

PAUL BARACH, BSc, MD, MPH

CURRICULUM VITAE

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ADDRESS

Children's Research Center of Michigan
 Children's Hospital of Michigan
 Wayne State University School of Medicine
 3901 Beaubien, Room 5177, Carl's Bldg.
 Detroit, MI 48201

Phone: 773-612-7039
Email: pbarach@gmail.com;
Web: [LinkedIn profile](#) [Academia profile](#)
 Loop profile: 118529
 Scopus Author ID: 7004063917
 NPI: 1922500461

PROFESSIONAL/ACADEMIC APPOINTMENTS

- 5/2020-Current Honorary Professor, Department of Anesthesiology, School of Medicine, Muhimbili University of Health and Allied Sciences-MUHAS, Tanzania
- 1/2020- current Honorary Professor, Department of Anesthesia and Critical Care, Faculty of Medicine, Brisbane, University of Queensland, Australia
- 6/2018-current Lecturer (3/2019), Senior Advisor (part time), Dean David Nash, Jefferson College of Population Health, Thomas Jefferson University, Philadelphia, PA, USA
- 2019-currect Visiting Professor, Lecturer, Department of Health Law & Science, Interdisciplinary Research Institute for Health Law and Science, Sigmund Freud University Vienna, Austria
- 2019-current Visiting Professor, National Cancer Center Graduate School of Cancer Science and Policy, Seoul, Korea
- 2018-curent Visiting Professor, Chair International Advisory Board, Riphah Institute for Safety and Quality, Riphah University, Islamabad, Pakistan
- 2015-current Clinical Professor, Children's Hospital of Michigan, Wayne State School of Medicine
- 2015-2015 Senior Scientist, Kaiser Permanente Department of Research and Evaluation, Kaiser Permanente Southern California.
- 2014-2015 Guest Professor II, Department of Health Management and Health Economics, University of Oslo, Norway
- 2012 -2014 Visiting Professor, Department of Anesthesia, University College Cork, School of Medicine, Cork, Ireland
- 2011-2015 Guest Professor II, University of Stavanger, Stavanger, Norway
- 2008-2009 Professor and Director, Center for Injury and Risk Management, University of New South Wales, Sydney, Australia
- 2007- 2012 Professor (visiting—2007-2011) and Senior Research Fellow (2011-), Department of

Anesthesia and Center for Patient Safety Utrecht University Medical Center, Utrecht, Netherlands.

- 2004- 2012 Associate Professor, College of Public Health, University of South Florida, Tampa, Florida
- 2003 –2006 Associate Professor (tenure tract) University of Miami - Department of Anesthesiology and Critical Care; May, University of Miami, Secondary Appointments as Associate Professor, Departments of Pediatrics, Medicine, Public Health
- 2001 - 2003 University of Chicago - Robert Wood Johnson Clinical Scholars Program; Faculty, Chicago
- 2000 -2003 Assistant Professor, University of Chicago, Dept of Anesthesia/Critical Care, Chicago
- 1999 - 2000 Assistant in Anesthesia/Fellow, Massachusetts General Hospital, Harvard Medical School, Boston, MA.

EDUCATION AND TRAINING

- M.P.H. June 1992 -1998 MPH (Masters of Public Health/(Health Services Administration), Hebrew University School of Public Health and Community Medicine, Jerusalem; *Research Thesis*: The effects of raising the Speed limits to 65 mph on Interurban Highways, 1997, degree conferred 1998, **Advisor**: Professor Elihu Richter.
- M.D. September 1985 - January 1990 M.D. Hebrew University Hadassah Medical School, Jerusalem; *Research Honors Thesis*: The regulation of parathyroid gene expression in experimental uremia, 1990. **Advisor**: Professor Justin Silver.
- B Med Sci. September 1982 - July 1985 B. Med. Sc, , Hebrew University Hadassah Medical School, Jerusalem
Research Honor Thesis: A Paradigm for the use of Trans-Cutaneous Stimulation in Assessing Tolerance and Dependency in Drug Related Phenomena, 1985. **Advisor**: Prof Marta Weinstock.

POST DOCTORAL TRAINING

- 2001 Harvard Medical School Medical Education Leadership Program Diploma-
Josia Macy Foundation Institute Scholarship
- January 2000 - June 2000 Advanced Training Quality Improvement Fellowship Program, Institute for Health Care Salt Lake City, UT; under Dr Brent James, MD, MS.
- January 1999-January 2000 Fellow, Critical Care, Department of Anesthesia and Critical Care, Massachusetts General Hospital, Harvard Medical School, Under Bill Hurford.
- Sept 1998-January 1999 Fellow, Patient Safety Epidemiology Research Fellowship, Massachusetts General Hospital, Under Carl Rosow, MD, PhD and Emery Brown, MD, PhD
- January 1998 - August 1998 Fellow, Cardiac Anesthesia Fellowship, Massachusetts General Hospital; Harvard, Medical School, under A/Prof Michael D’Ambra, MD.

- August 1995 - July 1998 Resident, Dept. Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, Program Director, A/Professor Greg Koski, MD, PhD. Clinical Fellow, Anesthesia.
- August 1994 - June 1995 Intern, Dept. Surgery, Boston City Hospital-Boston University; under Dr Fred Millman, MD.
- Feb 1990-July 1994 Military Service, Israeli Defense Forces, honorably discharged at the rank of Major, 1999 (1987-1999)
- Feb 1989 - January 1990 Rotating Internship, Tel Hashomer Hospital, Tel Aviv, Israel.

Clinical Activities

LICENSURE AND CERTIFICATION

- American Board of Anesthesiology, Critical Care, 2002, No. 32305
- American Board of Anesthesiology, 1999, No. 32305
- Florida Medical License ME-87606, active
- North Carolina Medical License, 189228, active
- Illinois Medical License-036-103377, active
- Massachusetts Medical License 1994 - No. 156305, inactive
- Israel Medical License 21331, inactive

Certification Courses:

- Hyperbaric Medicine Provider Certification, 2000
- Intermountain Health Care Advanced Training Program, 2000
- FLEX, FMGEMS, ECFMG; ATLS, ACLS - Instructor; PALS
- Advanced Crew Resource and Management I, II (ACRM)
- Combat Trauma Life Support (CTLS)-1991
- Medical Response to Biological Warfare and Terrorism Course -USAMRID 1998
- Disaster preparedness, Israeli Military Medical Academy, 1991

Scientific Impact

- Total number of citations = 11070; H-index = 52; i10-index = 125
- Over 450 invited talks in the US and around the world;
- Total grant dollars with Barach as PI: *\$7,250,445; overall \$15,000,000*
- 5 books published, 1 under contract
- Elected Fellow, AUA Association of University Anesthesiologists, highest honor society

Administrative Activities MANAGEMENT

- 2/2020** Clinical Lead, World Health Innovation Summit, <https://whis.uk>
- 1/2020** Honorary Professor, Department of Anaesthesia & Perioperative Medicine, Faculty of Medicine, University of Queensland, Australia
- 10/2019** World Health Innovation Summit, Senior Clinical Advisor, <https://www.worldhealthinnovationsummit.com/copy-of-team>
- 6/2019-current** Senior Advisor, Relia Healthcare Advisors, <https://www.reliahealthcare.com/>
- 4/2020-current** Chief Medical Officer, Reliant MD
- 1/2016-current** Chief medical Officer, Pegwin, <https://www.linkedin.com/company/pegwin>
- 11/2018-2019** Advisor to Norwegian National Patient Safety Agency, UKOM
- 9/2018-8/2020** Chair, Patient Safety Commission, World Society of Intravenous Anesthesia
- 11/2017-4/2018** Senior consultant and Project Head on Reorganization of the Omani Medical Specialty Board, Oman
- 11/2017-4/2018** Member of Advisory Board for the 3rd Global Health Ministerial Summit on Patient Safety, Tokyo, Japan in April 13-14, 2018.
- 7/2017-2020** Senior Advisor to CMO on Safety and Quality, Stavanger University Hospital, Norway
- 6/2017- current** Board member, International Academy of Health and Design
- 2/17/2017** Co-Chair, Public Health Research Day, DG Research, European Commission, Brussels, BE
- 7/ 2017** Judge of the Asian Hospital Management Annual meeting Awards 2017
- 5/2017-current** World Federal Societies of Anesthesia (WFSA), Patient Safety and Quality Subcommittee
- 1/2017-1/2018** Senior Advisor to Hakeem, National E-Health Program, Amman, Jordan
- 10/2016-current** Quiet Coalition, Scientific Advisory Committee, <http://thequietcoalition.org>
- 2/2015-9/2015** Chief Medical Adviser, Sanigest Internacional, National Health Insurance Implementation, Commonwealth of the Bahamas (part time position)
- 2014-2017** Senior Medical Director, Revenue, Consulting and Management Services, The Advisory Board Company (part time position)

- 2009-2012** Principal Investigator and Scientific Director of European Handover Research Consortium, European Union DG Research sponsored FP-7.
- 2010-2013** Board Member, Center for Design Research in Architecture (CADRE). HKS Architects.
- 2009-2010** Chair of Research Coalition, Center for Health Design, CA
- 2009-2012** Chair, Patient Safety Committee, ad-hoc Board member, World Society of Intravenous Anesthesia, (WSIVA)
- 2008-9** Acting Head, School of Risk and Safety Sciences, University of New South Wales, Australia
- 2008-2009** Director Injury Risk Management Center (IRMRC), Faculty of Science, University of New South Wales, Australia
- 2006** Director Strategic Planning for Patient Safety, University of Miami, Miami, FL
- 2004-2005** Project Leader, Florida Patient Safety Corporation Florida Department of Public Health, Tallahassee, Florida
- 2003-2006** Medical Director, Quality and Safety, Jackson Memorial Hospital, Associate Dean for Patient Safety and Quality Improvement, Founding Director of the Center for Simulation, University of Miami and Jackson Memorial Hospital, Miami, Florida
- 2001-2005** Editor, *BMJ Quality and Safety in Healthcare*
- 2001-2003** Chair, Hospital Medication Safety Taskforce, University of Chicago
- 1998-1999** Board of Trustees Member, Massachusetts Medical Society (MMS)

PROFESSIONAL ACTIVITIES

Consultancies

Principal, J Bara Innovation, Inc. Providing independent advisory and strategic services on patient safety to anesthesia departments, academic medical centers, universities, hospitals and healthcare agencies. (2010-ongoing)

12/2018-current Safety advisor to SVP, Rapid City Hospitals

Assist in improving surgical outcomes

10/2017-3/2018 Senior consultant and Project Head on Reorganization of the Omani Medical Specialty Board, Muscat, Oman

Hired by EY to lead on 2 phases of multi-phase projects to:

- Define the client's vision for change
 - Clearly identify and articulate a narrative for change for leadership and OMSB agency
 - Identify gaps between current and future organizational design
 - Anticipate and mitigate potential roadblocks across the organization
 - Support OMSB leaders in championing change through their organization.

7/2017- Senior Advisor, Patient Safety and Quality Improvement, Stavanger University Hospital, Stavanger, Norway

3/1/2017-1/2018 Senior Advisor, National E Health Program, Amman, Jordan

10/2016-11/2017 Senior Consultant, Physician Leadership Institute, Center for Transformation and Innovation, OR First Starts and Perioperative High Reliability Program, LifePoint-UP Marquette Hospital, Michigan

5/2016-10/2016 Development and Implementation of a National Safe Surgery Program, Sudan Ministry of Health, WHO funded project.

2-11/2015 Senior Scientist, Department of Research & Evaluation, Kaiser Permanente Southern California, Pasadena, CA

Investigator and consultant on \$15,000,000 PCORI-funded population health project: Achieving Patient-Centered Care and Optimized Health In Care Transitions by Evaluating the Value of Evidence (Project ACHIEVE) with the following responsibilities as below:

- Identify the transitional care outcomes and components that matter most to patients, caregivers and communities.
- Determine which evidence-based transitional care components (TCCs) or clusters most effectively yield patient and caregiver desired outcomes overall and among diverse patient and caregiver populations in different types of care settings and communities.
- Identify barriers and facilitators to the implementation of specific TCCs or clusters of TCCs for different types of care settings and communities.

- Develop recommendations for dissemination and implementation of the research findings on the best evidence regarding how to achieve optimal TC services and outcomes to patients, caregivers and providers.

3-8/ 2015 Chief Medical Advisor to Sanigest International, Nassau, Bahamas

Provide leadership and consultancy services for the Bahamian Population Health National Insurance Scheme implementation project including responsibilities to:

- Develop strategy and conceptual framework (including key drivers/interventions) for delivery system transformation at population and clinical service line levels, including approaches to address the following system-level domains: dashboard dimensions/measures, governance, integration/alignment structures, finance, core infrastructures (quality improvement, measurement/analytics, health information technology), communication/engagement, training/development, and academic mission alignment.
- Responsible for resource management, with particular emphasis on financial management.
- Develop detailed training plans in population health, preventive care and community integration, including the objectives, content, trainers, audience, tools.
- Develop a risk management and medical indemnity framework for the Commonwealth of Bahamas.

2014-2017 (part time) Advisory Board Company, Washington, DC

Senior Medical Director, Revenue Cycle Solutions

Responsibilities include:

- Advise on overall strategy and conceptual framework (including key drivers/interventions) for delivery system transformation at population and perioperative service line levels, including approaches to address the following system-level domains: dashboard dimensions/measures, governance, integration/alignment structures, finance, core infrastructures (quality improvement, measurement/analytics, health information technology), communication/engagement, training/development, and academic mission alignment.
- Work with clients on implementing population health-related quality improvement and information technology initiatives and infrastructure, including *Advisory Board-Crimson Population Risk Management* application.
- Serve as a Subject Matter expert for clinically focused revenue cycle engagements, such as clinical documentation improvement and ICD 10 Implementation projects
- Engage and educate executives and physicians through onsite research briefings, educational sessions, and facilitated discussion

2013-2014 Senior consultant to AccessCare, North Carolina

Co-led if project for AccessCare NC to identify opportunities to increase its financial efficiency and effectiveness in delivering healthcare service to Medicaid customers. We used a multi-phased DMAIC approach consisting of Assessment – Discovery – Action – Manage – Sustain (ADAMS).

I co-developed semi-structured tools and collaborated in instrument development, data collection, statistical assessment and a new organizational strategy.

2012-current Chief Medical Officer, CRG Medical/Pegwin

Responsible for building coalitions internally and with State and International governments, nonprofit and

private sector organizations, and international organizations to achieve common goals around patient safety, patient activation, and quality improvement.

2015-current Member of Chicago, LEARN CTSA Collaborative

The LEARN Collaborative is a CER partnership between the 3 Chicago-Area CTSA's and affiliated hospitals and the University HealthSystem Consortium (UHC) to establish clinical research and informatics infrastructure to perform cutting-edge comparative effectiveness research (CER) on hospitalized patients in Chicago-area academic medical centers (AMCs): 1) University of Chicago and its CTSA affiliates, Rush University and Northshore University HealthSystem, 2) Northwestern University, and 3) University of Illinois at Chicago.

Role on Chicago LEARN assisting with

- Developing and working to expand and improve the ability to effectively screen for, recruit and consent, characterize, intervene on, and obtain long-term follow-up on patients.
- Developing linkages to electronic health records and payer administrative data (e.g., Medicare) to allow utilization to be tracked even when it extends outside a health system.
- Enhancing opportunities to perform observational studies
- Developing linkages from clinical data to existing large scale data, both for identified and de-identified data.

Jan/2015- July/2015 Synensis, LLC, Peachtree, GA

Senior Medical Advisor

Responsibilities:

Part time effort working with Synensis who work with more than 500 hospitals around the world in pursuit of zero preventable harm by measuring and improving quality and patient safety, eliminating the costs of under-performing processes, and, ultimately, saving lives.

2014-2015 National Board of Medical Examiners (NBME), Philadelphia

Innovation Scholar

- Provide information about relevant medical education and new training trends and technologies.
- Provide presentations and/or reports to the NBME to educate staff about areas of topical interest.
- Develop proposals and prototypes for new assessment opportunities for consideration within the NBME.

2013-2014 Association of Staff Medical Doctor Specialists (ASMOF), New South Wales, Australia

Advisor and develop tools to engage physicians working with New South Wales Health Department.

2013- 2014 New South Wales, Health Department (HETI)

Advisor on medical education and leadership training, supervision and competency assessment.

**2012- 2013 Healthcare Quality Improvement Partnership (HQIP), National Health Services (NHS)
London, UK**

Senior Consultant and Project head to UK National Health Services (NHS) agency HQIP working with CEO

Robin Burgess, on health research and policy related to assessing uptake of clinical audit and developing new methods for NHS clinician engagement including key stakeholder interviews, designing an implementation and robust evaluation plan.

2012 –2014 Visiting Professor University College, Cork, Ireland

Advisor to Dean School of Medicine, Professor George Shorten, and visiting professor to the University College, Cork, Ireland (see publications).

Responsibilities:

Instrumental in setting the vision around e-learning, simulation and innovative medical technology (www.ucc.ie/en/telforhealth). Assisted group in grant writing, educational strategy, philanthropy and cultivating community opportunities. Member of the ASSERT for Health **Research Group at UCC** and the healthcare education research group at the School of Medicine. ASSERT for Health comprises medical educators and experts in technology, human factors and engineering who together develop novel applications of TEL (technology enhanced learning) to undergraduate and postgraduate healthcare education. The projects included include e-learning, simulation, innovative medical technology and mobile applications.

2012-2013 National E-Health Transition Authority (NEHTA), Sydney, Australia

Senior consultant to Dr John Zelcer, Chief Medical Officer around Health Information Technology/EMR planning, clinical governance and quality implementation (see publications).

2012 – 2014 Comcare, Canberra, Australia

Senior advisor to the CEO, Paul O'Connor, advising and implementation strategies to reduce harm and financial costs of workplace injuries across Australia.

2012 (January –March) NSW Transport Department, Sydney, Australia

Senior consultant to Booz Allen to review the function, operating model, organization, and governance of the NSW Center for Road Safety around implementation of injury reduction (see publications)

2012-2013 Australasian College of Health Service Management, Sydney, Australia

Senior Executive Advisor to CEO Daryl Sadgrove, and working with Board on Strategic planning and development related to health leadership, advancing implementation safety and quality improvement training, and comprehensive, system-wide quality policy.

2011—2015 Center for Safety, University of Stavanger, Stavanger, Norway

Hired as Professor (level II) to teach patient safety, and lead a \$750,000 research project and co-lead nationally funded project on improving quality of care and patient transitions from hospitals to community in the elderly. Project led to 22% financial savings.

2011—2012 Center for Health Innovation, Alfred Hospital, Melbourne

Senior consultant, Innovation and strategic planning around population health, risk management, patient safety, simulation and team training.

2011-2012 American Board of Medical Specialists (ABMS), Chicago, IL

Co-lead a project to design and develop, implement, and evaluating, components of a new clinical education on-line patient safety and quality improvement program for the American Board of Medical Specialties

(ABMS) for step 4 Maintenance of Certification (MOC). The ABMS Patient Safety Improvement Program is available at http://abms.org/Products_and_Publications/Performance_Improvement/PSIP.aspx

2010—2011 NSW Life Time Care Authority, Sydney, Australia

Senior Consultant, Improving Quality of Neurological Care of Trauma Patients in NSW

Lifetime Care and Support Authority (LTCSA) provides lifelong treatment, rehabilitation and attendant care for people with a spinal cord injury, brain injury, and other traumatic injuries in NSW. The goal of the project was to examine the medical, legal and organizational models of the LTSCA scheme and provide guidance to help redesign the NSW LTSCA model.

2011-2013 NSW Health Department, Sydney, Australia

Hired as administrative lead, for NSW Health in exploring how to learn most effectively from the present healthcare facilities procurement and design. The project includes reviewing lead hospital projects, interviewing key informants, doing site visits at the key sites around the state, creating governance mechanism to ensure meaningful consultation and then setting up knowledge management system that helps NSW Health build safer, more effective hospitals.

2010 (March-December) Sydney IVF, Sydney, Australia

Project Leader, Bring the Patient Back into the Process, Quality Improvement Project

A comprehensive evaluation of the strategic quality and risk management plan of In vitro services. The project included interviewing personnel, reviewing the risk management register, observing day to day work, and developing a patient safety and quality plan going forward.

2009- 2011 Life Time Care Authority and Motor Accident Authority, Sydney, New South Wales, Australia

Project Leader, the New South Wales Trauma and Rehabilitation Learning Collaborative (NSW TC)

The Motor Accident Authority is the single provider of all injury compensation for medical injury as well as all other injuries in New South Wales. It serves the 6 million people of NSW, and its budget is \$2 billion. The overarching aim of the Trauma Collaborative, a state wide demonstration project, working in close consultation with the NSW Health department and concerned agencies of the NSW Compensation Authorities – the Motor Accident Authority (MAA), Life Time Care and Support Authority (LTCSA) and the WorkCover Authority (WA) is to improve the quality, organization, safety, and reliability of trauma care in NSW.

A tailored methodology was designed to incorporate the complexities of multiple stakeholders, clinicians, public agencies and specialties. The approach lead participants through key phases to identify issues and opportunities to improve trauma and rehabilitation systems and process which support the patient journey, experience and service efficiency, develop set of objectives, improvement initiatives and a prioritized work plan, review interventions and establish a continuous improvement plan for the future. Our mapping of current processes and future principles has led to a series of improved care delivery models.

Accomplishments:

- Initiated, secured funding and appointed Project Leader of the NSW TC.
- Designed and executed an implementation model to facilitate the logistical relationships of multiple

provider organizations across NSW.

- Helped direct and develop strategies for enabling high quality and safe care through collaboration across groups with a key interest in Trauma care health system innovation and improvement.

2008-2009 *University of New South Wales, Australia, Sydney, New South Wales, Australia*

***Director and Professor, Injury Risk Management Center (IRMRC), Faculty of Science
Acting Head, School of Risk and Safety Sciences***

- Recruited to Australia after extensive international search to head the leading epidemiology research Institute around advancing quality improvement, injury prevention and risk management in Australasia. I reported to the Dean of Faculty of Science, Prof Mike Archer and the Chair of the Board David Bowen. The Center had 15 personnel and annual budget of \$2.5 million.
- Under my leadership the three funding partners, NSW Health, Motor Accident Authority (MAA) and Roads & Traffic Authority (RTA) signed the latest \$2.5 million funding agreement.
- Set up new charter and mission statement for board; attracted new board members and created 5 year strategic plan.
- Responsible for managing human, financial, and information resources strategically.
- In 2009, I was asked to take on a second administrative unit, the School of Risk and Safety Science (SRSS). The SRSS had 29 faculty/staff, 60 graduate students and over 1000 students taught per year and was the largest trainer of quality and safety in Australia.

Accomplishments:

- Developed, implemented, and evaluated new curriculum and education program for School of Risk and Safety Sciences.
- Significant prior experience selecting, onboarding, and Supervised large faculty and staff including writing job descriptions, selection and onboarding new faculty
- Effectively managed and developed direct reports across different departments and functions.
- Forged collaborations across the system and working with the Deputy Director Generals of NSW Health, Drs Tim Smyth, Richard Matthews and Kerry Chant.
- Expanded the Centre's education role by significantly increasing the seminar series from 2 in 2007-08 to 8 in 2008-09;
- Successfully attracted \$9 million in international and national research grants.
- Increased number of grants submitted and received by Australian Federal funding agencies by 35%.
- Increased the number of peer review papers submitted and accepted by group went up 33%, and the number of national and international invited presentations went up by 60%.
- Began the merging of the 2 units which as part of was Faculty wide reorganization.
- Provided strategic leadership and expanded the Centre's and School's reputation within the field of quality improvement, systems safety and injury prevention. Since my arrival the performance of the Center and School improved dramatically and relationships with external stakeholders improved.

2008-2012 *Center for Health Design, Concord, California*
Member and Chair Research Coalition

Recruited to co-chair (2008-2010) the Center for Health Design Research Coalition in 2008. This is a \$2 million not for profit organization and is the leading research and advocacy organization in world leading the quest to improve the quality of healthcare through building architecture and healthcare design.

Accomplishments:

- Select a national group of expert architects, designers, clinicians and others
- Set up in the first national peer reviewed research program in healthcare design
- Worked closely with the President and Board members in effort to expand the organization's outreach and impact efforts. Now into its 3rd year, it the first dedicated research funding program for assessing the impact of the built health environment in the US.
- The program has been developed in close partnership with the other lead national relevant bodies for hospital and healthcare design in the US, the American Institute of Architecture, and the US Federal Guidelines Institute.

See <http://healthdesign.org/ResearchCoalition/>

2007-2012 *Utrecht University Medical Center, Utrecht, Netherlands*

Visiting Professor, Department of Anesthesia (2007-2011), Senior Research Fellow (2011-2012)
Principal Investigator and Scientific Director of European Union DG Research Grant, FP-7, \$4,900,000.

Entitled: **Improving the Continuity of Patient Care Through Identification and Implementation of Novel Patient Handoff Processes in Europe.** See <http://www.handover.cmj.org.pl/index.html> (see grants section below)

Invited on fully paid sabbatical (2007-2008) to help set up the Center for Patient Safety at the University of Utrecht Medical Center. Was engaged as faculty member and advisor to Dean and CEO on safety education, faculty development and clinical care.

Accomplishments:

- Set up a strategic plan for advancing patient safety improvement across the medical center.
- Set up robust research program assisting Professor Cor Kalkman.
- Secured a 5 million dollar grant from the European Union to study how to improve patient safety and quality by understanding patient transitions and discharge. I am the Principal Investigator on EU wide project entitled: Assessing Patient Handovers European Union, FP-7, a 6 country collaborative (Sweden, Spain, Italy, Poland, UK, Netherlands), which runs from 2008-2011. My role on project has been to coordinate meetings, set up the scientific forum, manage the overall research vision, as well as lead the research part as work package leader of the Utrecht research group. See <http://handover.eu/>
- Helped develop and run a year long patient safety curriculum for the residents and worked to develop standardized programs for analyzing adverse events.
- Developed, implemented and evaluated a year long patient safety curriculum for the residents and worked to develop standardized programs for analyzing adverse events across the medical center.

2004-2012 ***University of South Florida, Tampa, Florida***

***Associate Professor, University of South Florida, College of Public Health
Senior Advisor to Dean on Patient Safety and Quality Improvement (2007-2008)***

Invited to work closely with Dean Steve Klasko, and AVP, Professor Jay Wolfson, and formally engaged as a senior advisor to the Vice President of USF Health and the Dean of Medicine, Professor Steve Klasko.

Accomplishments:

- Advisor on implementing population health-related quality improvement and information technology initiatives and infrastructure
- Attended meetings on behalf of the university, and provided input regarding patient safety, improvement initiatives, medico-legal reform, and risk management practices that could be implemented throughout the Medical Center.
- Helped raise funds and participated in the preparation of funding applications for the University of South Florida.
- Worked on several project advancing patient safety and quality in the USF health system including helping develop an award winning, training and simulation Centre.
- Assisted in CMS Patient Challenge grant 2011

2003-2006 ***University of Miami School of Medicine and Jackson Memorial Hospital, Miami, Florida***

**Medical Director, Quality and Safety, Jackson Memorial Hospital
Associate Dean for Patient Safety and Quality Improvement, Founding Director of the Center for Simulation, Director Strategic Planning for Patient Safety (2006)**

Operational responsibility for quality at The University of Miami Medical School, Jackson Memorial Hospital, licensed for 1000-bed, in Miami.

UM bills in excess of \$2.0 billion (gross charges) and \$750 million (net revenue) and is a major teaching, research, tertiary and quaternary care facility that employs 850 physicians, 1000 residents and fellows and over 10,000 nurses.

Recruited by Dean of Medical School and CEO of JMH as Associate Professor (tenure tract) to be the Director of Quality at Jackson Memorial Hospital (JMH), and Associate Dean for Patient Safety at the University of Miami Medical School, the first position of its kind. Set up organization wide safety and quality institute and have advisory role related to safe care in clinical matters.

Accomplishments, (while working 3 days clinical):

- Leading effort to define and improve service line quality measures across health system clinical departments/divisions and external clinical integration partners (phase 1 focus: family medicine, pediatrics, obstetrics/gynecology, vascular surgery, and colorectal surgery); designed scalable model for accelerating system-wide journey that leverages centralized (quality improvement, health information technology, measurement/analytics) and clinical department/division-based infrastructures.
- Designed quality improvement strategic plan that includes primary care attributable population health,

hospital quality measures/improvement, and hospital employee health plan tracks, and secured board approval and funding.

- Reported to the Dean of the Medical Center, John Clarkson, and to the Chief Medical Officer Dr. Jerry Kaiser.
- Chaired the Jackson Memorial Patient Safety Committee.
- Set up Safety and Quality Institute, recruited directors, nurses and staff and was awarded over \$5 million dollars in research grants from state, federal and other sources.
- Worked closely with hospital and physician staff leadership to promote clinical excellence and safety in patient care.
- Worked collaboratively with senior staff, the Board of Directors and JMH senior management to ensure that Jackson Memorial Hospital is providing the highest quality and safety
- Chaired the Jackson Memorial Hospital Patient Safety Committee with primary objective to foster physician engagement in clinical initiatives and to work with Quality and Patient Safety/Risk Management departments within the hospital.
- Worked closely with risk management, quality assurance to develop standardized root cause analysis, debriefing tools of teams and patient disclosure programs.
- Member of the University's Self Insurance program that oversaw medical legal expenditures budget of @\$40 million per year as well as a member of the Capital Acquisition Committee.

As Associate Dean for Safety and Quality of the Medical School:

- Led the organization's quality care and patient safety educational initiatives and acted as the health care system's quality spokesperson.
- Set up patient safety curriculum for medical students and training for residents.
- Partnered with UM Schools of Business, Engineering, and Public Health and developed, implemented a year long program focused on graduate training and research programs in Quality and safety.
- Completed a successful JCAHO survey at JMH in fall of 2005.
- Developed, raised funds and designed 8000 square foot simulation and clinical training facility, one of the first in the nation.
- Successful in raising 3 million dollars in funding and set up the Miami Patient Safety Center.

