



## DR. ANJALI JOSEPH

*Spartanburg Regional  
Healthcare System Endowed  
Chair in Architecture + Health  
Design*

Director,  
*Center for Health Facilities  
Design and Testing*

Professor,  
*School of Architecture*

Adjunct Associate Professor,  
*Department of Public Health  
Sciences*

Faculty Scholar, Clemson  
University School of Health  
Research (CUSHR)

2-141, Lee Hall,  
Clemson University,  
Clemson SC 29634  
Email: anjalij@clemson.edu

## EDUCATION



2001-2006

### Ph.D. in Architecture

Georgia Institute of Technology, Atlanta, GA  
Major Area of Study: Architecture, Culture and Behavior  
Minor Area of Study: Health Systems  
Dissertation: *Where Older Adults Walk: Assessing the Relationship Between Physical Environmental Factors and Walking Behavior of Older Adults*

1999-2001

### Master of Architecture

Kansas State University, Manhattan, KS  
Major area of focus: Environment and Behavior Studies  
Thesis: *Developing Therapeutic Criteria for Designing Environments for People with AIDS*

1994-1999

### Bachelor of Architecture

School of Planning and Architecture, New Delhi, India

## PROFESSIONAL EXPERIENCE



2015-present

### Spartanburg Regional Healthcare System Endowed Chair in Architecture + Health Design

Director of Center for Health Facilities Design and Testing  
Professor of Architecture  
Adjunct Associate Professor, Public Health Sciences  
Faculty Scholar, Clemson University School of Health Research  
Clemson University

2013-2014

### Director of Grants and Research Advisory Services,

The Center for Health Design

2012-2013

### Vice President, Director of Research,

The Center for Health Design

2005-2012

### Director of Research,

The Center for Health Design

2003

### Research intern,

Anshen + Allen Architects

1997

### Intern Architect,

Upal Ghosh and Associates, New Delhi, India

## AWARDS AND RECOGNITION



2019

Received the Human Factors and Ergonomics Society's 2018 best paper award for article "Using an integrative mock-up simulation approach for evidence-based evaluation of operating room design prototypes."

2018

Awarded Clemson University Board of Trustees Faculty Award for Excellence

2018

Recognized as Researcher of 2018 as part of the HCD 10, awarded to one standout individual in each of 10 categories in the healthcare design field by the Healthcare Design Magazine

2018

Journal of Interior Design Excellence in Scholarship Award at the Interior Design Educator's Council for paper

2017

Healthcare Environments Award in conceptual category for RIPCHD.OR from The Center for Health Design

2017

Gold Level EBD Touchstone Award in Conceptual Category for RIPCHD.OR from The Center for Health Design

2017

Recognized as Chartered Fellow Member of the Chartered Association of Building Engineers (CABE)

2016

Recognized as 'Professor of the game' at the Clemson-NC State football game at Clemson University

2016

Recognized at end of year Clemson University Faculty meeting for receiving large grant award in the College of Architecture, Arts and Humanities

2014

CHD received EDRA Organizational Award for Excellence in Design Research, Education and Application

2011

Voted among the top 25 most influential people by Healthcare Design Magazine

2010

Voted among the top 25 most influential people by Healthcare Design Magazine

2006

Received ARCC King Student Medal for Excellence in Architectural + Environmental Research for Ph.D. Dissertation

2004-05

Awarded Active Living Research Dissertation Grant

## ACADEMIC EXPERIENCE



- **2018-Present** Professor, School of Architecture, Clemson University  
Associate Professor, Public Health Sciences, Clemson University (secondary appointment)
- **2016** Faculty Scholar, Clemson University School of Health Research
- **2015** Spartanburg Regional Health System Endowed Chair in Architecture + Health Design
- **2015** Director, Center for Health Facilities Design and Testing  
Associate Professor, School of Architecture, Clemson University
- **2014** Invited Lecturer, Evidence Based Design – Research to Practice, University of Northern Iowa
- **2013** Invited Lecturer, Evidence Based Design – Research to Practice, Kent State University
- **2005, Spring** Studio Instructor, Common Freshman Year, Georgia Institute of Technology
- **2003-2004** Research Assistant to Dr. Craig Zimring, Georgia Institute of Technology, Comprehensive literature review on the impact of healthcare environments on patients and staff
- **2002-2003** Research Assistant to Dr. Craig Zimring Georgia Institute of Technology  
Active Living by Design: Creating Activity-Enhancing Residential Settings for Seniors
- **2001-2002** Research Assistant to Dr. Craig Zimring Georgia Institute of Technology  
Creating a comprehensive database and web site for Federal Courthouses
- **1999-2001** Graduate Teaching Assistant in Structural Mechanics, Kansas State University

## TEACHING



- **2015-2020** ARCH 8650: Topics in Health Policy, Planning and Administration  
**Spring**
- **2015, Fall** PDBE 8050: Advanced Readings in Architecture and Health  
**2016, Spring**  
**2016, Fall**  
**2017, Spring**
- **2016, Fall** ARCH 8900 001 (Special topics seminar on OR)
- **2016, Spring** ARCH 6990: Independent studies

## ADVISING



- **Ph.D Students (graduated)**  
Deborah Wingler  
Herminia Machry
- **Ph.D Students (current)**  
Roxana Jafari  
Rutali Joshi  
Seyedmohammad Ahmadshahi
- **M.Arch Thesis Committee member (graduated)**  
Emily McGowan
- **M.Arch Thesis Committee chair (graduated)**  
Rutali Joshi
- **MS Arch Thesis Committee member (graduated)**  
Tatiana Epimakhova

## STUDENT AWARDS



- 2019 Doctoral student Roxana Jafarifiroozabadi awarded 2nd place at Clemson University in the 3MT (3-minute thesis) competition
- 2019 Doctoral student Herminia Machry awarded 1st place - GRAD Research Symposium Poster Competition; Clemson University
- 2019 Doctoral student Rutali Joshi awarded 2nd Place -GRAD Research Symposium Poster Competition; Clemson University
- 2019 Doctoral student Herminia Machry awarded AIA AIA Arthur N. Tuttle Jr. Graduate Fellowship in Health Facility Planning and Design
- 2018 Doctoral student Deborah Wingler awarded the Frankie O. Felder Graduate Student Award
- 2018 Doctoral student Rutali Joshi awarded 3rd place in the Graduate Research and Discovery Symposium (GRADS) 2018 poster competition- "Perception versus potential of functionality of corridors".
- 2017 Doctoral student Deborah Wingler awarded New Investigator Award from the Center for Health Design for her dissertation study
- 2017 Doctoral student Deborah Wingler awarded American Association of Healthcare Interior Designers (AAHID) Graduate Research Fellowship for her dissertation
- 2017 Doctoral student Deborah Wingler awarded Doctoral Dissertation completion grant from Clemson University
- 2017 MS Architecture student Rutali Joshi awarded 2nd Place -GRAD Research Symposium Poster Competition; Clemson University
- 2017 MS Architecture student Rutali Joshi awarded 3rd Place- 3-Minute Graduate Thesis Competition; Clemson University



## RESEARCH EXPERIENCE

- 2020-2021 **Principal Investigator, Studying the Impact of Daylight and Daylight Control on Patient Outcomes.**  
The purpose of this project is to study the impact of daylight and daylight control on patients in a post-surgical unit.  
Sponsor: View, Inc.  
Budget: \$54,718  
Collaborators: View, Inc. and HKS Architects, Inc.
- 2020-2021 **Principal Investigator, Conducting a Systems Evaluation of a Pediatric Intensive Care Unit Room.**  
The purpose of this project is to evaluate videos of three different simulation scenarios conducted in a pediatric ICU to identify key built environment challenges.  
Sponsor: Children's Healthcare of Atlanta/Emory University  
Budget: \$5,000  
Collaborator: Children's Healthcare of Atlanta/ Emory University
- 2018-2022 **Co-investigator, (PI: Catchpole, Abernathy, Neyens). Patient Safety Learning Lab (PSLL): Identifying and Reducing Errors in Perioperative Anesthesia Medication Delivery (OR SMART) (1 R18 HS026625-01).**  
The major goal of this project is to engineer reductions in anesthesia medication errors in operating rooms.  
Sponsor: Agency for Healthcare Research and Quality (AHRQ)  
Budget: \$2.5M  
Collaborators: Medical University of South Carolina, Johns Hopkins University, Clemson University
- 2019-2020 **Co-investigator (PI: Madathil). Human Factors Considerations in the Design and Implementation of Telemedicine-Integrated Ambulance-based Environments for Stroke care (R03 HS026809-01)**  
Sponsor: Agency for Healthcare Research and Quality (AHRQ)  
Budget: \$100,000  
Collaborators: Clemson University, Medical University of South Carolina
- 2019-2020 **Principal Investigator, Situational Awareness in the Emergency Department: The role of the built environment during handoffs**  
Sponsor: Richard H. Pennell Sr. Center for Research in Design and Building, Clemson University  
Budget: \$24,904  
Collaborators: Rutali Joshi (Pennell scholar), Prisma Health

