

CURRICULUM VITAE

DATE PREPARED: March 25, 2019

STUDY GROUP: I-PASS

Executive Council:

Nancy D. Spector, Chair	St. Christopher's Hospital for Children, Drexel University College of Medicine
Christopher P. Landrigan, PI	Boston Children's Hospital, Harvard Medical School
Theodore C. Sectish	Boston Children's Hospital, Harvard Medical School
Rajendu Srivastava	Intermountain Healthcare, University of Utah SOM
Daniel C. West	Benioff Children's Hospital, University of California-San Francisco SOM
Amy J. Starmer	Boston Children's Hospital, Harvard Medical School

Affiliated Hospitals:

1. Boston Children's Hospital, Boston, MA, 02115, United States
2. Arkansas Children's Hospital, Little Rock, AR, 72202, United States
3. AtlantiCare, Atlantic City, NJ, 08401, United States
4. Benioff Children's Hospital, San Francisco, CA, 94158, United States
5. Boston Children's Hospital, Boston, MA, 02115, United States
6. Boston Medical Center, Boston, MA, 02118, United States
7. Brandeis University, Waltham, MA, 02453, United States
8. Brigham and Women's Hospital, Boston, MA, 02120, United States
9. Children's Hospital at Montefiore, Bronx, NY, 10467, United States
10. Children's Mercy Kansas City, Kansas City, MO, 64108, United States
11. Children's Hospital Colorado, Aurora, CO, 80045, United States
12. Children's Hospital Los Angeles, Los Angeles, CA, 90027, United States
13. Children's Hospital of Michigan DMC, Detroit, MI, 48201, United States

14. Children's Hospital of Philadelphia, Philadelphia, PA, 19104, United States
15. Children's National Health System, Washington, DC, 20010, United States
16. Cincinnati Children's Hospital Medical Center, Cincinnati, OH, 45229, United States
17. Cohen Children's Medical Center, New Hyde Park, NY, 11040, United States
18. Doernbecher Children's Hospital, Portland, OR, 97239, United States
19. Franciscan Hospital for Children, Brighton, MA, 02135, United States
20. Golisano Children's Hospital, Rochester, NY, 14642, United States
21. Gwinnett Medical Center, Lawrenceville, GA, 30046, United States
22. Hackensack Meridian Health Mountainside Medical Center, Montclair, NJ, 7042, United States
23. Hospital for Sick Children, Toronto, ON, M5G 1X8, Canada
24. Hurley Medical Center, Flint, MI, 48503, United States
25. Intermountain Healthcare Medical Center, Salt Lake City, UT, 84113, United States
26. Johns Hopkins Bayview Medical Center, Baltimore, MD, 19131, United States
27. Johns Hopkins Children's Center, Baltimore, MD, 21287, United States
28. Kapi'olani Medical Center for Women and Children, Honolulu, HI, 96826, United States
29. Lankenau Medical Center, Wynnewood, PA, 19096, United States
30. Levine Children's Hospital, Charlotte, NC, 28203, United States
31. Lucile Packard Children's Hospital Stanford, Palo Alto, CA, 94304, United States
32. Maimonides Medical Center, Brooklyn, NY, 11219, United States
33. Massachusetts General Hospital, Cambridge, MA, 02139, United States
34. Mayo Clinic, Rochester, MN, 55905, United States
35. Medical University of South Carolina Children's Health, Charleston, SC, 29425, United States
36. Mount Auburn Hospital, Cambridge, MA, 02138, United States
37. New Hanover Regional Medical Center, Wilmington, NC, 28401, United States

38. New York University Langone Medical Center, New York, NY, 10016, United States
39. New York-Presbyterian Hospital Queens, Queens, NY, 11355, United States
40. North Shore Medical Center, Salem, MA, 01970, United States
41. Primary Children's Hospital, Salt Lake City, UT, 84113, United States
42. Rady Children's Hospital San Diego, San Diego, CA, 92123, United States
43. Sanford Children's Hospital, Sioux Falls, SD, 57117, United States
44. Sparrow Hospital, East Lansing, MI, 48824, United States
45. St. Christopher's Hospital for Children, Philadelphia, PA, 19134, United States
46. St. Louis Children's Hospital, St. Louis, MO, 63110, United States
47. Sunnybrook Health Sciences Centre, Toronto, ON, Canada, M5G 1X8, United States
48. Toledo Children's Hospital, Toledo, OH, 43606, United States
49. Trident Medical Center, North Charleston, SC, 29406, United States
50. University of California Davis Medical Center, Sacramento, CA, 95817, United States
51. University of California San Diego Health, San Diego, CA, 92103, United States
52. University of Cincinnati Medical Center, Cincinnati, OH, 45219, United States
53. University of New Mexico Clinical & Translational Science Center, Albuquerque, NM, 87106, United States
54. Virginia Commonwealth University Hospital, Richmond, VA, 23219, United States
55. Waianae Coast Comprehensive Health Center, Waipahu, HI, 96797, United States
56. Walter Reed National Military Medical Center, Bethesda, MD, 20889, United States

