EC, Ware JE, Batalden PB, "Pilot Study Methods: Design of Study," in *Medical Care* (supplement). Mark Meterko, Eugene Nelson, and Haya Rubin (eds.), Philadelphia, PA: J.B. Lippincott Company, 28(9):S15-S17 September 1990.
- Batalden PB, Nelson EC, "Hospital Quality: Patient, Physician and Employee Judgments," *International Journal of Health Care Quality Assurance*, 3(4): 7-17, November 1990.
- Wertheimer AI, Batalden PB. Introduction to "Final Report of the Kellogg Pharmaceutical Clinical Scientist Program." *Journal of Pharmacy Teaching*, 1(2): 3-6, 1990.
- Batalden, PB, "Organization-wide Quality Improvement in Health Care," *Topics in Health Record Management*, 11(3):1-12, March 1991.
- Hays RD, Larson C, Nelson EC, Batalden PB, "Hospital Quality Trends: A Short-Form Patient-Based Measure," *Medical Care*, 29(7):661-668, July 1991.
- Daly K, Giebink GS, Batalden PB, Anderson RS, Le CT, Lindgren B, "Resolution of Otitis Media with Effusion Using a Stepped Treatment Regimen of Trimethoprim-Sulfamethoxazole and Prednisone," *The Pediatric Infectious Disease Journal*, 10:500-506, July 1991.
- Nelson EC, Larson CO, Hays RD, Nelson SA, Ward D, Batalden PB, "The Physician and Employee Judgment System: Reliability and Validity of a Hospital Quality Measurement Method," *Quality Review Bulletin*, 18(9):284-292, September 1992.
- Nelson EC, Rust RT, Zahorik A, Rose RL, Batalden PB, Siemanski BA, "Do Patient Perceptions of Quality Relate to Hospital Financial Performance?" *Journal of Health Care Marketing*, 12(4):6-13, December 1992.
- Ferguson SG, Howell WT, Batalden PB, "Knowledge and Skills Needed for Collaborative Work," *Quality Management in Health Care*, 1(2):1-11, 1993.
- Batalden PB, "QHMC Interview: Paul B. Batalden, M.D.," *Quality Management in Health Care*, 1(4): 73-79, 1993.
- Batalden, PB, "The Continual Improvement of Health Care," *American Journal of Medical Quality*, 8(2):

29-31, Summer 1993.

Nelson EC, Batalden PB, "Patient-Based Quality Measurement Systems," *Quality Management in Health Care*, 2(1):18-30, Fall 1993.

Batalden PB, Stoltz PK, "A Framework for the Continual Improvement of Health Care," *Journal on Quality Improvement*, 19(10):424-452, October 1993.

Hays RD, Nelson EC, Larson CO, Batalden PB, "Short-Form Measures of Physician and Employee Judgments About Hospital Quality," *The Joint Commission Journal on Quality Improvement*, 20(2):66-77, February 1994.

Redelheim PS, Pomeroy LH, Batalden PB, "A Framework for the Continual Improvement of Behavioral Health Care," *Behavioral Health Care Tomorrow*, in two parts—2(6), November/December 1993, 3(2), March/April 1994.

Batalden PB, Nelson EC, Roberts JS, "Linking Outcomes Measurement to Continual Improvement: The Serial "V" Way of Thinking about Improving Clinical Care," *The Joint Commission Journal on Quality Improvement*, 20(4):167-180, April 1994.

Batalden PB, Stoltz PK, PA-C, "QL Perspective - Fostering the Leadership of a Continually Improving Healthcare Organization," *The Quality Letter*, 6(6):9-15, July-August 1994.

Nugent WC, Schults WC, Plume SK, Batalden PB, Nelson EC, "Designing an Instrument Panel to Monitor and Improve Coronary Artery Bypass Grafting," *JCOM*, 1(2):57-64, December 1994.

Nelson EC, Greenfield S, Hays RD, Larson C, Leopold B, Batalden PB, "Comparing Outcomes and Charges for Patients with Acute Myocardial Infarction in Three Community Hospitals: An Approach for Assessing 'Value'," *International Journal for Quality in Health Care*, 7(2):95-108, February 1995.