- 2019-2020**      **Principal Investigator, Developing a technology-based intervention to assess the home and community environment to prevent falls in the home and support aging in place**  
 Sponsor: Faculty Research Development Program (FRDP), College of Architecture, Arts and Humanities  
 Budget: \$20,000  
 Collaborators: Clemson University, Prisma Health
- 2015-2019**      **Principal Investigator, Learning Lab Director, Realizing Improved Patient Care through Human Centered Design in the OR (RIPCHD.OR) (P30 HS24380-01).**  
 The purpose of this 4-year project is to develop ergonomic and safe operating room design that impact patient safety outcomes such as surgical site infections and medical errors.  
 Sponsor: Agency for Healthcare Research and Quality (AHRQ)  
 Budget: \$4 million  
 Collaborators: Medical University of South Carolina (MUSC) and Health Sciences South Carolina (HSSC)
- 2015-2019**      **Principal Investigator, Design of Healthcare Spaces and Products of the Future.**  
 The purpose of this project is to develop innovative concepts and design solutions to support collaboration in ambulatory care workspaces of the future.  
 Gift sponsor: Haworth (via Watt Family Innovation Center)  
 Budget: \$415,000  
 Collaborator: Materials Sciences, Clemson University
- 2017**            **Principal Investigator: Literature Review on Patient-Provider Communication and the Role of the Built Environment.**  
 The purpose of this project is to conduct an indepth literature review on the role of the built environment in supporting patient-provider communication in outpatient environments.  
 Sponsor: Steelcase Health  
 Budget: \$13,874
- 2015-2016**      **Principal Investigator, Literature Review: Impact of Light on Health Outcomes.**  
 The purpose of the project is to synthesize the peer reviewed literature linking lighting and daylight with outcomes in healthcare settings.  
 Sponsor: Battelle in operation of Pacific Northwest National Laboratories (PNNL)  
 Budget: \$31,999
- 2015-2017**      **Consultant, Disseminating a web-enabled Safety Risk Assessment (SRA) toolkit for designing safer healthcare facilities.**  
 The purpose of this project is to develop a web-enabled interface for a proactive design safety risk assessment tool.  
 Sponsor: Agency for Healthcare Research and Quality (AHRQ)  
 Collaborators: The Center for Health Design (PI), National Center for Human Factors in Healthcare (NCHFH), Graybox
- 2012-2015**      **Principal Investigator, Developing and Disseminating a Safety Risk Assessment (SRA) Toolkit for Integrating Safety in the Healthcare Facility Design Process.**  
 This three-year (2012 - 2015) research project aimed to develop an online tool that will enable facility design stakeholders to implement the safety risk assessment (SRA) outlined in the FGI 2014 Guidelines for Design and Construction of Healthcare Facilities. Three multi-disciplinary seminars were organized to achieve grant objectives.  
 Collaborators: Medstar Institute for Innovation (MI2), Kaiser Permanente, the Innovation Learning Network (ILN) and the American Society for Healthcare Engineers (ASHE). The project involved extensive collaboration with a multidisciplinary group of industry experts.  
 Sponsors: Agency for Healthcare Research and Quality (AHRQ) and Facility Guidelines Institute (FGI)  
 Budget: \$300,000
- 2012-2015**      **Principal Investigator, Developing a Patient Room Interior Design Checklist and Evaluation Tool.**  
 This project aimed to develop over the course of three years an evidence-based patient room interior design checklist and evaluation tool for three types of patient rooms - medical surgical, intensive care and labor and delivery.  
 Sponsor: American Society for Interior Designers (ASID)  
 Budget: \$100,000

- 2014**      **Research Consultant, Identifying drivers of bed capacity at Parkview Regional Medical Center, Fort Wayne, Indiana.**  
The purpose of this three-phase project is to identify the drivers of bed capacity at PRMC and based on the findings develop a predictive model for forecasting bed capacity at PRMC. Role included literature reviews, developing interview protocols and conducting interviews with stakeholders at PRMC  
Project Sponsor: Parkview Regional Medical Center, Fort Wayne, IN  
Collaborator: hMetrix
- 2014**      **Director, Research Advisory Services.**  
Developed and launched The Center for Health Design's Research Advisory Services. This program provides research consulting services including research support, whitepapers and tool applications to the healthcare design industry.
- 2012-2014**      **Principal Investigator, Impact of Positive Distractions in X-ray Rooms on Patient and Parent Outcomes at Nemours Children's Hospital, Florida.**  
This experimental study evaluated three different types of x-ray environments for their impacts on patient distress and parent satisfaction.  
Collaborator: Nemours Children's Hospital, Florida, Shireen Kanakri, Texas A&M University  
Sponsor: Philips Healthcare  
Budget: \$91,548
- 2006-2013**      **Research Coalition (RC) member, CHD Research team representative and voting member on the Research Coalition (A group of industry volunteers that support CHD's research objectives).** Responsibilities included developing a research agenda for the RC, coordinating with RC co-chairs, developing and managing an RFP process for funding research and supporting development of projects initiated by RC members
- 2005-2013**      **Research leader, *The Pebble Project*.**  
Through the Pebble Project (an international initiative for organizations pursuing an evidence-based design process), Dr. Joseph has collaborated extensively with more than 30 organizations across the United States, Canada and United Kingdom to facilitate the translation of design ideas into research questions and studies. Dr. Joseph also worked with team members to develop tools and resources for Pebble Partners including Pebble whitepapers and a Pebble Acute Care Post-Occupancy Evaluation Tool. She has co-authored several articles in conjunction with Pebble Partner organizations.
- 2012-**      **Project leader, Knowledge Repository.**  
Dr. Joseph conceived the idea and led the development of an online database of references and article summaries of peer reviewed articles published in the evidence-based design field. Currently, the repository houses around 3500 references and 600 key point summaries. Web address: <http://www.healthdesign.org/search/articles>  
Sponsors/Collaborators: American Institute of Architects Academy of Architecture for Health (AIA AAH), Facility Guidelines Institute (FGI), American Society for Healthcare Engineering (ASHE), Nursing Institute for Healthcare Design (NIHD) and Research Design Connections.  
Budget: \$150,000
- 2012-2014**      **Principal Investigator: Developing Evidence Based Design Resources for Residential Care Settings.** This project involved conducting a systematic review of the literature on the impact of residential care built environments on patients, staff and families, developing conceptual models demonstrating relationships identified through the review and developing key point summaries for articles found through the review.  
Sponsor: Hulda B. and Maurice Rothschild Foundation  
Budget: \$50,000
- 2009-2012**      **Principal Investigator, Community Health Center Design.**  
The Center has developed white papers on several design-related topics, a Clinic Design website, a cost-benefit tool, an online design and construction manual, an online Post Occupancy Evaluation Tool and a series of five national seminars to assist those involved with the design of Community Health Centers for underserved populations. Web address: <http://www.healthdesign.org/clinic-design>  
Collaborators: Primary Care Development Corporation (PCDC), Community Health Association of Mountain/Plain States (CHAMPS), IFF  
Sponsors: Kresge Foundation, California HealthCare Foundation (CHCF)  
Budget: \$500,000

- 2010-2011**      **Principal Investigator, Developing a Resident Safety Risk Assessment Framework**  
 This project involved developing a safety risk assessment framework for residential care settings based on a literature review.  
 Sponsor: Hulda B. and Maurice Rothschild Foundation  
 Budget: \$25,000
- 2010**            **Research Consultant, Razi Health Clinics Post Occupancy Evaluation.**  
 This involved conducting a post occupancy evaluation at 8 clinics for Razi Healthcare in Hyderabad, India. The project involved developing tools, on-site POEs and interviews.  
 Sponsor: Architecture for Humanity  
 Budget: \$15,000
- 2010-2011**      **Principal Investigator, Designing for Patient Safety: Developing methods to integrate patient safety concerns into the facility design process.**  
 The two-day workshop focused on how varied industries incorporate safety into design through tools and processes. The findings were used to guide amended language for the Safety Risk Assessment in the 2014 Guidelines.  
 Collaborators: Facility Guidelines Institute, Virtua Health  
 Sponsor: Agency for Healthcare Research and Quality (AHRQ)  
 Budget: \$50,000
- 2010-2011**      **Principal Investigator, Green Cleaning in Healthcare.**  
 This project involved a) establishing a conceptual framework for green cleaning through literature review, b) conducting case study interviews with representatives from five major healthcare facilities, and c) conducting an online questionnaire survey of high-priority research questions around green cleaning.  
 Sponsor: Healthier Hospital Initiatives and Healthcare Without Harm  
 Budget: \$40,000
- 2008-2010**      **Principal Investigator, An Open Source Searchable Database to Assess the Impact of Environmental Strategies on Outcomes in Healthcare).**  
 The goal of the project was to develop an open source database and content linking sustainable healthcare design strategies with healthcare outcomes. The database and website called RIPPLE included information on design strategies and outcomes from five healthcare facilities in the area of environmental safety.  
 Collaborators: Affinity Health, Jersey Shore University Medical Center, Advocate Lutheran General Hospital, St. Alphonsus Regional Medical Center, Dublin Methodist Hospital  
 Sponsor: U.S. Green Building Council  
 Budget: \$149,796
- 2010**            **Principal Investigator, Literature Review on Telemetry Environments**  
 Sponsor: Philips Healthcare  
 Budget: \$20,000
- 2009-2010**      **Project Leader (CHD), Developing an Aesthetics Index for the US Army Medical Command (CHD subcontract \$33,500).**  
 CHD conducted a literature review to define the characteristics of facility 'aesthetics' that may be quantifiable.  
 Collaborators: The Innova Group (primary government contractor)  
 Sponsor: US Army Medical Command
- 2009-2010**      **Principal Investigator, Patient Experience in MRI Environments.**  
 This study evaluated the impact of positive distractions on patient experience in two MRI rooms in a hospital radiology department.  
 Sponsor: Philips Healthcare  
 Budget: \$76,000
- 2008-2010**      **Principal Investigator, EBD Industry Survey.**  
 An annual survey was developed and conducted in 2009 and 2010 among industry stakeholders to evaluate perceptions and awareness of Evidence-Based Design in the industry.  
 Sponsor: Herman Miller  
 Budget: \$75,000

- 2008-2009 **Principal Investigator, Impact of Philips Ambient Experience on Staff Experience and Satisfaction.** This study evaluated the effect of positive distractions on staff experience in MRI and CT rooms using a survey.  
Sponsor: Philips Healthcare  
Budget: \$63,300
- 2008-2009 **Project Leader (CHD), Safety and Quality in Healthcare: A Framework for Evaluating Evidence-Based Design. (CHD subcontract \$81,020).**  
The AHRQ-funded project considered how organizations find, evaluate and use evidence during varied phases of their design process and resulted in an informational guide for C-Suite executives.  
Collaborators, Battelle, Manila Institute  
Sponsor: Agency for Healthcare Research and Quality
- 2008 **Principal Investigator, Conducting a Research Workshop to Identify Research Opportunities for Philips Healthcare Ambient Experience Solutions**  
Sponsor: Philips Healthcare  
Budget: \$35,820
- 2007-2008 **Principal Investigator, Evidence for Innovation: Transforming Children's Healthcare through the Physical Environment.**  
The project focused on developing a book compiling multiple resources – literature review, best practices and business case - around designing pediatric environments.  
Collaborators: National Association of Children's Hospitals and Related Institutions (NACHRI), Blair Sadler  
Sponsor: NACHRI
- 2006-2007 **Principal Investigator, Literature review on Long-Term Care Environments**  
Sponsor: Laguna Honda Foundation through the California HealthCare Foundation
- 2005-2006 **Research lead, Developing Whitepapers for Evidence Based Design.**  
Authored whitepapers on high priority topics in EBD.  
Sponsor: Robert Wood Johnson Foundation
- 2005-2006 **Project lead, Dissertation grant, Active Living by Design: Creating Activity-Enhancing Residential Settings for Seniors.**  
Sponsor: Active Living Research Foundation  
Budget: \$10,000
- 2003-2004 **Research Assistant to Dr. Craig Zimring, Georgia Institute of Technology, Comprehensive Literature Review on the Impact of Healthcare Environments on Patients and Staff.**  
Key researcher conducting the literature review, analysis and write up for the Georgia Tech team.  
Collaborators: Texas A&M University, Georgia Tech.  
Sponsor: Robert Wood Johnson Foundation
- 2002-2003 **Research Assistant to Dr. Craig Zimring Georgia Institute of Technology Active Living by Design: Creating Activity-Enhancing Residential Settings for Seniors.**  
Key researcher involved in proposal development, survey development, analysis and writing.  
Collaborators: American Association of Homes and Services for the Aging, Dr. Ruth Dalton (Georgia Tech PI)  
Sponsor: Robert Wood Johnson Foundation
- 2001-2002 **Research Assistant to Dr. Craig Zimring, Georgia Institute of Technology Creating a Comprehensive Database and Web Site of Federal Courts.**  
Participated in Courthouse POEs and helped developed database for Courthouse website.  
Sponsor: US. General Services Administration