2004-2005 Project Leader, Developing the Florida Patient Safety Corporation, Florida Department of Public Health, Tallahassee, Florida

Accomplishments:

- Led a statewide coalition of medical centers and community leaders that set up the Florida Patient Safety Corporation to address patient injury and harm, the first Patient Safety Organization (PSO) in the US.
- Worked with many stakeholders in Florida influencing health care at the community and state levels, while addressing the industry, government and professional organizations in Florida to create conditions for safer patient care.
- Secured funding of \$1.3 million allotted by the Florida Legislature and included working with legislators to craft the bill and testify to the Florida Legislature in 2004-2005 as well as working with

Mayor Dade County on Quality of Care initiatives.

The endeavor required arduous efforts to bring the many stakeholders to consensus, to mobilize change and to create an environment that facilitated clinicians doing the right things in a non-punitive manner. This effort led to developing and implementing a state wide near miss reporting program, establishing patient safety training, creating hospital report cards on nosocomial infections, and setting up standards for information technology.

2000-2003 Assistant Professor, Anesthesiology, University of Chicago, Chicago, IL

Recruited by Chair, Professor Michael Roizen, to help improve patient safety in the department of Anesthesia while setting up a robust patient safety and quality improvement group.

Accomplishments, (while working 4 days clinical):

- Set up a special department focus on patient safety.
- Designed 2000 sq foot simulation facility.
- Together with Steve Small successfully was awarded several federal grants, while worked closely to improve the safety of the patient care.
- Chaired the Hospital's Medication Safety Taskforce, Chair committee, helped lead the Patient Safety committee, was active on the Quality Improvement Committee member of the Depart and hospital.
- Involved in dramatic redesign of the Medical Records access and retrieval.
- Worked closely with residents and students to develop patient safety curriculum.

BOARD AND COMMITTEE MEMBERSHIPS

American Society of Anesthesia, ASA Standardization/Medication QMDA Committee, 2018-

American Society of Anesthesia, Anesthesia Quality Institute Data Committee, 2018-

Advisory Board for the 3rd Global Health Ministerial Summit on Patient Safety, 2017-2018

World Federation Societies of Anesthesia Patient Safety Subcommittee, 2017-

American Society of Anesthesia Patient Safety Committee, 2016-2018

American Society of Anesthesia DIGITAL PATIENT SAFETY PLATFORM Subcommittee 2018-9

Member American Institute of Architects Health Guidelines Building Codes Committee (2010-2016)

Chair, Patient Safety Committee, World Society of Intravenous Anesthesia, 2009- 2012, 2018-current

Co-chair, Research Committee, Center for Health Design, 2008-2011

Chair, Research Committee, International Academy of Design, 2009- 2012

Chair, NSW Falls Prevention Taskforce, 2008- 2009

University of New South Wales, 2008-2009

Executive Committee, Faculty of Science 10/2008-2009

Elected Chair, Research Council, Center for Health Design, California. 2007- 2012

Member of the Department of Defense Technical Advisory Board, Patient Safety Program, 2007-2009

Member of the New York State, Office of Health Systems Management, Department of Health Reporting System National Advisory Board, 2007-2011

Member American Institute of Architects Health Guidelines Building Codes Committee, 2007-2010

Board Member, American Institute of Architecture Coalition for Health Environments Research, 2006-2007

University of Miami Medical Group 2003-2006

Clinical and Professional Committee; Board of Governors; Clinical Research Building Committee

Multi-specialty Hospital Design Committee; Search Committee Chair of Biostatistics

Jackson Memorial Hospital

Clinical Practice Committee, Executive Committee, 2004-2006

Chair, Patient Safety Committee 2004-2006

Member, Capital Acquisition Committee 2004-2006

Institutional Graduate Medical Education Committee 2003-2006

Quality Improvement Committee, Anesthesia 2003-2006

Self Insurance Committee 2003-2005

UM Department of Anesthesia

Executive Committee 2003-2006

Educational Committee, 2003-2006

Quality Assurance Committee, 2003-6

Florida Medical Association

Quality Council, member, 2003-

Patient Safety Taskforce, 2004-2005

Chicago Medical Society

Council member, 2002-3

Society of Critical Care Medicine

Member, MCKKAP Committee 2000-2006

University of Chicago 2001-2003

Medication Safety Taskforce, Chair committee, 2001-2002

Patient Safety committee member, 2001-2003

Pharmacy and Therapeutics committee member 2002
 Quality Improvement Committee member (Department and Hospital)
 Medical Records Subcommittee member; Disaster preparedness Committee, 2002
 University of Chicago Medical School 2001-2003
 OSCE committee
 Dean's Committee on Academic Computing-E Curriculum committee
 Pre-Clinical and Clinical Curriculum Committee
 Massachusetts Coalition for the Prevention of Errors 1998-2000
 Massachusetts General Hospital
 Internal Committee on Graduate Medical Education, 1996-1997
 American Medical Association (AMA)
 Member, IT Taskforce, 2004-2008
 Member, Task Force on Privacy and Confidentiality, 1999-2000
 Member, Council on Long Range Planning and Development, 1997-2000
 New England Delegation, Chair Reference Committee F, 1999
 Delegate 1995-1999; Chair RPS Reference Committee A-1998; Reference Committee B, 1997
 Massachusetts Medical Society (MMS)
 Member, Board of Trustees 1998-1999
 Member Committee on Publications 1998-2000
 Delegate, House of Delegates 1995-1999; Reference Committee A, 1998
 Member, Committee on Quality and Medical Practice 1999-2002
 Co-Chair Task Force on Patient Safety, 1998-1999
 American Society of Anesthesiologists (ASA)
 Reference Committee 2, Annual Meeting 2000; Delegate, Resident Section 1995-1999
 Member, Committee on Trauma and Critical Care 1996-2000; Member, Committee on Information Management 1999-2003
 Member, Committee on Risk Management and Patient Safety 2003-2006
 Vice chair, Taskforce on Simulation 2005-2006
 Member, Committee on Disaster Medicine 2005-2009; Member, Clinical Performance Management (CPOM), 2005-2009; Patient Safety 2016-;
 ASA Abstract Review Subcommittee 2016-7
 American Society of Critical Care Anesthesiologists
 Member, Committee on Communications 2002-2004
 Florida Agency for HealthCare 2004-
 Health Care Facility Website/Ambulatory Surgery Data Technical Workgroup Member (CHIS); Hospital Acquired Infections Workgroup (CHIS)

PROFESSIONAL AND COMMUNITY AFFILIATIONS

American Society of Anesthesiologists (ASA)
 American Society of Critical Care Anesthesiologists (ASCCA)
 American Medical Association (AMA)
 Florida Medical Association (FMA)
 International Trauma Care and Critical Care Anesthesia (ITTACS)
 Massachusetts Medical Society (MMS)
 Society of Critical Care Medicine (SCCM)
 Society of Education in Anesthesia (SEA)

Undersea and Hyperbaric Medical Society (UHBS)
 American Society of Quality (ASQ)
 International Anesthesia and Research Society (IARS)
 Association of University Anesthesiologists (AUA); Society of Cardiac Anesthesia (SCA)

HONORS, AWARDS, SCHOLARSHIPS

Winner of the HHS ONC Easy EHR Issue Reporting Challenge, Pegwin, as Chief Medical Officer, 2018

Editorial board of the *American Journal of Medical Quality*, 2016-

American Institute of Architecture Legacy and Tuttle Health Design Fellowship Committee Member, 2016

2015 Most Influential Articles from BMC Health Services Research, for Brubakk K , Vist G Bukholm G **Barach P** and Ole Tjomslund T: A systematic review of hospital accreditation: the challenges of measuring complex intervention effects. *BMC Health Services Research* (2015) 15:280 DOI 10.1186/s12913-015-0933.

Associate Editor, *Progress in Pediatric Cardiology*, 2015-

Editorial Board of Journal *Cardio-Oncology*, 2015-

Jury, Texas Medical Center by AIA Houston Chapter's [Committee on Architecture for Health](#), American Institute of Architecture Healthcare Design Competition, the proposed University of Texas at Austin Medical District with UT and Seton/Central Health, Feb 19, Houston 2015.

Judge, Healthcare Design EXPO, Segal Design Institute Northwestern University December 6, 2014. Editorial

Board member *Journal of Royal Society of Medicine*, 2013-2015.

2013-Editorial Board member and associate editor in Chief, *Journal of Translational Internal Medicine* 2013-

Editorial Board and Associate Editor of *Frontiers in Disaster and Emergency Medicine*, 2013-2016

Advisory Board, Acoustics Research Council, <http://acousticsresearchcouncil.org/cms/index.php/about-us>

Board Member, Center for Design Research in Architecture (CADRE). HKS Architects, 2010-2016

First Prize, Kaiser Permanente, Global Strategies to Improve Patient Transitions, Johnson J, Arora, V, **Barach P**. Institute for Health Improvement Annual Conference, First prize for Scientific Abstracts. Orlando, FL, Dec 5-8, 2010.

American Association of Pediatrics 2008 Grand Rounds Select Paper: Bognár A, **Barach P**, Johnson JK, et al. Errors and the burden of errors: attitudes, perceptions, and the culture of safety in pediatric cardiac surgical teams. *Ann Thorac Surg*. 2008;85:1374–81; doi :AAP Grand Rounds 20:27-28 (2008) © 2008 American Academy of Pediatrics.

First Place Award, The Anesthesia History Association, Dr. Ed Kozik (mentee) First Place, C. Ronald Stephen

Resident Essay Contest, Four Decades of Suspending Disbelief: Anesthesia Simulation Milestones, May, Detroit, MI., May, 2008.

Team Winner of 2007 Scott Myers Award for Applied Research in the Workplace, Society of Industrial and Organizational Psychology for TeamSTEPPS, DOD Team Training Program, 2007.

Invited presentation, Committee on Human Factors, US National Academy of Sciences, Woods Hole, MA, August 7, 2007.

“Five System Barriers to Achieving Ultrasafe Health Care”, Annals of Internal Medicine 2006 paper chosen as best paper in 2006 Year Book of Emergency Medicine, 2006.

2006 Member, National Special Emphasis Review Panel (SEP), Science Education Partnership Awards (SEPA), NCCR, National Institutes of Health.

Member of the AHRQ funded National Advisory Panel on Outcome Measure Teamwork in Healthcare, 2006. Grant Reviewer, Agency for Healthcare Research Quality (AHRQ), US, 2006

The Edward J Stemmler, MD Medical Education Research Fund Grant Reviewer, National Board of Medical Examiners (NBME), Philadelphia, PA, 2006

Grant Research Program Reviewer, Dutch Patient Safety Research Program, 2006

Invited special address, Northern Ireland Parliament, Belfast, April 25th, 2006

National Quality Forum (NQF) Healthcare Award Judge, Washington, DC, 2006-2007

International Scientific Symposium Reviewer, IHI Annual Forum, Orlando, Florida, Dec 7, 2005

The Edward J Stemmler, MD Medical Education Research Grant Reviewer, National Board of Medical Examiners, Philadelphia, PA, 2005

Steering Committee Member, Patient Safety Design, St. Joseph Hospital, WI, Agency for Healthcare Research and Quality Grant, 2005-2009

Member, Florida Agency for Health Care Advisory Board on Healthcare Building Codes, 2005-2007

Chief Science Advisor, National Team Training Project (STEPPS), AHRQ and Department of Defense, 2005

National Faculty, Advanced Training Quality Outcomes Program, Institute for Health Care, Salt lake City, UT, 2001-2009

National Advisory Board on Patient Safety Maintenance of Certification, American Board of Medical Specialties (ABMS), 2005-2007

Michael Rees Health Trust National Project Review Advisory Board, Chicago, IL, Oct. 27, 2005

National Grant Review Panel VA Health Services Research & Development Grant program, 2004-2006

Member of the National Advisory Board, National Board of Medical Examiners, Philadelphia, PA. (2003-2006)

Herbert Nicklens Memorial Award Recipient, Innovations in Health Care, special address, American Association of Medical Colleges Annual Meeting, Washington, DC, November 9, 2006.

National Review Panel, Veterans Administration, National Patient Safety Center of Inquiry grant review Panel, 2003

National Study Section Review panel, National Institute of Biomedical Engineering, 2005-6

Physician of the Year nominee, Florida Medical Business Magazine. 2005

Elected member to the National Honorary Anesthesiology Society Association University of Anesthesiologists (AUA), May 18, 2005.

International Grant Review Panel, UK Patient Safety Research Program, 2005.

Guest Editor, *Annals of Internal Medicine*, 2003-2005

International Grant Panel Reviewer the United Kingdom Patient Safety Research Program, 2002-3

National Advisory Committee member, "Study for an Applied Patient Safety Training Core", Agency for Healthcare Research and Quality project, 2002-3

Invited paper, *Institute of Medicine*, National Academy of Science, "National Perspectives on Incident Reporting Systems", 2002

Invited *Weber* Lecture Speaker, University of Toronto, Sunnybrook, Canada, April 11, 2002

Health Policy Fellowship, Core Learning for Quality Improvement, Center for Health Care, Case Western University School of Medicine, 2001

Faculty Curriculum Teaching Award, Pritzker School of Medicine, University of Chicago, 2001

Editor, *Quality and Safety in Healthcare (now BMJ Quality and Safety)*, 2001-2004

Malcolm Baldrige Board of Examiners judge, 2001-2005

Guest Member, Harvard Kennedy School Executive Session on Medical Error and Patient Safety, 1999

Research Faculty Fellowship in Simulation and Patient Safety, Massachusetts General Hospital, 1998
Member, Massachusetts Medical Society Board of Trustees, 1998-1999

Member, Committee on Publications, Massachusetts Medical Society, 1998-2000

National Leadership Award, American Medical Association, 1998

National Leadership Award, Committee of Interns and Residents, 1997

AMA Glaxo National Leadership Award, 1996

International Student Foundation Award for Excellence in Road Safety, 1996

Scholarship for the Advancement of Environmental Medicine, Hebrew University School of Public Health, Jerusalem, 1993-1994

Valor Award, For Rescue Under Fire, Central Command, Israel Defense Forces, 1992

National Institutes of Health Research Fellowship, Department of Hematology and Oncology, National Cancer Institute, Bethesda, MD (September-December 1987)

Research Fellowship, Department of Internal Medicine, University of Teiko, Tokyo, Japan (Aug-Nov 1986)

Post-Sophomore Pathology Fellowship - Department of Pathology; UCLA School of Medicine, Los Angeles CA. (July-November 1985)

SCIENTIFIC IMPACT

Scholarship Summary Statistics (Bibliometric parameters)

Number of peer-reviewed international journal articles: 174; Number of international books, Monographs, Scientific Theses: 15; Number chapters in books: 64; Total number of abstracts: 143; Total number of publications: 249; Total grant income: \$ 15,000,000 (15 projects); Hirsch citation index (H)=52; (I-10)=120; Number of papers > 100 citations: 15; Number of invited addresses/keynotes: 127; Number of graduate students supervised: 45; PhD students completed: 6; Number of PhD students under supervision: 3 ;Academic awards and honors: 13; Grand rounds and visiting professorships: 86; Total Citations (Google Scholar) <http://scholar.google.com.au/citations?user=MTBx4DoAAAAJ&hl=en> (11070 citations)

RESEARCH INTERESTS

- Patient and Surgical Safety
- Information Sciences
- Medical Education, assessment, training, simulation, teaching and learning
- Implementation science
- Health Facilities and System design and innovation
- Managing the deteriorating patients
- Perioperative human Factors, Task Analysis, and Work Analysis Methodologies
- Population health
- Acoustics and alarm fatigue
- Clinical integration
- Healthcare Innovation and technology assessment
- Assessing Coordination and Teamwork of clinical Microsystems
- Quality improvement methods and coordination
- HRO management and leadership strategies
- Global Health

SPONSORED RESEARCH (obtained in international or national competition):

CURRENT

1. **PI, Young Woo Kim** 1/10/2020-30/9 2023
\$ 1,000,000

Establishing Patient blood management guideline and universal PBM modules for EMR system
Korean National Cancer Center, from Korean National Institute of Health, Paul Barach, Chief Advisor and Investigator at 20%

Implement patient blood management programs in Korea, patient blood management guidelines will be developed for each clinical field, computational algorithms and evaluation systems will be implemented in all hospitals. The pilot project will be conducted to identify problems and suggest solutions.

2. **PI, Frankel Richard** 1/1/2014-12/31-2019

Veterans Administration Health Services Grant, \$750,000
Exploring patient handovers in clinical care units, VISN 11, **Paul Barach**, senior consultant at 10%

Past

Skalkidis Y (PI), 2011-2016
Greek Ministry of Health, \$1,300,000.

Knowledge across population boundaries between diverse care settings: The Development and impact of Integrated e-Clinical Protocols on Patient Outcomes (e-ClinPro).

Barach, Senior investigator

Accelerate the creation of standardized knowledge used to normalize heterogeneous EMR data as representations of clinical events for comparative effectiveness research. Two studies will be used to address the effectiveness of interventions in general surgical patients.

2009-2013 Exploring patient handovers in clinical care units, Veterans Administration Health Services Grant, Frankel Richard (PI), VISN 11, **Paul Barach**, senior consultant, \$750,000.

2012-2015 Implementing the HANDOVER toolkit, PATIENT, Erasmus, EU Grant Fund, 350,000 Euro, PI-Drescler H, Herlen, Netherlands, Paul **Barach**, investigator and advisory board.

2011-2015 Quality and safety within elderly health and care services - the role of transitions and interactions, Norwegian Research Council, Aase (PI), **Barach**, Senior Investigator and Chair International Advisory Panel, \$1.300.000.

2012-2014 BioApp, Biodesign for Health, EU Funded project, The aim of the BioApp module is to improve health by leading the development, and accelerating the application of biomedical technologies EU FP-7, **Paul Barach**, External Advisory Committee.

2008-2012 Improving the Continuity of patient care Through Identification and implementation of Novel patient handoff processes in Europe, European Union DG Research, FP-7, **Paul Barach (PI)**, \$4,900,000.

2009-2011 NSW Trauma Collaborative, Motor Accident Authority, Paul **Barach (PI)**, \$310,000, 2009-2011.

2010 Human Factors and Patient Safety During Paediatric Heart Surgery: An Evidence- Based Approach to Improve Patient Outcomes, NHMRC Project Grant, **Barach (PI)**, \$785,000, 2010-2013.

2009 LP0991263 Pandemic Influenza, Human Resources and Critical Infrastructure Dependencies. MacIntyre; PK Ray; S Goldstein; **P Barach**; RL Itzwerth; JG Wood, 2009-2012.

2009 LP0990217 Effective clinical handover communication: improving patient safety, experience and outcomes, D Slade; RA Iedema; E Manias; **P Barach**; PR Della; et al. 2009-2012.

2009 An External Evaluation of the Central Line Associated Bacteraemia in Intensive Care Units Project, Center for Clinical Excellence and NSW Health, PI (Johnson), Barach (steering comt). \$30,000.

2009 *Core Funding*, NSW Health, Principal Investigator: **Paul Barach**, \$1,100,000, 2009-2013.

- 2009 *Core Funding*, Motor Accidents Authority of NSW, Principal Investigator: **Prof Paul Barach**, \$500,000, 2009-2013.
- 2009-2011 *Core Funding Road Transportation Authority*. Principal Investigator: Prof **Paul Barach**, \$500,000.
- 2008-2011 *Research fellowship to evaluate and monitor the NSW falls policy implementation*, NSW Health – Injury Prevention Policy Branch (IPPB), **Prof Paul Barach**, \$534,000.
- 2007-2010 *Excellence in Practice, Physicians Foundation for Health Systems Excellence*, Mayer (PI), University of Illinois, **Barach**, Steering Committee, \$450,000.
- 2008-2009 *Preventing Adverse Events Associated with Mobility/Immobility*”, Audrey Nelson (PI), **Barach** (Steering Committee), \$400,000, VISN 8, *VA HSR&D*, REAP grant, 2008-2009.
- 2006-7 Florida Patient Safety Corporation Research Awards, Jay Wolfson, University of South Florida (PI), **Barach**, Project Leader, \$300,000, 2006-2007.
- 2005 Team Training Curriculum (Team STEPPS) Delmarva, Foundation (PI), **Barach**, Chief Scientific Advisor, \$220,000, 2005-2006
- 2005 Maintenance of Certification, Joint ABMS Taskforce on Patient Safety, \$600,000, Johnson, (PI), **Barach** (Senior consultant).
- 2005 Accelerating Change and Transformation in Organizations and Networks, *AHRQ-06-00001*, PI (Harmon), with Abt. Associates, \$500,000, **Barach** (senior investigator)
- 2005 Designing Team Training and Simulation for Health Care, TRicare, *Department of Defense*, \$350,000, PI (Baker), **Barach**, Senior advisor, 2005-2007.
- 2005 Florida Near Miss Reporting Program contract, Florida Patient Safety Corporation, \$1,300,000 Principal investigator, **Barach**.
- 2004 Ambulatory Surgical Facility Performance Indicators, Florida Agency for Health Care Administration, **Barach**, PI, 2004-2005, \$99,580, (contract awarded but funds canceled).
- 2004 Patient Safety Coordinating Center, Dan Gaylin (PI), *Agency for Health Care Research and Quality*, **Barach**-Chief Scientific Advisor, 2004-2007, \$4,000,000.
- 2004 Surgical Simulation Evaluation, Vincenzo Liberatore (PI), **Barach**, Co-investigator; *Department of Commerce*, 2004-2007, \$400,000.
- 2004 Training Nurses for Patient Safety. *Health Resources and Services Administration*, D1DHP04020-01-00, \$250,000, **Barach**, PI, 2004-2006.

- 2004 Medical Reservists Combat Team Training and Competency Assessment, **Barach**, (PI), *Department of Defense*, \$1,950,000, 2004-2007. (relinquished 9/15/2006 assumed by Dr Jeff Augenstein).
- 2004 Medical Research Council, Cross research council networks in patient safety research developments and dissemination of methodology, Lilford Richard (PI), **Barach**-investigator, \$75,000.
- 2003 Expert Team Defines Ideal Clinical Setting - For Patient Safety and Medical Residents' Training, David Stevens (PI), Grant team member, *Robert Wood Johnson Foundation*, \$21,786. <http://www.rwjf.org/reports/grr/047462.htm>
- 2003 Florida Agency for Healthcare Consumer Information Study and Patient Safety Authority study, PI, **Barach**, \$950,000, 2003-2004.
- 2002 Program evaluation of Medical Team Training in the Department of Defense, *HHS FY02-PAJ-014*, PI, David Baker, American Institute for Research, **Barach**, senior investigator, 2002-2005, \$400,000.
- 2002 Enhanced Funding for Centers of Excellence for Bioterrorism. Preparedness; Health Services Agency and Chicago, Department of Public Health UCCH, **Barach** Co-Investigator, \$125,000.
- 2002 *American Heart Association* - Human factors and patient safety in infant cardiac surgery, \$275,000, **Barach P.** Principal Investigator, 2002-2006.
- 2002 *Agency for Healthcare Research and Quality* Transitions of Care, Jon Wilwerding, PI, Abt Associates **Barach, P.**, Senior Investigator, 2002-2004, \$350,000.
- 2001-2003 *Agency for Health Care Research and Quality*, P20 HS11553, Developing Centers for Patient Safety Research and Practice, \$600,000, PI, Dr. Stephen Small, University of Chicago, 10% effort, **Barach** Co-investigator.
- 2001-2003 *Agency for Health Care Research and Policy*, U18 HS 11905-01, Linking Best Reporting and Learning to Improving Safety, \$5,899,932, PI, Dr. Harold Kaplan, Columbia University, 20% effort, **Barach**, investigator.
- 2001 University of Chicago Provost Technology grants Handheld Computers for Distributed Learning, \$40,000, **Barach**, co-PI.
- 2001 *American Board of Internal Medicine Foundation*, awarded Patient Safety and Medical Education, \$30,000, **Barach**, co-PI.
- 2001 *Laerdal Foundation, Simulation*, Patient Safety and Medical Education \$40,000, **Barach**, Co-PI.
- 2001 *Agency for Healthcare Research and Quality*; The Role of Simulation in Medical Education: A State of the Art International Conference, \$12,000, **Barach**, Co-PI.
- 2001 *Agency for Healthcare Research and Quality*, Contract #290-96-0011 "Feasibility study for an Applied Patient safety training program", University of North Carolina and RTI, Dr. Arthur Bonito. **Barach**, National Advisory Committee Member.

RESEARCH ACTIVITIES

See <https://uio.academia.edu/paulBarach> and,

See https://www.researchgate.net/profile/Paul_Barach/publications/?pubType=article&ev=prf_pubs_art

A. Peer-Reviewed Publications *indicates mentored student, resident or postdoc, faculty first author

1. Abulebda K, Ahmed RA, Auerbach MA, Bona AM, Falvo L, Hughes PG, Gross IT, Sarmiento EJ, **Barach PR**. A National Preparedness Survey of Pediatric Intensive Care Units with Simulation Centers During the Coronavirus Pandemic. *World Journal of Critical Care*. October 2020. In Press.
2. **Barach P**, Rami A, Nadel E, Hafferty F, Philibert I. COVID-19 and Medical Education: Risks, Benefits and Institutional Obligations During a Global Pandemic. *Proceedings of the Mayo Clinic*, 2020, 2020-1106.R2, Accepted, Oct 11, 2020.
3. Auerbach MA, Abulebda K, Bona AM, Falvo L, Hughes PG, Wagner M, **Barach PR**, Ahmed RA. A National US Survey of Pediatric Emergency Departments Coronavirus Pandemic Preparedness. *Pediatric Emergency Care*. October 2020. In Press.
4. De Bie Dekker A., **Barach P**, et al. Testing the Effects of Checklists on Team Behaviour During Emergencies on General Wards: An Observational Study using High-Fidelity Simulation, *Resuscitation*, 2020.
<https://doi.org/10.1016/j.resuscitation.2020.09.031>
5. Van Zundert T, **Barach P**, Van Zundert A. Healthcare workers still getting infected and dying: revisiting safe airway management and patient care by anaesthetists during COVID-19. *British Journal of Anaesthesia*.
<https://doi.org/10.1016/j.bja.2020.09.004>.
6. Capolongo S, **Barach P**, Brambilla A, Gola M, Signorelli C. The challenges in training and education of hospital designers and planners. *European Journal of Public Health* 2020; 780-781;30: 5.
7. **Barach P.**, Fisher S, Adams A, Burstein, G, Brophy P, Kuo D, Lipshultz, S. Disruption of Healthcare: Will the COVID Pandemic Worsen Non-COVID Outcomes and Disease Outbreaks? *Pediatric Cardiology*, 2020, doi: [10.1016/j.ppedcard.2020.101254](https://doi.org/10.1016/j.ppedcard.2020.101254)
8. Sousa M, **Barach P**. Leadership, Technologies and Knowledge Transfer for BRICS Health Sector Sustainability, *Global Journal of Emerging Market Economies*, accepted.
9. Capolongo S, Gola M, Brambilla A, Morganti A, Mosca EI, **Barach P**. COVID-19 and Healthcare Facilities: A Decalogue of Design Strategies for Resilient Hospitals. *Acta Bio Med* [Internet]. 2020Jul.20 [cited 2020Jul.21];91(9-S):50-. Available from:
<https://mattioli1885journals.com/index.php/actabiomedica/article/view/10117>
10. Arnal-Velasco D, **Barach P**. Anaesthesia and Perioperative Incident Reporting Systems: Opportunities and Challenges. *Best Practice & Research Clinical Anaesthesiology* 2020, <https://doi.org/10.1016/j.bpa.2020.04.013>
11. Bruce C, **Barach P**, et al. Assessing the Impact of Patient-Facing Digital Technology on Patient Outcomes: A Retrospective Observational Cohort Study", *Journal of Medical Internet Research*, 2020, *JMIR Mhealth Uhealth*

2020 Jun 26;8(6):e19333. Epub 2020 Jun 26.

12. **Barach P.**, Lishultz S. Rethinking COVID-19 in children: Lessons learned from pediatric viral and inflammatory cardiovascular diseases, *Progress in Pediatric Cardiology*, 2020, <https://doi.org/10.1016/j.ppedcard.2020.101233>
13. Ronald L. Thomas, **Paul R. Barach**, James D. Wilkinson, Ahmad A. Farooqi, Steven E. Lipshultz
The danger of relying on the interpretation of P values in single studies: irreproducibility of results from clinical studies. *Pediatric Medicine* 2020; 3: AB034 | <http://dx.doi.org/10.21037/pm.2020.AB034>
14. Sanduende Otero Y; Villalón Coca J; Romero García E; Diaz-Cambronero O, **Barach P**, Arnal-Velasco D. A. Ten-Year Review of Adverse Medication Incidents in a National Incident Reporting System, *British Journal of Anesthesia*, 2019, doi: 10.1016/j.bja.2019.10.013
15. Berry, L, Crane J, Deming K, **Barach P**. Using Evidence to Design Cancer Care Facilities. *American Journal of Quality*, *Am J Med Qual*. 2020 Jan 15:1062860619897406. doi: 10.1177/1062860619897406.
16. *Subbe CP, **Barach P**, Upside Down Hospital: Co-Producing Safety with Patients, *Proceedings of the International Symposium on Human Factors*, 2019;8:252-256. <https://doi.org/10.1177/2327857919081059>.
17. *Brubakk K, Svendsen MV, Hofoss D, **Barach P**, Tjomsland O. Associations between work satisfaction, engagement and 7-day patient mortality: a cross-sectional survey. *BMJ Open* 2019;9:e031704. doi:10.1136/
18. Gandhi A, Yee-Chan W, Meyers C, **Barach P**, Rubollata F. Pre-packed Critical Care Drug Pouch for Acute Patient Care: Consensus, Simulation Testing and Recommendations. *ICU Management & Practice* 2019;3: 174-179.
19. *Subbe CP, **Barach P**, Crisis Checklists in Hospital: Translating From Complicated to Complex Care Environments, *Proceedings of the International Symposium on Human Factors* 2019;8: 157-160. <https://doi.org/10.1177/2327857919081038>
20. **Barach P**, Dadlani G, Lipshultz SE, Evidence-Based, Safety Management Policies for Pediatric Cardiac Care in New York State, *Progress in Pediatric Cardiology* 2019, doi.org/10.1016/j.ppedcard.2019.101139
21. Ririe D, **Barach P**. Designing Pediatric Safety Management System Complications and Barriers to Improvement in Pediatric Anesthesia. *Current Reviews in Clinical Anesthesia*, 2019. In press
22. Kim YW, **Barach P**, Melzer A. The Seoul Declaration: A Manifesto for Ethical Medical Technology, *Minimally Invasive Therapy & Allied Technologies*, 2019; 28:2, 69-72, DOI: 10.1080/13645706.2019.1596956
23. Cooper L., Mack P, Kroll H, **Barach P**. Medication Safety In Anesthesia: Epidemiology, Causes, And Lessons Learned In Achieving Reliable Outcomes. *International Anesthesia Clinics*, 2019, 57(3):78-95.
24. Rattray N, Militello L, Gordon H, Flanagan M., **Barach P** Frankel R, Rehman S, Franks Z. Content Counts, but the Context Makes a Difference in Developing Expertise: A Qualitative Study of How