Affiliated Medical Schools:

1. Boston University School of Medicine, Boston, MA, 02118, United States
2. Brandeis University, Waltham, MA, 02453, United States
3. Drexel University College of Medicine, Philadelphia, PA, 19134, United States
4. George Washington University School of Medicine and Health Sciences, Washington, DC, 20010, United States

5. Harvard Medical School, Boston, MA, 02115, United States
6. Hofstra Northwell School of Medicine, New Hyde Park, NY, 11040, United States
7. Johns Hopkins School of Medicine, Baltimore, MD, 19131, United States
8. Medical University of South Carolina, Charleston, SC, 29425, United States
9. Michigan State University College of Human Medicine, Flint, MI, 48503, United States
10. Michigan State University College of Human Medicine, East Lansing, MI, 48824, United States
11. New York University School of Medicine, New York, NY, 10016, United States
12. Oregon Health and Science University, Portland, OR, 97239, United States
13. Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, 19104, United States
14. Stanford School of Medicine, Stanford, CA, 94305, United States
15. Uniformed Services University of the Health Sciences, Bethesda, MD, 20889, United States
16. University of Arkansas School for Medical Sciences, Little Rock, AR, 72202, United States
17. University of California Davis School of Medicine, Sacramento, CA, 95817, United States
18. University of California San Diego School of Medicine, San Diego, CA, 92123, United States
19. University of California San Diego School of Medicine, San Diego, CA, 92103, United States
20. University of California San Francisco School of Medicine, San Francisco, CA, 94158, United States
21. University of Cincinnati College of Medicine, Cincinnati, OH, 45229, United States
22. University of Cincinnati College of Medicine, Cincinnati, OH, 45219, United States
23. University of Hawaii John A Burn School of Medicine at Manoa, Waipahu, HI, 96797, United States
24. University of Hawaii John A. Burns School of Medicine, Honolulu, HI, 96826, United States
25. University of Missouri-Kansas City School of Medicine, Kansas City, MO, 64108, United States
26. University of New Mexico School of Medicine, Albuquerque, NM, 87106, United States
27. University of Rochester School of Medicine, Rochester, NY, 14642, United States
28. University of Toronto, Toronto, ON, Canada, M5G 1X8, United States

29. University of Utah School of Medicine, Salt Lake City, UT, 84113, United States

30. Virginia Commonwealth University, Richmond, VA, 23219, United States

31. Washington University School of Medicine in St. Louis, St. Louis, MO, 63110, United States

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HONORS AND PRIZES:

<u>Year</u>	<u>Name of Award</u>	<u>Awarding Organization</u>
2011	Ray E. Helfer Award for Innovation in Pediatric Education	Academic Pediatric Association
2012	Readiness for Reform Health Care Innovation Challenge, Honorable Mention	American Academy of Medical Colleges
2013	Leading Practices Award	Accreditation Canada
2013	Community/Patient Empowerment Award	National Pediatric Innovation Summit, Boston Children’s Hospital
2014	Top Article in Medical Education, First	Pediatric Hospital Medicine
2014	Top Article in Medical Education, Second	Pediatric Hospital Medicine
2014	Health Acceleration Challenge, Cox Award	The Forum on Health Care Innovation, a Collaboration Between Harvard Business School and Harvard Medical School
2015	Quality and Patient Safety Award	Pediatric Hospital Medicine

2016	Top Research Abstracts	Pediatric Hospital Medicine
2016	Top Pediatric Hospital Medicine Article	Society of Hospital Medicine
2016	John M. Eisenberg Patient Safety and Quality Award, National Level Innovation in Patient Safety and Quality	Joint Commission and National Quality Forum
2017	Family Advisory Council Seal of Approval	Boston Children's Hospital
2017	Paper of the Month	Swiss Patient Safety Foundation
2017	Top Research Abstracts	Pediatric Hospital Medicine
2017	Achievement in Education and Scholarship	Boston Children's Hospital Academy for Teaching and Educational Scholarship and Innovation
2018	Top Research Abstract	Best of Research & Innovations, Society of Hospital Medicine Annual Meeting
2018	Presidential Plenary	American Academy of Pediatrics
2019	Lucian Leape Award	American Association of Physician Leadership, Mount Sinai Medical Center

REPORT OF FUNDED PROJECTS

Past

2009-2010	PI: Christopher P. Landrigan, MD, MPH	Harvard Risk Management Foundation	\$90,714
Implementing a Comprehensive Handoff Program to Improve Pediatric Patient Safety			
We studied the effects in a pediatric hospital of implementing a computerized handoff tool plus teamwork training. Rates of medical errors and processes of communication were assessed. (<i>JAMA</i> 2013).			
2009-2010	PI: Amy Starmer, MD, MPH	Program in Pediatric Safety and Quality, Boston Children's Hospital	
Effects of a Comprehensive Handoff Program on Resident Work Flow			
In this companion study to the Harvard RMF study above, we studied the effects of the Comprehensive Handoff Program on resident work flow using time motion techniques. These data contributed to the <i>JAMA</i> 2013 publication referred to above.			