## MEMBERSHIPS

- 2016-2017 Member of Human Factors and Engineering Society (HFES)
- 2017- Chartered Fellow Member of the Chartered Association of Building Engineers
- 2015-2017 CHD Affiliate+ Member
- 2010-2017 Member, EDRA
- 2003-2006 Student member, EDRA



## SELECTED PRESENTATIONS AND PUBLICATIONS

PEER REVIEWED PUBLICATIONS  
ACCEPTED FOR PUBLICATION

1. **Joseph, A.**, Browning, M. H., & Jiang, S. (2020). Using Immersive Virtual Environments (IVEs) to conduct Environmental Design Research: A Primer and Decision Framework HERD: Health Environments Research & Design Journal.
2. Jafarifiroozabadi, R., **Joseph, A.**, Joshi, R., & Wingler, D. (2020). Evaluating care-partner preferences for seating in an outpatient surgery waiting area using virtual reality. HERD: Health Environments Research & Design Journal.
3. Machry, H., **Joseph, A.**, & Wingler, D. (2020). The Fit between Spatial Configuration and Idealized Flows: A Flow Mapping Toolkit to Inform Healthcare Design Practice. HERD: Health Environments Research & Design Journal.
4. **Joseph, A.**, Reid, J. & Kearney, J. Planning patient care areas. Book chapter accepted for Textbook on Simulation in Healthcare. Editors – Ellen Deutsch, Shawna Perry & Harshad Gurnaney

PUBLISHED

1. Taaffe, K., **Joseph, A.**, Khoshkenar, A., Machry, H., Allison, D., & Reeves, S. T. (2020). Proactive Evaluation of an Operating Room Prototype: A Simulation-Based Modeling Approach. J Patient Saf. doi:10.1097/pts.0000000000000693
2. Wingler, D., **Joseph, A.**, Bayramzadeh, S., & Robb, A. (2020). Using Virtual Reality to Compare Design Alternatives Using Subjective and Objective Evaluation Methods. HERD, 13(1), 129-144. doi:10.1177/1937586719851266
3. **Joseph, A.**, Henriksen, K., & Malone, E. (2018). The Architecture Of Safety: An Emerging Priority For Improving Patient Safety. Health Affairs, 37(11), 1884-1891. doi:10.1377/hlthaff.2018.0643
4. **Joseph, A.**, Khoshkenar, A., Taaffe, K. M., Catchpole, K., Machry, H., & Bayramzadeh, S. (2018). Minor flow disruptions, traffic-related factors and their effect on major flow disruptions in the operating room. BMJ Quality & Safety. doi:10.1136/bmjqs-2018-007957
5. Mousavi, E. S., Jafarifiroozabadi, R., Bayramzadeh, S., **Joseph, A.**, & San, D. (2018). An observational study of door motion in operating rooms. Building and Environment, 144, 502-507. doi:https://doi.org/10.1016/j.buildenv.2018.08.052
6. Wingler, D., Machry, H., Bayramzadeh, S., **Joseph, A.**, & Allison, D. (2018). Comparing the Effectiveness of Four Different Design Media in Communicating Desired Performance Outcomes With Clinical End Users. HERD, 1937586718796626. doi:10.1177/1937586718796626
7. Bayramzadeh, S., **Joseph, A.**, Allison, D., Shultz, J., & Abernathy, J. (2018). Using an integrative mock-up simulation approach for evidence-based evaluation of operating room design prototypes. Applied Ergonomics, 70, 288-299. doi:https://doi.org/10.1016/j.apergo.2018.03.011 (Received Human Factors and Ergonomics Society's 2018 best paper award)
8. Bayramzadeh, S., **Joseph, A.**, San, D., Khoshkenar, A., Taaffe, K., Jafarifiroozabadi, R., Neyens, D., & RIPCHD.OR Study Group. (2018, January). The impact of operating room layout on circulating nurse's work patterns and workflow disruptions: A behavioral mapping study. Health Environments Research & Design Journal. doi: 10.1177/1937586717751124. PMID: 29355033
9. Neyens, D.M., Bayramzadeh, S., Catchpole, K., **Joseph, A.**, Taaffe, K., Jurewicz, K., Khoshkenar, A., San, D., & RIPCHD.OR Study Group. (2018, March 30). Using a systems approach to evaluate a circulating nurse's work patterns and workflow disruptions. Applied Ergonomics. pii: S0003-6870(18)30078-4. doi: 10.1016/j.apergo.2018.03.017. PMID: 29609835
10. Catchpole, K., Neyens, D. M., Abernathy, J., Allison, D., **Joseph, A.**, & Reeves, S. T. (2017). Framework for direct observation of performance and safety in healthcare. BMJ Quality & Safety. doi:10.1136/bmjqs-2016-006407
11. **Joseph, A.**, Bayramzadeh S, Zamani Z, Rostenberg B. (2017) Safety, Performance, and Satisfaction Outcomes in the Operating Room: A Literature Review. HERD. :1937586717705107.
12. **Joseph, A.**, Wingler, D., & Zamani, Z. (2017). Balancing the Human Touch with the Need for Integrating Technology in Ambulatory Surgical Environments: Barriers and Facilitators to Nursing Work and Care Team Interactions. Journal of Interior Design, n/a-n/a. doi:10.1111/joid.12089
13. Quan, X., **Joseph, A.**, & Nanda, U. (2017). Developing Evidence-based Tools for Designing and Evaluating Hospital Inpatient Rooms. Journal of Interior Design, n/a-n/a. doi:10.1111/joid.12091 (Journal of Interior Design Excellence in Scholarship Award)



14. Ibrahim, A. M., Dimick, J. B., & **Joseph, A.** (2016). Building a Better Operating Room: Views from Surgery and Architecture. *Annals of Surgery*. doi:10.1097/sla.0000000000001777
15. Quan, X., **Joseph, A.**, Nanda, U., Moyano-Smith, O., Kanakri, S., Ancheta, C., & Loveless, E. A. (2016). Improving Pediatric Radiography Patient Stress, Mood, and Parental Satisfaction Through Positive Environmental Distractions: A Randomized Control Trial. *Journal of Pediatric Nursing*, 31(1), e11-22. doi:10.1016/j.pedn.2015.08.004
16. Taylor, E., Quan, X., & **Joseph, A.** (2015). Testing a tool to support safety in healthcare facility design. Paper presented at the 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, Krakow, Poland
17. **Joseph, A.**, Choi, Y.-S., & Quan, X. (2015). Impact of the Physical Environment of Residential Health, Care, and Support Facilities (RHCSF) on Staff and Residents: A Systematic Review of the Literature. *Environment and Behavior*. doi:10.1177/0013916515597027
18. Taylor, E., Hignett, S., & **Joseph, A.** (2014). The environment of safe care: considering building design as one facet of safety. *Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare*, 3(1), 123-127.
19. Taylor, E., **Joseph, A.**, Quan, X., & Nanda, U. (2014). Designing a tool to support patient safety: Using research to inform a proactive approach to healthcare facility design. In *Advances in Ergonomics In Design, Usability & Special Populations: Part III (Vols. 1-20, Vol. 18, pp. 7889-7899)*. Krakow, Poland: AHFE International/CRC Press (Taylor & Francis Group).
20. **Joseph, A.**, Keller, A., Quan, X., Taylor, E., Nanda, U. & Hua., Y. (2014) Building a knowledge base for evidence-based healthcare facility design. *The Intelligent Buildings International Journal*, 11 (44).
21. Taylor, E., **Joseph, A.**, & Quan, X. (2012). Designing for Patient Safety - Considering a Patient Safety Risk Assessment. *Advances in Human Aspects of Healthcare (Vol. 3, pp. 249-258)*. Purdue University, Indiana: CRC Press.
22. **Joseph, A.**, & Malone, E. (2012). The Environment: An Often Unconsidered Patient Safety Tool. *AHRQ WebM&M: Morbidity and Mortality Rounds on the Web*. From <http://webmm.ahrq.gov/perspective.aspx?perspectiveID=130>
23. Quan, X., **Joseph, A.**, & Ensign, J. (2012). Impact of imaging room environment: Staff job stress and satisfaction, patient satisfaction, and willingness to recommend. *Health Environments Research & Design Journal*, 5(2), 61-79.
24. Henriksen, K., **Joseph, A.**, & Zayas-Caban, T. (2009). The human factors of home health care: A conceptual model for examining safety and quality concerns. *Journal of Patient Safety*, 5, 229-236.
25. Gulwadi, G., **Joseph, A.**, & Keller, A. (2009). Exploring the impact of the physical environment on patient outcomes in ambulatory care settings. *Health Environments Research & Design Journal*, 2(2), 21-41.
26. Ulrich, R., Zimring, C., Zhu, X., DuBose, J., Hyun-Bo, S., Choi, Y.-S., Quan, X., **Joseph, A.** (2008). A review of the research literature on evidence-based healthcare design. *Health Environments Research & Design Journal*, 1(3), 61-125.
27. **Joseph, A.**, & Hamilton, K. (2008). The Pebble Projects: Coordinated evidence-based case studies. *Building Research and Information*, 36(2), 129-145. (Also Translated into Chinese for *Urbanism and Architecture*, 2011)
28. **Joseph, A.**, & Rashid, M. (2007). The architecture of safety: Hospital design. *Current Opinion in Critical Care*, 13, 714-719.
29. **Joseph, A.**, & Zimring, C. (2007). Where active older adults walk: Understanding the factors related to path choice for walking among active retirement community residents. *Environment & Behavior*, 39(1), 75-105.
30. **Joseph, A.**, Zimring, C., Harris-Kojetin, L., & Kiefer, K. (2006). Presence and visibility of outdoor and indoor physical activity features and participation in physical activity among older adults in retirement communities. *Journal of Housing for the Elderly* 19(3-4).
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32. Harris-Kojetin, L., Kiefer, K., **Joseph, A.**, & Zimring, C. (2005). Encouraging physical activity among retirement community residents - the role of campus commitment, programming, staffing, promotion, financing and accreditation. *Senior Housing and Care Journal*, 13(1), 3-20. (Received first place award for this paper).