- Residents Learn End of Shift Handoffs. *BMC Medical Educat*, 2018.doi.org/10.1186/s12909-018-1350-8.
25. Rattray N, Militello L, Gordon H, Flanagan M, Frankel R, Rehman S, Franks Z, **Barach P**. Do You Know What I Know”: How Implicit Communication Norms Shape Patient Handoff Content and Quality.” *Journal of General Internal Medicine*, 2018. ^[1]_[SEP]DOI: 10.1007/s11606-018-4755-5.
 26. Militello L, Gordon H, Flanagan M, Rattray N, Frankel R, Rehman S, Franks Z, **Barach P**. “Workin’ on Our Night Moves”: How residents prepare for shift handoffs. *The Joint Commission Journal on Quality and Patient Safety*, 2018, <https://doi.org/10.1016/j.jcjq.2018.02.005>
 27. Urman RD, **Barach P**, Shapiro F. The Next Training Frontier: Improving Patient Safety Research Skills. *ASA Newsletter* 2018; 82 (5), 8-10.
 28. Friedberg M, **Barach P**. A dynamic risk management approach to reduce harm in hypertrophic cardiomyopathy, *Progress Pediatric Cardiology*.2018;<https://doi.org/10.1016/j.ppedcard.2018.04.004>.
 29. Kleinman, L., **Barach P**. Towards a Learning System for Pediatric Cardiomyopathy: Harvesting Meaning from Evidence, *Progress in Pediatric Cardiology* 2018, <https://doi.org/10.1016/j.ppedcard.2018.05.002>
 30. Cooper L, **Barach P**. Sweeping It Under the Rug: Why Medication Safety Efforts Have Failed to Improve Care and Reduce Patient Harm. *ASA Newsletter* 2018;82 (5), 36-38.
 31. Militello, L.G., Rattray, N., Franks, Z., Rehman, S., Gordon, H., **Barach, P.**, Frankel, R. (2018). Cognitive preparation for end-of-shift handoffs. *Proceedings of the Human Factors and Ergonomics Society*. Santa Monica: Human Factors and Ergonomics Society.
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I. Peer Reviewed International Meeting Proceedings (36)

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2. **Barach P**, Levashenko V, Zaitseva E. Application of Fuzzy Decision Trees in Medical Decision-Making Support Systems, Human Factors and Ergonomics Society, March 21-24, Chicago, 2019.
3. Ririe D, **Barach P**. Optimizing Safety, Communication, and Teamwork in and Around the Pediatric Operating Room, American Society of Anesthesia, 2018, Annual Conference, Proceedings, 322-331.
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L. Published Peer Review Abstracts (137)

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2. Sanchez J, **Barach P.** Perils and Opportunities of Surgical Services Redesign in a Post-COVID-19 Environment; Institute for Healthcare Improvement, 32th Annual Nation Forum on Quality Improvement in

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3. Barlow J, **Barach P**. A Salutogenic Approach Towards Physical Healthcare Environments that Reduces Harm, Lowers Costs and Improves Satisfaction Scores”. Florence, Italy, International Society of Quality, Feb 8-10, 2021.
4. Lugazia, E, **Barach P**. Lessons learned from introducing patient safety in low-income countries, Florence, Italy, International Society of Quality, Feb 8-10, 2021.
5. Alejandro Garrido-Sánchez A, Arnal-Velasco D, **Barach P**, Romero-García E. Anaesthesia Patient Safety Incident Reporting System: Building a learning network on trust, International Forum on Quality of Care, Glasgow, Scotland, March 28, 2019.
6. Subbe C, **Barach P**. The Upside Down Hospital, International Forum on Quality of Care, Glasgow, Scotland, March 28, 2019.
7. Subbe C, **Barach P**. Developing Crisis Checklists in Hospital Translating from Complicated to Complex Environments, Human Factors and Ergonomics Society, March 25, 2019, Chicago, USA.
8. **Barach P**, Levashenko V, Zaitseva E. Application of Fuzzy Decision Trees in Medical Decision-Making Support Systems, Human Factors and Ergonomics Society, March 25, 2019, Chicago.
9. Subbe C, **Barach P**. Checklists for crisis in hospital? Landing your deteriorating patient in the Hudson! International Forum on Quality and Safety, Amsterdam, Netherlands, May 2-5, 2018.
10. Trakulsunti Y, Antony J, **Barach P**. Lean Six Sigma Revisited: an Excellence Methodology for Improving Safety and Quality of Healthcare. International Forum on Quality and Safety, Amsterdam, Netherlands, May 2-5. 2018.
11. **Barach, P**, Human factors in the management of the critically ill patient, 15th Annual Critical Care Symposium, Manchester, UK, April 26-28, 2018.
12. Cassin B, **Barach P**. SAFETY SOLUTIONS FOR THE RIGHT PEOPLE, THE RIGHT PURPOSE, AT THE RIGHT TIME, International Society of Quality Association, London 2017.
13. Daly M, Willims E, Brubak K, **Barach P**. LOTS TO LEARN: ACCREDITATION LESSONS FROM OTHER INDUSTRIES, International Society of Quality Association, London 2017, International Journal for Quality in Health Care 29 (suppl_1), 30-31.
14. **Barach P**, Gerald F. Cox, James D. Wilkinson, Ron L. Thomas, Steven D. Colan, Jeffrey A. Towbin, Ahmad A. Farooqi, Christina Cordero, Steven E. Lipshultz. Spectrum of Gene Mutations in Pediatric Hypertrophic Cardiomyopathy, American Heart Association, Nov 2016, New Orleans., *Circulation* 134 (Suppl 1), A18858-A18858.
15. **Barach P**. Designing High-Reliability Healthcare Teams, Conference on Information and Digital Technologies – IDT 2016, Rzeszów, Poland, July 5-7.

16. O'leary J, **Barach P**, Shorten G. Improving clinical performance using rehearsal and warm up. A systematic review of randomized trial and observational studies. Canadian Society of Anesthesia, Annual Meeting at the June 21 - 24, 2013. Abstract 1635450. (meeting postponed due to weather)
17. **Barach P**. The collaborative communication model for patient handovers at the interface between high acuity and low acuity care. *Fluids* 2013;2(1):37.
18. **Barach P**. Role of human factors and reliability science in preventing adverse events in the ICU. *Fluids* 2013 ;2(1): 37-38.
14. **Barach P**. Global Challenges in Communication Strategies to Ensure High Reliability During Patient Handoffs. Academy Health Annual Research Meeting, 2013, accepted.
15. **Paul Barach**, Gijs Hesselink, Myrra Vernooij-Dassen, Julie Johnson, Lisette Schoonhoven, Hub Wollersheim, Organizational Culture: An Important Context for Addressing and Improving Hospital to Community Patient Discharge, Academy Health Annual Research Meeting, 2013, accepted.
16. Johnson, J; **Barach, P**; Haskell, H. Learning from Patient Stories to Improve Care. Institute for Healthcare Improvement, 24th Annual Nation Forum on Quality Improvement in Health Care, December 9-12, 2012. Orlando, Florida.
17. Hanson CC, Yorke D, Johnson JK, Mill MR, Brown KJ, and **Barach P**. Pediatric Cardiac Surgery Teams and Families: How Well Do We Communicate? Academy Health 2012 Child Health Services Research Meeting. Walt Disney World Swan and Dolphin Hotel Convention Center; Orlando, Florida. June 23, 2012.
18. Choo, K.; Arora, V.; **Barach, P.**; Johnson, J.; Farnan, J. When Do Supervising Physicians Decide to Entrust Residents With Unsupervised Tasks? A Qualitative Study” Academy Health Annual Research Meeting. June 24 2012. Orlando, Florida. Poster presentation.
19. Johnson, J and **Barach, P**. Translating Research into Practice: Quality Improvement Techniques in Pediatric Cardiac Surgery. Child Health Services Research Meeting. June 23, 2012. Orlando, Florida. Poster presentation.
20. Choo K, Johnson J, **Barach P**. Arora V, Farnan J. When Do Supervising Physicians Decide to Entrust Residents With Unsupervised Tasks? A Qualitative Study. Society of General Internal Medicine, 35th Annual Meeting May 11, 2012, Orlando, FL.
21. Solet J, **Barach P**. Alarm Fatigue---A big hurdle to overcome. 23rd Annual National Forum Institute for Health Improvement, Dec 4-7, 2011, Orlando, Florida.
22. Johnson J, **Barach P**. Strategies for Assessing Clinical Teams and The Microsystem Performance. Institute for Health Improvement, Dec 4-7, 2011, Orlando, Florida.
23. Johnson J, **Barach P**. Strategies for Proven Strategies to Improve Patient Handoffs. Institute for Health Improvement, Dec 4-7, 2011, Orlando, Florida.

24. Kevin Choo K; Arora V; **Barach, P**; Farnan, J. Entrustment, Supervision and Autonomy of Housestaff During Inpatient Medicine Rotations: A Qualitative Study Academy of Distinguished Medical Educators, University of Chicago, Nov 17, 2011, Chicago.
25. Choo K, Arora V, **Barach P**, Johnson H, Farnan J. Factors that determine entrustment, supervision, and autonomy of housestaff during inpatient medicine rotations: A qualitative study. 7th Annual Midwestern Hospital Medicine Conference, Chicago, IL, September 22-24, 2011.
26. Choo, K; Farnan, J; **Barach, P**; Johnson, J; Arora, V. Factors that Determine Entrustment, Supervision, and Autonomy of Housestaff during Inpatient Medicine Rotations: A Qualitative Study. Midwest SGIM Regional Meeting. September 16, 2011. Chicago, IL.
27. Johnson J, **Barach P**. Strategies for Assessing Clinical Teams and The Microsystem Performance Presentation to the *Twenty-eighth International Safety and Quality Conference: Patient Safety: Sustaining the Global Momentum*. Hong Kong, Sept 14-17, 2011.
28. **Barach, P**, Johnson, J, Groene, O, Olsson, M. Qualitative Methods for Assessing and Improving Handover Communications: The European HANDOVER Collaborative. 2011 International Society of Quality Association Annual Conference, Hong Kong. 17 September 2011.
29. Schraagen JM, Smit M, Schooten T, **Barach P**. Improving OR team resilience by a process intervention. International Forum on Quality and Safety, Amsterdam, April 7, 2011.
30. Johnson J, Winters M, **Barach P**. The NSW Trauma Collaborative: a model for continuous quality improvement, consensus building and implementation of change. Trauma 2010, Melbourne, Australia November 19-21, 2011.
31. Johnson J, Winters M, **Barach P**. Research partnership for better outcomes: the Collaborative Model for continuous quality improvement, consensus building and implementation of change. National Forum on Safety & Quality in Healthcare. Canberra, Australia, October 25-27, 2010.
32. **Barach P**, Kalkman C, Smit M, Schraagen JM, Improving Methods for Studying Non Routine Events and Teamwork in Cardiac Surgery, A-129, American Society of Anesthesia, Annual Meeting, San Diego, California. October 16, 2010.
33. **Barach P**, Sonul R, Lilford R. Improving the continuity of patient care through identification and implementation of novel patient handover processes in Europe (The EU HANDOVER Collaborative). International Forum on quality and Safety, Nice, France, April 21, 2010.
34. **Barach P**, Alberto Ferreres. Julie Johnson, Risk Factors for Retained Instruments and Sponges after Surgery: The Risk of Leaving Things behind. American Society of Anesthesia, New Orleans, LA, October 19, A 1061, 2009.
35. Ton Schouten, M.D., Dolf van der Beek., Josine van de Ven, Jan Maarten Schraagen, **Paul Barach**. Human Factors and Their Impact on Non-Routine Events in Pediatric Cardiac Surgery, American

Society of Anesthesia, New Orleans, LA, October 19, A-1010, 2009.

36. Krediet, A. Kalkman C, **Barach P.** An Observational Study of the Impact of Human Factors on Hand Hygiene Among Perioperative Staff, American Society of Anesthesia, New Orleans, LA, October 17, A1174, 2009
37. **Barach P.** Sterkenburg, A. Kalkman C, Ten Cate O., Determinants of supervising anesthesiologists decisions to trust residents with unsupervised tasks, American Society of Anesthesia, New Orleans, LA, October 17, A22, 2009.
38. **Barach P.**, Johnson J, Sadler B, Parker D. Designing Safe Hospitals. *International Forum on Quality and Safety in Healthcare*, April 22-25, 2008 Paris, France.
39. Schijven M, Kalkman C, **Barach P.** The integrative electronic portfolio: Enhancing patient safety using a novel steering instrument for surgical resident training. *International Forum on Quality and Safety in Healthcare*, April 22-25, 2008, Paris, France.
40. Kindler, C, **Barach P**, Lehman M. Are "minor" postoperative patient complaints a problem? A quality improvement interview study. American Society of Anesthesia Annual Meeting, October 13, San Francisco, CA. 2007.
41. Kosik, E., **Barach, P**, Azocar, R, D'souza, G. 34 Minutes of suspending disbelief—Making a resident's worst clinical case come to life in front of a live audience at the 2007 IARS meeting, American Society of Anesthesia Annual Meeting, October 13-17, San Francisco, CA, 2007.
42. Piachoveli Q, **Barach P.** An adverse event patient safety management system: an 8 year multi-institutional experience. American Society of Anesthesia Annual Meeting October 13, 2007, San Francisco, CA.
43. **Barach P**, Ferreras A, Ferreras T, Risk Factors for Retained Instruments and Sponges after Surgery: The Risk of Leaving Things Behind, American Society of Anesthesia Annual Meeting October 16, 2007, San Francisco, CA.
44. **Barach P.** Morley J, Seiden S. Wrong-Site Anesthesia Events: Are They Occurring More Frequently? American Society of Anesthesia Annual Meeting October 16, 2007, San Francisco, CA.
45. Marath A, Shepard S, Nesbit S, Henson S, Morla E, **Barach P**, Jacobs J. Creation of a Pediatric and Congenital Heart Surgery Outcomes Database for Developing Nations. World Society for Pediatric and Congenital Heart Surgery, May 4, 2007, Washington, DC.
46. Kindler, C, **Barach P.** Are "minor" postoperative patient complaints a problem? A quality improvement interview study. International Forum On Quality, Barcelona, Spain, April 18, 2007.
47. Arora, J. Johnson, **P. Barach.** A Model for Building a Standardized Hand-off Protocol For Anesthesia Care, International Anesthesia Research Society Annual 81st Congress. Anesthesia and Analgesia, 2007, 104:S-83.

48. J. Wilverding, **P. Barach**. Applying Probabilistic Fault Tree Analysis in Health Care: Modeling Medical Errors, International Anesthesia Research Society Annual 81st Congress. Analgesia and Analgesia, 2007;104:S-88.
49. Powell, **P. Barach**; The Impact Of Adverse Event Narratives In Electronic Medical Records For Tracking Adverse Events, International Anesthesia Research Society Annual 81st Congress. Analgesia and Anesthesia 2007;104:S-86.
50. **Barach P**. The Role of Hand-Offs: Assessing the Issues of Communicating Patient Care Information in Critical Care Settings, International Anesthesia Research Society Annual 81st Congress. Analgesia and Anesthesia 2007;104:S-104.
51. Dickerman, K, **Barach P**. We Build Hospitals and They Kill Us, Healthcare Design Conference 06, Chicago, Nov 4, 2006.
52. **Barach P**, Hall K. Creating Quality Evidence for Evidence Based Design: An Overview of Methodological Approaches, 19th Annual Healthcare Facilities Symposium, Chicago, October 24, 2006.
53. Bogner A, Duncan R, Johnson J, Birnbach, D, **Barach P**. Assessing the Burden of Error Recognition on Patient Care in Cardiac Surgical Teams. American Society of Anesthesiology Annual Meeting, A- 1291, Chicago, IL October 14, 2006.
54. **Barach P**, Wilverding J. Assessing and improving communication of patient care information in Critical Care Settings. American Society of Anesthesiology Annual Meeting, A-1291, Chicago, IL October 17 2006.
55. **Barach P**, Sharit J, Examining Issues in Communicating Patient Care Information across Shifts in a Critical care Setting. American Society of Anesthesiology Annual Meeting, A-821, Chicago, IL October 16, 2006.
56. Mayer D, **Barach P**, Tekian A. Designing a patient safety and quality outcomes medical curriculum. Association Medical Education (AMEE), Sept 14-18, 2006, Genoa, Italy.
57. Wilverding J, White A, **Barach P**, Apostolakis G. Using Probabilistic Risk Analysis (PRA) to Explain and Prevent Adverse Medical Events. National Patient Safety Foundation 8th Congress, San Francisco, CA, May 11, 2006.
58. McNeer R, Bohorquez J, Varon R, Ozdamar O, **Barach P**. Analysis of Monitor Alarm Efficacy in the Operating Room. S-167, International Anesthesia Research Society 80th Clinical and Scientific Congress, San Francisco, CA, March 25, 2006.
59. **Barach P**, Kubat M, Premaratne K, He X, Powell T. Probabilistic Decision Trees and Data-mining methods of Intra-operative Medical Records for Predicting Adverse Events International. S-107.
60. International Anesthesia Research Society 80th Clinical and Scientific Congress, San Francisco, CA,

March 25, 2006.

61. **Barach P**, Bognar A, Johnson J, Duncan R, Bache E. The positive role of human factors in improving pediatric cardiac surgery outcomes. S-109. International Anesthesia Research Society 80th Clinical and Scientific Congress, San Francisco, CA, March 25, 2006.
62. Olympio M, **Barach P**, Bateman M, et al, (workgroup on Medical Simulation) Progress on the Development of an ASA Sponsored National Anesthesiology Simulation CME Program. 6th International Meeting on Medical Simulation, A-1499, San Diego, CA, January 16, 2006.
63. Ahmad A, Mohr, J, Bacha, E, **Barach P**. Human Factors on the Cutting Edge: Patient Safety During Pediatric Cardiac Surgery. American Society of Anesthesiology, A-1292, Atlanta, GA, October 26, 2005.
64. Bognar A, Bache E, Mohr J, Asima A, **Barach P**. Safety Culture Survey –A Tool To Uncover Patient Safety Opportunities in the Operating Room, American Society of Anesthesiology, A-1277, Atlanta, October 26, 2005.
65. Xing H, Kubat M, Parmanente K, Powell T, **Barach P**. Probabilistic Decision Trees and Data-Mining Methods of Intra-Operative Medical Records for Predicting Adverse Event, American Society of Anesthesiology, A-1259, Atlanta, October 25, 2005.
66. Seiden S, Gilula M, **Barach P**. Wrong-Sided Anesthetic and Surgical Procedures: Why Do They Continue To Happen? American Society of Anesthesiology, A-1264, Atlanta, October 25, 2005.
67. Alvarez A, Nevo I, **Barach P**. The Perceived Role of Physicians as Impediments to Advancing Health Information Technology Implementation and Utilization. American Society of Anesthesiology, A- 1209, Atlanta, October 24, 2005.
68. Dy C, **Barach P**. The Impact of Student-to-Patient Education at Community Health Fairs: A Pilot Study. Florida Chapter ACP Scientific Meeting, September 16-18, 2005.
69. Ahmad, A; Bacha, E; Bognar, A; Galvan, C; Duncan, R; Starr, J; Mohr, J; **Barach, P**. The Impact of Human Factors in Pediatric Cardiac Surgery. *Circulation*. 111(20):e325, 2005.
70. Gilula, M, **Barach, P**. Creating a Patient Safety Curriculum: Purposive Sampling of Patient Safety Experts. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
71. Bognar A, Mohr J, Bacha E, Jordan G, Duncan R, **Barach P**. Safety Culture in the Operating Room: Perceptions of Pediatric Cardiac Surgery Teams. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
72. Richard McNeer, Anand Xavier, Jorge Bohorquez, Ozcan Ozdamar, and **Paul Barach**. A Demonstration of the Design and Validation of Novel Auditory Alarm Stimuli. Human Factors Society, 49th Annual Meeting, Orlando September 29, 2005.
73. Mitchell, Peter, Carcaise, Michael, **Barach, Paul**, Development of a Formal Protocol for Intrathecal Baclofen Therapy: A Human Factors Solution. S-182, *Anesthesiology* 2005;100;2S, S; IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.

74. McNeer, Richard, Bohorquez, Jorge, Senders, John, Varon, O, Ozdamar, Ozcan, **Barach, Paul**. A Strategy for the Design and Validation of Priority-encoded Auditory Alarms Signals. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
75. McNeer, R., Ozdamar, O, **Barach, P**. Design and Validation of Auditory Alarm Displays that Signal Graded Degrees of Urgency. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
76. **Barach, P**, Galvan, C, Jordan, G, Mohr, J, Ahmad, A, Bacha, E. Human Factors on the Cutting Edge: Patient Safety During Pediatric Cardiac Surgery. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
77. **Barach P**, He X, Kubat M, Premaratne K, Powell T. Using Probabilistic Decision Trees and Data-mining methods of Intra-operative Medical Records to Detect and Predict Adverse Events. IARS 79TH Clinical and Scientific Congress, Honolulu, Hawaii, March 11-15, 2005.
78. **Barach, P**, Shamir, M, Weapons of Mass Destruction/Terrorism Preparedness, Third Annual Anesthesia Update Program, Miami Beach, FL, January 16, 2005.
79. Hitchen, K., Zaldivar, A., Cooper, L., **Barach, P**. Usability Study: Evaluation of Pyxis Automated Anesthesia Medication Dispensing Product Design Specifications versus User Requirements-- Enhancement of Patient Safety, Regulatory Compliance and Reduction in Operational Expenses. 33rd European Symposium on Clinical Pharmacy, Prague-Czech Republic, October 20-23, 2004.
80. Rodríguez, B., Deitz, D., Goldberg, H., Joceph, C., Sarel, D., **Barach, P**. Assessing Consumer Interest in Hospital Quality Indicators (HQI) that is Affecting Hospital Choice. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
81. Kankzi-Armand, R, **Barach, P**. Health Information Technology: A State-Wide Approval to Improve Quality of Care and Reducing Medical Errors in Florida. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
82. Candiotti, K. A., Kamat, A., Nhuch, F., Lewis, M. **Barach, P**. Biological and Chemical Terrorism Preparedness-A Survey of Anesthesia Training Programs in the United States, A-1316. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
83. **Barach, P.**, Seiden, S. Wrong-sided aesthetic and surgical procedures: Are they preventable? American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
84. **Barach, P.**, Apostolakis, G., Wilwerding, J. Modeling Techniques to Reduce Errors in Patient Hand- Offs. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
85. Gilula, M., Huber, T., Shah, B., **Barach, P**. Expert and Literature Consensus on Implementing a Patient Safety Curriculum. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
86. Richmond, E., Lubarsky, D., **Barach, P**. Cardiac Arrest and Death during Anesthesia Secondary to Iatrogenic Hyperkalemia: Case Report and Database Review. American Society of Anesthesiologists, Annual Meeting, Las Vegas, Nevada, October 2004.
87. Galvan C., Bacha EA., Mohr, J., Starr, JP., **Barach, P**. The Role of Human Factors in Patient Safety During Pediatric Cardiac Surgery, A-1264. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.

88. McNeer, R. R., Bohorquez, J., Senders, J., Ozdamar, O., **Barach, P.** Design and Validation of Auditory Alarm Displays that Signal Graded Degrees of Urgency, A-562. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
89. Powell, T., **Barach, P.** Adverse Event Reporting Failures, Fear, May Not be the Barrier. American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, Nevada, October 2004.
90. Rodríguez, B., Joseph, C., Deitz, D., **Barach P.** Learning from Patients /Consumers: Hospital Indicators of Quality. 2nd International Conference on Communication in Healthcare, co-sponsored by the European Association in Healthcare (EACH) and the Northwestern University Medical School, Chicago, IL. Bruges, Belgium, September 14-17, 2004.
91. Rodríguez, B., **Barach P.** Developing Diversity Responsive Policy: Communication about Patient Safety. 2nd International Conference on Communication in Healthcare, co-sponsored by the European Association in Healthcare (EACH) and Northwestern University Medical School, Chicago, IL. Bruges, Belgium, September 14-17, 2004..
92. Rodríguez, B., Deitz, D., Goldberg, H., Joseph, C., Sarel, D. Wilwerding, J, **Barach, P.** Assessing Consumer Interest in Hospital Quality Indicators: The State of Florida Experience, Boston, National Patient Safety Foundation Congress, May 7, 2004.
93. Gilula, M., **Barach P.** CYBERDOctv: Integrated Patient Safety/Wellness Multimedia Web-Based Curriculum Featuring Onset and Maintenance Blogging. International Simulation and Gaming – 2004, Berlin, Germany, September, 2004.
94. Richmond, E., Lubarsky, D., **Barach P.** Cardiac Arrest and Death during Anesthesia Secondary to Iatrogenic Hyperkalemia. International Anesthesia Research Society Annual Meeting, S-60, Anesthesia and Analgesia 2004, Tampa, May, 2004.
95. Vohra, P., Daugherty, C., Mohr, J., Wen, M., **Barach, P.** Attitudes of Medical Students and Housestaff towards medical records and adverse events. International Anesthesia Research Society Annual Meeting, S-57, Anesthesia and Analgesia 2004, Tampa, FL, May.
96. Wilwerding, J., White, A., Apostolakis, G., **Barach, P.**, Fillipo, B., & Graham, L. Modeling Techniques and Patient Safety. 7th International Conference on Probabilistic Safety Assessment and Management. Berlin, Germany, June 15, 2004.
97. Galvan, C., Bache, E., Mohr, J., **Barach P.** Human Factors and Patient Safety During Pediatric Cardiac Surgery, Charles B. Higgins Conference, Department of Surgery, University of Chicago, June 5, 2004.
98. Galvan, C., Bache, E., Mohr, J., **Barach, P.** Human Factors and Patient Safety During Pediatric Cardiac Surgery, Sixth Annual Child Health Services Research Meeting, San Diego, May 15, 2004.
99. Galvan, C., Bacha, E., Starr, H. P., Smith, P. Concilio, K., Macek, G., Mohr, J., **Barach, P.** Human Factors and Patient Safety during Pediatric Cardiac Surgery, University of Chicago Annual Surgery Meeting, May 15, 2004.
100. Rodríguez, B., Deitz, D., Goldberg, H., Joseph, C., Sarel, D. Wilderwing, J., **Barach, P.** Assessing Consumer Interest in Hospital Quality Indicators: The State of Florida Experience. National Patient Safety Foundation Congress, Boston, MA, May 4, 2004
101. Mohr J., **Barach P.** The Use of Focus Groups as a Means of Identifying Risks and Hazards. AHRQ Compendium on Patient Safety: Agency for Healthcare Research and Quality Advances in Patient

Safety, January 8, 2004.