****1996 Winner of the Peter Reizenstein Prize awarded by the International Society for Quality in Health Care.**

Gustafson DH, Hung CF, Nelson EC, Batalden PB, "The Total Costs of Illness: A Metric for Health Care Reform," *Hospital & Health Services Administration*, Special Issue, 40(1):154-168, Spring 1995.

Nelson EC, Batalden PB, Plume SK, Mihevc NT, Swartz WG, "Report Cards or Instrument Panels: Who Needs What?" *The Joint Commission Journal on Quality Improvement*, 21(4):155-166, April 1995.

Batalden PB, Stoltz PK, "Quality Management and Continual Improvement of Health Care: A Framework," *Journal of Continuing Education in the Health Professions*, 15(3):146-164, September 1995.

Batalden PB, Mohr JJ, Strosberg M, Baker R, "A Conceptual Framework for Learning Continual Improvement in Health Administration Education Programs," *Journal of Health Administration Education*, 13: 1, 67-90 Winter 1995.

Batalden PB, "Stakeholders and Reflections on Improving Health Professions Education: What's Next?" *Joint Commission Journal on Quality Improvement*, 22(3):229-232, 1996.

Nelson EC, Mohr JJ, Batalden PB, Plume SK, "Improving Health Care, Part 1: The Clinical Value Compass," *Joint Commission Journal on Quality Improvement*, 22(4):243-258, April 1996.

Nelson EC, Batalden PB, Plume SK, Mohr JJ, "Improving Health Care, Part 2: A Clinical Improvement

Worksheet and Users' Manual," *Joint Commission Journal on Quality Improvement*, 22(8):531-548, August 1996.

Mohr JJ, Mahoney C, Nelson EC, Batalden PB, Plume SK, "Improving Health Care, Part 3: Clinical Benchmarking for Best Patient Care," *Joint Commission Journal on Quality Improvement*, 22(9):599-616, September 1996.

Nelson EC, Mohr JJ, Batalden PB, Plume SK, "Improving Health Care, Part 4: Concepts for Improving Any Clinical Process," *Joint Commission Journal on Quality Improvement*, 22(10):651-659, October 1996.

Johnson LC, Batalden PB, Corindia JT, Marrin CA, Nelson EC, Plume SK. "Clinical Process Cost Analysis: A Promising Tool for Clinical Improvement," *Quality Management in Health Care*, 5(3):52-62, 1997.

Plume SK, Nelson, EC, Batalden, PB, Splaine, ME, "Choosing What to Measure in Healthcare", *New Medicine*, 1:1-4, 1997.

Batalden PB, Mohr JJ, "Building Knowledge of Health Care as a System," *Quality Management in Health Care*, 5(3):1-12, Spring 1997.

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*, 5(3):41-51, Spring 1997.

Cohn KH, Walsh DB, Farrell TM, Batalden PB, Nelson EC, Dow RJ, Mohr JJ, Barthold J, Crichlow RW, "The Odyssey of Residency Education in Surgery: Experience with a Total Quality Management Approach," *Current Surgery*, 54(4):218-224, May 1997.

Batalden PB, "Delivering Care on the 'Front Line': A conversation with Paul Batalden," *Hospitals & Health Networks supplement: Futurefocus*, July 1997.

Batalden PB, "If improvement of the quality and value of health and health care is the goal, why focus on health professional development?" *Quality Management in Health Care*, 6(2):52-61, Winter 1998.

Nelson EC, Splaine ME, Batalden PB, Plume SK, "Building Measurement and Data Collection into Medical Practice," *Annals of Internal Medicine*, 128(6):460-466, March 1998.

Headrick, LA, Wilcock, PM, Batalden PB, "Interprofessional Working and Continuing Medical Education," *British Medical Journal*, 316:771-774, March 1998.

Batalden PB, Splaine ME, Nelson EC, Plume SK, Wasson J, "Looking at Care from the Inside Out: A Conceptual Approach to Geriatric Care," *The Journal of Ambulatory Care Management*, 21(3):1-9, July 1998.