1. **Joseph, A.**, Wingler, D., Bayramzadeh, S., Machry, H. (2017). Using a systems framework and methodology for observing behavior in operating room environments. Association of Canadian Ergonomists & Symposium on Human Factors in Organizational Design and Management (ACE-ODAM 2017), Banff, Alberta, Canada.
2. **Joseph, A.**, Wingler, D., Bayramzadeh, S. & Abernathy, J. (2017). Integrating research, education and practice in the healthcare facility design process through the use of physical mock-ups. Association of Canadian Ergonomists & Symposium on Human Factors in Organizational Design and Management (ACE-ODAM 2017), Banff, Alberta, Canada.
3. Khoshkenar, A., Taaffe, K., Muhs, M., Fredendall, L., Ferrand, Y., San, D., & **Joseph, A.** (December 2017). "Simulation-based design and traffic flow improvements in the operating room," in Proceedings of the 2017 Winter Simulation Conference, Washington, DC.
4. Wingler, D., **Joseph, A.**, & Joshi, R. (2018). An Ergonomic Evaluation of Preoperative and Postoperative Workspaces in Ambulatory Surgery Centers. In V. Duffy & N. Lightner (Eds.), *Advances in Human Factors and Ergonomics in Healthcare and Medical Devices: Proceedings of the AHFE 2017 International Conferences on Human Factors and Ergonomics in Healthcare and Medical Devices*, July 17–21, 2017, The Westin Bonaventure Hotel, Los Angeles, California, USA (pp. 11-21). Cham: Springer International Publishing.

#### WHITE PAPERS AND SELECTED ARTICLES

1. **Joseph, A.** & Allison, D. (2018, October). Designing a Safer OR. *Healthcare Design Magazine*.
2. **Joseph, A.** (2016, April 14). Overcoming challenges while designing clinics. *Healthcare Executive*.
3. The Center for Health Design. (October 2015). Safety Risk Assessment Toolkit (PDF version). CHD Insights & Solutions. Retrieved from <https://www.healthdesign.org/insights-solutions/safety-risk-assessment-toolkit-pdf-version>
4. The Center for Health Design. (2015). Patient room design checklist and evaluation tool. *Insights and Solutions*. Retrieved from <https://www.healthdesign.org/insights-solutions/patient-room-design-checklist-and-evaluation-tool>
5. **Joseph, A.** (2015, March 5). Design Principles and Trends in Assisted Living. *Healthcare Executive*. <https://www.healthcareexecutive.com/design-principles-and-trends-in-assisted-living>
6. **Joseph, A.**, & Taylor, E. (2014). Safety first: Designing healthcare spaces to avoid adverse events. *Healthcare Design Magazine*, February 18, 2014.
7. Nanda, U., **Joseph, A.**, & Malone, E. (2013). Impact of affordable care on healthcare design. *Contract*, October 2013.
8. Nanda, U., **Joseph, A.**, & Piatkowski, M. (2013). Designing the med-surg room. *Healthcare Design Magazine*, December 2, 2013.
9. **Joseph, A.**, Quan, X., & Keller, A. (2013). Top 10 evidence-based design features that improve healthcare outcomes. *Hospital Infrabiz Magazine*. Retrieved from <http://www.hospitalinfrabiz.com/top-10-evidence-based-design-features-that-improve-healthcare-outcomes.html>
10. **Joseph, A.**, & Quan, X. (2012). Summary of the literature review: Resident Safety Risk Assessment. Concord, CA: The Center for Health Design.
11. Nanda, U., Malone, E., & **Joseph, A.** (2012). Achieving EBD goals through flooring selection & design. Concord, CA: The Center for Health Design.
12. Taylor, E., Quan, X., Nanda, U., & **Joseph, A.** (2012). Creating standardization for Post-Occupancy Evaluation. *Healthcare Design Magazine*, October 8, 2012.
13. **Joseph, A.**, Quan, X., Taylor, E., & Jelen, M. (2011). Designing for patient safety: Developing methods to integrate patient safety concerns in the design process. Concord, CA: The Center for Health Design.
14. **Joseph, A.**, & Quist, C. (2012, March 15). Building a foundation for EBD research. *Healthcare Design Magazine*.
15. **Joseph, A.** (2012). Research at The Center for Health Design: Looking ahead. *Healthcare Design Magazine*, August 20
16. Quan, X., **Joseph, A.**, & Jelen, M. (2012). Green cleaning in healthcare: Moving toward a systematic approach. *Healthcare Design Magazine*, 12, 24-32.

17. Quan, X., **Joseph, A.**, & Jelen, M. (2011). Green cleaning in healthcare: Current practices and questions for future research: Healthcare without harm.
18. Quan, X., & **Joseph, A.** (2011, December 13). Creating a foundation for evidence-based healthcare design research and practice. Healthcare Design Magazine.
19. Gandhi, T., & **Joseph, A.** (2011). Getting it right the first time: A process-driven facility design approach at Virtua Health. Healthcare Design Magazine, March 31, 2011.
20. Quan, X., Malone, E., **Joseph, A.** & Pati, D. (2011). Healthcare Environmental Terms and Outcome Measures: An Evidence-Based Design Glossary. Concord, CA: The Center for Health Design.
21. **Joseph, A.**, Keller, A., Taylor, E., & Quan, X. (2011). Designing safety-net clinics for cultural sensitivity (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.
22. Taylor, E., **Joseph, A.**, Keller, A., & Quan, X. (2011). Designing safety-net clinics for flexibility (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.
23. Quan, X., **Joseph, A.**, Keller, A., & Taylor, E. (2011). Designing safety-net clinics for innovative care delivery models (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.
24. **Joseph, A.** (2011). Healthcare design trends in India. Healthcare Design Magazine, October 2011.
25. Taylor, E., & **Joseph, A.** (2010). HCD 10: Has the Use of Evidence-Based Design Changed in the Last Year? Healthcare Design Magazine, November 15
26. Taylor, E., & **Joseph, A.** (2010). Has the Use of Evidence-Based Design Changed in the Last Year?: Results from the Second Annual Survey of Design Research in Healthcare Settings. Healthcare Design Magazine, October 31
27. Sadler, B., **Joseph, A.**, Keller, A., & Rostenberg, B. (2009). Using Evidence Based Environmental Design to Enhance Safety and Quality. Boston: Insitute for Healthcare Improvement
28. **Joseph, A.** (2008). Hospitals That Heal: Hospital Design for the 21st Century. Asian Hospital & Healthcare Management, (Healthcare Management). Retrieved from [http://www.asianhnm.com/healthcare\\_management/hospitals\\_heal.htm](http://www.asianhnm.com/healthcare_management/hospitals_heal.htm)
29. Calkins, M., & **Joseph, A.** (2008). The Evidence in Support of SAGE Design Principles. Long-Term Living, March 1.
30. **Joseph, A.** (2008). Impact of medical technology on the design of health care settings. Hospital and Health Networks, 82(5).
31. **Joseph, A.** (2007). Design Strategies to Reduce Hospital-Acquired Infections. Health Management, 9.
32. **Joseph, A.** (2006). Less Infectious by Design. Cleanroom Technology, (November 16, 2006). Retrieved from [http://www.cleanroomtechnology.com/technical/article\\_page/Less\\_infectious\\_by\\_design/51444](http://www.cleanroomtechnology.com/technical/article_page/Less_infectious_by_design/51444)
33. **Joseph, A.** (2006). Health promotion by design in long-term care settings Concord, CA: The Center for Health Design
34. **Joseph, A.** (2006). The role of the physical environment in promoting health, safety, and effectiveness in the healthcare workplace Concord, CA: The Center for Health Design.
35. **Joseph, A.** (2006). The Impact of Design on Infections in Healthcare Facilities. Concord, CA: The Center for Health Design
36. **Joseph, A.** (2006). The Impact of Light on Outcomes in Healthcare Settings. Concord, CA: The Center for Health Design
37. **Joseph, A.** (2006). Sound Control for Improved Outcomes in Healthcare Settings. Concord, CA: The Center for Health Design
38. **Joseph, A.**, Bosch, S., Frederick, C., & Jackson, M. (2007). Researching the effectiveness of a participatory evidence-based design process. Healthcare Design, 7, 8-10.
39. **Joseph, A.**, & Fritz, L. (2006, March). Ceiling lifts reduce patient-handling injuries. Healthcare Design, 6, 10-13.
40. Ulrich, R. P., Quan, X., Zimring, C. P., **Joseph, A.**, & Choudhary, R. (2004). The Role of the Physical Environment in the Hospital of the 21st Century: A Once-in-a-Lifetime Opportunity. Concord: The Center for Health Design.

## BOOKS AND BOOK SECTIONS

1. **Joseph, A.**, Allison, D., Joshi, R. (Editors) (2019). Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR) Volume 3. (Internal CHFDT publication) [https://issuu.com/clemsonchfdt/docs/ripchd.or\\_vol\\_3](https://issuu.com/clemsonchfdt/docs/ripchd.or_vol_3)
2. **Joseph, A.**, Allison, D., Joshi, R. (Editors) (2018). Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR). (Internal CHFDT publication) [https://issuu.com/clemsonchfdt/docs/ripchd.or\\_vol\\_2](https://issuu.com/clemsonchfdt/docs/ripchd.or_vol_2)
3. **Joseph, A.**, Wingler, D. & Allison, D. (Editors) (2016). Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR). (Internal CHFDT publication) [https://issuu.com/clemsonchfdt/docs/ripchd.or\\_vol\\_1](https://issuu.com/clemsonchfdt/docs/ripchd.or_vol_1)
4. **Joseph, A.**, Taylor, E., & Quan, X. (2017). Creating safer healthcare environments using an evidence-based design process. In V. K. Singh (Ed.). *Innovative, Lean & Evidence Based Healthcare Facilities Planning and Design*, CRC Press.
5. **Joseph, A.**, & Nanda, U. (Eds.). (2013). *Development of tools for healthcare environments research and practice*: EDRA.
6. Levin, D., & **Joseph, A.** (2009). Foreword and Book sections. In Joint Commission Resources (Ed.), *Planning, Design and Construction of Healthcare Facilities*, Second Edition. Chicago, IL: Joint Commission on Accreditation of Healthcare Organizations.
7. Harris, D., **Joseph, A.**, Becker, F., Hamilton, D. K., Shepley, M. M., & Zimring, C. (2008). *A Practitioner's Guide to Evidence-Based Design*. Concord, CA: The Center for Health Design.
8. **Joseph, A.**, Keller, A., & Kronick, K. (2008). Transforming care in children's hospitals through environmental design: Literature Review. In NACHRI (Ed.), *Evidence for Innovation: Transforming Children's Health Through the Physical Environment* (pp. 18-47). Alexandria, VA: National Association of Children's Hospitals and Associated Institutions (NACHRI).
9. Ulrich, R., Zimring, C., Quan, X., & **Joseph, A.** (2005). The Environment's Impact on Stress. In S. Marberry (Ed.), *Improving Healthcare with Better Building Design* (pp. 37-62). Chicago, IL: ACHE.
10. Zimring, C., Ulrich, R., **Joseph, A.**, & Quan, X. (2005). The Environment's Impact on Safety. In S. Marberry (Ed.), *Improving Healthcare with Better Building Design* (pp. 63-80). Chicago, IL: ACHE.
11. **Joseph, A.**, Zimring, C., Harris-Kojetin, L., & Kiefer, K. (2005). Presence and Visibility of Outdoor and Indoor Physical Activity Features and Participation in Physical Activity Among Older Adults in Retirement Communities. In S. Rodiek & B. Schwarz (Eds.), *The Role of the Outdoors in Residential Environments for Aging* (pp. 141-166). New York: Haworth Press Inc.