102. Vohra, P., Daugherty, C., Mohr, J., Wen, M. Barach, P. Medical Student and House Staff Attitudes towards Adverse Medical Events, A1342, American College of Surgeons, Chicago, IL, October 20, 2003.
103. Sieden, S., Kivlahan, C., Runciman, W., Christiansen, U., **Barach, P.** Wrong-sided anesthetic and surgical procedures: Are they preventable? A1355, International Anesthesia Research Society, New Orleans, March 12, 2003.
104. Mitchell, P., Gosbee, J., **Barach, P.** Designing a Patient Safety Curriculum, 5th International Conference on the Scientific Basis of Health Services: Global Evidence for Local Decisions, Washington, DC, September 22, 2003.
105. Sieden S, Kivlahan C, Runciman W, Christiansen U., **Barach, P.** Wrong-sided anesthetic and surgical procedures: Are they preventable? International Anesthesia Research Society, New Orleans, March 21, 2003.
106. Vohra, P., Daugherty, C., Mohr, J., Wen, M., **Barach, P.** Evaluation of Housestaff and Medical Student Attitudes towards Adverse Medical Events. International Anesthesia Research Society, Orlando, March 23, 2003.
107. **Barach, P.,** Vohra, P., Mohr, J. Evaluation of housestaff and medical student attitudes toward adverse medical events; International Scientific Symposium, IHI Annual meeting, Orlando, December 9, 2002.
108. Mohr, J., **Barach, P.** Designing and evaluating an approach to teaching patient safety and systems thinking, Ottawa Conference on Medical Education, Ottawa, July 13, 2002.
109. **Barach, P.,** Mohr, J. Microsystems Simulation: Designing and evaluating an approach to patient safety and systems thinking. American Society of Anesthesia, October 13, 2002.
110. Mohr, J., **Barach, P.** Designing and evaluating an approach to teaching patient safety and systems thinking. Teaching Skills for the Medical Educator Meeting, University of Chicago, March 23, 2002.
111. Richter, E., **Barach, P.,** Ben-Michael, E. Ecologic evaluation of road safety. 6th World Conference on Injury Prevention and Control, pp. 242-243, Montreal, Canada, May 12-14, 2002.
112. **Barach, P.,** Richter, E., et al. Raised speed limits, and road deaths in Israel: Time series analysis, 6th World Conference on Injury Prevention and Control, presented by Dr. Elihu Richter, Montreal May 15, 2002.
113. **Barach, P.,** Small, S. Near Miss adverse event reporting in Medical, Aviation, Nuclear Power and Petrochemical industries, A-1135, American Society of Anesthesia New Orleans, LA, October 15, 2001.
114. Richter, ED., **Barach, P.,** Ben-Michael, E., & Weinberger, Z. Ethics and Science in transport risk assessment. Israel Society of Ecology and Environmental Quality Sciences, Jerusalem, June 13-18, 2001.
115. **Barach, P.,** Ben-Michael, E., Richter, E.D. Gulf War Syndrome: The End of the Beginning? Neuroscience Letters: 55: S1-S64, Eilat, Israel, December 3-6, 2001.
116. Small, SD, **Barach P.** Statewide Survey of Massachusetts Physician Attitudes towards Policy and Workplace Issues of Patient Safety. American Society of Anesthesiologists, Anesthesiology 2000, A-

- 1188, San Francisco, October 16, 2000.
117. Kofke, A., Small, S.D., **Barach, P.**, et al. Ethics in Cost Containment Research in Anesthesia, Anesthesiology 2000, A-1120, American Society of Anesthesiologists San Francisco, October 15, 2000.
 118. **Barach, P.** In Hospital Resuscitation: Team training using simulation. Society for Education in Anesthesia, Rochester, NY, June 5, 2000.
 119. Richter, E.D., **Barach, P.**, Ben-Micheal, E. & Weinberger, Z.: Junk Ethics and Junk Science in Transport Risk Assessment. Proc 7th International Conf of Israel Soc Ecology and Environmental Health Sciences, Pp 125, June 13-18, 2000.
 120. **Barach, P.**, Small, S.D., Kaplan, H. Designing a confidential safety reporting system: In depth review of thirty major medical incident reporting systems, and near-miss safety reporting systems in the nuclear, aviation, and petrochemical industries. Anesthesiology 1999; 91: A-1209, American Society Anesthesiologists, Dallas, October 12, 1999.
 121. Small, S.D., Barach, P., Raemer, D., Carroll, J., Simon, R. Description of a new RRC and ABA approved simulation elective, and resident attitudes towards expanded simulation training Anesthesiology 1999; 91: A-1150, American Society Anesthesiologists, Dallas, October 11, 1999.
 122. **Barach, P.**, Small, S.D. Interpersonal interactions in high-risk medical situations, Annual American Psychological Association, Boston, August 20, 1999.
 123. Ben-Michael, E., **Barach, P.**, Richter, E.D. Gulf War Syndrome: A Sentinel Episode. Kiryat Anavim Conference on Occupational Health and Ethics, Jerusalem, May 15, 1999.
 124. **Barach, P.**, Small S. Modeling Performance of in-hospital resuscitation teams: A field and realistic simulator study, 11th Annual International Trauma Anesthesia and Critical Care Society, Vienna, May 20-23, 1998.
 125. **Barach, P.**, Bergon, B., Bailin, M. The Core competency-based anesthesia residency curriculum, 9th World Congress on Medical Informatics, Seoul, South Korea, August 18-22, 1998.
 126. Small, DS., **Barach, P.** The emergence of decision functions during non-routine perioperative care, Fourth Conference on Naturalistic Decision Making, Arlie, Virginia, May 29-31, 1998.
 127. Richter, E.D., **Barach, P.**, Sabbagh, S. Road Injury: Principles of Emergency Response and Prevention. First UN International Conference on Medical Support for Peace Keeping Operations, Geneva, March 24, 1997.
 128. Richter, E.D., **Barach, P.**, Krikler S, et al. Do higher speed limits kill? The 100 kph experiment: An epidemiological evaluation. Proc Israel Statistical Society, Tel-Aviv, May 29, 1997.
 129. **Barach, P.**, Rivkind, A., Israeli, A., Richter E. Emergency Preparedness and response in Israel during the Gulf War: A re-evaluation. The Fourth Israel Society of Emergency Medicine, Jerusalem, March 24-25, 1997.
 130. Cotter, G., **Barach, P.** Early high dose intravenous Nitrates for control of unstable Angina Pectoris. American College of Cardiology. Orlando, Florida, March 12, 1996.
 131. Richter E.D, **Barach P.** The 100 KPH Speed Limit in Israel: Are Helsinki Type Safeguards Needed in Non-Medical Settings? Epidemiology 7: 4: Supplement S 79, 1995.

132. Silver, J., Naveh-Many, T., **Barach, P.** Regulation of PTH mRNA in experimental uremia - relationship to 1,25 (OH) receptor. First International Calcified Tissues Meeting, Jerusalem, January 2, 1989.
133. Silver, J., Naveh-Many, T., **Barach, P.**, Shvil, Y. Regulation of PTH mRNA in experimental uremia - relationship to 1,25 (OH) receptor. American Society of Nephrology, Orlando, Florida, December 6, 1989.
134. **Barach, P.** Weinstock, M. The applications of Electro-Cutaneous Stimulation (ECS) in analyzing the analgesic properties of Morphine. European Meeting of the International Union of Physiological Sciences, Jerusalem, December, 1984.
135. Dalith, M., **Barach, P.**, Weinstock, M. Respiratory and cardiovascular responses to non-inceptive stimulation in the quantitative assessment of analgesia. European Meeting of the International Union of Physiological Sciences, Jerusalem, December 4, 1984.

EDUCATIONAL AND TEACHING ACTIVITIES

A. DEVELOPMENT OF TEACHING SKILLS

Formal studies in university-level teaching

- Harvard Medical School Education Leadership Program –Josia Macy Foundation Institute Scholarship, January –June 2001
- Advanced Training Quality Fellowship Program, Institute for Health Care, Salt Lake City, UT; under Dr Brent James, MD, MS., January 2000 - June 2000
- Examiner training for the US NIST Malcolm Baldrige National Quality Improvement Award, 2004 and 2005
- Advanced Cardiac Life Support (ACLS) Teacher's course, 2000
- Advanced Trauma Life Support Teacher's Course, 2001
- Advanced Crew Resource and Management I, I I (ACRM), Harvard Simulation Center, Boston, MA, 1998, 1999
- Medical Officer training, Israeli Defense Forces—6 months, 1990

B. TEACHING AND CURRICULUM DEVELOPMENT ACTIVITIES

1996-2000 Mentored, supervised and provided clinical teaching to anesthesia, surgical residents and medical students on a daily basis at Massachusetts General Hospital.

2000-2003 Mentored, supervised and provided clinical teaching, University of Chicago (typically 2 chief residents, 30 junior residents, and 10-15 students each year). This supervision and mentoring includes contact discussing patient-related care by day and night, clinical rounds, didactic teaching conferences, operating room teaching, outpatient clinic teaching and intensive care rounds. I have written and participated in preparing and debriefing objective structured clinical examination (OSCE's) at Harvard Medical School, the University of Chicago, and now at the University of Miami for third and fourth year medical students.

Responsible for the orientation of medical students and house staff, in the fields of quality improvement and patient safety at the University of Chicago Pritzker Medical School.

2001 Faculty Curriculum Teaching Award, Pritzker School of Medicine, University of Chicago

2003-2006 University of Miami Curriculum Developer and Course Director Patient Safety and Quality Curriculum; themes vary from implementation of guidelines, the validation of indicators and measurement instruments, the evaluation of innovative models for integrated care to improving patient participation in the care process.

Developed web based patient safety curriculum and syllabus

Patient Safety Anesthesiology Residency Course Director-2004-2005

Associate Dean for Patient Safety and Quality Improvement
Mentored 38 Graduate, Masters/PhD students (see below).

Director of Center for Safety and Simulation (8000 sq feet, 20 FTE, budget \$1.8 million/year).

2000-2009 Advanced Training Program (ATP), Intermountain Healthcare leading Quality, Improvement training in US. 4 hour workshop, 2 x year (with Julie Johnson, PhD (Average student evaluations 4.5-5 on 5 point scale)

2003-2005 National invited Refresher Course, Disaster Preparedness and Weapons of Mass Destruction, American Society of Anesthesia (Average evaluations 4.4 on 5 point scale)

2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2016, 2017 Faculty, National, Annual Forum, Institute for Health Improvement, Orlando (Evaluation 81% highest workshop evaluation

2008, 2009, 2010, 2011, 2012, 2013, 2018, 2019 Faculty, International Forum on Quality.

2007-2008 Patient Safety Curriculum Year long Course (10 meetings), Department of Anesthesia Utrecht Medical Center, Utrecht, NL

2007- 2010 Co-Chair Patient Safety Certificate Program, Harvard Quality Colloquium, Cambridge, MA.100-150 students/year <http://www.qualitycolloquium.com/>

2014-2017 Hospital Management Asia, Director of Patient Safety Certificate Program, hybrid blended program. Scheduled for 2018 Sept 12-14, Bangkok, Thailand.

2017-current Leadership Program in Patient Safety for ICU Physicians, Brussels, January, with Professor Jean Louis Vincent.

2019-current Jefferson College of Population Health, Comparative Health Systems, Masters in Patient Safety and Quality Improvement

B. Production of study materials and instructional materials (Other Media (films, videos, CD-ROMS, slide sets, etc.)

I have been involved in developing study and instructional materials. The materials were developed after rigorous instructional design and using robust pedagogical considerations. The materials below were made widely available to students and teachers for them to use in their own instruction.

2017 Leadership in Critical Care, Co-chair, World Congress of Critical Care, Rio De Jeaniro, Brazil, November 7.

2017-2018 Leadership in Critical Care, Co-chaired and led 2 day workshop for 50 ICU leaders, Brussels, Belgium, Jan 16-17. And Jan 17-19, 2018.

<http://www.intensive.org/12/Faculty.asp?L1=2&L2=1&L3=1&ety=12>

<https://healthmanagement.org/c/icu/issuearticle/learning-to-lead-an-icu-new-course>
<https://healthmanagement.org/c/icu/event/icu-leadership-2017>

2014-2017 Chair of Patient Safety Hybrid Certificate Program, Health Management Asia.
<http://www.hospitalmanagementasia.com/patient-safety-officer-certificate-program/> and, link to podcasts, webinars and references <http://www.hospitalmanagementasia.com/podcasts/>

2015- Crisis Checklist C3 Toolkit. Advisor on project on prognosticating deteriorating patients and an international bench marking study of rapid response teams

2012-2014 Co-Lead Learning from our patients, www.learningfromourpatients.com

2008-2012 HANDOVER Toolkit. One of the key deliverables of the FP-7 Handover project (2008- 2012) Improving the continuity of patient care through teaching and researching novel patient handover processes in Europe, (that I was CI) was in developing a handover toolkit and variety of teaching materials which are widely available at www.handover.eu and the follow up grant at <http://www.patient-project.eu>

2004-2007 TEAMSTEPPS Toolkit. I was part of small team that led the development of the main team training program in healthcare. I was the lead consultant on the Team Training Curriculum, for the Department of Defense, (2004-2006). We have published numerous peer review papers team training and created the TeamSTEPPS, Strategies and Tools to Enhance Performance and Patient Safety, CD/DVD,

Curriculum Kit, AHRQ Pub. No. 06-0020-3, 2006. ISBN 1-58763-192-X. See <http://teamstepps.ahrq.gov/>. This effort to the highest award in 2007, Team Winner of 2007 Scott Myers Award for Applied Research in the Workplace, Society of Industrial and Organizational Psychology for TeamSTEPPS, Team Training Program, 2007.

2004-2006 American Board of Medical Specialties Maintenance of Certification. Co-led a project to design and develop an on-line patient safety improvement program for the American Board of Medical Specialties (ABMS). The ABMS Patient Safety Improvement Program is available at http://abms.org/Products_and_Publications/Performance_Improvement/PSIP.aspx
http://www.abms.org/Products_and_Publications/pdf/ABMS_Patient_Safety_Combined_Syllabus_092008.pdf

- Patient Safety Certificate Program, Harvard Quality Colloquium, <http://www.qualitycolloquium.com/>
- Calling for Help; Internship Patient Safety Web Based Curriculum, University of Miami, 2005.
- Patient Safety Web Curriculum, Massachusetts Medical Society, senior advisor, 2001-2002.
<http://www.massmed.org/pages/ptsafetycurriculum.asp>
- First Do No Harm. Video. Partnership for Patient Safety, in conjunction with the Harvard Risk Management Foundation, June 2000. Chief Scientific Advisor.
- Meeting Challenges in Patient Safety Education, Web based program for Core Learning, Case Western Reserve, Department of Medicine, 2003.

- Patient Safety Web Curriculum, Massachusetts Medical Society, senior advisor, 2001-2002.
<http://www.massmed.org/pages/ptsafetycurriculum.asp>

D. Interprofessional Teaching including nurses and allied healthcare students and practitioners.

I have a long standing passion and commitment to interdisciplinary teaching and training, and interprofessional cooperation and education of nursing and medical practitioners. The materials I co-developed and used for teaching including for the TeasmSTEPPS medical team training program, HANDOVER training program for reduced readmissions and improved transitions, the Advanced Training Program (ATP), Intermountain Health Care, Salt Lake City; and my teaching for the National, Annual Forum, Institute for Health Improvement (IHI), Orlando, Florida and the International/European Forum on Quality have ALL emphasized cross professional cooperation, learning and assessment. This emphasis has been longstanding in my peer review publications around the clinical microsystem, developing non technical skills for surgical teams, review of safety and quality process failures and more.

Please see detailed list of publications around my support and scientific work in support of interdisciplinary cooperation.

- I have been involved for over a decade in mentoring, supervising and providing clinical teaching to anesthesia, surgical residents, nurses, and medical students on a daily basis in several academic teaching centers such as Massachusetts General Hospital/Harvard Medical School; University of Chicago Hospital; University of Miami and Jackson Memorial Hospital; Utrecht Medical Center; University College Cork, Ireland; University of South Florida, Tampa, etc.
- This supervision and mentoring includes contact discussing patient-related care by day and night, clinical rounds, didactic teaching conferences, operating room teaching, outpatient clinic teaching and intensive care rounds.

In 2012, I developed for the NSW Department of Health (HETI) interprofessional teaching scenarios for The NSW Leadership Framework. This lays out the 5 key domains focusing on the work and practice of leadership as well as the expected observable behaviors of individual leaders. The patient stories represent the workplace culture and practice, and will help to support the drivers for organizational culture change in NSW. Implementing the framework will benefit from a series of engagement tools slated for the HETI Portal designed to support the uptake and buy-in of the five leadership constructs. This clinician informed leadership frameworks offer a clinician-designed approach to promoting values and care standardization that accommodates patients' individual differences, respects providers' clinical acumen, and keeps pace with the rapid growth of medical knowledge.

E. Course evaluation, and evaluation of instruction and study programs

My undergraduate/graduate and post-graduate students general give me high evaluations that range from 4.4-5 on scale of 1-5. I actively seek out feedback on my lectures and many educational interventions and continuously strive to better connect with my students and find ways to improve my delivery, engagement and impact of my teaching.

Since eulogy virtues are more important than those on one's resume I share below the observations by students, clinical trainees, faculty and others over hundreds of invited talks. Several described my overall teaching performance as "excellent," and: "leadership by example and managing change through visibility, availability, and accessibility"; "increased academic productivity"; "effective advocacy"; "passionate about his work"; "always approachable and accessible"; "open to new ideas"; "sets clear expectations"; "listens well"; and "visionary."

F. External Expert Review for Promotion Appointments

Review and recommendation letters have been written for promotion appointments or awards for candidates in the United Kingdom, Sweden, Australia, Israel, and the United States.

G. SUPERVISION: Mentoring and Supervision (undergraduate, medical, graduate, residents, fellows, postdoctoral fellows):

1. Dan Loder, MD, Basics of Anesthesia, UC, July-August 2002.
2. Funda Gulmen, MS, Etiology of wrong-sided procedures, UC, August 2002- October 2002.
3. Ashraf Darwish, Medical Student II, Human factors in infant cardiac surgery, UC, June 2002-Dec 2002.
4. Sam Seiden, Summer Research Program, University of Chicago, Medical student, Wrong-Sided procedures: Lessons from non-medical industries, UC, July 2002-June 2005.
5. Cynthia Galvin, Summer Research Program, University of Chicago, Medical student, Mortality and adverse events in congenital heart disease patients: A retrospective chart review outcomes measurement in Pediatric Cardiac surgery, 2002 Pritzker School of Medicine NIH Short Term Training Grant (PI Eugene Chang) May 2002-June 2004.
6. Pam Vohra, Summer Research Program, University of Chicago, Medical student, Evaluation of housestaff and medical student attitudes toward adverse medical events, 2002 Pritzker School of Medicine NIH Short Term Training Grant ; Honorable mention award for outstanding research project March 2002-June 2003.
7. Christie Prione, RN, M. Clin. Sc., Masters Thesis advisor, Near miss reporting in Hyperbaric Chambers, University of Adelaide, South Australia, 1999-2001.
8. Matt Hill, MD, Basics of Anesthesia, UC, July 2001.
9. Wrenn Waldsetein, BS, Wrong-sided procedures, UC, March-June 2003.
10. Richard McNeer, MD, PhD (Faculty), Title: A role for musical stimuli in improving auditory alarms, UM, June 2003-.

11. Roshan Rao, MD (Safety fellow), Title: Creating effective near miss and adverse event reporting systems in intensive care units, UM, July 2003-.October 2003.
12. Michelle Taveras, PhD thesis. Relationship between access to care and patient safety, UM, January 2004-2009.
13. Micheal Rossi, MD, Pediatric conscious sedation, UM, December 2003.
14. Asima Ahmad, BS, Human Factors in Pediatric Cardiac Surgery, U Chicago, July 2004-2006. *Worked on research project funded by the American Heart Association "Human factors and patient safety during infant cardiac surgery."* Ms. Ahmad is currently a medical student at the University of Chicago Pritzker School of Medicine.
15. Daniel Barsky & Allison Baker, Summer Research Program, University of Miami, Disclosure of Adverse Events: Development of Miami Center for Patient Safety Evaluation Forms, June 2004.
16. Tara Beekman, Summer Research Program, University of Miami, Monadic Usability Test for Anesthesia Workstation, June -September, 2004.
17. Alex Zaldibar, Summer Research Program, University of Miami, Usability Study: Automated Anesthesia Medication Dispensing System, June -October, 2004.
18. Benjamin Parish, Summer Research Program, University of Miami, Evaluation of medical student attitudes toward adverse medical events at the University of Miami, June 2004-2005
19. Elizabeth Godfrey, Summer Research Program, University of Miami, Family Perspectives on the Quality of Pediatric Cardiac Surgical Patient Care, June 2004-2006.
20. Eric Chavoustie, Summer Research program, University of Miami, Wrong Site Surgery, June -October, 2004.
21. Guarav Chalana & Ameena Shrestha, Summer Research Program, University of Miami, Falls risk factors in the hospital setting: A systematic review, June 2004-2005.
22. Kai-yen Hsu & Craig Kronberg, Summer Research program, University of Miami, Fires/Smoke/Burns in the OR, June 2004- 2005.
23. Lorgie McCane & Michael Alex Johnston, Summer Research Program, University of Miami, An observational study on the current effectiveness of shift change transition and on ways to improve effectiveness for future training, June 2004-2006.

24. Michael Carcaise, Summer Research Program, University of Miami, Intrathecal Baclofen Therapy Protocol, June – October, 2004.
25. Xing He, Doctoral Student, Summer Research Program, University of Miami, Using Data Mining Technology to Advance Patient Safety Information Systems and Improve Patient Safety, June 2004-2006.
26. Marshall Gilula, MD, Patient Safety Fellow, UM, 2004-2006.
27. Agnes Bogner, MD, MBA, Patient Safety Fellow, UM, 2004-2006, now Assistant Professor, Hungary.
28. Thomas Powell, MD, MBA (faculty), Data Mining, UM, 2003-2007.
29. Richard McNeer, MD, PhD (Faculty), Alarm system designs, 2003-2006, Now Associate Professor, University of Miami.
30. Kendall Hall, MD (fellow, Northwestern Memorial Hospital), 2005-2007. Now Assistant Professor, University of Maryland.
31. Anneke Sterkenburg, MD, Entrustable educational agents and patient safety, 2007-2009, Utrecht University Medical Center, Utrecht, Netherlands.
32. Annelot Kreideit, Role of Handwashing and Perioperative Infections, 2007-2009, Utrecht University Medical Center, Utrecht, Netherlands.
33. Ton Schoten MD, The Impact of Human Factors on Cardiac Surgery Outcomes, 2007-2009, Utrecht University Medical Center, Utrecht, Netherlands.
34. Petra Gademan, MD, University of Utrecht, Netherlands, HANDOVER project, 2008-2010.
35. Mary Potter-Forbes, The role of Disclosure in Patient Safety, PHD student, University of Technology Sydney, Australia, 2009-2016
36. Beryl Göbel, a PhD student studying handovers of care at Utrecht University, The Netherlands, 2010-2011.
37. Kristin A Laugaland, PhD student studying Patient Handovers in the Elderly, University of Stavanger, Norway, 2011-2016.
38. Kirsten Brubakk, PhD student, Effects of accreditation and certification of hospitals, University of Oslo, Norway, 2013-ongoing
39. Mary Parker, MSc, Noise Pollution—Effect of Noise Pollution—Effect on Cognitive

Performance and Patient Safety, student, 2015-ongoing

40. Olsen, Siri Lerstøl, PhD, Stavanger University Hospital--implementation aspects of RRS, 8/2017-.
41. Sindre Aske Høyland, Safer Gastrointestinal Surgery in Elderly Patients (SAGASEP) – a Diagnostic and Intervention-based Approach focused on Non-Medical Factors, 9/2017-
42. A/Professor Kersi Taraporewalla, "*The Teaching of Procedural skills in Anaesthesia*". Univeristy of Queensland, 2019-

H. INVITED VISITING PROFESSORSHIPS AND GRAND ROUNDS

1. Medication Safety, UnityPoint Health-Meriter, University of Wisconsin, Madison, Oct 28, 2020, invited.
2. Challenges and Opportunities in Measuring and Improving Surgical Safety. Monument Health, Rapid City Hospital, Rapid City, South Dakota, February 13, 2020.
3. Optimizing Safety, Communication, and Teamwork in and Around the Operating Room, University Hospital RWTH *Aachen*, Germany, Sept 5, 2019.
4. Optimizing Safety, Communication, and Teamwork in Emergency Care. Indiana University, Indianapolis, August 22, 2019.
5. Optimizing Safety, Communication, and Teamwork in Pediatric Care, Wayne State University School of Medicine, Detroit, MI, Feb 18, 2019.
6. 'When Right could be so Wrong': Laterality Errors in Healthcare, Rapid City Hospital, Rapid City, South Dakota, Jan 18, 2019.
7. The Science of Improving the Reliability and Safety of Anesthesia Care, Royal Brisbane Hospital, University of Queensland, Queensland, Australia, Jan 7, 2019.
8. The Art and Science of Coproducing Exceptional Cancer Care, National Cancer Center, Seoul, South Korea, Dec 20, 2018.
9. Optimizing Safety, Communication, and Teamwork in Pediatric Cardiac Care, Westmead Children's Hospital, Sydney, Australia, August 6, 2018.
10. Health Systems Strengthening, ICU Grand Rounds, VU Medical Center, Amsterdam, May 1, 2018.
11. The Journey to High Reliability and Reliable Outcomes, Kyoto University Hospital, Kyoto, April 10, 2018, Kyoto, Japan.
12. Colon Cancer Learning Collaborative, Leuvan University Hospital, Jan 16, 2018, Brussels, Belgium.
13. Merits of Exercise and Cognitive Pre-Habilitation Therapy Before and After Major Surgery, Anesthesiology Department, University of Sao Paulo, Nov 9, 2017, Sao Paulo, Brazil.
14. Systems Approaches to Surgical Quality and Safety: From Concept to Measurement, Keynote, Korean Surgical Society, Sept 15th, Asan Medical Center, Sept 15th, 2017, Seoul, Korea.

15. Role of Human Factors in Patient Safety, Grand Rounds, Korea University College of Medicine, Seoul, Korea, Sept 14, 2017.
16. The Key Role of Leadership in the Journey to High Reliability, Exceptional Team performance and Reliable Surgical Outcomes, Surgical Ground Rounds, Seoul National University Hospital, Sept 13, 2017.
17. Systems Approaches to Surgical Quality, Safety: From Concept to Measurement Gunma University Medical Center, Maeba, Japan, April 23, 2017.
18. Challenges in making anesthesia safer, Anesthesia Ground Rounds, Tufts Medical Center, April 5-6, 2017.
19. Worker safety and drug addiction, Medical Rounds, Fisher Titus Hospital, OH, Jan 24, 2017.
20. Pediatric patient safety, Grand Rounds, Children's Hospital, Wayne State University, Sept 16, 2016.
21. Designing Reliability into Healthcare, Department of Anesthesia and Critical care, University of Stavanger, Norway, July 4, 2016.
22. Handoffs and readmission management including communication and culture, Medical Rounds, Fisher-Titus Hospital, Fisher-Titus, Ohio, Nov 17, 2015.
23. Reliability, entrustment and clinician sensemaking: powerful tools for reducing the impact of normalized deviance, Grand Rounds Speaker, Children's Hospital of Michigan, Detroit, August 22, 2014.
24. The assessment of professional competence: how to thrive in the new world of EPA, Simulation, CLER and TeamSTEPPS, Noon Speaker, Children's Hospital of Michigan, Detroit, August 22, 2014.
25. Designing reliable healthcare systems for value and safety, Grand Rounds, Cork University Hospital, University College Cork, Ireland, Jan 22, 2014.
26. Surgical Team performance and feedback, Department of Surgery, University of Lisbon, Lisbon, Portugal, Nov 4, 2013.
27. Safety of Patient Handover in Emergency Care, Grand Rounds, Singapore General Hospital, Singapore, October 30, 2013.
28. Teams and team performance, Anesthesia Grand Rounds, University of California, Irvine, CA, January 4-5, 2012.
29. Assessing the reliability of healthcare teams, Anesthesia Grand rounds, Wake Forest University, Winston Salem, North Carolina, December 13, 2012.
30. The Role of Human Factors in Safe Cardiac Anesthesia. Anesthesia Weekly Rounds, Princess Margaret Hospital, Perth, WA, March 23, 2011.

31. Innovations in Pediatric Cardiac Surgery, Grand Rounds Combined, Surgery and Anesthesia, University of North Carolina, Chapel Hill, North Carolina, Dec 15, 2010.
32. The impact of human factors in designing safe and reliable care, Grand Rounds, Department of Anesthesia, Stokes Veterans Administration, Cleveland, Ohio, October 20, 2010.
33. Healthcare Innovation in Auckland, Auckland University, Auckland, New Zealand, June 11, 2010.
34. Teams and high reliability care, Hospital Grand Rounds, Royal Prince Alfred Hospital, Sydney, March 12, 2010.
35. Patient Handovers, Workshop, National Institute of Public Health, Tokyo, Japan, Feb 24. 2010.
36. Patient Safety Challenges, Invited Speaker, Anesthesia Grand Rounds, Carolina Medical Center, Charlotte, NC, December 10, 2009.
37. Patient Safety and Human Factors. Grand Rounds, Department of Public Health, Alfred Hospital, March 30, 2009, Melbourne, Australia.
38. The Role of Human Factors in Paediatric Patient Safety, Grand Rounds, Randwick Children's Hospital, April 1, 2009, Sydney, Australia.
39. Patient Safety and Human Factors. Grand Rounds, Department of Public Health, Royal Alfred Hospital, March 30, 2009, Melbourne, Australia.
40. Ten years after the IOM report, TO Err is Human: What have we learned? Invited presentation, University medical Center, Radboud, Nijmegen, Netherlands, Jan 8, 2009.
41. Assessing the role of human factors and teams in making healthcare safer, Visiting Professor and Grand Rounds, Department of Anesthesia, University of Pittsburgh, PA, December 11, 2008.
42. Implementing Patient Safety programs, Grand Rounds, Catharina Ziekenhuis Hospital, Eindhoven, February 18, Netherlands (with Cor Kalkman), 2008.
43. The Role of Engineering in Creating Patient Safety, Grand Rounds, Departments of Industrial and Biomedical Engineering, University, Istanbul, November 16, 2007.
44. Assessing the Reliability of Healthcare, Visiting Professor and Grand Rounds, Boston University Medical Center, Boston, MA, Sept. 17, 2007.
45. The Challenges and Opportunities in Studying Patient Safety, Invited Professorship Series, Julius Center of Epidemiology, Utrecht University Medical Center, Utrecht, NL, July 3, 2007.
46. Patient Safety, role of communication and hand offs, Grand Rounds, Anesthesia and Critical Care, Royal Infirmary, University of Glasgow, Glasgow, Scotland, June 28, 2007.