Nelson EC, Batalden PB, Mohr JJ, Plume SK, Caldwell C, Goldberg HI, Kaluzny AD, "Building a Quality Future," *Frontiers of Health Services Management*, 15(1):3-32, Fall 1998.

Batalden PB, Cronenwett LR, Brown LL, Moffatt C, Serrell NP, "Collaboration in Improving Care for Patients: How Can We Find Out What We Haven't Been Able to Figure Out Yet?" *The Joint Commission Journal on Quality Improvement*, 24(10):609-618, October 1998.

Nelson EC, Splaine ME, Godfrey MM, Kahn V, Hess AR, Batalden PB, Plume SK, "Using Data to Improve Medical Practice by Measuring Processes and Outcomes of Care," *Joint Commission Journal on Quality Improvement*, 26:667-685, December 2000.

Weeks WB, Mills PD, Dittus RS, Aron DC, Batalden PB, "Using an Improvement Model to REDUCE Adverse Drug Events in VA Facilities," *The Joint Commission Journal on Quality Improvement*, 27(5): 243-254, May 2001.

Batalden PB, "How Shall We Prepare the Future Healthcare Professional," *Frontiers of Health Services Management*, 18(2):39-42, Winter 2001

Mohr JJ, Batalden PB, "Improving Safety On The Front Lines: The Role of Clinical Microsystems," *Quality & Safety in Health Care*, 11(1):45-50; 2002.

Batalden, PB, Stevens, DP, Kizer, KW, "Knowledge for Improvement: Who Will Lead the Learning?," *Quality Management in Health Care*, 10(3):3-9; Spring 2002.

Splaine ME, Aron DC, 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*, 10(3):10-18; Spring 2002.

Batalden PB, "Quality Improvement": noun or verb?" *Quality & Safety in Health Care*, 11(2):152; June 2002.

Batalden PB, Leach DL, Swing S, Dreyfus H, Dreyfus S, "General Competencies and Accreditation in Graduate Medical Education," *Health Affairs*, 21(5):103-111; September-October 2002.

Nelson EC, Batalden PB, Huber TP, Mohr JJ, Godfrey MM, Headrick LA, Wasson JH, "Microsystems in Health Care: Part I. Learning from High-Performing Front-Line Clinical Units," *Journal on Quality Improvement*, 28(9):472-493; September 2002.

Batalden PB, Splaine M, "What Will it Take to Lead the Continual Improvement and Innovation of Health Care in the Twenty-first Century?," *Quality Management in Health Care*, 11(1):45-54; Fall 2002.

Nelson EC, Batalden PB, Homa K, Godfrey MM, Campbell C, Headrick LA, Huber TP, Mohr, JJ, Wasson JH: Data and Measurement in Clinical Microsystems: Part 2. Creating a Rich Information Environment. *Joint Commission Journal on Quality and Safety*, 29(1):5-15, January 2003.

Ogrinc G, Splaine ME, Foster T, Regan-Smith M, Batalden PB: Exploring and Embracing Complexity in a Distance-learning Curriculum for Physicians. *Academic Medicine*, 78(3):280-285, March 2003.

Godfrey MM, Nelson EC, Wasson JH, Mohr JJ, Batalden PB: Planned Services in Microsystems: Part 3. Designing Efficient Services to Meet Patients' Needs. *Joint Commission Journal on Quality and Safety*, 29(4):159-170, April 2003.

Wasson JH, Godfrey MM, Nelson EC, Mohr JJ, Batalden PB: Planned Care in Microsystems: Part 4. Doing it Right the First Time for Every Single Patient. *Joint Commission Journal on Quality and Safety*, 29(5):227-237, May 2003.

Batalden PB, Nelson EC, Mohr JJ, Godfrey MM, Huber TP, Kosnik L, Ashling K: Microsystem in Health Care: Part 5. How Leaders are Leading. *Joint Commission Journal on Quality and Safety*, 29(6): 297-308, June 2003.