## PEER-REVIEWED AND INVITED PRESENTATIONS

1. **Joseph, A.**, Shultz, J., Colman, N., & Hebbard, K. B. (2020, May 18-20). Using simulation-based evaluations of physical and virtual mock-ups to design safer hospital environments. Paper presented at the Human Factors and Ergonomics Society Healthcare Conference, Virtual (originally scheduled for March 8-10, Toronto, Canada)
2. Jafarifiroozabadi, R., Joshi, R., & **Joseph, A.** (2020, April 4-7). Evaluating User Experience in Clinical Waiting Areas Using Virtual Reality. Environmental Design Research Association (EDRA) 51 conference (conference permitting online presentations only).
3. Jafarifiroozabadi, R., Joshi, R., **Joseph, A.**, & Wingler, D. (2020, April 4-7). Virtual versus Real Usability Evaluation of Healthcare Furniture in an Outpatient Surgical Waiting Room. Environmental Design Research Association (EDRA) 51 conference (conference permitting online presentations only).
4. **Joseph, A.**, Mihandoust, S., & Hoskins, L. (2020, April 4-7). Understanding Patient, Care Partners and Care Provider Perspectives on Key Home and Community Environment Challenges Encountered by Older Adults Undergoing Joint Replacement Surgery. Environmental Design Research Association (EDRA) 51 conference (conference permitting online presentations only).
5. Jafarifiroozabadi, R., **Joseph, A.**, & Franks, A. (2019, November 5). The Impact of Daylight and Views on Post-myocardial Infarction Patients. Healthcare Design Conference. New Orleans, LA
6. Wingler, D., **Joseph, A.**, & Martin, L. (2019, November 4). The impact of using an induction room or operating room on child and parent anxiety. Healthcare Design Conference. New Orleans, LA.
7. **Joseph, A.**, Machry, H., Allison, D., & Wingler, D. (2019, November 3). Improved patient care through human centered design in the OR: Final implementation and tool development. Healthcare Design Conference. New Orleans, LA.
8. **Joseph, A.** (2019, September 5). Realizing Improved Patient Care through Human Cented Design in the OR (RIPCHD.OR): PSLI update. Paper presented at the Agency for Healthcare Research and Quality PSLI Meeting, Rockville, MD.

9. **Joseph, A.**, & Langerman, A. (2020, August 8). Disrupting from the inside out to create dynamic human-centered operating room environments. Presentation at the 13th Annual Healthcare Design & Construction Symposium: Intersection of Built Environment and Healthcare Delivery, Vanderbilt University, Nashville, TN.
10. Wingler, D., Machry, H., & **Joseph, A.** (2019, May 22-26). Developing a systems-based observation toolkit for evaluating high-fidelity scenario-based simulation testing in OR environments. Environmental Design Research Association (EDRA) 50 conference. Brooklyn, NY.
11. Machry, H., Wingler, D., & **Joseph, A.** (2019, May 22-26). Translating research into practice: Developing a tool to support evidence-based decision-making in operating room design. Environmental Design Research Association (EDRA) 50 conference. Brooklyn, NY
12. Jafarifroozabadi, R., Joshi, R., & **Joseph, A.** (2019, May 22-26). Evaluating user experience in clinical waiting areas using virtual reality. Environmental Design Research Association (EDRA) 50 conference. Brooklyn, NY.
13. Taaffe, K., Khoshkenar, A., Ferrand, Y., Fredendall, L., & **Joseph, A.** (2019, May 18-21). Influential factors on staff movement patterns in the operating room. IISE 2019 Annual Conference. Orlando, FL.
14. **Joseph, A.** (2019, April). Realizing improved patient care through human-centered design in the OR. SimTigrate Symposium on Designing the Future of Healthcare. Atlanta, GA.
15. **Joseph, A.** (2019, April 8). Designing a safer OR using a human-centered approach: Learnings from a Four-year Patient Safety Learning Lab. Leadership Summit of the AORN Global Surgical Conference and Expo. Nashville, TN.
16. **Joseph, A.**, Neyens, D., & Taaffe, K. (2019, March 24-27). Designing a safer and more ergonomic operating room using simulation in a patient safety learning lab (PSLL). Human Factors and Ergonomics Society 2019 Health Care Symposium. Chicago, IL.
17. **Joseph, A.**, Taaffe, K., Allison, D., Khoshkenar, A., & Machry, H. (2019, March 17-20). How large should the OR be? Using a multi-disciplinary systems approach to designing safer operating rooms. International Summit & Exhibition on Health Facility Planning, Design, & Construction. Phoenix, AZ.
18. Allison, D., Bayramzadeh, S., Wingler, D., & **Joseph, A.** (2018, Nov. 10-13). Testing and implementing human-centered design ideas throughout the design process. Healthcare Design Conference. Phoenix, AZ.
19. **Joseph, A.**, Valipoor, S., & Bosch, S. (2018, Nov. 10-13). How simulation-based evaluations are improving healthcare design decisions. Healthcare Design Conference. Phoenix, AZ.
20. **Joseph, A.**, Wingler, D., Joshi, R., & O'Hara. (2018, Nov. 10-13). Leveraging virtual reality to support objective user evaluations of alternative preoperative room designs in supporting nurse work performance. Healthcare Design Conference. Phoenix, AZ
21. Ferrand, Y., Fredendall, L., Taaffe, K., Khoshkenar, A., Reeves, R., Lee, B., **Joseph, A.**, & San, D. (2018, Nov. 4-7). Reduction of Patient and Surgery Preparation Time in the Operating Room. INFORMS 2018 Annual Meeting, Phoenix, AZ.
22. Machry, H., Bayramzadeh, S., **Joseph, A.**, & Allison, D. (2018, Oct 30 – Nov 2). Developing and Evaluating an Operating Room Design Prototype: the use of a Mock-up Simulation Approach Integrated to an Iterative Evidence-based Design Process. In Proceedings of the VIII VIII Congresso Brasileiro para o Desenvolvimento to Edificio Hospitalar (CBDEH). Curitiba, PR, Brazil.
23. **Joseph, A.** & Wingler, D. (2018, Oct 25-26). Engaging clinicians in the design process through simulation-based mock-up evaluations to support the design of high performance healthcare environments. MUSC Performance Improvement Conference. Charleston, SC
24. Machry, H., & **Joseph, A.** (2018, Sep 28). Understanding Family Engagement in the NICU from the Built Environment Perspective. Presented at the 15th Research Symposium: Transforming Clinical Practice & Education. Greenville, SC.
25. Machry, H., & **Joseph, A.** (2018, Oct 7-10). Examining the built environment as a contextual factor to Family Engagement in the NICU. Poster presented at the International Conference on Person-centered Care (Planetree). Boston, MA.
26. Wingler, D., **Joseph, A.** (2018, September 21-22). More Than Feelings: Examining Child and Parent Affective Responses to the Ambulatory Surgical Environment. Academy of Neuroscience for Architecture Conference. La Jolla, CA.
27. Wingler, D., **Joseph, A.** (2018, August 26-30). Developing a Methodology for Collecting Real-time Data of Child and Parent Responses During the Ambulatory Surgical Environment. Congress of International Ergonomics Association. Florence, Italy.
28. Wingler, D., Martin, L., **Joseph, A.** (2018, June 11-13). Understanding the Impact of Induction room vs. Operating Theater on Child and Parent Anxiety During the Ambulatory Surgical Process. European Healthcare Design. London, UK.