47. System Barriers to Achieving Ultrasafe Healthcare, *Grand Rounds and Visiting Professor* Department of Anesthesia, Medical College of Wisconsin, Milwaukee, WI, June 6, 2007.
48. Myths and Truthiness in Pediatric Cardiac Surgery, Los Angeles Children's Hospital, Los Angeles, May 11, 2007.
49. Keeping Patient Alive in Healthcare, *Visiting Professor*, Honario Delgado Hospital, University of Arequipa, Peru, April 12, 2007.
50. Designing Healthcare Environments: The Role of Human Factors in Creating Safe Patient Outcomes, *Visiting Professor*, American University of Antigua College of Medicine, St John, Antigua, March 10, 2007.
51. Can you Design Patient Safety into Hospitals? *Visiting Professor*, College of Architecture, Texas A&M University, Feb 11, 2007 (in Miami).
52. Hand Offs---How to design a better widget? *Visiting Professor and Grand Rounds*, Utrecht University Medical Center, Utrecht, Holland, Dec 7, 2006.
53. Reliability of Healthcare Systems, *Visiting Professor and Grand Rounds*, Anesthesia, Mayo Clinic, November 2006. 27, Rochester, MN.
54. Patient Safety 2010: Opportunities and Challenges, Vancouver General Hospital, *Grand Rounds*, University of British Columbia, Vancouver, BC, Canada, Nov 15, 2006.
55. The Role of Patient Hand-Offs: Can we do better? *Grand Rounds*, Department of Anesthesiology, University of Washington, October 31, 2006, Seattle, WA.
56. How Do We Make Healthcare Safer? Invited lecture and Visiting Professor Hospital Honorario Delgado General Hospital, University of Arequipa, Arequipa, Peru, Sept 19, 2006.
57. Is Anesthesia as Reliable as we think it is? *Grand Rounds and Visiting Professor*, National Children's Hospital, Lima, Peru, Sept 15, 2006.
58. The Role of Human Factors and Teams in Pediatric Cardiac Surgical Care, *Visiting Professor and Grand Rounds*, Anesthesia department, Universitätsspital Basel, University of Basel, Switzerland, September 7, 2006.
59. Measuring Reliability of Anesthesia Care, *Grand Rounds and Visiting Professor*, University of Porto, Hospital General de Santo António, Porto, Portugal, June 30, 2006.
60. Patient Safety and Medico-liability in Florida, *Grand Rounds and Visiting Professor*, University of Nagoya, Nagoya, Japan, June 19, 2006.
61. Future of Patient Safety: Is there Hope? *Grand Rounds*, Tohoku University, Japan, June 14, 2006.

62. Patient Safety in Cardiac Surgery, *Grand Rounds*, Department of Cardiac Surgery, University of Tokyo, Tokyo, Japan, June 12, 2006.
63. Making Healthcare Safer, *Visiting Professor and Grand Rounds*, University of South Florida, Tampa, FL, May 19, 2006.
64. Assessing the Reliability of Healthcare, *Visiting Professor and Grand Rounds*, Vancouver, University of British Columbia, Canada, March 29, 2006.
65. Team Training and Simulation, *Grand Rounds and Visiting Professor*, University of Illinois, Chicago, Feb 22, 2006.
66. Reliability of Health Care-Can we do Better? *Visiting Professor and Grand Rounds*, Department of Anesthesia, Cleveland Clinic, Cleveland, OH, December 28, 2005.
67. Five Years Later: Are Patients Safer? *Visiting professor, Grand Rounds*, Department of Anesthesiology, Mount Sinai Medical Center, NY, October 19, 2005.
68. Role of Human Factors and Teams in Cardiac Surgery, *Visiting Lecturer*, Institute for Healthcare Studies Seminar Series, Northwestern University Medical School, Chicago, IL, Sept 29, 2005.
69. Role of Human Factors in Advancing Cardiac Surgery. *Visiting Professor*, Nagoya University School of Medicine, Nagoya, Japan, Sept 12, 2005.
70. How Reliable is Health Care? *Grand Rounds and Visiting Professor*, Department of Anesthesiology, Duke University, August 3, 2005.
71. The Role of Human Factors and Team Work in Pediatric Cardiac Surgery, *Cardiology/Pediatrics Grand Rounds*, Duke Medical Center, Aug 2, 2005.
72. Lessons Learned in Patient Safety, *Grand Rounds and Visiting Professor*, Department of Anesthesiology, UCSF Medical Center, San Francisco June 1, 2005
73. Advances in Patient Safety, *Visiting Professor and Grand Rounds*, Department of Anesthesiology, University College London, London, UK, April 14, 2005.
74. Introduction to Patient Safety: An Overview, *Grand Rounds*, University of Miami School of Medicine, Department of Anesthesiology, Miami, FL, March 24, 2005.
75. Wrong-sided, Wrong patient, Wrong procedure: Are they preventable?, *Grand Rounds*, University of Miami School of Medicine, Department of Orthopedics and Rehabilitation, Miami, FL, May 27, 2004.
76. Advancing Pediatric Patient Safety at UM: Opportunities and Challenges, *Grand Rounds*, University of Miami School of Medicine, Department of Pediatrics, Miami, FL, May 18, 2004.
77. Patient Safety in Acute Care, *Visiting Professor and Hospital Ground Rounds*, Nagoya Hospital, Japan,

March 22, 2004.

78. Lessons learned from Patient Safety Reporting Systems, *Visiting Professor* and Grand Rounds, Sendai Medical Center and University of Sendai, Sendai, Japan, March 18, 2004.
79. Integrating Healthcare Systems to advance Patient Safety, *Grand Rounds* Department of Neurology, University of Miami, Miami, FL, October 31, 2003.
80. Lessons in Design of High Reliability Organizations, *Visiting Professor* and *Grand Rounds*, Geelong Hospital, Geelong, Australia, September 1, 2003.
81. Patient Safety Challenges, *Visiting Professor and Grand Rounds*, Haukeland University Hospital, Bergen, Norway, May 13, 2003.
82. Training and Learning in Health Care, Workshop and *Visiting Professor*, Department of Public Health and Epidemiology, University of Birmingham, England, February 4, 2003.
83. Why do organizations ignore patient safety and quality improvement science? *Visiting Professor*, Technion Institute of Technology, Haifa, Israel, January 7, 2003.
84. Lessons Learned from the Patient Safety Movement, Grand Rounds, *Visiting Professor*, University of Miami, Miami, FL, August 15, 2002.
85. Patient Safety: Are We Making Progress, Grand Rounds and *Visiting Professor*, Department of Anesthesia, University of Pittsburgh, June 13, 2002.
86. Lessons learned from the patient safety movement: The end of the beginning? *Visiting Professor*, The Department of Psychiatry and Surgery Grand Rounds, Syracuse Medical Center, SUNY, NY, April 3, 2002.
87. The value of collecting near misses, *Grand Rounds* presentation, Department of Anesthesia, University of Chicago, February 13, 2002.
88. Patient Safety in Anesthesia: New Developments, *Visiting Professor* and *Grand Rounds*, Department of Anesthesia Tel Hashomer Hospital, Tel Aviv, Israel, November 15, 2001.
89. Patient Safety: The New Frontier, *Visiting Professor and Grand Rounds*, St. John Regional Hospital, New Brunswick, Canada, May 29, 2001.
90. Patient Safety: New Perspectives, *Trinity Medical Center Grand Rounds*, Rock Island, IL, May 8, 2001.
91. Overview of Incident Reporting Systems, *Grand Rounds*, Children's Hospital, Minneapolis, MN, April 18, 2011.
92. The role of safety in quality improvement, *Visiting Professor* and *Grand Rounds*, University of Amsterdam, Holland, April 13, 2001.

93. International perspectives on patient safety, *Visiting Professor*, Eindhoven University, Holland, April 12, 2001.
94. Is patient safety a public health problem? *Visiting Professor*, School of Public Health and Policy, University of North Carolina, April 2, 2001
95. How to improve patient safety? Grand Rounds, *Visiting Professor*, Royal Adelaide Hospital, Adelaide, Australia, November 27, 2000.
96. International perspectives on improving the care of patients, *Grand Rounds, Visiting Professor*, Rogaland Hospital, Stavanger, Norway, November 3, 2000.
97. New tools in Safety, *Visiting Professor* and Grand Rounds, Rigs Hospital, University of Copenhagen, Denmark, November 2, 2000.

I. INVITED ADDRESSES/KEYNOTE LECTURES, PLENARY/EPONYMOUS PRESENTATIONS

2020

1. Learn How Best to Go Back to Work Safely, Protect Healthcare Providers and Assess The Environmental Risks, Keynote, Annual conference, Hospital das Clínicas, Faculdade de Medicina, Universidade de São Paulo, Anestesiologia USP, Brazil, September 7, 2020.
2. What Surgeons Can do to Prevent Burnout and Dropout in the Age of COVID? The 50th Annual Meeting of JSCVS, Keynote, Fukushima, Japan, August 28, 2020.
3. Lessons for Opportunistic Transformation. Jefferon, Philadelphia, PA, August 11, 2020.
4. Population Health, Getting Back to Work and Protecting Healthcare Providers – Insights from COVID-19, First, Sechenov University, Moscow, Russia, July 13, 2020.
5. Critical factors essential for understanding and enhancing the learning capabilities of organizations. The 3rd Pan-Pacific Technology-Enhanced Language Learning & Critical Thinking Meeting, Denton, Tx, June 29, 2020
6. What Clinicians and Administrators Need to Know about COVID, Tanzania, Webinar, May 6, 2020.
7. BEYOND ISOLATION: RETURNING TO AN UNDISTANCED WORKPLACE DURING COVID-19, Webinar, University of Maryland, May 6, 2020.
8. Leadership Through Crisis: Global and Local Perspective, Institute for Leadership Excellence, Pakistan, May 5, 2020.
9. The Impact of Leadership and Patient Safety to Manage Coronavirus Crisis in Healthcare, Webinar, The Academy of Leadership Sciences Switzerland, May 1, 2020.
10. Lessons Learned on The Role of Resilient Leadership in Responding to COVID, Ben Gurion University, Webinar, Israel, April 26, 2020.
11. Coronavirus Disease 2019 (COVID-19) Update—What Anesthesiologists, Intensive Care Clinicians and Administrators Need to Know, Mexican Society of Anesthesia, Webinar, April 20.
12. CORONAVIRUS DISEASE 2019 (COVID-19) Update What Clinicians, Administrators & Policy Makers need to Know, Pakistan, Webinar, April 16, 2020.
13. Leading Quality, Safety, Human Factors For Clinician Engagement and High Reliability, Keynote, CIAM Annual Conference, Guadalajara, Mexico, Feb 27, 2020.
14. Patient safety Workshop, Department of Anesthesia, Guadalajara--Civil Hospital Dr Maria de Jesus, Feb 25, Guadalajara, Mexico.
15. Challenges and Opportunities in Measuring and Improving Surgical Safety, Monument Health, Rapid City Hospital, Rapid City, South Dakota, February 13, 2020.

16. Optimising safety, communications, and teamwork in and around the OR, Arab Health, Dubai, Jan 27, 2020
17. Designing A Safe Sedation Service-Adopting a New Culture, Arab Health, Dubai, Jan 27, 2020
18. Addressing medication harm head on: Best medication safety practices, Arab Health, Dubai, Jan 29, 2020
19. Towards a learning system for Enhanced Recovery After Surgery (ERAS): Embedding Implementation and Learning Evaluation, Arab Health, Dubai, Jan 29, 2020

2019

1. Enhanced Recovery After Surgery, Keynote, Patient Safety Conference, Khobar, Saudi Arabia, Nov 28, 2019.
2. Evidence based healthcare policy, Keynote, European Commission, Brussels, Belgium, Nov 8, 2019.
3. My Last Lecture, Mexico Society of Anesthesia, Annual Meeting, Keynote, Tijuana, Mexico, Oct 16, 2019.
4. Training and practical tools to improve crisis management, flow, and joy, in the cardiovascular operating room, Japan Society of Cardiovascular Anesthesia Annual Keynote, Kyoto, Japan, Sept 20, 2019.
5. Clinical Leadership Training Program, Zurich, Switzerland, August 30-31.
6. AI-Human Interaction, Center Computer Assisted Surgery (ICCAS), U niversity Leipzig, 5th Digital Operating Room Summer School (DORS). Leipzig, German, August 29, 2019.
7. Appreciate the role of Human Factors, Communication, and Teamwork in (and around) Disasters. Society for Disaster Medicine and Public Health Annual Forum, Washington, DC, August 23.
8. How Does an Academic Medical Center Become a High Reliability Learning Organization? Stavanger University Hospital, Stavanger, Norway. June 14.
5. The Key Role of Anesthesia Leadership in the Journey to High-Reliability Perioperative Outcomes Japan Society of Anesthesia, Kobe, Japan, May 30.
6. Towards a Learning System for Optimal Outcomes: Safety, Implementation and Quality Improvement Strategies, Japan University Hospital Patient Safety Conference, May 29, 2019
7. Patient Centered Medical Records and Safety, Bangor, Wales, May 23.
8. The Second Victim, Responders as Patients, Organizational Resilience and Trust, World Congress on Disaster Medicine, Brisbane, Queensland, Australia, May 9.
9. Evaluating Complex Interventions. Sick Kids Hospital, University of Toronto, Canada, April 5.
10. Building capacity for Public Health 3.0: introducing implementation, Italian Agency for Public Health, Rome,

Italy, April 1.

11. Designing Hospitals of the future, Polytechnical University, Milan, Italy, March 29.

2018

1. "When the doctor gets cancer – the challenges of meaningful co-production and shared decision making in enabling quality outcomes", Southern Denmark University, Vejle Hospital, Denmark, Nov 30, 2018.
2. How can Norwegian Board Accelerate the Adoption of Learning to better Improve Patient Outcomes in Norway?, UKOM, Stavanger, Norway, Nov 28, 2018.
3. How to Accelerate the Adoption of Simulation-based Learning to better Improve Patient Outcomes? Laerdal Corporation, Stavanger, Norway Nov 27, 2018.
4. A view from a far, what patients experience, European Society of Anesthesia, Copenhagen, Denmark, June 2, 2018.
5. Analyzing adverse events in the ICU, Keynote, 15th Annual Critical Care Symposium, Manchester, UK, April 28, 2018.
6. Future of patient safety training, WHO 3rd Health Ministerial Summit, Tokyo, April 13-14, 2018.
7. Approaches to Patient Safety and Systems Reliability, keynote, Japan Quality Council, Tokyo, Japan, April 12, 2018.
8. Patient safety and surgical innovation, Korean Society of Anesthesia, Seoul, March 23-24, 2018.
9. Human Factors in Patient Safety, Hong Kong, Patient Safety Awareness Week, Keynote, and guest of honor, Hong Kong, China, March 19-22, 2018.
10. Designing highly reliable training, Keynote Address, Ottawa Medical Education Conference, Abu Dhabi, March 12, 2018.
11. Invited plenary speaker, Leadership retreat for Memorial Herman Health System, Feb 16-17, 2018, Houston, USA.
12. Clinical Leadership ICU Workshop, Co-Chair, January 15-17, 2018, Brussels, Belgium.

2017

13. Invited Speaker, Cancer Care Redesign, Institute for Healthcare Improvement Annual meeting, Dec 13, Orlando
14. Plenary keynote speaker, Value as the new frontier, 2nd International Conference on Patient Safety Oct 29,

2017, Karachi, Pakistan.

15. Leading to Zero: The Key Role of Leadership in the Journey to High Reliability, Becker's Health IT + Revenue Cycle Conference, September 23, 2017, Chicago, USA.
16. Keynote, Korean Society of Surgical Oncology, Seoul National University, Seoul, South Korea, Sept 15
17. National Leadership for Patient Safety, Quality Improvement & World Class Hospital Design, Korean Parliament under National Medical Center Symposium, Seoul, Korea, Sept 12, 2017.
18. Plenary Speaker, Health Management Asia, Manila, Philippines, August 23-24, 2017.
19. Keynote Speaker, International Academy of Healthcare Design, Vienna, Austria, July 12-16, 2017
20. Keynote speaker and moderator, E-COMPARED, European Union, funded Final meeting, Berne, Switzerland, June 15-16, 2017.
21. Keynote speaker, Leadership retreat for Sugarland Hospital, Memorial Herman Health System, Austin, USA. June 2- 3, 2017.
22. Plenary speaker, 4th International Conference on Cardiomyopathy in Children, Bethesda, MD, May 18-19.
23. Keynote speaker, 119th Japanese Society of Surgery Annual meeting, April 27, Yokohama, Japan.
24. Keynote speaker, Gunma University Hospital, Patient Safety Workshop, Gunma University, Japan, April 23.
25. Plenary Speaker, Japanese Society of Vascular Surgeons, Hiroshima, Japan, April 19.
26. Invited Speaker, Kyoto University Hospital, Kyoto, Japan, April 12
27. Invited speaker, E Health Information, Safety and Reliability, Amman, Jordan, March 18.
28. Co-chair and plenary speaker, Public Health Research Day, European Commission, Brussels, Belgium, Feb 17.
29. Keynote Speaker, International Conference on Patient Safety, Air University, Islamabad, Pakistan, Feb 6-7.
30. Keynote speaker, First International Patient Safety Conference, Shalamar Medical and Dental College, February 3-5, Lahore, Pakistan.
31. Co-chair and lead speaker, Leadership in ICU Mastercourse, Brussels, Jan 17-18.

2016

1. Plenary Speaker, Co-Production of Reliable Patient Outcomes, Health care Reform and Innovation in Perioperative

- Musculoskeletal Care, Detroit Medical Center, Wayne State School of Medicine, Dec 15, Detroit, MI
2. Keynote speaker, Designing and Running Hospitals Using High Reliability Robust Processes. Oct 27- 28, Abuja, Nigeria.
 3. Speaker, Redesigning Hospital Alarms for Patient Safety: Alarmed and Potentially Dangerous, Florida ACHA Annual Conference, Orlando, FL, Oct 17-19.
 4. Plenary Speaker, First International Summit on Preventive, Personalized and Translational Medicine, Sept 26-28, Moscow, Russia.
 5. Invited Plenary Speaker, How to improve safety during care transitions? Health Management Asia, Ho Chi Minh City, Vietnam, Sept 6-8.
 6. Invited plenary lecture, International Conference on Information and Digital Technologies 2016, Rzeszów, Poland, July 5-7.
 7. Invited, Plenary speaker, The Health Care Evolution: Improving Quality, Safety & Efficiency of Cardiac care. Barcelona, Spain, May 28-30.
 8. Invited Keynote Speaker, International Conference on patient Safety, Islamabad, Pakistan, May 7-8.
 9. Dinner plenary speaker, Critical Care Symposium, Manchester, United Kingdom, April 27-28.
 10. Plenary speaker, Health Catalyst Accelerate Practice Program, Salt Lake City, UT, March 31.

2015

1. Plenary Speaker, HCAC Annual Conference, Amman, Jordan, Nov 24, Amman, Jordan.
2. Invited Keynote, Going Beyond Theory to Practice, National Summit on Healthcare, IIDEX Canada, Toronto, Canada, Dec 2.
3. Plenary speaker, Challenges in Digital Design, Canadian Centre for Healthcare Facilities, Humber River Hospital, Toronto, Canada, Dec 3.
4. Moderator and speaker, Improving the Reliability of Health Care, American Society of Health Risk Managers, Oct 21, Indianapolis, IN.
5. Speaker, 68th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery, Oct 17-20, Kobe, Japan.
6. Keynote Speaker, Middle East Patient Safety Conference, Oct 4-6, Dubai, UAE.
7. Plenary Speaker, Hospital Management Asia 2015, September 3 & 4, 2015, Yangon, Myanmar.
8. Visiting Scholar and speaker, Clinical Guidelines Forum, June 26-July 4, Athens, Greece.
9. Transitions of Care Special National Meeting Keynote, June 15-16, Hong Kong Health Authority, Hong Kong
10. The Behavioral impacts and spatial dynamics of alarm fatigue in healthcare, Plenary, Noise and Health,

Special Session in Honor of Karl Kryter, Acoustical Society of America, May 19, 2015, Pittsburgh.

11. Plenary Speaker, Asian Society for Cardiovascular and Thoracic Surgery. May 11-14, 2015. Hong Kong.
12. Plenary talk, American College of Healthcare Engineering, March 15, San Antonio, Texas.
13. Plenary Speaker, The Role of NHI in creating Safe and High Quality Outcomes for Bahamians? Medical Association of the Bahamas, 43rd Annual Conference, March 5, Nassau, Bahamas,
14. Keynote Speaker, Designing the Hospitals of the future, healthcare Design SES, Houston, Feb 19, Houston, Texas.
15. Keynote speaker, The Hospital as a Healing Environment: The Role of the Evidence, Medical Design Forum 2015, Seattle, Feb 12-13, Seattle, WA.

2014

1. Plenary speaker, Create alignment and drive clinician and staff engagement for continuous quality improvement, BJC Clinic, Beijing, China, Nov 14th.
2. Keynote speaker, Implementation Science and its application to Built Environment, Singapore, Nov 11.
3. Cardiothoracic Grand Rounds, Designing Reliable Surgical Teams, Gronigen University Medical Center, Gronigen, Netherlands, Sept 26.
4. Keynote Speaker, Crossroads of Healthcare Design, Amsterdam, NL, Sept 25.
5. Keynote Speaker (invited), Physician engagement and the dangers of disengagement on costs, quality and patient care, 4th MiddleEast Patient Safety Conference, Dubai, UAE, Sept 16-18.
6. Plenary speaker, Assessing and Improving Cardiac Surgical Team Performance and Reliability, The Tenth Annual Meeting of The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Emory, Atlanta, Sept 5.
7. Plenary Speaker, How to Design Highly Reliable and Safe Care Systems, Hospital Management Asia, 2014 meeting, Cebu, Philippines, August 26-28.
8. Plenary speaker, Accelerate the co-production of health and health care with patients, families, communities and...architects, and designers. American Institute for Healthcare Architects Conference, Chicago, July 24-25.
9. Keynote Speaker, On the way from quantity to quality in congenital heart surgery, Russian Association of Pediatric Cardiology Annual Conference, Moscow, June 12.
10. Plenary Speaker, Alarm Fatigue and it's impact, International ICBEN 2014, Nara, Japan, June 4.
11. Keynote speaker, Building an Integrated Approach for Assessing and Improving Rapid Response Teams.

Tenth Annual International Conference on Rapid Response Teams, Miami, Fl, May 12.

2013

1. Keynote Speaker, Defining Characteristics of Tomorrow's Healthcare Facilities, Healing Environments Seminar, Phillips, Eindhoven, Netherlands Nov 5. See http://www.youtube.com/watch?v=eKF9pMtcu6o&list=PLUkApVTR3S-7-BigT1FepoSK1HPKQqS_e
2. Plenary Speaker, Innovation in Hospital Procurement, HI-TEC 2013 2nd annual meeting, Singapore, October 30.
3. Keynote Speaker, The Health Care Revolution: Improving Quality, Safety & Efficiency of Cardiothoracic Teams Cardiovascular-Thoracic (CVT) Critical Care 2013. DC, October 11.
4. Keynote Speaker, Implementation Science in Patient Safety, Chania, Crete, Greece, Sept 29.
5. Plenary Speaker, "Healthcare can learn nothing from Aviation!" Australian College of Health Managers, Annual Conference, Canberra, August 29.
6. Plenary speaker and co-chair of preconference meeting on Healthcare Innovation, International Academy Design World Congress, Brisbane, Australia, July 10-14.
7. Dinner speaker, Clinical Sense-making: A Systematic Approach to Engaging the CCM community in Quality and Safety, 10th Annual Critical Care Symposium, Manchester, UK, April 25.
8. Plenary Speaker, Role of Human Factors and Reliability Science in Preventing Adverse Events in the ICU, 10th Annual Critical Care Symposium, Manchester, UK, April 25.
9. Keynote speaker, HSMRs and other numbers about quality: what all boards need to understand post--Francis, Chandos House, London, April 16.
10. Keynote Speaker, Australian College of healthcare Executives Annual Meeting, Melbourne, Victoria, March 14.
11. Keynote speaker, Australian College of Healthcare Executives, Breakfast, Feb 14, Melbourne, Australia.

2012

1. Keynote speaker, HCAC Second Quality Health Care Conference & Exhibition 2012 Amman, Jordan, Nov 20.
2. Keynote speaker, NSW Leadership, Safety and Quality overview, Parliament House, NSW, Nov 14.
3. Keynote speaker, Greece National Patient Safety Conference, Thessaloniki, Greece, November 11.

4. Keynote speaker, Singapore Annual Conference on Safety and Quality, Singapore, Nov 7-9, 2012.
5. Plenary speaker, Hospital Design and Impact Conference, Haifa, Israel, October 11, 2012.
6. Plenary speaker, Australian College for Infection Prevention and Control, Sydney, October 10, 2012, via pre-recorded presentation. <http://vimeo.com/49957880> (MRSA)
7. Keynote speaker, Patient Safety Conference, Brussels, Belgium, October 10, 2012.
8. Keynote speaker, Dutch Risk Management Annual Symposium, Ede, Netherlands, October 9, 2012.
9. Keynote Speaker, Mater Hospital Annual Conference, Brisbane, Australia, Sept 21.
10. Keynote speaker, Comcare 2012 Injury Annual Conference, Sydney, Australia, Sept 20.
11. Keynote, Getting to highly reliable trauma teams, Trauma Network Conference, Nottingham, UK, Sept 14, via videolink.
12. Keynote, Learning from patients and their stories: a journey towards higher reliability, Australian College of Healthcare Management, Hobart, Tasmania, Sept 6.
13. Keynote, Learning From Our Patients: stories and actions, Australian College of Health Management, Annual Conference, Gold Coast, Queensland, August 20.
14. Plenary speaker and panel member, Digital Hospital Design, HIC Conference, Sydney, August 1.
15. Keynote, Balancing the Triple Aim Towards Higher Reliability, South Australia, College of Health Management, Annual Conference, Adelaide, South Australia, July 13.
16. Keynote, Patient Safety: knowing and managing the human factors related to adverse events International Conference on Patient Safety, Albert Einstein Hospital, Sao Paulo, Brazil, June 29.
17. Dinner Keynote, Human Factors, Team Performance, Safety and Quality in Health Care, European Society of Congenital Surgeons Meeting, Tromso, Norway, June 8.

2011

1. Keynote Speaker, Infection Control Practitioner's Association of Queensland (ICPAQ) Biannual Conference, Brisbane, Queensland, Australia, October 14.
2. Keynote speaker, Quality Convention Lecture at Khoo Teck Puat Hospital, Singapore, October 12.
3. Invited Keynote speaker, Ministry Healthcare Quality Improvement Conference, Singapore, October 10-11.
4. Chair and speaker, European Union Handover Research Collaborative, Florence, Italy, Sept 23, 2011.

5. Invited speaker, Updates on Handover, International Society of Quality, Hong Kong, Sept 14-17.
6. Plenary keynote and moderator, European Union, Polish Presidency Medical Education meeting, Krakov, Poland, Sept 9.
7. Keynote speaker, Patient Safety and Team Performance, 59th Annual Meeting of the Cardiac Society of Australia and New Zealand, Perth, Australia, August 12.
8. Chair Session and speaker, International Academy Design, Melbourne, Australia, May 3.
9. Invited keynote speaker, Dutch Inspectorate Patient Safety Program, Amsterdam, April 7.
10. Invited Chair of Session, World Congress on Intravenous Anesthesia, Singapore, April, 1-2.
11. Invited Keynote speaker, Designing the hospital to reduce harm, improve sustainability, Patient-Centred Design Forum, 28 March, Sydney, Australia.

2010

1. Plenary Speaker, Pediatric Intensive Care International Conference, Risky Business, Miami, Dec 8.
2. Keynote Speaker, Australia Women and Children's Annual conference, Melbourne, Nov 9.
3. Invited Keynote speaker, Australia SeaCare, Seafarers Safety and Rehabilitation Authority, Annual Conference, Melbourne, Oct 28.
4. Invited Session Chair and speaker, Update on Patient Handovers, International Society of Quality (ISQA), Paris, France, October 13.
5. Keynote Speaker (by video), 13th Annual Healthcare Facilities Planning and Design Summit, September 29, Sydney.
6. Invited Keynote speaker, International Nursing Patient Safety Congress, Rio de Janeiro (by video), Brazil, Sept 23.
7. Invited keynote speaker, Pediatric Sedation Outside of the Operating Room Conference, San Francisco, California, September 11-12.
8. Keynote Speaker, Design of the Hospital of the Future, Health Informatics Society of Australia (HISA) annual conference, Melbourne, August 23.
9. Plenary Speaker, Harvard Quality Colloquium, Cambridge, MA, August 17.
10. Invited keynote speaker, IV Memorial A. Puigvert Foundation, Barcelona, Spain, May 17.
11. Invited Keynote speaker and session chair, Design & Health Australasia 2010, Sydney, April 30.

12. Plenary speaker, ICU of the Future, Japanese Critical Care Society Meeting, Hiroshima, Japan, March 4.
13. Invited Keynote Speaker, Jun Takezawa Memorial Meeting, Asia Pacific Association of Respiratory Care, Tokyo, Japan, Feb 27-28.

2009

1. Invited workshop: Hospital Design: Reduce Harm, Improve Sustainability full day workshop, Institute for Health Improvement Annual Meeting, Orlando, Florida, December 7.
2. Invited Keynote Speaker, Vision Zero—A view to the future of just compensation of Injury, Institute of Actuaries of Australia (IAAust), Melbourne, Australia, November 24.
3. Invited Keynote Speaker, Preventing Child Harm, Women & Children's Hospitals, Australasia 2009 Annual Conference, Brisbane, Australia, November 12 (via video).
4. Invited Keynote Speaker, Society of Health Professionals, San Francisco, CA, October 15.
5. Invited workshop speaker and session chair, International Society of Quality (ISQA), Dublin, Ireland, October 12.
6. Invited opening Keynote Speaker, Building a bridge between Designers and Clinicians, Health Facilities Planning and Design Summit, Sydney, Australia, Sept 22.
7. Invited Keynote Speaker, Team performance and quality of anesthesia, Federation of European Associations of Pediatric Anesthesia (FEAPA), Warsaw, Poland, Sept 12.
8. Invited Speaker, The Role of Design in Intensive Care Units, World Congress of Critical Care, Florence, Italy, September 1.
9. Keynote speaker, National Quality Colloquium at Harvard University, Cambridge, Massachusetts, August 18-21.
10. Keynote speaker, The Role of Human Factors in Patient Care, The Society Neuromuscular Sciences, Thirty Fifth Annual meeting, Thredbo, NSW, Australia, August 10.
11. Keynote Speaker, Vision Zero: Safe people, safe processes, safe buildings. Australia College of Health Care Executives (ACHSE) 2009 National Congress, Gold Coast, Queensland, August 6.
12. Invited plenary speaker and closing session moderator, Risky Business Patient Safety Workshop – World Congress in Pediatric Cardiology and Cardiac Surgery – Cairns, Australia, June 22.
13. Invited Keynote, Assessing the Risk and Resiliency of Health Care Teams, Human Factors in Healthcare Symposium, Crowne Plaza, Darling Harbour, Sydney, March 4.
14. Invited Keynote, Risk and Safety: How do we prevent bad events from occurring? Risk Management

Workshop, Sydney Board Convention Center, Feb 23, 2009.