Mohr JJ, Barach P, Cravero JP, Blike GT, Godfrey MM, Batalden PB, Nelson EC. Microsystems in Health Care: Part 6. Designing Patient Safety into the Microsystem. *Joint Commission Journal on Quality and Safety*, 29(8):401-408, August 2003.

Huber TP, Godfrey MM, Nelson EC, Mohr JJ, Campbell C, Batalden PB. Microsystems in Health Care: Part 8. Developing People and Improving Work Life: What Front-Line Staff Told Us. *Joint Commission Journal on Quality and Safety*, 29(10):512-522, October 2003.

Batalden PB, Nelson EC, Edwards WH, Godfrey MM, Mohr JJ. Microsystems in Health Care. Part 9: Developing Small Clinical Units to Attain Peak Performance. *Joint Commission Journal on Quality and Safety*, 29(11):575-585, November 2003.

Nelson EC, Splaine MD, Plume SK, Batalden PB. Good Measurement for Good Improvement Work. *Quality Management in Health Care*. 13(1): 1-16, 2004.

Batalden PB, Foster TF. When any change program will do...A report from the field. *ACGME Bulletin*. Spring 2004.

Mohr JJ, Batalden PB, Barach P. Integrating patient safety into the clinical microsystem. *Quality & Safety in Health Care*. 13 (Suppl II):ii34-ii38, December 2004.

Ducatman AM, Vanderploeg JM, Johnson M, Rubin J, Harber P, Sokas R, Harmon RG, Rumm P, Nilson E, Batalden PB, Merchant G, Krauss M, Goldberg RL, Valdex M, Dismuke SE, Wagner GR, Leniek K, Rosenthal J. "Residency Training in Preventive Medicine: Challenges and Opportunities." *Am J Prev Med*, 28(4):403-412, May 2005.

Godfrey MM, Nelson EC, Batalden PB: "Clinical Microsystems A Path to Healthcare Excellence." Dartmouth College, Hanover, NH. 2005.

Nelson EC, Homa K, Mastanduno M, Fisher E, Batalden P, Colacchio T, Formella N, Foster T, Likosky D, Gardent P, Guth J, Malcolm E, Trombly S, Varnum J. "A Healthcare System's Experience with Public Reporting Comprehensive Quality and Cost Data: A Transparency Initiative." *Joint Commission Journal on Quality and Patient Safety*, 31(10):573-584, October 2005.

Ayers LR, Beyea SC, Godfrey MM, Harper DC, Nelson EC, Batalden PB. "Quality Improvement Learning Collaboratives." *Quality Management in Health Care*, 14(4):234-247, October 2005.

Davidoff F, Batalden PBB. "Toward stronger evidence on quality improvement. Draft publication guidelines: the beginning of a consensus project." *Quality & Safety in Health Care*, 14:319-325, October 2005.

Batalden PB, Principal Investigator. "Creating Something Special – Where Exemplary Care and Learning Come Together." The Robert Wood Johnson Foundation Exemplary Learning Site Grant (ID #051410) White Paper. Center for the Evaluative Clinical Sciences, Dartmouth Medical School, June 2006.

Baily MA, Bottrell M, Lynn J, Jennings, Batalden PB, et al. "The Ethics of Using QI Methods to Improve Health Care Quality and Safety." *The Hastings Center Report*. Projected funded by the Agency for Healthcare Research and Quality, grant #1R13HS13369. July-August 2006.

Batalden PB, Ogrinc G, Batalden M. "From One to Many." *Journal of Interprofessional Care*, 20(5):549-551, October 2006.

Batalden PB, Davidoff F. "What is "quality improvement" and how can it transform healthcare?" *Quality & Safety in Health Care*, 16:2-3, February 2007.

Lynn J, Baily MA, Bottrell M, Jennings B, Levine RJ, Davidoff F, Casarett D, Corrigan J, Fox E, Wynia MK, Agich GJ, O'Kane M, Speroff T, Schyve P, Batalden P, Tunis S, Berlinger N, Cronenwett L, Fitzmaurice, JM Dubler NN, James B. "The Ethics of Using Quality Improvement Methods in Health Care." *Ann Inter Med*, 146(9):666-673, May 2007.