29. Wingler, D., **Joseph, A.**, Martin, L. (2018, November 10-13). AAHID/Steelcase Health Student Fellowship Presentation. Healthcare Design Conference. Phoenix, AZ.
30. **Joseph, A.**, Joshi, R., Wingler, D., O'hara, S. (2018, August 26-30). Integrating technology in patient care spaces: Using scenario-based evaluations to compare design alternatives in virtual reality. International Ergonomics Association. Florence, Italy.
31. Bayramzadeh, S., **Joseph, A.**, Allison, D. (2018, June 6-9). Using simulation-based mock-up evaluations to proactively engage clinicians during healthcare facility design and renovation projects. Environmental Design Research Association (EDRA) 49 Conference. Oklahoma City, OK.
32. Wingler, D., **Joseph, A.**, Bayramzadeh, S., Machry, H. (2018, June 6-9). Engaging end-users in architectural design decision-making: A comparison of four design communication. media. Environmental Design Research Association (EDRA) 49 Conference. Oklahoma City, OK.
33. Jafarifiroozabadi, R., Bayramzadeh, S., **Joseph, A.**, Mousavi, E. (2018, June 6-9). Patterns of Door Openings in Operating Rooms. Environmental Design Research Association (EDRA) 48 Conference. Oklahoma City, OK.
34. Ossmann, M., **Joseph, A.**, Wingler, D. (2018, June 6-9). Place making: Health as home. Environmental Design Research Association (EDRA) 48 Conference. Oklahoma City, OK.
35. **Joseph, A.**, Wingler, D., Robb, A., Bayramzadeh, S. (2018, June 11-12). Integrating technology in patient care spaces: Using scenario-based evaluations to compare design alternatives in virtual reality. European Healthcare Design. London, UK
36. **Joseph, A.**, Taaffe, K., Khoshkenar, A., Bayramzadeh, S. (2018, June 11-12). How large should the OR be? Using a multi-disciplinary systems approach to designing safer operating rooms. European Healthcare Design. London, UK.
37. Wingler, D., & **Joseph, A.** (2018, August 26-30). Developing a methodology for collecting real-time data of child and parent responses during the ambulatory surgical environment. Congress of International Ergonomics Association. Florence, Italy.
38. Wingler, D., Martin, L., **Joseph, A.** (2018, June 11-13). Understanding the Impact of Induction room vs. Operating Theater on Child and Parent Anxiety During the Ambulatory Surgical Process. European Healthcare Design. London, UK.
39. **Joseph, A.**, Khoshkenar, A., Taaffe, K., Bayramzadeh, S., Catchpole, K., & Machry, H. (2018, May 19-22). Minor disruptions, traffic levels, and their effect on major flow disruptions in the operating room. 2018 IISE Annual Conference. Orlando, FL.
40. Lee, B., San, D., Taaffe, K., Fredendall, L., Ferrand, Y., Khoshkenar, A., **Joseph, A.**, Reeves, S., & RIPCHD.OR team. (May 2018). Reduction of patient and surgery preparation time in the operating room. Annual meeting of the Production and Operations Management Society, Houston, TX.
41. Lee, B., San, D., Taaffe, K., Fredendall, L., Ferrand, Y., Khoshkenar, A., Fiore, A., **Joseph, A.**, Reeves, S. & RIPCHD.OR team (April 2018). Potential benefits of a separate instrument setup room or induction room adjacent to the operating room. Health Sciences Center Research Showcase, Greenville Health System, Greenville, SC
42. Lee, B., San, D., Taaffe, K., Muhs, M., Khoshkenar, A., Fredendall, L., Ferrand, Y., & **Joseph, A.** (February 2018). Monitoring task flows for aseptic practices in the operating room. Presentation at the 2018 Healthcare Systems Process Improvement Conference, Atlanta, GA.
43. Khoshkenar, A., Taaffe, K., Fredendall, L., Ferrand, Y., San, D., & **Joseph, A.** (February 2018). Traffic flow improvements in the operating room using a Markov chain simulation model. Presentation at the 2018 Healthcare Systems Process Improvement Conference, Atlanta, GA.
44. **Joseph, A.**, Bayramzadeh, S., Machry, H., & Wingler, D. (2017). Realizing improved patient care through human centered design in the OR: Phase 2 findings. Healthcare Design Conference. Kissimmee, FL.
45. Bayramzadeh, S., **Joseph, A.**, & Machry, H. (2017, July 17-21). Operating room layout configuration: a tool to improve staff experience, performance, and efficiency. Applied Human Factor and Ergonomics (AHFE) International Conference. Los Angeles, CA.
46. Wingler, D., **Joseph, A.**, & Joshi, R. (2017). An Ergonomic Evaluation of Preoperative and Postoperative Workspaces in Ambulatory Surgery Centers. July 17-21, 2017, The Westin Bonaventure Hotel, Los Angeles, California, USA (pp. 11-21).
47. **Joseph, A.**, Catchpole, K., & Allison, D. (2017, June 12-14). Using a systems approach to designing a safer and more ergonomic operating room. Poster presented at the European Healthcare Design Conference London, UK.
48. Lee, B., Shvorin, D., Fredendall, L., Taaffe, K., Ferrand, Y., Muhs, M., San, D., **Joseph, A.**, & Reeves, A. (2017, May). Correlation of Microbial Load and Movement within the Operating Room. Presented at the Clemson University Research Symposium, Clemson, SC.

49. Taaffe, K., Khoshkenar, K., Muhs, M., Fredendall, L., Ferrand, Y., San, D., **Joseph, A.**, Reeves, S. (2017, May). Simulation-based Design Improvements in the Operating Room. Presented at the Clemson University Research Symposium, Clemson, SC.
50. Machry, H., & **Joseph, A.** (2017, May 31-June 3). The built environment as a factor in the engagement process in healthcare. Paper presented at the Environmental Design Research Association (EDRA), Madison, WI.
51. **Joseph, A.**, Wingler, D., & Joshi, R. (2017, May 31 - June 3). Designing preoperative and postoperative workspaces to support communication between patients, staff and care partners in ambulatory surgery centers: An ergonomic evaluation. Paper presented at the Environmental Design Research (EDRA) conference, Madison, WI.
52. Bayramzadeh, S., **Joseph, A.**, Wingler, D., & Machry, H. (2017, May 31-June 3). Developing Methods to Observe and Analyze Behaviors in Operating Room Environments. Environmental Design Research Association (EDRA) 48 Conference. Madison, WI.
53. Machry, H., **Joseph, A.**, Wingler, D., & Mathews, R. (2017, May 31-June 3). Spatial Implications of Essential Surgical Flows in Ambulatory Surgery Centers. Environmental Design Research Association (EDRA) 48 Conference. Madison, WI.
54. **Joseph, A.** (2017). Architecture + Health: Healthcare spaces of the future. Presentation at the Watt Innovation Forum, Clemson, SC.
55. **Joseph, A.**, & Wingler, D. (2017, March 31). Balancing the Human Touch with the Need for Integrating Technology in Ambulatory Surgical Environments: Barriers and facilitators to nursing work and care team interactions. Poster presented at the Greenville Health System Health Sciences Research Showcase, Greenville, SC.
56. **Joseph, A.**, & Reeves, S. (2017). Improving Patient Care through Human-Centered Design in the OR. Paper presented at the AHRQ PSLI Webinar series, Webinar.
57. **Joseph, A.** (2017). Grant seeking workshop. Clemson University
58. Catchpole, K., **Joseph, A.**, Machry, H., & Zamani, Z. (2016, Nov. 12-15). Realizing Improved Patient Care through Human Centered Design in the OR: Phase 1 Findings. Healthcare Design Conference. Houston, TX.
59. Allison, D., Catchpole, K., & **Joseph, A.** (2016, Nov. 12-15). Bench to Bedside: Integrating Research Education and Practice in Architecture and Health. Healthcare Design Conference. Houston, TX.
60. Lee, B., Fredendall, L., Taaffe, K., & **Joseph, A.** (2016, Nov. 13-16). Operating Room Management When Considering Microbial Loads. INFORMS 2016 Annual Conference. Nashville, TN.
61. Lee, B., Fredendall, L., Taaffe, K., & **Joseph, A.** (2016, Nov. 18-21). Operating Room Management When Considering Microbial Loads. 48th Annual Meeting of the Decision Sciences Institute. Austin, TX.
62. Shvorin, D., Taaffe, K., Fredendall, L., Ferrand, Y., San, D., Lee, B., Bhide, K., & **Joseph, A.** (2016, Oct. 26-29). Operating Room Management When Considering Microbial Loads. International Annual Conference of the American Society for Engineering Management. Charlotte, NC.
63. **Joseph, A.**, Davis, R., & Wilkerson, A. (October 4, 2016). Evidence-Based Design for Healthcare Lighting: Where's the evidence? Paper presented at the DOE Healthcare Lighting Webinar Series, Webinar.
64. **Joseph, A.** (2016, September 23). Designing Safer Operating Rooms Using A Systems Approach. The Carolinas anesthesiology 2016 annual meeting, Charleston, SC.
65. **Joseph, A.**, Wingler, D., Zamani, Z., & Wilson, S. (2016, May 18-21). Communication, coordination and collaboration: Understanding the nature of work for pre-operative and post-operative nurses in Ambulatory Surgical Environments. Paper presented at the EDRA 47: Innovation - Shifting Ground, Raleigh, North Carolina.
66. **Joseph, A.**, Zamani, Z., & Machry, H. (2016, May 18-21). Addressing patient safety outcomes associated with the operating room's built environment Paper presented at the EDRA 47: Innovation - Shifting Ground, Raleigh, North Carolina.
67. **Joseph, A.**, Zamani, Z., Machry, H., & Davis, R. (2016, May 18-21). Impact of light on outcomes in healthcare settings – A review of the literature. Paper presented at the EDRA 47: Innovation - Shifting Ground, Raleigh, North Carolina.
68. Davis, R., **Joseph, A.**, & Rizzo, P. (2016, April 13). Research to application: Lighting for Healthcare. Paper presented at the Lightfair International (LFI), San Diego.
69. **Joseph, A.**, Zamani, Z., & Quan, X. (2015, November 16). Designing ambulatory care facilities: An evidence-based design checklist. Presentation at the 2015 Healthcare Design Conference (HCD 15), Washington, DC.

70. Taylor, E., Quan, X., & Joseph, A. (2015, July). Testing a tool to support safety in healthcare facility design. Research presented at the 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas.
71. Quan, X., & Joseph, A. (2015). Connecting Research and Design: The Development of an Evidence-based Tool for Designing and Evaluating Hospital Inpatient Rooms. Paper presented at the EDRA 46 Brainstorm: Dynamic interactions of environment-behavior and neuroscience, Los Angeles.
72. Joseph, A., Taylor, E., & Quan, X. (2015). Designing for Safety Seminar. One-day pre-conference workshop at the ASHE PDC, San Antonio, TX.
73. Joseph, A., & Taylor, E. (2015, March 18). Using a Safety Risk Assessment in the healthcare facility design process. Presentation at the American Society of Healthcare Engineers Conference- Planning Design and Construction (ASHE PDC), San Antonio, TX.
74. Joseph, A., & Taylor, E. (2014, November 18). Safety by design: How teams can proactively use design to reduce adverse events. Presentation at the Healthcare Design Conference, San Diego, CA.
75. Joseph, A. (2014, November 17). An evidence-based toolkit for designing and evaluating the inpatient room interior design. Presentation at the Healthcare Design Conference, San Diego, CA.
76. Joseph, A. (2014). Designing safer, higher quality healthcare facilities using an evidence-based design process. Invited presentation at the Vital Quadro Healthcare Workshop, Dubai, UAE.
77. Joseph, A., Taylor, E., & Malone, E. (2014, March). Designing for Safety: Assessing Risks in the Healthcare Built Environment. Presentation at American Society of Healthcare Engineers Planning Design and Construction (ASHE PDC), Orlando, FL.
78. Joseph, A. (2013, October). The Role of the Built Environment in Safe Patient Handling and Movement. Invited paper presented at the Board on Human Systems Integration (BOHSI) planning meeting, National Academy of Sciences, Washington, DC.
79. Joseph, A. (2013). ACE Talks: Fostering Collaboration through Evidence-Based Design. Keynote presentation at ACE Summit and Reverse Expo, New Orleans.
80. Joseph, A., Malone, E., Bosch, S., Shepley, M., & Pasha, S. (2013, November). Innovations in Research - 2013 Presentation at Healthcare Design Conference. Orlando, FL.
81. Joseph, A., Quan, X., Robinson, P., & Kanakri, S. (2013, November). Examining the Effects of Positive Distraction in Pediatric Environments: A Methodological Comparison of Two Studies. Paper presented at the Healthcare Design Conference, Orlando, FL.
82. Joseph, A. (2013, February). Healthcare Innovation Through Evidence-Based Design. Keynote panel presentation at the Safe and Sustainable Hospitals Conference, New Delhi, India.
83. Nanda, U., & Joseph, A. (2013, May). The Dilemma of Checklists: An Opportunity and a Challenge. Presentation at the EDRA 44, Providence, RI.
84. Joseph, A., Loveless, E., Quan, X., Nanda, U., & Kanakri, S. (2013, June). Examining the Effects of Positive Distractions in Pediatric Environments: An Experimental Study. Paper presented at the EDRA 44, Providence, RI.
85. Joseph, A., & Calkins, M. (2013, April). Impact of Residential Care Environments: A Systematic Review of the Literature. Paper presentation at the Environments for Aging, New Orleans.
86. Joseph, A. (2012, October). Innovation...For Whom? For What? Lessons From Other Industries. Harvard Medical School 2nd Annual Innovations Conference, Boston, MA.
87. Joseph, A. (2012, May). Development of Tools for Healthcare Environments Research and Practice: A Glossary of Built Environment Terms and Measures. Paper presented at the EDRA 43, Seattle.
88. Joseph, A. (2012, October). The Impact of Light on Outcomes in Healthcare Settings. Presentation at the International Association of Lighting Designers (IALD), Vancouver, CA.
89. Joseph, A., Quan, X., Taylor, E., & Nanda, U. (2012, November). Standardization for Post-Occupancy Evaluation. Presentation at the Healthcare Design Conference, Phoenix, AZ.
90. Joseph, A., & Taylor, E. (2012, November). Designing for Patient Safety: Findings from a National Seminar. Roundtable presentation at the Healthcare Design Conference, Phoenix, AZ.
91. Joseph, A., Becker, F., Nanda, U., & Zadeh, R. (2012, November). Innovations in Research - 2012. Presentation at the Healthcare Design Conference, Phoenix, AZ.