15. Invited keynote and moderator, NHS Patient Safety Research Program meeting, Royal College of Physicians, London, UK, Feb 12.

2008

1. Invited speaker and Session Chair, International Society of Quality (ISQuA), Copenhagen, Denmark, Oct 22.
2. Keynote Speaker, University of Colorado Dean's Retreat, Team Training and Evaluation, University of Colorado Health Sciences, Denver, Colorado, June 27.
3. Chair (co-chair with Kerm Hendrickson) Session, Health care Design, Healthcare Systems, Ergonomics and Patient Safety, 2008, HEPS, Strassbourg, France, June 25.
4. Keynote Speaker, Making the difference, The Role of Human Factors in Patient Safety, Dutch Hospital Association and Board of Medical Specialties, Utrecht, Netherland, June 16
5. Keynote Speaker, Barriers to Making Anesthesia Safe? Can we do better? Honorary Guest, St. Gallen Annual Anesthesia Symposium, St Gallen, Switzerland, June 9.
6. Keynote Speaker, Simulation and Patient Safety Making, Bilthoven METS Simulation Center Opening, Bilthoven, Netherlands, June 4.
7. Keynote Speaker, The Role of Anesthesiology in Patient Safety, Dutch Anesthesia Association Annual Meeting, Maastricht, Netherlands, June 16.
8. Keynote Address, The Role of Human Factors in Patient Safety, Dutch Hospital Association and Board of Medical Specialties, Utrecht, Netherlands, June 16.
9. Keynote Speaker, HESCUALEP European Union, CBRN Expert meeting on the Prehospital Setting, Rotterdam, Netherlands, April 9.
10. Moderator and plenary speaker, Evaluation of the ICT program, NHS, Royal College of Physicians, London, UK, March 20.
11. Keynote Speaker, Designing Safety Hospital of the Future, Malmo, Sweden, March 11.
12. Plenary Simulation Theatre, World Congress of Anesthesia, Cape Town, South Africa, March 7.
13. Keynote Speaker, Enhancing Safety in the Home, Community and Long Term Care Edmonton, Canada, Feb 24.
14. Keynote Speaker, Technology, Human Factors and the future of healthcare. Medicine Meets Virtual Reality (MMVR), Long Beach, CA, Feb 1.

15. Keynote Speaker, Crisis and Disaster Management and Public Health Conference, Rotterdam, Netherlands, February 1st (via Video).

2007

18. Keynote Speaker, National Patient Safety Conference on Operating Room Safety, Rome, Italy, December 15.

19. Keynote Speaker, Dutch National Quality Association (with Ian Lesstikow), Utrecht, Netherlands, November 29.

20. Designing Safe Clinical systems. Keynote presentation, Medirisk Annual Symposium, November 23, Utrecht, Netherlands.

21. Keynote Speaker, European Union Medical Specialists, Section and Board of Anesthesiology, Istanbul, Turkey, November 17.

22. Invited Keynote Speaker Strategies to Reduce Patient Safety from TIVA, First World Congress in Total Intravenous Anesthesia, Venice, Italy, September 27.

23. Optimizing Human Computer Interaction (HCI) in Anesthesia Care, Plenary, 1st World Congress of Total Intravenous Anesthesia, Venice, Italy, Sept 28.

24. Evidence based design and patient safety, *Keynote address*, Fort Belvoir Community Hospital Visioning Workshop, Virginia, June 8.

25. The Impact of the Built Environment, *Keynote Presentation*, Health Guidelines Revision, Committee, Functional Guidelines Institute, American Institute of Architecture, Baltimore, April 19.

26. Invited, Annual Review Course on Patient Safety, International Anesthesia, Research (IARS) Annual Meeting, Orlando, Fl, March 25.

27. Invited Keynote Address, Healthcare Information Technology, Freeband Learning Conference, Utrecht Medical Center, Netherlands, February 22.

2006

28. Keynote Address, American Institute of Architects Academy of Architecture for Health Annual Meeting, Miami, Fl, October 20.

29. Keynote Address, Florida Health Care Coalition's Annual meeting. Davie, Fl, October 11.

30. Patient Safety Policy and Impact, *Keynote speaker*, Tokyo Hospital Association, Tokyo, Japan, Sept 16.

31. Keynote Address, Can We do Better? Florida Chiropractic Association National Convention, Kissimmee, Fl, August 25.
32. Keynote Speaker, American Society of Healthcare Quality Annual Meeting, Millwaukee, WI, May 1.
33. Keynote Presentation, Hospitals as Transforming Agents, *Pebble Project Meeting*, The Center for Health Design. (The Pebble Project is a national evidence-based design initiative involving hospitals), Milwaukee, April 21.
34. Keynote Address, Role of Design and Architecture in Patient Safety, American Society for HealthCare Engineering, Feb. 27th, San Diego, California
35. Keynote Speaker, Florida Patient Safety Network: A State Protecting its Most Valuable Assets, , Business Health Coalition, St. Louis, MO, Feb 11.
36. Keynote address, The Role of Design in Transforming the 21st Century Hospital: A Summit to Develop the Research Roadmap, Atlanta, GA, Feb 8.

2005

37. Keynote Address, Role of Clinical Competency in Reducing Medical Error, Italian Society of Risk Management, Rome, Italy, Dec 17.
38. Keynote Speaker, Joint Commission's 19th Annual National Conference on Quality and Safety, Chicago, IL, Nov 10.
39. Invited National Refresher Course, Preparedness for Weapons of Mass Destruction Disasters, American Society of Anesthesia Annual Meeting, Atlanta, GA, October 24.
40. Keynote presentation, Barriers to Advancing Patient Safety., to Department of Defense Strategic Planning on Patient Safety meeting, Alexandria, VA, October 11-12.
41. Keynote Address, Safety Across high-Consequences Industries Conference, Sept 21th, St Louis, MO.
42. Keynote Speaker, 13th Asia Pacific Association of Respiratory Care, Sept 11. Yokohama, Japan.
43. Keynote Address, Patient Safety Curriculum, American College of Surgeons-ACGME Joint Conference, ACS, Chicago, IL, May 2.
44. Keynote Opening Address: Opportunities in Learning, Opening of the Learning Institute: Florida State University, Tallahassee, FL, April 24.
45. Keynote address, Wrong Sided Procedures-Can they be prevented?. HealthCare Systems Ergonomics and Patient Safety. Florence, Italy, March 29-31.

2004

46. Keynote Address, *Beck Symposium*, University of Connecticut, Nov 9.
47. Lessons Learned from Patient Safety, Plenary address, Royal College of Physicians of London, London: Making Health Care Safer 2004, October 22.
48. A Review of Clinical Experience and Medical Incident Reporting Systems, Keynote presentation, French Society of Anesthesiology and Emergency Medicine (SFAR), Paris, France, October 19.
49. Role of Safety Culture in Training, *Plenary speaker*, American Osteopathic Association, Fifteenth Annual Osteopathic Medical Education Leadership Conference, Chicago, IL, October 2.
50. Keynote Address, 1st Summit on Patient Safety, Palm Beach Medical Society, Palm Beach, FL, May 20.
51. Keynote Address, What we have learned from the Patient Safety movement? Biennial Health Policy Dinner, Health Council of South Florida, Miami, FL, May 18
52. Team Training and Simulation-Lessons to be learned, Keynote Address, National Demonstration Project, Tokyo, Japan, March 21.
53. Keynote Address, Lessons from Near Miss Reporting: The Holy Grail of Safety. University of Toronto Patient Safety Research Symposium, Toronto, Canada, February 11.

2003

54. Keynote Address, Herbert Nickens Memorial Lecture, Innovations Health Care, and Quality Award Recipient, American Association of Medical Colleges, Washington, DC, November 9.
55. Recent Advances in Patient Safety, Keynote (by phone), West Midlands Regional Core Training Program for Pediatric Specialist Registrars day on Patient Safety and Professionalism. Birmingham, England, September 17.
56. New Approaches to Patient Liability, Invited Keynote Address, 1st International Conference on Patient Safety and the Law, Auckland, New Zealand, Sept 2.
57. Attitudes of Medical Students and Residents towards Patient Safety, Invited Plenary, Council of Academic Deans, Association of American Medical Colleges (AAMC) Spring retreat, Napa, CA, April 14.
58. The Role of Effective Reporting Systems, Plenary Invited address. Patient Safety Symposium, Toronto, March 28.
59. Patient Safety Reporting Data Systems, Institute of Medicine, Committee on Patient Safety Reporting Systems, Beckman Center, Irvine, CA-Jan www.iom.edu/IOM/IOMHome.nsf/Pages/PSDS+Meeting+Four

2002

60. The Role of External Regulators in Healthcare, Invited Plenary Address, Beyond Bristol: Improving Health care in London, UK, November 18.
61. Patient Safety: What have we learned? Plenary address, American Academy of Orthopedic Surgeons Fall Meeting, Kansas City, October 12.
62. International perspectives on patient safety, UK National Patient Safety Agency Conference, (via videoconference) London, June 18.
63. Plenary, Lessons from the patient safety movement: The end of the beginning? Utstein Symposium on Patient Safety, Simulation and Medical Education in Trauma and Critical Care, Stavanger, Norway, May 21-23.
64. *Weber Invited Lecture*, The end of the beginning? Lessons learned from the patient safety movement, University of Toronto, April 11.

2001

65. Keynote Speaker, Lessons learned from the United States, National Patient Safety Agency meeting, London, England, October 10.

1999

66. Keynote Address, International perspectives on patient safety, Danish Patient Safety Foundation, Copenhagen, November 1.
67. The role of the state in Patient Safety? Massachusetts Health Forum, Heller School of Policy, Boston, MA, September 28.
68. Incident Reporting: What works and how to make it work, Patient Safety Forum, *Keynote Address*, Hebrew University Medical School and Hadassah Hospital, Jerusalem, September 20.

Editorial Activities

SCIENTIFIC PEER REVIEW JOURNAL EDITORIAL LEADERSHIP

Ad Hoc Journal Reviewer (invited and/or completed)

- ***Associate Editor**, *Proceedings Pediatric Cardiology*, 2015-
- * **Editorial Board** Member, *American Journal of Quality*, 2016-
- ***Editorial Board**, *Journal of the Royal Society of Medicine*, 2013-
- ***Editor**, *Quality and Safety in Healthcare*, 2001-2004
- ***Guest Editor**, *Annals of Internal Medicine*, 2003-2005
- ***Editorial Board**, *Health Environments Research and Design*, 2007-2008 *founding member*
- ***Editorial Board**, *Modeling and Simulations for Learning and Instruction* 2005-2010
- ***Editorial Board**, *Quality and Safety in Healthcare*, 2001-2008
- ***Editor**, section Medicine & Healthcare, *Simulation and Gaming*, 2001-2009
- Member, Committee on Publications, Massachusetts Medical Society 1998-2000
- ***Editorial Board**, *Hospital Physician*, 1999-2001
- ***Guest Editor**, *International Anesthesiology Clinics*, Winter 1999
- Associate Editor, American Society of Critical Care Anesthesiology Newsletter, 1999-2003
- ***Editorial Board**, *TraumaCare*, 1999-2003.
- Frontiers*, 2013-
- Lancet*, 2002-
- Critical Care Medicine*, 2001-
- Annals of Internal Medicine*, 2000-
- Medical Journal of Australia*, 2000-
- British Medical Journal*, 2000-
- Trauma Care*, 1999-2000
- Pediatrics*, 2004-
- Health Affairs*, 2004-
- Anesthesia and Analgesia* 2005-
- Milbank Quarterly* 2005-
- Medical Education*, 2004-
- Quality and Safety in Healthcare* 2001-

Organizational Activities

NATIONAL AND INTERNATIONAL SCIENTIFIC MEETING LEADERSHIP AND ORGANIZATION

1. International Advisory Committee, 3rd World Health Minister Patient Safety Summit, Tokyo, Japan, April 13-14, 2018.
2. International Advisory Committee, ICME Patient Safety Meeting, 2016, Islamabad, Pakistan, May 7-8, 2017.
3. International Advisor, 2nd Pakistan Patient Safety Conference, Karachi, Pakistan, Nov 1.
4. International Advisory Committee, 3rd Quality Healthcare Conference, Building Quality for Safer Healthcare, Amman, Jordan, Nov 23-25, 2015.
5. Organization Committee, Middle East Patient Safety Conference, Dubai, October 3-5, 2015.
6. Advisory Board Member, Hospital Management Asia, Yangon, Burma, Sept 3-4, 2015.
7. Program Committee, European healthcare Design Research, Policy and Practice June 22-23, 2015, London.
8. Advisory Board member, Hospital Management Asia, Cebu, August 15-28, 2014.
9. Co-Chair (with David Sykes), Healthcare acoustics, International Internoise Conference, 2014, Melbourne, Australia, Nov 3-6.
10. Chairman, (with Kobi Atsmon), Maintaining Public Health Following Emergencies session, 3rd International Preparedness Response Emergency Disasters, Tel Aviv, January 12, 2014.
11. Steering Committee, 8th International Academy Design Congress, Brisbane, July 2013.
12. Chair, International Advisory Board Grant, Improving Handover Quality and Safety within elderly health and care services - The role of transitions and interactions, Norwegian Department of Health, Stavanger, Nov 1-2, 2011.
13. Chair, European Handover Research Collaborative, Florence, Italy, Sept 23, 2011.
14. Steering Committee, Alarm Fatigue Summit, AAMI, Washington, DC, October 4-5, 2011;
<http://www.aami.org/alarms/>
15. Chair, European Handover Research Collaborative Meeting, Amsterdam, April 7-8, 2011.
16. Chair, European Handover Research Meeting on Patient Handovers, Brussels, October 15, 2010.

17. Scientific Committee, 7th Design & Health World Congress, Boston, July 2011.
18. Co-chair, Patient Safety Certificate Program, Harvard Colloquium on Quality and Safety, August 16-19, 2010, www.qualitycolloquim.com, http://www.icvclients.com/ehcca/quality_2010/precon_900/
19. Chair, New South Wales Trauma Collaborative, Sydney, April 10, November 30, 2009; March 2010.
20. Co-Chair (with Peter Grant), Harvard Colloquium on Quality and Safety, August 17-20, 2009, www.qualitycolloquim.com
21. Co-chair (with David Mayer, Tim McDonald), Medical Education Curriculum Design for Patient Safety Telluride, CO, August 4-August 7, 2008 http://www.telluridescience.org/sched_08.htm
22. Co-Chair (with Peter Grant), Harvard Colloquium on Quality and Safety, August 18-21, 2008, www.qualitycolloquim.com
23. Co-Chair (with Meike Smith, Cor Kalkman), Teams, team training, assessment and patient handovers, Utrecht Medical Center, Utrecht, Netherlands, July 2, 2008.
24. Co-Chair (with Andre Van Der Veen Laurence Townen), HSMR: Future of Healthcare Reporting, Utrecht Medical Center, Utrecht, Netherlands, May 5, 2008.
25. Chair, NHS Connecting for Health Evaluation Programme (NHS CFHEP), Royal College of Physicians, London, UK, March 20, 2008.
26. Co-Lead (with Bill Rostenberg), Deep Dive Day, Center for Health Design Annual meeting, Dallas, Nov 5, 2007.
27. Co-Chair (with Peter Grant), Harvard Colloquium on Quality and Safety, August 19-22, 2007, www.qualitycolloquim.com
28. Co-chair (with David Mayer), Medical Education Curriculum Design for Patient Safety, Telluride, CO, July 29-August 3, 2007. http://www.telluridescience.org/sched_07.htm
29. Healthcare Track Lead, Second Advanced International Colloquium on Building the Scientific Mind, Vancouver, Canada, May 28-31, 2007, <http://www.learndev.org/BtSM2007.html>.
30. Chair, Panel, 12th Annual Meeting, Society of European Simulation Applied to Medicine Association, Porto, Portugal June 29-July 1, 2006, www.sesam2006.ws/
31. Co-chair (with David Mayer), Medical Education Curriculum Design for Patient Safety, Telluride, CO, July 27-August 1, 2006. http://www.telluridescience.org/sched_06.htm
32. Co-chair, Advancing Medical Education: The Roles of Quality and Patient Safety: Lessons learned? Second Rosendale Meeting, Prague, Czech Republic, April 28-29, 2006.

33. Advisory Committee, The Role of Design in Transforming the 21st Century Hospital: A Summit to Develop the Research Roadmap. Georgia Tech, Atlanta, Feb 8-9, 2006. <http://hcdesign.coa.gatech.edu/agenda.htm>
34. Co-chair (with Quirino Piachevoli, A Ghirardini, PF Laterre), Clinical Risk Management, 2005, Pontificia Universita Urbaniana, Vatican City, Italy, December 17, 2005.
35. Co-Chair (with Roger Hall), Making Healthcare Safer, Royal College of Physicians, London, October 21-22, 2004. <http://www.bma.org.uk/forms.nsf/confweb/EIOU-5Z5GSQ>
36. Chair, Hospital and Health Care Facility Design, Miami, June 5-6, 2004.
37. Chair, Patient Safety Reporting Systems, Miami, January 7-8, 2004. <http://umdas.med.miami.edu/MPSC/Sec36Site/ReportingAgenda.html>
38. Chair, Health Care Professionals Patient Safety Curriculum, Miami, January 9-10 2004, <http://umdas.med.miami.edu/MPSC/Sec36Site/MedicalAgenda.html>
39. Co-chair (with Alan Merry, Bill Runciman), Patient Safety and the Law. Auckland, New Zealand, September 2, 2003.
40. Co-chair (with Richard Lilford, Jim Battles), 2nd US-UK Patient Safety Meeting, AHRQ Headquarters, Rockville, MD, September 23-24, 2003.
41. Co-chair (with Julie Mohr, Hans Asborn), Advancing Medical Education: The Roles of Quality and Patient Safety: How do we get there? First Rosendale Meeting, Rosendale Norway, May 18-19, 2003. www.edusafeq.com
42. Co-chair (with John Senders and Steve Small), Third International Clambake meeting on Medical Error and Device Safety, Gleacher Center, Chicago, IL September 19-21, 2002.
43. Co-chair (with Ulrik Christiansen and Doris Ostergard) “Training the trainers of Simulation”, September 15-17, 2002, San Antonio, TX. <http://medical.simulation.free.fr/>
44. Co-chair (with Julie Mohr), Patient Safety Day, 9th annual “Health Care Improvement Leadership Development Summer Symposium”, Dartmouth Medical School, Hanover, NH, July 15-19, 2002.
45. Co-chair (with Sten Lindahl), Utstein Symposium on Patient Safety, Simulation and Medical Education in Trauma and Critical Care, Stavanger, Norway, May 21-23, 2002. <http://www.nordictrauma.org/pages/recent.html>
46. Co-chair (with Steve Small), Advancing Medical Education: Patient Safety, Simulation and Teamwork, Gleacher Center, Chicago, IL, October 26-28, 2001. <http://dacc.uchicago.edu/safety>
47. Co-chair (with Jim Battles, Richard Lilford), 1st United States/United Kingdom Patient Safety Research Methodology Workshop, Reykjavik, Iceland, September 9-10, 2001.

48. Co-chair meeting (with Christie Pirone), Patient Safety: Prevention and Treatment of Complications in Hyperbaric Medicine, The Fifty-First Workshop of the Undersea and Hyperbaric Medical Society, UHMS Annual Meeting in San Antonio, TX, June 13, 2001.
49. Co-chair (with Steve Small), “What is the data for patient safety policy? Patient Safety Conference”, Midwestern Clinical Conference, Navy Pier, Chicago, February 22, 2001.
50. Chair Scientific Committee, “Building Systems that do no Harm”, International Patient Safety meeting, Dallas, TX, June 28-30, 2000.

Other Invited Scientific Talks and Colloquia

2019

1. **Barach P.** Building Capacity for Public Health 3.0: THE INTERSECTION BETWEEN IMPLEMENTATION, HUMAN FACTORS AND QUALITY IMPROVEMENT SCIENCES, Diploma in Healthcare Quality and Patient Safety, Islamabad, Riphah University, April 7, 2019 (via remote).
2. **Barach P.,** Rohit Ramaswamy. Implementation Research and Key Quality Improvement Strategies in the Global Context, Pakistan Lady Health Workers Program, Sick Kids Center for Global Health, Toronto, April 5, 2019.
3. **Barach P.** Building Capacity for Public Health 3.0: THE INTERSECTION BETWEEN IMPLEMENTATION, HUMAN FACTORS AND QUALITY IMPROVEMENT SCIENCES, Center for Global Health, Rome, Italy, April 1, 2019.
4. **Barach P.** Healthcare Leadership 4.0: Zero Preventable Harm, Healthcare Management in Vietnam Congress, Challenges and Resolutions, Ho Chi Minh City, March 29, 2019 (via remote).
5. **Barach. P.** Designing Hospitals and Healthcare Systems For Safety, Reliability and Patient Satisfaction, Salutogenic Hospital and Urban Design, Milan, Italy, March 29, 2019.
6. Hughes A, Papautsky L, **Barach P,** 9 Powerful Lessons I Have Learned about Safety and Quality As a Physician and Patient, On the frontlines: Tales from clinician-patients Panel, Human Factors and Ergonomics Society, March 26, 2019, Chicago.
7. Subbe C, **Barach P.** The Upside Down Hospital--What if Patients owned their medical records? Human Factors and Ergonomics Society, March 25, 2019, Chicago.
8. Shanqing Y, Nathan-Roberts D, **Barach P.** Co-Designing Methods to Study and Improve Patient-At-Work Workshop Human Factors and Ergonomics in Health Care, Workshop, Chicago, March 24, 2019

2018

1. **Barach P.** Leading to Zero: The Key Role of Leadership in the Journey to High- Reliability Organizational and Financial Performance, Becker’s Surgical Conference, Nov 14, Chicago, IL, 2018.

2. **Barach P.** Leading to Zero: The Key Role of Leadership in the Journey to High- Reliability Organizational and Financial Performance, Becker's 4TH Annual Health IT + Revenue Cycle, Sept 20 2018.
3. **Barach P**, Ririe D, Optimizing Safety, Communication, and Teamwork in and Around the Pediatric Operating Room, ASA Annual Meeting, San Francisco, CA, Oct 16, 2018 Selected as MOCA course.
4. Cooper P, Laggase R, Wayr J, **Barach P.** Addressing Medication Harm Head On: Best Medication Safety Practices, ASA Annual Meeting, San Francisco, CA, Oct 15, 2018. Selected as MOCA Course.
5. Azocar R, Brezinski M, **Barach P.** Merits of Exercise and Cognitive Therapy before Surgery: Does It Matter? ASA Annual Meeting, San Francisco, CA, Oct 15, 2018.
6. **Barach P.** The Role of Human Factors and Systems Engineering in Safe Healthcare Facility Design. Florida Agency for Health Care Administration Annual conference, October 9, Orlando, FL.

2017

1. **Barach P.** Approaches to Patient Safety and system reliability Patient Safety, Islamabad, Pakistan, live via skype, Dec 15,
2. Segal S, **Barach P**, Patient Safety Highlights 2017 - Hand Hygiene, OR Attire, OR Traffic: What is the Data and Can We Make a Difference? Oct 2017, ASA Annual Conference Boston, MA, <https://www.asahq.org/shop-asa/e017s00w08>
3. Azocar R, Brezinski M, **Barach P.** Merits of Exercise and Cognitive Therapy before Surgery: Does It Matter? ASA Annual Conference, Boston, MA, Oct 15, 2017.
4. Warm E, Englander R, Pereira A, **Barach P.** Crossing the Educational Chasm: Promoting Trust in Standardized Handovers from UME to GME. Transitions To Residency, New Orleans, May 4-6, 2017.
5. **Barach P.** Precision Medicine in Pediatrics, Wayne State University, Detroit, March 29.
6. **Barach P.** Utilizing Big Data to Monitor for Patient Safety or How AI, Machine Learning and Predictive Analytics are Reshaping the Healthcare Landscape. Big Data Analytics Symposium, Wayne State University, Detroit, March 24.
7. **Barach P.** DESIGNING AND IMPLEMENTING RELIABLE AND SAFE HEALTHCARE DELIVERY, Workshop, Air University, Islamabad, Pakistan. Feb 7.
8. **Barach P.** DESIGNING AND IMPLEMENTING RELIABLE AND SAFE HEALTHCARE DELIVERY, Workshop, Shalamar Medical and Dental College, Lahore, Pakistan, Feb 3.

1.

2016

1. **Barach P.** Alarm fatigue and hospital soundscapes in healthcare. Florida Agency for Health Care Administration Annual conference, October 17-18, Orlando, Florida.

2. **Barach P.** Occupational Hazards of healthcare providers, Fisher Titus, August 16, Ohio.
3. **Barach P.** Readmitting Children with Heart Failure: The Importance of Communication, Coordination, and Continuity of Care, SAFER Institute, Stavanger, Norway, July 2.
4. **Barach P.** Keynote, Introducing High Reliability Organizational change, Memorial Herman Hospital Weekend Retreat, June 10-12.

2015

1. **Barach P.** Alarm fatigue and impact on healthcare. Florida Agency for Health Care Administration Annual conference, October 13-14, Orlando.
2. **Barach P.** Fisher-Titus Hospital, Fisher-Titus, March 24-26, Ohio.
3. Sykes D, **Barach P**, Rostrach K. Alarm fatigue: impact on ASHE members, 2015 PDC Summit, March 15-18, San Antonio, Texas.
4. **Barach P.** The Hospital as a Healing Environment: The Role of Trust & Co-Production, 2015 PDC Summit, March 15-18, San Antonio, Texas.
5. **Barach P.** Marietta Memorial Hospital, March 11-13, Marietta, Ohio.
6. **Barach P.** Fisher Titus Hospital, Fisher-Titus, Feb 2-4, Fisher Titus, Ohio.
7. **Barach P.** Billings Clinic, January 13-15, Billings, Montana.

2014

1. **Barach, P.** Lessons in changing coding and documentation. Wyoming Medical Center, Dec 11 Casper, WY.
2. **Barach P.** Words Matter, Valley Hospital, Surgical Rounds, Nov 25, Ridgewood, NJ.
3. **Barach P.** A framework to guide and evaluate health policy and service interventions. Chicago Learn, October 17.
4. Haskell H, Johnson J, **Barach P.** Patient stories and lessons for healthcare training. National Patient Safety Foundation, Orlando, FL, May 14-16.
5. **Barach P.** Designing reliable and accountable healthcare systems. South Florida chapter of the Society of Healthcare Executives, Florida Atlantic University, Boca Raton, May 12.
6. **Barach P.** Human Factors and their impact on patient and staff outcomes. 10th International meeting on Rapid Response Systems, May 11, Miami.

7. **Barach P.** Challenges and opportunities for engaging clinicians for reliable system change Invited talk to the ASSERT Research Group, University College Cork, Cork, Ireland, January 21.
8. **Barach P.** Evaluation of a Pre- Development Service Delivery Intervention: an Application to Evaluate and Improve Emergency Preparedness Training and Operations. 3rd International Preparedness Response Emergency Disasters, Tel Aviv, January 12.

2013

9. **Barach P.** How do we make patient handover reliable? Invited talk, University of Indianapolis, IN, Dec 30.
10. Ovretveit O, Karsh S., **Barach P.** Digital Health Technologies for lower costs and high value. Institute for Health Improvement, 25th Annual meeting, Orlando, Fl, Dec 10.
11. **Barach P.** Hybrid operating rooms of the future. Webinar, Center for Healthcare Design, Dec 4th.
12. **Barach P.** Why alarm fatigue is a pivotal issue that affects the acoustical design of healthcare facilities. Talk and panel, American Society of Acoustics Annual Meeting, San Francisco, Dec 3.
13. Rostenberg B, **Barach P.** Hybrid operating rooms of the future. 12th Health Care Design Annual Conference, Orlando, Nov 18.
14. Zilm F, Tingwald G. **Barach P.** Designing for safety, flexibility and sustainability. 12th Health Care Design Annual Conference, Orlando, Nov 17.
15. Potter Forbes M. **Barach P.** Mental Health Facility Learning Collaborative, 12th Healthcare Design Annual Conference, Orlando November 16.
16. **Barach P.** Training surgical teams for reliability, University of Lisbon, Lisbon, Portugal, November
17. **Barach P.** A Systematic Approach to Delivering Safe and Reliable Care, Sing Health, Singapore, October 31.
18. **Barach P.** Safety, Efficiency and Flexibility – Convergent or Mutually Exclusive Goals in Healthcare Design. Invited presentation, Clalit Health Services, Tel Aviv, Israel, October 1.
19. **Barach P.** *What is a Learning Culture and How does it Foster a Culture of Patient Safety*, The International Society for Quality in Health Care, webinar, August 15.
20. **Barach P.** *Teams and team training in renal care*. 31st International Vicenza Course on Critical Care Nephrology, Vicenza, Italy, June 13.
21. **Barach P.** *Acute Kidney Injury and Trauma*. 31st International Vicenza Course on Critical Care Nephrology, Vicenza, Italy, June 13
22. **Barach P.** *Human factors and their role in improving safety*. 31st International Vicenza Course on

Critical Care Nephrology, Vincenza, Italy, June 13

23. **Barach P.** *Advances in reliability of renal care.* 31st International Vicenza Course on Critical Care Nephrology, Vincenza, Italy, June 14
24. **Barach P.** The importance of human factors and team performance in achieving highly reliable outcomes. Special lecture, Department of Cardiac Surgery, University of Padua, Italy, July 14.
25. **Barach P.** *Reliability and medical education.* University College Cork, Ireland, May 13.
26. **Barach P.** *Designing and training trauma teams,* Red Cross, Sydney, Australia, April 30.
27. **Barach P.** *Safety, Efficiency and Flexibility – Convergent or Mutually Exclusive Goals in the ICU?* 10th Annual Critical Care Symposium, Manchester, UK, April 26.
28. **Barach P.** *Handovers of Patient Care: What Will It Take to Ensure Safe Outcomes?* 10th Annual Critical Care Symposium, Manchester, UK, April 26.
29. Johnson J and **Barach P.** *Learning from patient stories to improve care,* International Forum on Quality, London, UK, April 19.
30. **Barach P.** *Overcoming the challenges of improving quality, efficiency AND patient safety in modern healthcare systems.* Human Factors Forum. Nottingham University Hospital, Nottingham, UK, April 12.
31. **Barach P.** *Team training, team assessment and the impact on providing reliable care,* Brunel University, London, April 10.
32. **Barach P.** *Achieving High Value Healthcare: The Innovator's Dilemma.* University of Utah, Salt Lake City, April 4.
33. **Barach P.** *A leader's guide to Quality improvement.* Graduate Leadership Program, Australian College of Healthcare Executives, Melbourne, Feb 14.