Leach DC, Batalden PB. "Preparing the Personal Physician for Practice (P⁴): Redesigning Family Medicine Residencies: New Wine, New Wineskins Learning, Unlearning and a Journey to Authenticity." *Special Communication* commissioned for the P⁴ Initiative. *Journal of the American Board of Family Medicine*, 20(4):342-347, July-August 2007.

Batalden PB, Davidoff F. "Teaching Quality Improvement: The Devil is in the Details." Editorial in *JAMA*, 298(9):1059-1061, September 5, 2007.

Foster TC, Johnson JK, Nelson, EC, Batalden PB. "Using a Malcolm Baldrige Framework to Understand High-Performing Clinical Microsystems." *Quality & Safety in Health Care*, 16:334-341, October 2007.

Foster TC, Regan-Smith M, Murray C, Dysinger W, Homa K, Johnson LM, Batalden PB. "Residency Education, Preventive Medicine, and Population Health Care Improvement: The Dartmouth-Hitchcock Leadership Preventive Medicine Approach." *Academic Medicine*, 83(4):390-398, April 2008.

Nelson EC, Godfrey MM, Batalden PB, Berry SA, Bothe AE, McKinley KE, Melin CN, Muething SE, Moore LG, Wasson JH, Nolan TW. "Clinical Microsystems Part 1: The Building Blocks of Health Systems." *The Joint Commission Journal on Quality & Patient Safety*, 34(7):367-378, July 2008.

Wasson JH, Anders SG, Moore, LG, Ho L, Nelson EC, Godfrey MM, Batalden PB. "Clinical Microsystems, Part 2: Learning from Micro Practices about Providing Patients the Care They Want and Need." *The Joint Commission Journal on Quality & Patient Safety*, 34(8):445-452, August 2008.

Godfrey MM, Melin CN, Muething SE, Batalden PB, Nelson EC. "Clinical Microsystems, Part 3: Transformation of Two Hospital Using Microsystem, Mesosystem, and Macrosystem Strategies." *The Joint Commission Journal on Quality & Patient Safety*, 34(10):591-603, October 2008.

Homa K, Regan-Smith M, Foster T, Nelson EC, Liu S, Kirkland K, Heimark J, Batalden PB. "Coaching Physicians in Training to Lead Improvement in Clinical Microsystems: A Qualitative Study on the Role of the Clinical Coach." *The International Journal of Clinical Leadership*, 16(1):37-48, October 2008.

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Publication guidelines for quality improvement in health care: evolution of the SQUIRE project." *Qual Saf Health Care*, 17(Suppl 1):i3-i9, October 2008.

McKinley KE, Berry SA, Laam LA, Doll MC, Brin KP, Bothe Jr A, Godfrey MM, Nelson EC, Batalden PB. "Clinical Microsystems, Part 4: Building Innovative Population-Specific Mesosystems." *The Joint Commission Journal on Quality & Patient Safety*, 34(11):655-663, November 2008

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Development of the SQUIRE Publication Guidelines: Evolution of the SQUIRE Project." *The Joint Commission Journal on Quality & Patient Safety*, 34(11):681-687, November 2008.

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Publication guidelines for improvement studies in health care: evolution of the SQUIRE Project." *Ann Intern Med*. 149(9):670-76, November 2008.

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Publication guidelines for improvement studies in health care: evolution of the SQUIRE Project." *J Gen Intern Med*, 23(12):2125-30, December 2008.

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Publication guidelines for improvement studies in health care: evolution of the SQUIRE Project." *Canadian Journal of Diabetes*, 32(4):271-279, December 2008.

Davidoff F, Batalden PB, Stevens DP, Ogrinc GS, Mooney SE. SQUIRE Development Group. "Publication guidelines for improvement studies in health care: evolution of the SQUIRE Project." *BMJ*, 338(a3152):402-404, 2009.