92. **Joseph, A.** (2012, June). Designing for Patient Safety. Presentation at the Boston Society of Architects Forum, Boston, MA.
93. **Joseph, A.** (2011, March). Evidence--Based Design Research at The Center for Health Design. Webinar Presentation for Sanford Rose - Webcast Series.
94. **Joseph, A.** (2010, March). New Ways of Thinking: The Future of Senior Living. Invited Keynote Panel Presentation at the Environments for Aging 2010, San Diego.
95. **Joseph, A.** (2011, April). Making the Connection: Linking Building Design to Healthcare Outcomes. Invited presentation at CleanMed 2011, Phoenix, AZ.
96. **Joseph, A.** (2011, April). Improving Safety and Quality of Care Through Healthcare Facility Design. Keynote presentation at the Fourth Annual Healthcare Infrastructure Summit, Minnet, ON.
97. **Joseph, A., & Keller, A.** (2011, November). Promising Practices in Safety-Net Clinic Design. Presentation at the Healthcare Design Conference, Washington DC.
98. **Joseph, A., & Taylor, E.** (2011, December). Designing for Patient Safety: Findings from a National Seminar. Webinar presentation for Healthcare Design Conference.
99. **Joseph, A., Weinberg, F., Malone, E., & Shepley, M.** (2011, November). Innovations in Research - 2011. Presentation at the Healthcare Design Conference Nashville, TN.
100. **Joseph, A., Pati, D., & Lorenz, S.** (2011, November). The Role of Post-Occupancy Evaluation in the Evidence-Based Design Process - Where Do We Go Next? Presentation at the Healthcare Design Conference, Nashville, TN.
101. **Taylor, E., & Joseph, A.** (2010, November). 2010 Survey of Design Research in Healthcare Settings. Presentation at the Healthcare Design Conference, Las Vegas.
102. **Joseph, A., & Keller, A.** (2010, November). Making the Connection: Linking Building Design to Healthcare Outcomes. Presentation at the Greenbuild International Conference and Expo, Chicago, IL.
103. **Quan, X., & Joseph, A.** (2010, November). Impact of Imaging Room Environment on Patients and Staff: Scientific Evaluation of an Innovative Design Intervention. Presentation at the Healthcare Design Conference, Las Vegas.
104. **Barach, P., Joseph, A., Solet, J., Calkins, M., & Nanda, U.** (2010, November). Innovations in Research - 2010. Presentation at the Healthcare Design Conference, Las Vegas.
105. **Joseph, A.** (2010, May). Research Priorities in Evidence-Based Design. Presentation at the CleanMed Conference, Baltimore, MD.
106. **Joseph, A.** (2010). Designing for Patient Safety: Developing a Patient Safety Risk Assessment. Presentation at the 2010 FGI Guidelines Workshop Series, Boston, Phoenix
107. **Joseph, A., & Taylor, E.** (2009, November). 2009 Survey of Design Research in Healthcare Settings: The Use and Impact of Evidence Based Design. Presentation at the Healthcare Design Conference, Orlando, FL.
108. **Joseph, A.** (2009, November). The Center for Health Design: USGBC Grant Project Update. Presentation at the Healthcare Design Conference, Orlando, FL.
109. **Lu, Z., & Joseph, A.** (2009, March). Walking for Healthy Aging: Designing Communities to Support Walking Among Independent and Assisted Living Residents. Paper presentation at the Environments for Aging, Boston, MA.
110. **Joseph, A., Keller, A., Barach, P., & Franey, B.** (2009, November). The Center for Health Design Research Roundup. Presentation at the Healthcare Design Conference, Orlando, FL.
111. **Joseph, A.** (2008). Bringing the User into the Center of the Healthcare Experience: The Role of Design. Presentation at the 11th EuHPN Annual Workshop: Designing for the User, Belfast, Northern Ireland.
112. **Joseph, A., Keller, A., & Harris, M.** (2008, November). Transformation by Design: Building Environments for High Quality Children's Healthcare. Presentation at the Healthcare Design Conference, Washington, D.C.
113. **Barach, P., Joseph, A., Franey, B., Zimring, C., & Solet, J.** (2008, November). Creating the Research Roadmap for Developing Safe and High Quality Buildings: Are We There Yet? Presentation at the Healthcare Design Conference, Washington, D.C.
114. **Geboy, L., Joseph, A., Pati, D., & Zborowsky, T.** (2007, November). Towards a New Paradigm of Healthcare Design Practice: Informing Decision Making Through Research. Presentation at the Healthcare Design Conference, Dallas, TX.

115. Malone, E., **Joseph, A.**, Sadler, B., & Herbert, C. (2008, December). How the Built Environment Helps Reduce Infections. Presentation at the IHI 20th Annual Forum, Nashville, TN.
116. **Joseph, A.**, Collins, K., & Wurmser, T. (2008, July). Getting Noise and Speech Privacy Issues Heard in the Design of Healthcare Facilities. Invited presentation at Acoustics '08, Paris, France.
117. **Joseph, A.** (2008, February). Evidence-Based Design: What It Is and Why We Need to Know About It. Invited Presentation at IIDA Healthcare Forum, Boston, MA.
118. **Joseph, A.**, & Carpenter, A. (2007). Health Promotion by Design in Long-Term Care Settings. Presentation at Environments for Aging, Atlanta, GA.
119. **Joseph, A.**, & Sadler, B. (2007, December 10). How Compelling New Research on Physical Layout and Design Can Directly Enhance Quality Improvement Initiatives. Paper presented at the 19th IHI Annual National Forum on Quality Improvement in Healthcare, Orlando, FL.
120. **Joseph, A.** (2006-2010). Pebble Project Research Orientation. Pebble Colloquium (different locations).
121. **Joseph, A.** (2007). Where People Walk: Assessing the Relationship between Physical Environmental Factors and Walking Behavior of Residents in Retirement Communities. Paper presented at the Active Living Research Conference, San Diego, CA.
122. **Joseph, A.** (2007). Evidence-Based Design Research. Paper presentation at EDRA 38, Sacramento, CA
123. **Joseph, A.** & Cama, R. (2006). Evidence-Based Design Research. Presentation at the American Society of Interior Designers (ASID) Conference, San Diego, CA
124. **Joseph, A.** (2004, Nov 6-10). A Framework for Studying the Impact of Facility Design on Physical Activity Among the Elderly. Poster presentation at the 132nd Annual Meeting of the American Public Health Association Conference (APHA), Washington DC.
125. **Joseph, A.**, Zimring, C., Harris-Kojetin, L. & Kiefer, K. (2004, Nov 6-10). Building and site design considerations for promoting physical activity among elderly residents of continuing care retirement communities. Presentation at 132nd Annual Meeting of American Public Health Association Conference (APHA), Washington DC.
126. **Joseph, A.** & Zimring, C. (2004, June). Promoting Physical Activity in Retirement Communities. Workshop organizer at EDRA 35, Albuquerque, NM
127. **Joseph, A.** & Zimring (2003, June). Research Framework for Promoting Physical Activity Among the Elderly. Poster presentation at EDRA 34, Minneapolis, MN



## SERVICE SUMMARY

### SERVICE ON NATIONAL COMMITTEES

2020-2023	International Advisory Board, Swiss Center for Design and Health
2016-2020	Appointed by the Agency for Healthcare Research and Quality to serve as regular member of a national study section titled, 'Healthcare Safety and Quality Improvement Research (HSQR)' that reviews NIH grants applications on topics in this area (4-year term)
2017-2019	Invited Juror, CHD Touchstone Awards
2017	Reviewer for EDRA Core Research award
2016,2017	Invited AIA Design Jury member for Healthcare Design Awards Program
2017	Reviewer for Healthcare Design Conference 2017 Research Track
2016	Invited Coach for 'Practice EBD' workshop at Healthcare Design conference
2016-	Member of IDEAS Institutional Review Board panel
2016	Reviewer for 2016 ACSA Fall Conference, Building for Health and Well-Being: Structures.Cities.Systems
2016	Participated in a video interview for a short film production on designing environments for people with dementia (part of an NIH funded project)
2014-2015	Member of Independent Review Panel to review Defense Health Agency's (DHA) Military Construction Standards
2014	Reviewer on AHRQ Special Emphasis Panel (SEP) for Patient Safety Learning Laboratories: Innovative Design and Development to Improve Healthcare Delivery Systems (P30)
2015	Reviewer, Healthcare Design Conference Research Track
2007-2013	CHD's Research Coalition key staff liaison, including developing a peer reviewed RFP process for funding research and reviewing deliverables
2012-2015	Member of AIA AAH research committee
2012-2014	Developer, coordinator and reviewer for the Research Track of the Healthcare Design Conference
2013	Member of review committee for Institute for Patient Centered Design award
2011	Reviewer for Green Build Conference research track
2009-2011	Reviewer for Development of Master's Degree Program in Health Facilities Engineering and Management (MHFEM) and Master's Degree Program in Health Facilities Planning and Design (MHFPD) in India
2006-2010	Member of Healthcare Guidelines Revision Committee (HGRC) of the Facility Guidelines Institute
2006-2010	Member of Facility Guidelines Institute Research Committee