2012

18. Rostenberg B, **Barach P.** Design of hybrid operating rooms. Webinar, Center for Health Design, December 5.
19. Lindberg H, **Barach P.** Patient Safety in Pediatric Cardiac Surgery The Past and the Future, BIT's 3rd International Congress of Cardiology, Guangzhou, China, Dec 3.
20. **Barach P.** The role of learning culture and its impact on safety culture, plenary talk. 2nd HCAC Safety and Quality Conference, Amman, Jordan, Nov 21.
21. **Barach P.** Safety, flexibility and sustainability in hospital design, workshop. 2nd HCAC Safety and

Quality Conference, Amman, Jordan, Nov 19.

22. **Barach P.** Designing the hospital of the future: architectural, cultural, educational, and organizational aspects, workshop. Singapore 9th Annual Safety and Quality Conference, Singapore, Nov 7.
23. **Barach P.** Designing the hospital of the future: architectural, cultural, educational, and organizational aspects, workshop. Singapore 9th Annual Safety and Quality Conference, Singapore, Nov 7.
24. **Barach P.** A Systematic Approach to Delivering Safe and Reliable Care, workshop. Singapore 9th Annual Safety and Quality Conference, Singapore, Nov 7.
25. Rostenberg B, **Barach P.** Hybrid operating rooms of the future. Health Care Design Annual Conference, Phoenix, Arizona, Nov 5.
26. Zilm F, Tingwald G. **Barach P.** Designing for safety, flexibility and sustainability. Health Care Design Annual Conference, Phoenix, Arizona, Nov 5.
27. **Barach P.** Panel, Australian Healthcare Managers, Annual Conference, Gold Coast, Australia, August 18.
28. **Barach P.** Assessing and improving surgical team performance, Department of Surgery, Carolina Medical Center, Charlotte, NC, July 5.
29. **Barach P.** Mental model and patient safety, A "core curriculum" for patient safety. Albert Einstein Hospital, Sao Paulo, Brazil, June 29,
30. **Barach P.** Teamwork and patient safety - still more questions than answers?" Society of European Simulation, SESAM 2012, Stavanger, Norway, June 16.
31. **Barach P.** Use of simulation in handover research and handover improvement projects. Society of European Simulation, SESAM 2012, Stavanger, Norway, June 15.
32. **Barach P.** Innovation and impact of the built environment on safety and reliability, University of Trondheim, Trondheim, Norway June 13.
33. **Barach P.** Update on patient safety, University of Oslo Hospitals, June 12, Oslo.
34. **Barach P.** Patent Stories: Listening to Patients, Norwegian Knowledge Management Agency, Oslo, June 12.
35. **Barach P.** The future of perioperative safety. University College Cork, Cork, Ireland, May 30.
36. **Barach P.** Impact of the ICU environment, design, technology on effective organizational change and improved outcomes, 10th Greek Armed Forces Medical Corps Critical Care Meeting. Athens, May 26.
37. **Barach P.** Essential tools for improving safety and quality in the ICU, workshop. 10th Greek Armed Forces

Medical Corps Critical Care Meeting. Athens, May 26.

38. **Barach P.** Invited workshop presenter and moderator: Data and How to use it , Australian College of Health Services Management (ACHSM), 2012 Graduate Health Management Program. North Ryde, Australia. May 11.
39. **Barach P.** Invited workshop: Quality Improvement and leading change, Australian College of Health Services Management (ACHSM), 2012 Graduate Health Management Program Orientation. April 27, 2012. North Ryde, Australia.
40. Johnson J, **Barach P.** Serious games to teach quality and safety competencies, International Forum on Quality, Paris, April 20.
41. Jarman B, **Barach P.** Overcoming the Barriers and Political Pressures to Safety, International Forum on Quality, Paris, April 20.
42. **Barach P.** Invited workshop: The transition from the hospital to post-acute care settings. Australian College of Health Services Management (ACHSM), 2012 Graduate Health Management Program. March 16, 2012. Queensland, Australia.
43. **Barach P.** Assessing and improving team performance, Department of Anesthesiology, University of California, Irvine, CA, January 5.
44. **Barach P.** Improving patient handovers and safety, Department of Emergency Medicine, University of California, Irvine, CA, January 4.

2011

45. **Barach P.** Teamwork, microsystems and leadership: Transforming perioperative safety, Grand Rounds, Department of Anesthesiology, Wake Forest Medical Center, Winston Salem, NC, December 22.
46. **Barach P.** Assessing and Improving Team Performance in Cardiac Care. Grand Rounds, Cardiothoracic Surgery, Wake Forest Medical Center, Winston Salem, NC, Dec 14.
47. **Barach P.** Assessing and Improving Team Performance in Acute Care Settings. Invited Special Talk, All Children's Hospital, University of South Florida, St Petersburg, Florida. December 8.
48. Sadler B, Cohen G, **Barach P.** Physical Environments that Reduce Harm, Lower Costs and Improve Satisfaction. Institute for Health Improvement, Orlando, Florida, Dec 7.
49. Jarman, B, Barker P, **Barach P.** Overcoming the Barriers and Political Pressures to Safety. Learning Lab, Institute for Health Improvement, Orlando, Florida, Dec 6.
50. Bill Rostenberg, **Paul Barach**, The Road to Safety is Paved with Good Intentions—Improving Flow in Critical Care Environments. 11th Health Care Design Conference, Nashville, TN, Nov 16.

51. Frank Zilm, **Paul Barach**, George Tingwald, Safety, Efficiency and Flexibility—Convergent Goals of the Operating Room. 11th Healthcare Design Conference, Nashville, TN, Nov 16.
52. **Barach P.** Hospitals & Community Based MH Care, Design of Mental Health Facilities Workshop, Melbourne, Nov 10.
53. **Barach P.**, Potter Forbes M. Review of MH Facilities, Design of Mental Health Facilities Workshop, Melbourne, Nov 10.
54. **Barach P.** New ways to think about harm and safety. Workshop, University of Stavanger, Stavanger, Norway, Nov 4.
55. **Barach P.** New ways to view harm and safety. Australian College of Health Care Management, Brisbane, October 28.
56. **Barach P.** TeamSTEPPS Train the Trainer Program, National University Hospital, Singapore, Oct 12.
57. **Barach P.** Exploring the role of Human Factors in achieving safety. Workshop, Ministry Healthcare Quality Improvement Conference, Singapore, October 11.
58. **Barach P.** Handovers and communication, Workshop, Ministry Healthcare Quality Improvement Conference, Singapore, October 10.
59. **Barach P.** Overview of Patient Safety and Risk Management, Clinical Risk Management, Graduate Course, UNSW School of Public Health, Sydney, Sept 28.
60. Ohlen G. and **Barach B.** The impact of smart acoustics and hospital design: A clinician's view, *Ecophon International Acousticians' Seminar (EIAS)*, Sept 22, via recorded presentation <http://vimeo.com/29414708>.
61. **Barach P.** Assessing and improving team performance in acute care settings. The Sixth Mediterranean Emergency Medicine Congress (MEMC VI), Kos, Greece, September 10-14.
62. **Barach P.** Patient Handovers/Handoffs: The European Handover Research Collaborative. The Sixth Mediterranean Emergency Medicine Congress (MEMC VI), Kos, Greece, 10-14 September.
63. **Barach P.** Plenary moderator and speaker, Expert Conference *Education in Quality Care and Patient Safety*. The HOW? Getting quality and safety into the mainstream of healthcare education - discussion. Krakow, Poland, September 9.
64. **Barach P.** The Future of Clinical Information Systems and Health Reform, Health Information Conference, 2011, Brisbane, August 2.
65. **Barach P.** Microsystems and redesign of the Emergency Department, Health Information Conference, 2011, Brisbane, August 1. <http://www.digitalhospitaldesign.org/?q=node/3>

66. **Barach P.** Chair Panel, Information System and evidence based design. International Academy Design, Boston, MA, July 7.
67. Basia Kutryba, **Paul Barach.** HANDOVER: The European HANDOVER Research Collaborative – Impact on Patient Safety in Europe. Regional European Conference Development of Quality Improvement in Europe Under the auspices of the European Commission and Council of Europe 18-20 May, 2011 Park Inn Hotel, Krakow, Poland.
68. **Barach P.** Coordination and Transitions of Patients in Europe, IHI Expedition: Improving Transitions in Hospital Care - Session 5 Follow Up, Institute for Health Improvement, (via webcast), May 23.
69. Myrra Vernooij, Johnson J, **Barach P.** Role of Qualitative Methods in Handover Research. International Forum, Amsterdam, Netherlands, April 7.
70. Clinical Handovers Innovations, with Julie Johnson, Dutch Society of Internal Medicine, Amsterdam, April 6.
71. The Role of Human Factors and Team Performance in Healthcare, Workshop, King's College, Patient Safety and Service Quality Research Centre, London, UK, April 4.
72. Designing for Safety, Safe Design Committee, Princess Margaret Hospital, Perth, WA, March 24.
73. Creating, Assessing and Sustaining High Performance in Hospital Teams, Grand Rounds, Princess Margaret Hospital, Perth, Western Australia, March 24.
74. New Ways to Think about Risk Harm and Safety, Masterclass, Princess Margaret Hospital, Perth, Western Australia, March 23.
75. The Role of Human Factors in Enabling Safe and Reliable Care Seminar, Graduate Program in Architecture and Health, Clemson University, South Carolina, March 18 (via videoconference).
76. Zero Events of Harm, executive workshop, Australian College of Health Executives, Brisbane, Queensland, Australia, March 4.
77. The Role of Human Factors in assessing team performance, invited presentation to the Dutch Inspectorate Amsterdam, Netherlands, Feb 7.

2010

78. Maggie Caulkins, Upali Nanda, Jo Solet, **Paul Barach.** Designing healthcare facilities for safety: Research roadmap 2010, Webinar, with, Dec 7.
79. Johnson, J, Arora, V, **Barach, P.** Global Strategies to Improve Patient Transitions. Poster Presentation at the Institute for Healthcare Improvement National Forum. December 6-8, 2010, Orlando, Florida.
80. Getting clinicians on board, Australian Health College of Healthcare Executives Workshop Breakfast

talk, Brisbane, November 23.

81. Invited talk, Research Roadmap of the Center for Health Design, Health Care Design, 2010, Las Vegas, Nevada, Nov 16.
82. Invited Presentation, Department of Medicine, Tufts Medical Center, Assessing and Improving Safe Patient Transitions, Boston, Massachusetts, August 18.
83. Lessons learned in improving patient handovers. Academy Health, (with Vinet Arora, Rich Frankel, Julie Johnson), Boston, Massachusetts June 27.
84. Healthcare Innovation in Auckland, Auckland University, Auckland, New Zealand, June 11.
85. Leader's Guide to Harm Prevention, Australian Health College of Healthcare Executives Workshop, Brisbane, Queensland, Australia, May 7.
86. Patient Handovers, International Forum on Quality and Safety, Nice, France, April 21.
87. Innovations in Quality Improvement Leadership Breakfast, ACHSE, Brisbane, March 24.
88. Patient Handovers, Workshop, National Institute of Public Health, Tokyo, Japan, Feb 24. (with Johnson J)
89. Team training and assessment in healthcare, Doshisha University, Kyoto, Feb 24, Japan.
90. Designing Hospital safety, Japanese Institute of Architecture, Feb 26, Tokyo, Japan.
91. Role of the Built Environment, Workshop, National Institute of Public Health, Tokyo, Japan, March 1st. (with Johnson)
92. Developments in Patient Safety, Nagoya University Hospital, March 2, Nagoya, Japan.
93. The Role of Human Factors in Safe Hospital Care. Kurashiki Central Hospital, Kurashiki, Japan March 3.
94. Designing Intensive Care Units Safety, Japanese Society of Intensive Care Annual Conference, Hiroshima, March 4, Japan.
95. **Barach P**, Johnson J. The impact of patient handovers and the built environment. Kadoka Hospital, Nara, March 5, Japan.

2009

96. **Barach P**. Johnson J. Mental Models and Communication and the Implications for Patient Safety. University of Colorado Denver School of Medicine. Denver, CO, December 11, 2009.

97. Vinnet Arora, Julie Johnson, **Barach P.** Invited presentation, Safety of Patient Transfers, with Institute for Health Improvement Annual Meeting, Orlando, Florida, December 8, 9.
98. Invited workshop- Hospital Design: Reduce Harm, Improve Sustainability full day workshop, Institute for Health Improvement Annual Meeting, Orlando, Florida, December 7.
99. Invited Speaker, Cardiac Perfusion Interest Group, Safety in Pediatric Cardiac Surgery, Children's Hospital Westmead, Westmead, Sydney, Nov 19.
100. Invited speaker, Cardiac Anesthesia Journal Club, The Role of Human Factors in Pediatric surgery outcomes, University of California, San Francisco, CA, November 4th.
101. Invited Speaker and Moderator, Evidence Based Design, Center for Health Design, Health Care Design 2009, Orlando, FL, Nov 1.
102. Invited Speaker, Research Update Center for Health Design, Health Care Design 2009, Orlando, FL, Nov 1.
103. Invited talk, Patient Handovers from the Emergency Department, 5th Mediterranean Emergency Medicine Congress, Valencia, Spain, September 15.
104. Invited Speaker, The Role of Design in Intensive Care Units, World Congress of Critical Care, Florence, Italy, September 1. (delivered by M Potter-Forbes)
105. Injury prevention, Patient safety: Opportunities and Challenges, School of Public Health Annual Research Day, UNSW, Sydney Australia, May 1.
106. Patient safety and Human Factors: Where is TCI going? 2nd World Congress of Total Intravenous Anesthesia, Berlin, Germany, April 24.
107. Injury And Child Safety: Opportunities and Challenges, Child Injury Workshop, University of New South Wales, Sydney, April 14.
108. Patient Transitions--European Union Handover Grant, International Forum on Quality and Safety in Healthcare, Berlin, German, March 20. (with Loes Pijenburg, Basia Kutrbya, Susanne Smornburg).
109. Human factors and Paediatric Cardiac Surgery, Teams and Patient Handovers Workshop, Scientia Building, University of New South Wales, Sydney, Australia, March 5.
110. Ten years after the IOM report, TO Err is Human: What have we learned? Invited presentation, University medical Center, Raudbaud, Nijmegen, Netherlands, Jan 8.

2008

111. Unintended Consequences of Disaster Preparedness, UNSW Workshop on Modeling and Simulation

for eHealth Workshop, UNSW, Randwick, December 17.

112. Assessing the role of human factors and teams in making healthcare safer, Visiting Professor and Grand Rounds, Department of Anesthesia, University of Pittsburgh, PA, December 11.
113. Designing Safer Hospitals (with Blair Sadler, Ken Dickerman, Derek Parker), Institute for Improvement, Mini-course, December 9, Nashville, TN, December 9.
114. Assessing the business case for Injury, Joint workshop Australian School of Business, UNSW, Sydney, December 2.
115. Role of stakeholders in creating no fault insurance schemes, Adelaide Convention Center Adelaide, South Australia, Nov 24th.
116. Creating the Research Roadmap for Developing Safe and High Quality Buildings: Are We There? with Bart Charney, Anjali Joseph, Craig Zimmering, Healthcare Design, 2008, Maryland, Nov 13th.
117. Alarms, providers and making sense. Symposium II: Paris Healthcare Acoustics & Speech Privacy – International Perspectives 155th ASA meeting, 5th Forum Acousticum, 9e Congres Francais d'Acoustique, 2nd ASA-EAA Joint Conference, integrating 7th EuroNoise, 9th ECUA & 60th anniversary of Societé Francais d'Acoustique, Palais des Congres Paris, France, July 1.
118. Designing Hospitals to Reduce Harm and Stress on Patients and Staff, Healthcare Ergonomics and Patient Safety, Strassbourg, France June 25.
119. Storytelling and Story Analysis: Mechanisms for Creating A Safe Healthcare Experience Healthcare Ergonomics and Patient Safety, Strassbourg, France June 25.
120. Teams, team training and the unintended consequences of preparedness, HESCUALEP, CBRN Expert meeting on the Pre-hospital Setting, Rotterdam, April 9.
121. Making the difference, A conference about safety, quality and effectiveness in hospitals, Utrecht, April 2.
122. The unintended consequences of ICT. 1st Annual Conference, NHS Connecting for Health Evaluation Programme (NHS CFHEP), London, March 20.
123. Patient Safety, Health Evidence Research Design, 2.0, Virginia, March 27-28.
124. Role of View on Nursing Levels Stress and Well-being, presented by Pati Debayoti, American Society of Healthcare Engineering, March 12th, Orlando, Florida.
125. Simulation and Medical Education, Invited Presentation (with Ruben Azocar, Ed Kozik), 14th World Congress of Anesthesia, Cape Town, March 7.
126. Disaster Preparedness for Anesthesiologists: Lessons Learned, Invited Presentation, 14th World

Congress of Anesthesia, Cape Town, March 3.

127. Implementing Patient Safety programs, Grand Rounds, Catharina Ziekenhuis Hospital, Eindhoven, February 18, Netherlands (with Cor Kalkman).
128. Can We Make Healthcare Safer, Patient Safety Winter School, Master Class, Isala Clinic, Netherlands, Feb 12.

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129. Patient Safety Journal Club, Utrecht Medical Center (with Stefan Dielman, Suzanne Flier), Utrecht, NL. December 20.
130. Challenges and Opportunities for Injury Epidemiology, University of New South Wales Injury Prevention Center, Sydney, Australia, December 18.
131. Challenges and Opportunities of Designing, Implementing and Assessing a Patient Disclosure Program, National Quality Forum Course, Institute for Health Improvement, Orlando, Florida, December 10, (with David Mayer, Tim McDonald, Anne Gunderson, Nikki Centomani, Rosemary Gibson)
132. Designing Safe Hospitals, National Quality Forum Course, Institute for Health Improvement Orlando, Florida, December 10, (with Blair Sadler, Ken Dickerman, Julie Johnson).
133. The Role of Storytelling in Learning and Assessment, Plenary workshop. IADIS, International Conference on Cognition and Exploratory Learning in Digital Age Algarve, Portugal, December 8 (with Julie Johnson)
134. Just Culture, Patient Safety Symposium, November 26 and 27, Utrecht Medical Center, NL.
135. The Role of Engineering in Creating Patient Safety, Grand Rounds, Departments of Industrial and Biomedical Engineering, University, Istanbul, November 16.
136. ACGME 6 Competencies: How to Translate into Practice, Workshop, with Julie Johnson, American Society of Anesthesia Annual Meeting, San Francisco, CA, October 16.
137. Disaster Preparedness: A review and roadmap, Panel, American Society of Anesthesia, San Francisco, CA, October 13.
138. The Role of Baldrige in making healthcare safer. Invited Dinner Presentation, European Quality Forum, Amsterdam, Netherlands, October 11.
139. Strategies to Reduce Patient Harm: Design, Human Factors and Safety. Invited Speaker, Journal Club, Department of Anesthesia, Erasmus Hospital, Rotterdam, Netherlands, October 9.
140. Teams in Healthcare, Facilitated session. Patient Safety Forum, European Union, Porto, Portugal, Sept

- 24.
141. Assessing the Reliability of Healthcare, Visiting Professor and Grand Rounds, Boston University Medical Center, Boston, MA, Sept. 17.
142. The Role of People + Technology in Creating Patient Safety, National Advanced Training Program, Intermountain Health Care, Salt Lake City, September 19. <http://intermountainhealthcare.org/xp/public/institute/courses/atp/>
143. Patient Safety Resident Training, University of Utrecht Medical Center, Sept 12.
144. Can We Make Healthcare Safer, Summer School, Master Class, Issala Clinic, Netherlands, Sept 3.
145. Patient Safety Officer Training, Harvard Colloquium on Quality, Cambridge, MA, August 19.
146. Lessons From Non-Medical Industries, Panel moderation, Harvard Colloquium on Quality, Cambridge, MA, August 21.
147. Assessing the Reliability of Health Care, Invited Presentation, US National Academy of Science, Committee on Human Factors, Woods Hole, MA, August 7.
148. Patient Safety and the Role of the Community (with David Mayer, Helen Haskell), Telluride Scientific Research Center, Town Meeting, Telluride, Colorado, July 31.
149. Stories and Story telling in patient safety, Invited Keynote, Telluride Roundtable, Telluride Colorado, July 31.
150. Commentary and review of Safety research projects, Patient Safety Research Portfolio Dissemination Conference, University of Birmingham, United Kingdom, July 11.
151. The Challenges and Opportunities in Studying Patient Safety, Invited Professorship Series, Julius Center of Epidemiology, Utrecht University Medical Center, Utrecht, NL, July 3.
152. The Role of Reporting Systems and other Developments in Enabling Safe Care, Patient Safety Conference, Ayr, Scotland, July 3rd.
153. Patient Safety and the Built Environment (with Ken Dickerman, Ray Pentacost), 5th World Congress, International Academy for Design and Health, Glasgow, June 30.
154. The Role of Design on Elderly Safety and Patient Falls (with Uriel Cohen), 5th World Congress, International Academy for Design and Health, Glasgow, June 28.
155. Patient Safety, role of communication and hand offs, Grand Rounds, Anesthesia and Critical Care, Royal Infirmary, University of Glasgow, Glasgow, Scotland, June 28.
156. Storytelling and Story Analysis: Mechanisms for Assessing Individual Competencies, National Board

of Medical Examiners, Philadelphia, June 18.

157. System Barriers to Achieving Ultrasafe Healthcare, *Grand Rounds and Visiting Professor* Department of Anesthesia, Medical College of Wisconsin, Milwaukee, WI, June 6.
158. Wrong Site Anesthesia and Surgery: Can they be prevented? Invited talk, Medical College of Wisconsin, Milwaukee, WI. June 5
159. The Role of Designers and Architects in Making Healthcare Less Dangerous, Anshen and Allen, Guest Speaker, San Francisco, CA, June 1.
160. The Role of the Built Environment on Patient and Staff Well Being, Special presentation, UCSF Medical Center, San Francisco, June 1.
161. Storytelling and Story Analysis, Second Advanced International Colloquium on Building the Scientific Mind, Vancouver, Canada, May 29.
162. Myths and Truthiness in Pediatric Cardiac Surgery, Los Angeles Children's Hospital, Los Angeles, May 11.
163. Overcoming Barriers to Making Care Safer, Peru Medical Association, April 16, Lima, Peru.
164. Keeping Patient Alive in Healthcare, *Visiting Professor*, Honario Delgado Hospital, University of Arequipa, Peru, April 12.
165. Designing Healthcare Environments: The Role of Human Factors in Creating Safe Patient Outcomes, *Visiting Professor*, American University of Antigua College of Medicine, St John, Antigua, March 10.
166. The Role of People + Technology in Creating Patient Safety, (with Julie Johnson), National Advanced Training Program, Intermountain Health Care, Salt Lake City, February 27. <http://intermountainhealthcare.org/xp/public/institute/courses/atp/>
167. Wrong Site Surgery Summit - Preventing Wrong Site Procedures, Invited roundtable participant, The Joint Commission (JCAHO), Soffitel, Chicago, February 23.
168. Designing Healthcare Information Technologies, *Keynote Address*, Freeband Research Meeting, Utrecht, Netherland, February 21.
169. Can you Design Patient Safety into Hospitals? *Visiting Professor*, College of Architecture, Texas A&M University, Feb 11 (in Miami).

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170. Designing Safe Hospitals, mini-course, Institute for Health Improvement 18th Annual Meeting,

- December 11, Orlando, FL (with Ken Dickerman, John Reiling, Julie Johnson)
171. Hand Offs---How to design a better widget? *Visiting Professor and Grand Rounds*, Utrecht University Medical Center, Utrecht, Holland, Dec 7.
 172. Wrong Sided Procedures: Can they be Prevented? Patient Safety Course, Utrecht University Medical Center, Utrecht, Holland, Dec 4.
 173. A View from the Sharp Edge, Patient Safety Course, Utrecht University Medical Center, Utrecht, Holland, December 1
 174. Reliability of Healthcare Systems, *Visiting Professor and Grand Rounds*, Anesthesia, Mayo Clinic, November 27, Rochester, MN
 175. The Role of Patient Hand-Offs, noon time Resident conference, Mayo Clinic, November 27, Rochester, MN.
 176. Patient Safety 2010: Opportunities and Challenges, Vancouver General Hospital, *Grand Rounds*, University of British Columbia, Vancouver, BC, Canada, Nov 15.
 177. Designing the Safe Hospital: We Shape the Buildings and then They Kill Us! How Hospital Design Contributes to Medical Errors, National Healthcare Design 06 Conference, Nov 6, Chicago IL, (with Ken Dickerman)
 178. Designing, Implementing, and Evaluating an Interdisciplinary Patient Safety and Quality Outcomes Medical School Curriculum Workshop, American Association of American Medical Colleges (AAMC), November 1, Seattle, WA. (workshop with Drs. Ara Tekian, David Mayer, Anne Gunderson).
 179. The Role of Patient Hand-Offs: Can we do better? *Grand Rounds*, Department of Anesthesiology, University of Washington, October 31, Seattle, WA.
 180. Workshop, Assessing and Improving the Transfer of Patient Care Responsibilities: Implementing the 2006 JCAHO Patient Safety Goal for Safe and Effective Handoffs, American Association of American Medical Colleges (AAMC), October 31, Seattle, WA (workshop with Drs. Julie Johnson, Vinet Arora).
 181. Health Environments Research Forum, Guest Speaker, Evidence Based Design American Institute of Architecture Academy of Architecture for Health, Miami, Fl, October 19.
 182. Hazards of Disaster Response and Equipment, invited panel, American Society of Anesthesiology Annual Conference, Chicago, IL, October 15.

183. Have We Arrived? Keynote Address, Florida Health Care Coalition's, Empowering Healthcare: Tools to Measure and Manage Change. Davie, Fl, October 11.
184. How Do We Make Healthcare Safer? Invited lecture and Visiting Professor Hospital Honorario Delgado General Hospital, University of Arequipa, Arequipa, Peru, Sept 19.
185. Is Anesthesia as Reliable as we think it is? *Grand Rounds and Visiting Professor*, National Children's Hospital, Lima, Peru, Sept 15.
186. Patient Safety and System: where do we go from here? Maison de Sante Hospital, Lima, Peru, Sept 14.
187. The Role of Human Factors and Teams in Pediatric Cardiac Surgical Care, *Visiting Professor and Grand Rounds*, Anesthesia department, Universitätsspital Basel, University of Basel, Switzerland, September 7.
188. Assessing and improving communication of patient care information in hospital settings, Workshop, European Association of Communication in Healthcare (EACH) Conference, Basel, Switzerland, Sept 5.
189. Perioperative communication: opportunities from patients' empowerment to increased patient safety in the operating room, EACH Conference, Basel, Switzerland, September 6.
190. Assessing and Improving the Transfer of Patient Care Responsibilities: Implementing 2006 JCAHO Patient Safety Goals, Plenary session (with Drs. Vinet Arora, Julie Johnson), Harvard Colloquium, Boston, August 22.
191. Patient Safety Reporting Systems Overview, Multi-Societal Pediatric and Congenital Cardiovascular Database & Complications Summit, Chicago, August 18.
192. The Role of People + Technology in Creating Patient Safety, (with Julie Johnson), National Advanced Training Program, Intermountain Health Care, Salt Lake City, August 15.
193. Creating Reliability in Healthcare: Can it Be Done? Global Quality Future Workshop, Minneapolis, MN, August 11.
194. The Role of Teams and Microsystems in Transforming Medical Education 2nd Roundtable on Patient Safety Curriculum, Telluride, Colorado, August 3.
195. Measuring Reliability of Anesthesia Care, *Grand Rounds and Visiting Professor*, University of Porto, Hospital General de Santo António, Porto, Portugal, June 30.
196. Patient Safety and Medico-liability in Florida, *Grand Rounds and Visiting Professor*,

University of Nagoya, Nagoya, Japan, June 19.

197. Patient Safety and Critical Care. Invited Presentation to Under-Secretary of Safety and Quality, Ministry of Health, Labor and Welfare, June 15, Tokyo, Japan.
198. Future of Patient Safety: Is there Hope? *Grand Rounds*, Tohoku University, Japan, June 14.
199. National Policy on Patient Safety: Where Might Japan Go Next? National Institute of Public Health, Ministry of Health, Saitima, Japan, June 13.
200. Patient Safety in Cardiac Surgery, *Grand Rounds*, Department of Cardiac Surgery, University of Tokyo, Tokyo, Japan, June 12.
201. The Role of Built Environment on Patient Safety, *Keynote address*, Princeton University Hospital, Princeton, NJ, June 2.
202. Risk Management and Patient Safety—are they compatible? Invited *Speaker*, National Risk Management Annual Meeting, Bologna, Italy, May 25.
203. Teams, Teamwork, and Team Training in Health Care: Building and Assessing High Performance Teams, Workshop (with Julie Johnson), 12th International Ottawa Conference on Clinical Competence, NYC, May 23.
204. Communication and Teamwork, *Plenary (with Gerald Hickson)*, Association of Pediatric Administrators Annual Meeting, Banff, Canada, May 22.
205. Making Healthcare Safer, *Visiting Professor and Grand Rounds*, University of South Florida, Tampa, FL, May 19.
206. Simulation and Team Training, Memorial Healthcare Annual Conference, Savannah, GA, May 11.