Batalden P, Leach D, Ogrinc G. "Knowing is not enough. Executives and educators must act to address challenges and reshape healthcare." *Healthcare Executive*, 24(2):68-70, March-April 2009.

Liu SK, Homa K, Butterly JR, Kirkland KB, Batalden PB. "Improving the simple, complicated and complex realities of community-acquired pneumonia." *Qual Saf Health Care*, 18:93-98, April 2009.

Pastel LC, Liu SK, Homa K, Bradley E, Batalden PB. "Bridges to Excellence: Improving Care for Patients with Diabetes at a Rural Primary Care Clinic by Empowering Licensed Nursing Assistants with a Flow Sheet Tool." *Clinical Diabetes*, 27(3):115-118, Summer 2009.

Batalden PB, Leach DC. "Sharpening the Focus on Systems based Practice." *Journal of Graduate Medical Education*, 1(1):1-3, September 2009

Ogrinc G, Batalden PB. "Realist Evaluation as a Framework for the Assessment of Teaching about the Improvement of Care." *J. Nursing Education*, 48(12):661-667, December 2009.

Splaine ME, Ogrinc, G, Gilman SC, Aron DC, Estrada CA, Rosenthal GE, Lee S, Dittus RS, Batalden PB. "The Department of Veterans Affairs National Quality Scholars Fellowship Program: Experience From 10 Years of Training Quality Scholars." *Academic Medicine*, 84(12):1741-1748, December 2009.

Philibert I, Johnston MJ, Hruska L, Shapior JA, Friedmann P, Gardent P, Batalden PB, Leach DC. "Institutional Attributes Associated with Innovation and Improvement: Results of a Multisite Study." *Journal of Graduate Medical Education*, 2(2):306-312, June 2010.

Batalden PB. "The leader's work in the improvement of healthcare." *Qual Saf Health Care*, 19(5): 367-368, October 2010.

Batalden P, Bate P, Webb D, McLoughlin V. "Planning and leading a multidisciplinary colloquium to explore the epistemology of improvement." *BMJ Qual Saf*, 20(1):i1-i4, April 2011.

Vincent C, Batalden P, Davidoff F. "Multidisciplinary centres for safety and quality improvement: learning from climate change science." *BMJ Qual Saf*, 20(1):i73-i78, April 2011.

Batalden P, Davidoff F, Marshall M, et al. "So what? Now what? Exploring, understand and using the epistemologies that inform the improvement of healthcare." *BMJ Qual Saf*, 20(1):i99-i105, April 2011.

Ogrinc G, Nierenberg DW, Batalden PB. "Building Experiential Learning About Quality Improvement Into a Medical School Curriculum: The Dartmouth Experience." *Health Affairs*, 30(4):716-722, April 2011.

Books:

Batalden PB, O'Connor JP. Quality Assurance in Ambulatory Care. Rockville, MD, Aspen Publishers, Inc., 1980.

Nelson EC, Batalden PB, Ryer JC. Clinical Improvement Action Guide. JCAHO, Oak Brook Terrace, IL, 1998.

Nelson EC, Batalden PB, Godfrey MM. Quality By Design: A Clinical Microsystems Approach. Jossey-

Bass, March 2007.

Nelson EC, Batalden PB, Lazar J. Practice-Based Learning and Improvement: A Clinical Improvement Action Guide. Joint Commission Resources, October 2007.

Batalden PB. (ed) Lessons Learned in changing healthcare...and how we learned them. Longwoods Publishing Corporation, Toronto, Canada, 2010.

Nelson EC, Batalden PB, Godfrey MM, Lazar JS. Value by Design: Developing Clinical Microsystems to Achieve Organizational Excellence. Jossey-Bass, February 2011.

Batalden PB, Davidoff F. (eds/authors) Knowledge for Improvement. *BMJ QS* Supplement; April, 2011.

Batalden PB, Foster T. (eds/authors) Sustainably Improving Health Care: Creatively Linking Care Outcomes, System Performance and Professional Development. Radcliffe, (in process).