### SERVICE ON DEPARTMENT COMMITTEES

2019-2020	MS to PhD program development committee member
2018-2019	Social Equity committee
2017-2019	Strategic Planning Committee (chair)
2016-2018	Clemson University Faculty Search Committee member for Mickel Endowed Chair in Architecture and Director of IMSI
2016-2017	School of Architecture Faculty Exhibit committee for NAAB accreditation

## SERVICE ON UNIVERSITY COMMITTEES

2020	Faculty search committee member for Murdoch Family Endowed Professor in Chemical Engineering
2019-2020	Faculty search committee member for Graduate School Dean search
2018-2021	Clemson University School of Health Research (CUSHR) Appointment Committee member
2017-2020	Faculty review committee member for Provost's Distinguished Professor Program
2017-2018	Clemson University Faculty search committee member for: <ul style="list-style-type: none"> <li>• Jenkins Endowed Professor of Automotive Engineering</li> <li>• Thomas L. Hash Endowed Chair SmartState Endowed Chair in Sustainable Development</li> </ul>
2016-2017	Clemson University Faculty Search Committee member for: <ul style="list-style-type: none"> <li>• Smart State Chair in Automotive Systems Integration</li> </ul>
2016	Participated in video interview for closeout of Clemson University 'Will to Lead' campaign
2015-2016	Clemson University Faculty Search Committee member (Provost appointee) for: <ul style="list-style-type: none"> <li>• Hansjörg Wyss Endowed Chair for Regenerative Medicine</li> <li>• Benmosche Endowed Chair in Civil Engineering</li> <li>• Norville Endowed Chair in Bioengineering</li> </ul>
2015-2016	Search Committee member for Smart State Endowed Chair in Human Factors and Clinical Practice at MUSC
2015-2017	Faculty Scholar with the Clemson University School of Health Research (CUSHR)
2015	Committee member - Clemson University's 2020 Road Map, Phase 2: Recruiting and Retaining Top Faculty/ Mentoring Junior Faculty

## EDITORIAL COMMITTEES AND SERVICE

2014-2020	Editorial Board member, Environment and Behavior Journal
2008-2020	Editorial Board member, Health Environments Research and Design Journal
2018-2020	Editorial Board member, Perioperative Care and Operating Room Management (PCORM)
2019	Peer reviewer, Ph.D Symposium on Divergence in Architectural Research
2006-2020	Peer reviewer, Health Environments Research and Design Journal
2006-2020	Peer reviewer, Environment & Behavior Journal
2019-2020	Peer reviewer, Journal of Aging and the Environment
2015-2018	Peer reviewer, Journal of Patient Safety
2006-2014	Peer reviewer, Applied Ergonomics
2006-2014	Peer reviewer, Science of the Total Environment, International Journal of Nursing Studies
2006-2014	Peer reviewer, International Journal of Nursing Studies
2006-2014	Peer reviewer, International Psychogeriatrics
2006-2014	Peer reviewer, Journal of Applied Gerontology



- Joseph, A.,** Henriksen, K., & Malone, E. (2018). The Architecture Of Safety: An Emerging Priority For Improving Patient Safety. *Health Affairs*, 37(11), 1884-1891. doi:10.1377/hlthaff.2018.0643  
<https://www.healthaffairs.org/doi/10.1377/hlthaff.2018.0643>
- Joseph, A.,** Khoshkenar, A., Taaffe, K. M., Catchpole, K., Machry, H., & Bayramzadeh, S. (2018). Minor flow disruptions, traffic-related factors and their effect on major flow disruptions in the operating room. *BMJ Quality & Safety*. doi:10.1136/bmjqs-2018-007957  
<https://qualitysafety.bmj.com/content/early/2018/08/29/bmjqs-2018-007957>
- Mousavi, E. S., Jafarifiroozabadi, R., Bayramzadeh, S., **Joseph, A.,** & San, D. (2018). An observational study of door motion in operating rooms. *Building and Environment*, 144, 502-507. doi:<https://doi.org/10.1016/j.buildenv.2018.08.052>  
<https://www.sciencedirect.com/science/article/pii/S0360132318305262>
- Joseph, A.,** Allison, D., Joshi, R. (Editors) (2018). Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR). (Internal CHFDT publication)  
[http://issuu.com/clemsonchfdt/docs/ripchd.or\\_volume\\_2](http://issuu.com/clemsonchfdt/docs/ripchd.or_volume_2)
- Joseph, A.,** Wingler, D. & Allison, D. (Editors) (2016). Realizing Improved Patient Care through Human-Centered Design in the Operating Room (RIPCHD.OR). (Internal CHFDT publication)  
[http://issuu.com/clemsonchfdt/docs/ripchd.or\\_volume\\_1/1](http://issuu.com/clemsonchfdt/docs/ripchd.or_volume_1/1)
- Quan, X., **Joseph, A.,** Nanda, U., Moyano-Smith, O., Kanakri, S., Ancheta, C., & Loveless, E. A. (2016). Improving Pediatric Radiography Patient Stress, Mood, and Parental Satisfaction Through Positive Environmental Distractions: A Randomized Control Trial. *J Pediatr Nurs*, 31(1), e11-22. doi:10.1016/j.pedn.2015.08.004  
<http://www.sciencedirect.com/science/article/pii/S0882596315002456>
- Joseph, A.,** Choi, Y.-S., & Quan, X. (2015). Impact of the Physical Environment of Residential Health, Care, and Support Facilities (RHCSF) on Staff and Residents: A Systematic Review of the Literature. *Environment and Behavior*. doi:10.1177/0013916515597027  
<http://eab.sagepub.com/content/early/2015/07/24/0013916515597027.abstract>
- Nanda, U., **Joseph, A.,** & Malone, E. (2013). Impact of affordable care on healthcare design. *Contract*, October 2013: [http://www.nxtbook.com/nxtbooks/nielsen/contract\\_201310/index.php?startid=Cover1&WidgetId=null&BookId=2c1f9bb117934dcd7661a3cb9dd2f4b2#/106](http://www.nxtbook.com/nxtbooks/nielsen/contract_201310/index.php?startid=Cover1&WidgetId=null&BookId=2c1f9bb117934dcd7661a3cb9dd2f4b2#/106)
- Joseph, A.,** & Malone, E. (2012). The Environment: An Often Unconsidered Patient Safety Tool. *AHRQ WebM&M: Morbidity and Mortality Rounds on the Web*. From <http://webmm.ahrq.gov/perspective.aspx?perspectiveID=130>
- Nanda, U., Malone, E., & **Joseph, A.** (2012). Achieving EBD goals through flooring selection & design. Concord, CA: The Center for Health Design.  
<http://www.healthdesign.org/chd/knowledge-repository/achieving-ebd-goals-through-flooring-selection-design>
- Taylor, E., Quan, X., Nanda, U., & **Joseph, A.** (2012). Creating standardization for Post-Occupancy Evaluation. *Healthcare Design Magazine*, October 8, 2012.  
<http://www.healthcaredesignmagazine.com/article/creating-standardization-post-occupancy-evaluations>
- Joseph, A.,** & Quist, C. (2012, March 15). Building a foundation for EBD research. *Healthcare Design Magazine*.  
<http://www.healthcaredesignmagazine.com/article/building-foundation-ebd-research?page=show>
- Quan, X., & **Joseph, A.** (2011, December 13). Creating a foundation for evidence-based healthcare design research and practice. *Healthcare Design Magazine*.  
<http://www.healthcaredesignmagazine.com/article/creating-foundation-evidence-based-healthcare-design-research-and-practice>
- Gandhi, T., & **Joseph, A.** (2011). Getting it right the first time: A process-driven facility design approach at Virtua Health. *Healthcare Design Magazine*, March 31, 2011.

<http://www.healthcaredesignmagazine.com/article/getting-it-right-first-time-process-driven-facility-design-approach-virtua-health>

Quan, X., Malone, E., **Joseph, A.** & Pati, D. (2011). Healthcare Environmental Terms and Outcome Measures: An Evidence-Based Design Glossary. Concord, CA: The Center for Health Design.

<http://www.healthdesign.org/chd/knowledge-repository/healthcare-environmental-terms-and-outcome-measures-evidence-based-design-g>

**Joseph, A.**, Keller, A., Taylor, E., & Quan, X. (2011). Designing safety-net clinics for cultural sensitivity (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.

<http://www.chcf.org/~media/MEDIA%20LIBRARY%20Files/PDF/D/PDF%20DesigningClinicsCulturalSensitivity.pdf>

Taylor, E., **Joseph, A.**, Keller, A., & Quan, X. (2011). Designing safety-net clinics for flexibility (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.

<http://www.chcf.org/~media/MEDIA%20LIBRARY%20Files/PDF/D/PDF%20DesigningClinicsFlexibility.pdf>

Quan, X., **Joseph, A.**, Keller, A., & Taylor, E. (2011). Designing safety-net clinics for innovative care delivery models (White Paper). Promising Practices in Safety-Net Clinic Design. California: The Center for Health Design/California Healthcare Foundation.

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<http://www.healthcaredesignmagazine.com/article/healthcare-design-trends-india>

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<http://www.healthcaredesignmagazine.com/article/hcd10-has-use-evidence-based-design-changed-last-year>

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<http://www.ltlmagazine.com/article/evidence-support-sage-design-principles>

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[http://www.cleanroomtechnology.com/technical/article\\_page/Less\\_infectious\\_by\\_design/51444](http://www.cleanroomtechnology.com/technical/article_page/Less_infectious_by_design/51444)

**Joseph, A.** (2006). Health promotion by design in long-term care settings Concord, CA: The Center for Health Design

<http://www.healthdesign.org/chd/knowledge-repository/health-promotion-design-long-term-care-settings>

**Joseph, A.** (2006). The role of the physical environment in promoting health, safety, and effectiveness in the healthcare workplace Concord, CA: The Center for Health Design.

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**Joseph, A.** (2006). The Impact of Design on Infections in Healthcare Facilities. Concord, CA: The Center for Health Design

**Joseph, A.** (2006). The Impact of Light on Outcomes in Healthcare Settings. Concord, CA: The Center for Health Design

<http://www.healthdesign.org/chd/knowledge-repository/impact-light-outcomes-healthcare-settings>

**Joseph, A.** (2006). Sound Control for Improved Outcomes in Healthcare Settings. Concord, CA: The Center for Health Design

<http://www.healthdesign.org/chd/knowledge-repository/sound-control-improved-outcomes-healthcare-settings>

**Joseph, A.**, Bosch, S., Frederick, C., & Jackson, M. (2007). Researching the effectiveness of a participatory evidence-based design process. Healthcare Design, 7, 8-10.

<http://www.healthcaredesignmagazine.com/article/researching-effectiveness-participatory-evidence-based-design-process?page=3>

**Joseph, A.**, & Fritz, L. (2006, March). Ceiling lifts reduce patient-handling injuries. Healthcare Design, 6, 10-13.

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