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207. Teams and team training in healthcare curriculum, 2nd Annual Rosendale Roundtable on Patient Safety and Quality Curriculum, Prague, Czech Republic, April 28.
208. International Perspectives on Patient Safety, European Forum on Quality, Czeck Republic (with Basia Kuptyra, Andrew Nolan), Prague, April 26.
209. The Role of Hospital Design in Preventing Patient Falls, 6th Annual Safe Patient Handling and Movement Conference, Clearwater, Florida, April 24.
210. Assessing the Reliability of Healthcare, *Visiting Professor and Grand Rounds*, Vancouver, University of British Columbia, Canada, March 29.

211. Role of Technology and Patient Safety, Intermountain Health Care Advanced Training Program (with Julie Johnson), Salt Lake City, Feb. 28.
212. Role of Simulation and Team Training, Patient Safety Course, University of Illinois at Chicago School of Medicine, Chicago, IL, Feb 22.
213. Team Training and Simulation, *Grand Rounds and Visiting Professor*, University of Illinois, Chicago, Feb 22.
214. Patient Safety—Role of Human Factors. Visiting Professor, Aptima, Inc, Boston, MA, Feb 17.
215. How Reliable is Healthcare, Invited Plenary talk, Interclerkship Day third year Medical Students, Jefferson Medical College, Philadelphia, PA, January 3.
216. Reliability of Health Care-Can we do Better? *Visiting Professor and Grand Rounds*, Department of Anesthesia, Cleveland Clinic, Cleveland, OH, December 28.
217. Technology and Patient Safety. Half day workshop for the Advanced Training National Program, Intermountain HealthCare, Salt Lake City, Nov 2 (with Julie Johnson).
218. Nuclear, Chemical and Biological Hazards: Are You Prepared? Invited Lecture, 56th Annual Refresher Course Lecture and Basic Science Reviews, American Society of Anesthesiologists 2005 Annual Meeting, Atlanta, GA, October 24.
219. Five Years Later: Are Patients Safer? *Visiting professor, Grand Rounds*, Department of Anesthesiology, Mount Sinai Medical Center, NY, October 19.
220. Role of Human Factors and Teams in Cardiac Surgery, *Visiting Lecturer*, Institute for Healthcare Studies Seminar Series, Northwestern University Medical School, Chicago, IL, Sept 29.
221. Florida Patient Safety Corporation—update, *Invited address*, Springboard Aspects of Florida’s Patient Safety Initiatives, University of South Florida Patient Safety retreat, Tampa, Fl, Sept 28.
222. Establishing a National Framework for Patient Safety, Workshop leader, Japan Council for Quality Health Care, Tokyo, Japan, Sept 16.
223. Role of Human Factors in Advancing Cardiac Surgery. *Visiting Professor*, Nagoya University School of Medicine, Nagoya, Japan, Sept 12.
224. Examining Communication of Patient Care Information across Shifts in Critical Care Settings. 13th Congress of Asia Pacific Association for Respiratory Care,

- Yokohama, Japan, Sept 11.
225. Safety Management and Education in the ICU, 13th Congress of Asia Pacific Association for Respiratory Care, Yokohama, Japan, Sept 11.
 226. Assessing the Role of Institutional Culture in Designing Safe Hospitals, Designing Better Florida Building Code, Miami Doubletree Hotel, Sept 7.
 227. Designing Team Competencies for Safe Patient Outcomes, National Audio-conference, JCAHO, Oakbrook, IL, August
10.<http://www.jcrinc.com/consulting.asp?durki=10470>
 228. How Reliable is Health Care? *Grand Rounds and Visiting Professor*, Department of Anesthesiology, Duke University, August 3.
 229. The Role of Human Factors and Team Work in Pediatric Cardiac Surgery, *Cardiology/Pediatrics Grand Rounds*, Duke Medical Center, Aug 2.
 230. Team Training, in the Patient Safety Curriculum, Invited talk, Pinhead Institute, Telluride, Colorado, July 20-24.
 231. Barriers to Making Care Safer, invited plenary presentations, Patient Safety in the Perioperative Environment, TATRC/DOD Expert meeting, Maryland, June 20-21.
 232. Safe Hospital Design, Catholic Charity West Executive Meeting, San Francisco, June 3.
 233. Lessons Learned in Patient Safety, *Grand Rounds and Visiting Professor*, Department of Anesthesiology, UCSF Medical Center, San Francisco June 1.
 234. Role of Patient Safety Programs in Reducing Medical Liability, AIG Medical Advisory Board. Boston, MA, May 18.
 235. Principles in Patient Safety. Safety and Quality Course, Memorial Health Care, Savannah, GA, May 13. Developments in Training and Safety, First International Italy-US Scientific Conference, Miami, Fl, May 12.
 236. Reducing Patient Falls. Plenary presentation, VA Patient Safety Conference on Falls and Patients Wandering, Clearwater, May 10.
 237. Patient Safety Legislation: Florida Patient Safety Curriculum, Panel Chair (w/Jay Wolfson, Jeff Gregg), National Patient Safety Foundation Annual Meeting, Orlando, May 6.
 238. Patient Safety Curriculum, Keynote Address, American College of Surgeons-ACGME Joint Conference, ACS, Chicago, IL, May 2.

239. Teams in Hospitilist care. Society of Hospitilists (SHM), Annual Meeting, Chicago, IL, April 30.
240. Advances in Patient Safety, Visiting Professor and Grand Rounds, Department of Anesthesiology, University College London, April 14.
241. Professional Monitoring in Healthcare. Quality Improvement Workshop, 8th European Quality Forum, London, April 15 (with Julie Mohr).
242. Introduction to Patient Safety: An Overview, *Grand Rounds*, University of Miami School of Medicine, Department of Anesthesiology, Miami, FL, March 24.
243. Hospital Design Promoting Patient Safety, panel with Urrea, Carlos, Dickerman, Ken. ASHE PDC Conference, Nashville, TN, March 7-9.
244. Physician's Responsibility - Patient Safety, University of Miami, Scho Alumni Weekend, Children's Research Institute, March 5.
245. Malpractice Prevention: Do Honesty and Disclosure Reduce Liability? Ethics, Law & Medical Liability, University of Miami Ethics Programs, Miami, FL, Jan 19.
246. Establishing A Near Miss Reporting System in Florida, Florida Patient Safety Corporation Board, Ft. Lauderdale, Dec 16.
247. Human Factors on the Cutting Edge: Patient Safety during Pediatric Cardiac Surgery, poster presentation, National Forum on Quality Improvement in Health Care National Forum, Orlando, Florida, December 13.
248. The Role of Team Training, JCAHO Leadership Presentation, Oak Brook, IL, Nov 30.
249. The Role of Quality Improvement Methods, Keynote Address, *Beck Symposium Annual Conference Speaker*, University of Connecticut, CT, Nov 23.

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250. Medical education training that produces safe and reflective practitioners – can it be done? *Grand Rounds*, University of Miami School of Medicine, Department of Medical Education, Miami, FL, Nov 19.
251. Nuclear, Chemical and Biological Hazards: Are You Prepared? Lecture, 55th Annual Refresher Course Lecture and Basic Science Reviews, American Society of Anesthesiologists 2004 Annual Meeting, Las Vegas, NV, October 26.
252. Improving Patient Safety on the Front Lines of Health Care. Institute for Health Care Delivery Research (IHC): Advanced Training Program in Health Care Delivery Improvement, Salt Lake City, October 4.

253. Wrong-side, wrong procedure, and wrong patient errors. Are they preventable? 18th Annual Scientific Meeting: Ophthalmic Anesthesia Society, Chicago, IL, October 3.
254. Translating Research into Practice through Innovative Curricula to Improve Patient Safety, presentation, with Mitchell, Pam, Gosbee, John, and Donaldson, Nancy, AHRQ Making the Health Care System Safer: 3rd Annual Patient Safety Research Conference, Arlington, VA, September 27.
255. Developing diversity responsive policy: Communication about patient safety, poster presentation, with Rodríguez, B. EACH International Conference on Communication in Healthcare 2004 Conference, Belgium, September 14-17.
256. Learning from Patients/Consumers: Hospital Indicators of Quality, poster presentation, EACH International Conference on Communication in Healthcare 2004 Conference, with Rodríguez, B. Belgium, September 14-17.
257. Assessing Consumer Interest in Hospital Quality Indicators: The State of Florida experience. 2nd Asian Network for Quality (ANQ) Congress, Delhi, India, August 16.
258. Applying Lessons from Industrial Quality Improvement to Healthcare, Global Quality Future Workshop (GQFW), Bangalore, India, August 19.
259. Modeling Techniques and Patient Safety, 7th International Conference on Probabilistic Safety Assessment and Management, with Wilwerding, J., White, A., Apostolakis, G., Fillipo, B., & Graham, L., Berlin, Germany, June 14-18.
260. The Role of Patient Safety in Transforming Dade County Health Care, television interview, Cable-Tap, Miami Dade College-North Campus, June 11.
261. Transforming Patient Hand Offs, 1st Annual Hospital and Healthcare Facility Design Workshop, Miami, FL, June 5.
262. Hospital Reporting Cards, Hospital Guide Work Group Meeting, Agency for Health Care Administration, Tallahassee, FL, June 2.
263. Wrong-sided, Wrong patient, Wrong procedure: Are they preventable?, *Grand Rounds*, University of Miami School of Medicine, Department of Orthopedics and Rehabilitation, Miami, FL, May 27.
264. Advancing Pediatric Patient Safety at UM: Opportunities and Challenges, *Grand Rounds*, University of Miami School of Medicine, Department of Pediatrics, Miami, FL, May 18.
265. Should Reporting Systems in Health Care be Compulsory? (presented by Dotan Douglas). TEPR

- 2004 - 20th Annual Conference & Exhibitions, Ft. Lauderdale, FL, May 17-21.
266. Studying Patient Safety: Important Questions and Innovative Research Methods, *Invited Plenary Presentation*, Association of University Anesthesiologists Annual Meeting, Sacramento, CA, May 13-15.
267. Education, Simulation, and Patient Safety, Full day workshop with Hans Flatten, Hans Asbjorn Holm, European Forum, Copenhagen, Denmark, May 12.
268. Using Web-Based Simulation for Patient Safety, Plenary Address, MedBiquitous Consortium Annual Conference, Baltimore, MD, May 10-11.
269. The Role of the Engineering Sciences in Advancing Patient Safety, Speaker, University of Miami College of Engineering, Miami, FL, May 3.
270. Reducing Patient Harm at UM: Challenges and Opportunities, *Grand Rounds*, University of Miami School of Medicine, Department of Anesthesiology, Miami, FL, April 29.
271. A Study on Quality Indicators for Consumer's Use in Selecting Hospitals in Florida., Florida Task Force Meeting, Agency for Health Care Administration, Orlando, FL, April 27.
272. The Role of Boards in Changing Patient Care, with Bill Rutherford, UM Board of Trustees Annual Retreat, Miami, FL, April 23.
273. Safety and Quality: Building Blocks for Professionalism, with Julie Mohr, Advanced Training Program, Institute of Health Corporation, Salt Lake City, UT, April 20.
274. Patient Safety Research Methodologies, Panel talk, "Patient Safety - What Can We Do?" 78th Clinical and Scientific Congress, International Anesthesia Research Society, Tampa, FL, March 28.
275. Patient Safety in Acute Care, *Visiting Professor* and Hospital Ground Rounds, Nagoya Hospital, Japan, March 22.
276. Team Training and Simulation-Lessons to be learned, Keynote Address, National Demonstration Project, Tokyo, Japan, March 21.
277. How to Introduce Patient Safety in the Medical Curriculum, Plenary address, National Demonstration Project, Tokyo, Japan, March 20.
278. Lessons learned from Patient Safety Reporting Systems, *Visiting Professor* and Grand Rounds, Sendai Medical Center and University of Sendai, Japan, March 18.
279. Competency and Assessment – Key to Patient Safety Education, Invited address, American Board of Medical Specialty meeting on Patient Safety Education, Miami, FL, March 11.

280. Feeding Tube Policy and Procedure - Jackson Health System, presentation, Medical Executive Committee Meeting - Feeding Tube Safety Task Force Chair, Miami, FL, March 9.
281. The Science of Training: Patient Safety Curriculum, Plenary speaker, ACGME Annual Conference, Chicago, IL, March 4.
282. Patient Safety and Simulation: Overview and workshop. University of Miami Annual Anesthesia Update, Miami, FL, February 13.
283. Review of Adverse Event Reporting Systems, Expert Meeting on Reporting Systems, Florida Agency for Health Care Conference, Miami Beach, FL, January 10.
284. Health Care Professional Patient Safety Education, Expert Meeting on Health Care Professional Education, Florida Agency for Health Care, Miami Beach, FL, January 8.

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285. The Role of Baldrige and Self Assessment in Patient Safety, Institute for Health Improvement 11th Annual Meeting, With Kate Goonan, Patricia, New Orleans, December 4.
286. New Developments in Patient Safety, *Medical Grand Rounds*, University of Miami-School of Medicine, Miami, FL, November 26.
287. Redesign of Resident and Student Curriculum to Improve Patient Safety and Physician Learning, panel, AAMC meeting, Washington, DC, November 10.
288. Integrating Healthcare Systems to advance Patient Safety, *Grand Rounds* Department of Neurology, University of Miami, Miami, FL, October 31.
289. Preventing wrong-side, wrong patient, and wrong procedures errors: Is “signing your site” enough? Poster presentation, 89th Annual American College of Surgeons Clinical Congress, Chicago, October 19-21.
290. Safety and Quality: Building Blocks for Professionalism, with Julie Mohr, Advanced Training Program, Institute for Health Corporation, Salt Lake City, UT, October 15.
291. Disaster Preparedness: What Every Anesthesiologist Needs to Know, American Society of Anesthesiology Panel, ASA Annual Meeting, San Francisco, CA, October 15.
292. Weapons of Mass Destruction: Update and Review, Refresher Course, American Society of Anesthesia Annual Meeting, San Francisco, CA, October 12.
293. The Role of Microsystems in Design of Safe Patient Care, Invited presentation, 2nd US-UK Patient Safety Meeting, Rockville, MD, September 23-24.
294. Lessons in Design of High Reliability Organizations, *Visiting Professor and Grand Rounds*, Geelong

Hospital, Geelong, Australia, September 1.

295. Patient Safety and Medical Education, Graduate Medical Education Committee, Jackson Memorial Hospital, Miami, FL, August 22.

296. Simulation: Why Organizations are not using it? 8th European Quality Forum, Bergen, Norway, May 15.

297. People and Technology: Avoiding the Collision of Two Cultures, with Julie Mohr, Full day Workshop, 8th European Quality Forum, Bergen, Norway, May 14.

298. Patient Safety Challenges, *Visiting Professor and Grand Rounds*, Haukeland University Hospital, Bergen, Norway, May 13.

299. Medical Education and Patient Safety, Society of Medical Educators, Keynote address, Spring Session, Chicago, IL, April 22.

300. Patient Safety: The Role of the Microsystem, Health Outcomes and the Quality of Medical Care graduate course. Robert Wood Johnson Program, University of Chicago, Chicago, IL, March 11.

301. Patient Safety Workshop, 6th Annual Neurology Retreat. Department of Neurology, Medical College of Wisconsin, Lake Geneva, March 8.

302. Patient Safety Research: Opportunities and Obstacles, General Medicine Research in Progress Meeting. University of Chicago, Chicago, IL, March 7.

303. Designing a Patient Safety Curriculum, ACGME Annual Educational Conference, McCormick Center, Chicago, Chicago, IL, March 5.

304. Designing A National Patient Safety Program, Norwegian Medical Association, Oslo, Norway, February 3.

305. Training and Learning in Health Care, Workshop and *Visiting Professor*, Department of Public Health and Epidemiology, University of Birmingham, England, February 4.

306. Why do organizations ignore patient safety and quality improvement science? *Visiting Professor*, Technion Institute of Technology, Haifa, Israel, January 7.

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307. Evaluation of housestaff and medical student attitudes toward adverse medical events, International Scientific Symposium, Institute for Healthcare Improvement, www.scientificsymposium.org, Orlando, FL, December 9.

308. Using Patient Safety Narratives to Teach Core Competencies, Barach, P. Mohr, J. ACGME meeting on teaching Core Competencies, Orlando, FL, December 7.

http://www.acgme.org/outcome/Powerpoint/Barach_Mohr.ppt.

309. Leadership and Accountability: Enabling Patient Care and Safety: A Look Ahead, Metropolitan, Chicago Hospital Council Conference Center, Chicago, IL October 22.
310. Exploring the interface between humans and technology, Advanced Training Program with Julie Mohr, Salt Lake City, October 4.
311. Assessment of adult learning strategies, Clambake III, Improving Medical Device Safety, Gleacher Center, Chicago, IL, September 21.
312. Training the Trainers, First International Think Tank on Simulation, San Antonio, TX, September 15-17.
313. Iatrogenic Injury Epidemiology, 1st United States/United Kingdom Patient Safety Research Methodology Workshop, Reykjavik, Iceland, September 9.
314. Qualitative Research Methods, United States/United Kingdom Patient Safety Research Methodology Workshop, with Julie Mohr, Reykjavik, Iceland, September 10.
315. Lessons Learned from the Patient Safety Movement, Grand Rounds, *Visiting Professor*, University of Miami, Miami, FL, August 15.
316. New risk management trends in high-risk anesthesia, Michigan Hospital Association Audio Conference, August 1.
317. Teaching Health Professionals to Make Care Safer, Dartmouth Summer Symposium on Training Medical Professionals, with Julie Mohr, July 18.
318. Microsystem Simulation: A Patient Safety Challenge, Workshop, 10th Ottawa Medical Education Conference, Ottawa, Canada, July 13.
319. The Role of a Safety Curriculum: Introduction to third year medical students, Pritzker Medical School, Chicago, IL, June 25, 26.
320. Medication errors, safe medication prescription writing, Housestaff Orientation University of Chicago Hospitals, June 20, 27.
321. International perspectives on patient safety, UK National Patient Safety Agency Conference, (via videoconference) London, June 18.
322. Patient Safety: Are We Making Progress, Grand Rounds and *Visiting Professor*, Department of Anesthesia, University of Pittsburgh, June 13.
323. Lessons learned from the Patient Safety Movement, Patient Safety and Medical Errors: Reporting and Disclosure, Health Policy Institute, Southern Illinois University of Law Giant City State Park, May 30-31.

324. Lessons from the patient safety movement: The end of the beginning? Utstein Symposium on Patient Safety, Simulation and Medical Education in Trauma and Critical Care, Stavanger, Norway, May 21-23.
325. Clinical Performance Student Orientation, Third year medical students' introduction to Standardized Patient examination, Pritzker Medical School, Chicago. IL, April 24.
326. Development of simulation to advance resuscitation and patient safety. Resuscitation and Bioengineering Science, Argonne National Laboratories, Argonne, IL, April 18.
327. Lessons learned from the patient safety movement: The end of the beginning? *Visiting Professor*, The Department of Psychiatry and Surgery Grand Rounds, Syracuse Medical Center, SUNY, NY, April 3.
328. The Role of Simulation in Education and Risk Reduction, Workshop, Department of *Psychiatry and Surgery Grand Rounds*, Syracuse Medical Center, SUNY, NY, April 3.
329. Pediatric Microsystems Simulation, 7th European Forum on Quality Improvement, Edinburgh, Scotland, March 23.
330. Microsystems simulation in Pediatric Care, National Initiative for Children's Healthcare Quality, Phoenix, AZ, March 12.
331. One lung ventilation, Anesthesia Sub-specialty conference, Department of Anesthesia Chicago, IL March 8.
332. Simulation and risk reduction in patient safety, Metropolitan Chicago Healthcare Council, Chicago, IL, March 1.
333. The value of collecting near misses, *Grand Rounds* presentation, Department of Anesthesia, University of Chicago, February 13.
334. The Role of Simulations and Medical Education, Presentation and Workshop coordinator, First Anesthesia Resident Airway Management Training Course, Chicago, IL, January 26.

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335. Privacy and Confidentiality of National Outcome Databases, Committee on Outcomes Management, American Society of Anesthesiologists, New Orleans, December 19.
336. Microsystems: A patient safety perspective: Presentation and Workshop, 13th Annual National Forum, Institute for Health Improvement, Orlando, FL, December 9.
337. The New Frontiers of Patient Safety, 15th Annual Challenges for Clinicians in the new Millennium, Drake Hotel, University of Chicago, IL, November 30.

338. Patient Safety in Anesthesia: New Developments, *Visiting Professor and Grand Rounds*, Department of Anesthesia Tel Hashomer Hospital, Tel Aviv, Israel, November 15.
339. The Role of Pharmacists in leading the safety revolution. Annual Pharmacy Week, University of Chicago, Chicago, October 22.
340. New Frontiers of Patient Safety, University of Chicago Council of Biological Sciences Division, Chicago, November 9.
341. How to create effective near miss and adverse event reporting systems, Panel moderator and speaker, American Society of Anesthesiologists meeting, New Orleans, October 17.
342. Process innovation that reduces patient harm, Panel moderator and speaker, The Partnership Symposium 2001 Patient Safety—Stories for Success, Dallas, TX, October 12.
343. Patient Safety Briefing, University of Chicago Hospitals Board of Trustees Patient Care Committee, Chicago, IL, October 4.
344. Patient Safety Challenges, plenary speaker, University of Chicago Hospitals Leadership Retreat Navy Pier Conference Center, Chicago, IL, August 23.
345. Medical Error Detection: From near misses to sentinel event, National interactive audio-conference, Chicago, IL, August 16.
346. Patient Safety: The New Frontier, Medical Student orientation, Pritzker School of Medicine, University of Chicago, June 26-27.
347. Safety Principles for Practicing Clinicians, Part II, Risk Management series, University of Chicago, June 26.
348. Safety Principles for Practicing Clinicians, Part I, Risk Management series, University of Chicago, June 20.
349. Integrating patient perspectives into the quality improvement process, Grand Rounds, Department of Anesthesia, University of Chicago, June 21.
350. Introduction to Patient Safety Issues, Plenary speaker, Prevention and Treatment of Complications in Hyperbaric Medicine, Undersea and Hyperbaric Medicine Society Annual Meeting, San Antonio, TX, June 13.
351. Emerging issues in patient safety. Beyond state reporting: Brushing up on issues related to medical errors and patient safety, AHRQ/User Liaison Program, Nashville, TN, June 8.
352. Patient Safety: The New Frontier, *Visiting Professor and Grand Rounds*, St. John Regional Hospital, New

Brunswick, Canada, May 29.

353. Patient Safety and Health Administration, Health Administration Program, University of Toronto, Canada, May 28.

354. The Role of Simulation and Patient Safety in the New Millennium, Chair and speaker, International Trauma and Critical Care Society 13th Annual Meeting, San Diego, May 18.

355. How to Develop and Run an Incident Reporting System, 2001 ICSI/IHI Colloquium on Clinical Quality Improvement, Minneapolis, MN, May 17.

356. The Future of Patient Safety, Quad City Medical Society, Invited Speaker, Annual meeting, May 8.

357. Patient Safety: New Perspectives, *Trinity Medical Center Grand Rounds*, Rock Island, IL, May 8.

358. Is night shift work killing you? Society for Academic Emergency Medicine, Atlanta, GA, May 6.

359. The role of simulation in medical education, Chair and organizer of National Simulation Day, University of Chicago, IL, April 30.

360. Overview of Incident Reporting Systems, *Grand Rounds*, Children's Hospital, Minneapolis, MN, April 18.

361. The role of safety in quality improvement, *Visiting Professor and Grand Rounds*, University of Amsterdam, Holland, April 13.

362. International perspectives on patient safety, *Visiting Professor*, Eindhoven University, Holland, April 12.

363. Is patient safety a public health problem? *Visiting Professor*, School of Public Health and Policy, University of North Carolina, April 2.

364. Quality improvement and patient safety: Can they go together?, Advanced Training Program, Intermountain HealthCare, Salt Lake City, UT, March 20.

365. How to create adverse event reporting system, Grand Rounds, Children's Hospital, Minneapolis, MN, February 27.

366. What is the data for patient safety policy? Patient Safety Conference, presenter, Midwestern Clinical Conference, Navy Pier, February 22.

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367. Simulation for Education and Teaching, 12th Annual Forum, Institute for Healthcare Improvement, San Francisco, December 7.

368. Improving ambulatory patient safety: Research and Strategies, Ambulatory Patient Safety Conference, Chicago, December 1.

369. How to improve patient safety?, Grand Rounds, *Visiting Professor*, Royal Adelaide Hospital, Adelaide, Australia, November 27.
370. International perspectives on improving the care of patients, *Grand Rounds, Visiting Professor*, Rogaland Hospital, Stavanger, Norway, November 3.
371. New tools in Safety, *Visiting Professor* and Grand Rounds, Rigs Hospital, University of Copenhagen, Denmark, November 2.
372. Introducing a Patient Safety Curriculum for Housestaff and Medical Students, panel, American Association of Medical Colleges, Chicago, October 30.
373. Incident reporting, close calls and early reporting systems, moderator and panelist, “Building Systems that do no Harm”, International Patient Safety meeting, Dallas, June 28-30.
374. How to create safe and effective near miss reporting systems, Dana Farber Cancer Institute executive leadership meeting, Boston, June 5.
375. Medical Errors and Near misses: How can we track them? American Medical Association Science Forum on Patient Safety, Chicago, IL Coordinator and presenter, June 10.
376. Trauma Resuscitation, Harvard Anesthesia Annual Review Course, Boston Copley, May 22.
377. Applying teamwork simulation techniques to improve health care quality and safety, Institute for Clinical Systems Integration, Colloquium on Quality Improvement, St. Paul, MN, May 11.
378. Performance measures and expertise, Simulation workshop and chair of panel, 13th Annual International Trauma Anesthesia and Critical Care Society, Mainz, May 4-6.
379. Barriers to effective reporting systems, YPO Healthcare Forum Meeting, Westin Hotel, Washington, DC, April 4.
380. Understanding the incentives and barriers to error reporting, Patient Safety Leadership Forum, Massachusetts Medical Society, Waltham, MA, March 30.
381. Overview of Patient Safety, Massachusetts Medical Society Meeting, Organizer and Speaker, Chicago, March 17.

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382. Simulation techniques for enhancing complex problem solving and predicting individual and team performance, Full day workshop, 11th Annual National Forum on Quality Improvement of Health Care, New Orleans, December 7.
383. Stress in Residency, Massachusetts Medical Society Caregivers Forum, Waltham, MA, November 4.

384. Patient Safety Poster Discussion and Moderation. American Society of Anesthesiology Annual Meeting, Dallas, October 13.
385. Creating a Culture of Safety: A Leadership Forum on Patient Safety, Session moderator and panelist, Massachusetts Medical Society, Waltham, MA, July 8.
386. Privacy and Confidentiality-National Overview, testimony to Massachusetts House Care Committee on Health, State House, Boston, MA, May 13.
387. In Hospital Resuscitation: Team training using simulation, Society for Education in Anesthesia, Rochester, NY, June 5.
388. Education in Simulation, Presentation and Panel Chair, 12th Annual International Trauma Anesthesia and Critical Care Society, Chicago, May 15.
389. Trauma care for battlefield casualties, Trauma Anesthesia and Critical Care Society, Cape Cod, MA, July 19-22.
390. Modeling Performance of in-hospital resuscitation teams: A field and realistic simulator study, 11th Annual International Trauma Anesthesia and Critical Care Society, Vienna, Austria, May 22.
391. The Utility and Risks of Left Arterial lines, Cardiac Surgery Ground Rounds, Massachusetts General Hospital, March 16.
392. Management of cervical injuries in the multi-trauma patient, Grand Rounds, Department of Anesthesia, Massachusetts General Hospital, April 18.

1998 and earlier

394. The increased road toll of raised speed limits, 6th International Symposium on Road Safety, Tel Aviv, Israel, (presented by Dr. Eli Richter), April 6-9, 1996.
395. Are we doing enough to save the Brain?: Diagnosis and Management, Trauma Grand Rounds, Brockton Hospital, October 24, 1995
396. Environmental and Occupational Dangers-Heat Stress in Field Workers, National Safety Workshop, Hebrew University, Jerusalem, June 28, 1994.
397. Road Safety and The Impact of Raised Speed Limits, National Road Safety Conference, Jerusalem, June 13, 1994.

MEDIA

Nearly 100 media stories in print, electronic, tv and radio in past 20 years.

Some examples below:

1. The Health Report, With Norman Swan, November 15, 2010

<http://www.abc.net.au/rn/healthreport/stories/2010/3064977.htm>

2. ABC Radio, Late Night Show, with host Norman Swan, Richard DeCrispny, Paul Barach, Sydney,

August 16, 2012 <http://www.abc.net.au/radionational/programs/latenightlive/qf32/4190438>

3. ABC Radio, With Norman Swan Health Report, What the Healthcare Industry can learn from aviation, Sept 24, 2018.

<https://www.abc.net.au/radionational/programs/healthreport/what-the-healthcare-industry-can-learn-from-aviation/10265132> - <https://www.abc.net.au/radionational/programs/healthreport/what-the-healthcare-industry-can-learn-from-aviation/10265132>

4. The Oprah Show, April 2004, <http://www.youtube.com/watch?v=Un3KGZf2JnE&feature=related>

http://www.oprah.com/tows/slide/200310/20031003/tows_slide_20031003_05.jhtml