Book Chapters:

Batalden, PB. "Ambulatory Quality Assurance in Group Practice: A Realistic Model," in Ambulatory Medical Care Quality Assurance. GA Giebink and N White (eds.), LaJolla Health Science Publications, 1977.

Stergachis A, Batalden PB, Gatewood LC, et al. "A Decision Support System for Ambulatory Drug Utilization Review," in Proceedings of the 2nd International Conference on Systems Science in Health Care. Pergamon Press, Summer 1981.

Visscher W, Mandel JS, Batalden PB, et al. "A Case-Control Study Exploring Possible Risk Factors for Childhood Otitis Media," in Recent Advances in Otitis Media with Effusion. D. J. Lim (ed.), B.C. Decker Co., Philadelphia, p. 9, 1984.

Batalden PB, Buchanan ED. "Industrial Models of Quality Improvement," in Providing Quality Care: The Challenge to Clinicians. By N. Goldfield and D.B. Nash (eds.), The American College of Physicians, Philadelphia, PA, 1989.

Batalden PB, Vorlicky LN. "Adaptation of the 14 Points to Medical Service," in Out of the Crisis. By W. Edwards Deming, The Massachusetts Institute of Technology, Center for Advanced Engineering Study, Cambridge, MA, 1989.

Batalden PB. Foreword. Pharmacy and the U.S. Health Care System. By J.E. Fincham and A.I. Wertheimer (eds.), Pharmaceutical Products Press, Binghamton, NY, 1991.

Batalden PB, Nolan TW. "Knowledge for the Leadership of Continual Improvement of Health Care," in The AUPHA Manual of Health Services Management. Association of University Programs in Health Administration, Robert J. Taylor and Susan B. Taylor (eds.), Aspen Publishers, Inc., 1994.

Kravette MS, Mauer BJ, Jarvis DA, Mockler RW, Batalden PB. Foreword. The Primary Care Performance Management System. Centralink Publications, Tiburon, CA, 1997.

Batalden PB, Evans JP, Ryer JC. "Weaving a Tapestry of Change: Quality and Values in Education," in Mission Management: A New Synthesis. Association of Academic Health Centers, Washington, DC, 1998.

Nelson EC, Mihevc N, Gentry M, Kehne D, Levine A, Batalden PB, Plume SK. "Measuring Healthcare System Quality and Performance" in The Handbook for Managing Change in Healthcare. Chip Caldwell, ASQ Healthcare Series, Milwaukee, WI, 249-262, 1998.

Nelson EC, Splaine ME, Batalden PB, Plume SK. "Measuring Clinical Outcomes at the Front Line" in The Handbook for Managing Change in Healthcare. Chip Caldwell, ASQ Healthcare Series, Milwaukee, WI, 225-247, 1998.

Nelson EC, Batalden, PB. "Knowledge for Improvement: Improving Quality in the Micro-systems of Care" in Managing Quality of Care in a Cost-Focused Environment, Goldfield N and Nash DB (ed.), American College of Physician Executives, Tampa, FL, and Aspen Publishers, Inc., Gaithersburg, MD, 75-88, 1999.

Batalden PB, Mohr JJ. "An Invitation from Florence Nightingale: Come Learn About Improving Health Care" in Florence Nightingale: Measuring Hospital Care Outcomes, Neuhauser D and Blanchard CE (ed.), Joint Commission, Oakbrook Terrace, IL, 11-16, 1999.

Batalden PB. Preface. Benjamin Franklin: Verification & Validation of the Scientific Process of Healthcare. By Mark A. Best, Duncan Neuhauser & Lee Slavin. Trafford Publishing, Canada, pp vi-viii, 2003.

Batalden PB, Leach DC. "The Inner and Outer Life in Medicine: Honoring Values, Relationships, and the Human Element in Physicians' Lives" in Living the Questions. Intrator, Sam M. (ed), Jossey-Bass, San Francisco, CA, pp 210-217, 2005.

Mohr JJ, Batalden PB. "Integrating Approaches to Health Professional Development with Approaches to Improving Patient Care" in Continuous Quality Improvement In Health Care, 3rd Edition. McLaughlin, K and Kaluzny, A. (editors). Aspen Publishers, Maryland, 2005.

Mohr JJ, Batalden PB, Barach P. "Inquiring Into the Quality and Safety of Care in the Academic Clinical Microsystem" in Continuous Quality Improvement In Health Care, 3rd Edition. McLaughlin, K and Kaluzny, A. (editors). Aspen Publishers, Maryland, 2005.

Batalden PB, Nelson EC, Gardent PB, Godfrey MM. "Leading the Macrosystem and Mesosystem for Microsystem Peak Performance" in From Front Office to Front Line: Essential Issues for Health Care Leaders. Berman, Steve (ed), Joint Commission Resources, Inc. Oakbrook Terrace, IL, pp 1-40, 2005.

Batalden PB. Foreword. Fundamentals of Health Care Improvement: A Guide to Improving your Patients' Care. Joint Commission Resources, Inc. Oakbrook Terrace, IL, vii-viii, 2008.

Batalden PB. Introduction. "Moving Forward Together through Reflection and Sharing." in Lessons Learned in changing healthcare ... and how we learned them. Batalden, Paul (ed), Longwoods Publishing Corporation, Toronto, Canada, pp 9-12, 2010.

Batalden PB. "Make the Most of Your Turn." in Lessons Learned in changing healthcare ... and how we learned them. Batalden, Paul (ed), Longwoods Publishing Corporation, Toronto, Canada, pp 179-192, 2010.

Batalden PB. Conclusion. "Threads in the Tapestry of the Lessons." in Lessons Learned in changing healthcare ... and how we learned them. Batalden, Paul (ed), Longwoods Publishing Corporation, Toronto, Canada, pp 193-198, 2010.

Other Publications:

Batalden PB, Gillem T. "Hospitalwide Quality Improvement Storytelling," Quality Resource Group, Hospital Corporation of America, Nashville, TN 1989.

Hospital Corporation of America, Quorum, and Executive Learning, Inc. "Q101 Leader Workbook," Quality Resource Group, Hospital Corporation of America, Nashville, TN 1990.

Batalden, PB. "Some Reflections on Senior Leadership, Coaching, and Hospital Wide Quality Transformation," Quality Resource Group, Hospital Corporation of America, Nashville, TN, 1991.

Batalden PB. "Building Knowledge for Improvement - An Introductory Guide to the Use of FOCUS-PDCA," Quality Resource Group, Hospital Corporation of America, Nashville, TN, July 1992.

Batalden PB. "Organizing Healthcare as a System - An Annotated Guide," Quality Resource Group, Hospital Corporation of America, Nashville, TN, November 1992.

Batalden PB, Morahan PS, Richman RC, Shoff S. "Planning, Learning and Rehearsing the Future for Academic Health Centers: Success in the Face of..." 1998 ELAM Forum on Emerging Issues: Proceedings, MCP Hahnemann University, Philadelphia, PA, March 1999.

Shannon KC, Dysinger, WS, Nelson EC, Batalden PB. *Office of the Future*. FP Essentials, Edition No. 295, AAFP Home Study. Leawood, Kan: American Academy of Family Physicians, December 2003.

Other Media:

Deming WE, Batalden PB. "A New Way of Thinking for Health Care," Parts I & II, *The Deming Library*, Films Incorporated, August 1994.

Godfrey MM, Nelson EC, Batalden PB. *Clinical Microsystems: A Path to Healthcare Excellence*. Workbooks and DVD. Trustees of Dartmouth College. Copyright 2005.

Interviews:

"Center View Interview: Paul Batalden, MD." *Center View*, May 1997.

"A Global View" by Rosemary Lunardini. Interview with Paul Batalden, MD. *Dartmouth Medicine*, Winter 1998.

"What System?" by Doug McInnis. Interview with Paul Batalden, MD; Eugene C. Nelson, DSc, MPH; Marjorie Godfrey, RN, MS. *Dartmouth Medicine*, p28-35, Summer 2006.