2009-2010	PI: Christopher P. Landrigan, MD, MPH	Department of Defense (DoD) BAA01 07005001	\$371,689
Implementing a Comprehensive Handoff Program to Improve Patient Safety			
We studied the effects on resident verbal communications, written communications, workflow, and patient safety of implementing a comprehensive handoff program – implementation of a computerized handoff tool and TeamSTEPPS teamwork training – in two DoD hospitals, Walter Reed Army Medical Center and Madigan Army Medical Center.			
2010-2013	PI: Christopher P. Landrigan, MD, MPH	DHHS R18 AE000029	\$2,815,306
Bundling Effective Resident Hand Off Practices to Improve Patient Safety			
In this project (known also as the I-PASS Study), the Pediatric Research in Inpatient Settings (PRIS) Network, with the support of the Initiative for Innovation in Pediatric Education, tested the effects on patient safety, care processes, and workflow of implementing a Resident Handoff Bundle (consisting of teamwork training, verbal handoff strategies, and a written/computerized handoff tool) in eight major medical centers. Additionally, we assessed the manner in which adoption across sites is affected by patient and hospital-level variables.			
2011-2013	PI: Maitreya Coffey, MD	Physicians Services Inc. Foundation (Canada)	
Improving Resident Handoff in Teaching Hospitals: Understanding Implementation and Effectiveness of a Handoff Bundle			
This companion grant to the I-PASS study provided additional funding to include the Hospital for Sick Children as a study site, and to fund additional qualitative and quantitative investigations of site specific variation in adoption of the IPASS handoff program.			
2011-2013	PI: Amy Starmer, MD, MPH	Program in Pediatric Safety and Quality, Boston Children’s Hospital	\$20,000
Effects of a Comprehensive Handoff Program on Nurse Work Flow and Verbal Handoffs (PI: Amy Jost Starmer, MD)			
In this study, we studied the effects of I-PASS on nurse handoffs and workflow.			
2012-2013	PI: Jeanne-Marie Guise, MD, MPH	AHRQ	\$1,908,589 (total direct) \$2,500 (BCH)
Oregon Comparative Effectiveness Research K12 Program			
I serve as a K12 mentor to Dr. Starmer, who was based at OHSU at the time. A small stipend is provided through the K12 for this work.			
2012-2014	PI: Alisa Khan, MD, MPH	Program in Pediatric Safety and Quality, Boston Children’s Hospital	
Effects of a Nighttime Handoff Bundle on Resident Work Flow and Patient Safety			
In this study, we evaluated the effects on parent-reported medical errors, communication processes, and resident work flow of implementing a bundle of interventions: evening family-centered rounds, a nurse-resident evening brief, and an I-PASS formatted written update for parents.			

2013-2014	PI: Alisa Khan, MD, MPH	Program in Pediatric Safety and Quality, Boston Children's Hospital	
Effects of a Nighttime Handoff Bundle on Resident Work Flow and Patient Safety			
In this study, we evaluated the effects on parent-reported medical errors, communication processes, and resident work flow of implementing a bundle of interventions: evening family-centered rounds, a nurse-resident evening brief, and an I-PASS formatted written update for parents.			
2013-2017	PI: Christopher P. Landrigan, MD, MPH	Taking on Tomorrow Innovation Program, Boston Children's Hospital	\$50,000
The I-PASS Electronic Family Signout: A Technological Innovation to Empower and Engage Families of Hospitalized Patients			
In this study, we are developing a computerized handoff tool for families, to facilitate provider-family communication during hospitalization.			
2014-2017	PI: Christopher P. Landrigan, MD, MPH	Patient Centered Outcomes Research Institute (PCORI) CDR-1306-03556	\$1,859,246
Bringing I-PASS to the Bedside: a Communication Bundle to Improve Patient Safety and Experience			
In this 8-center study that builds on the I-PASS Study, we are testing the effects on patient safety, care processes, and workflow of adapting and integrating I-PASS communication tools and strategies into family centered rounds and other family communications throughout the day. The manner in which adoption across sites is affected by patient and hospital-level variables will be assessed.			
2014-2017	PI: Christopher P. Landrigan, MD, MPH	AHRQ R18 HS023291	\$1,470,525
Mentored Implementation of I-PASS for Better Handoffs and Safer Care			
This 32-center Dissemination and Implementation project will test the effectiveness of rolling out the I-PASS Program across internal medicine and pediatrics programs nationwide. Direct observational and survey data will be collected to measure program adoption and success.			
2015-2017	PI: Katherine Brunsberg, MD	Lovejoy Resident Research Fund, Boston Children's Hospital	
Association Between Resident Burnout, Depression, and Medication Errors			
Using the I-PASS database, this study is evaluating the relationship between resident burnout, depression, and objectively collected medical errors in 9 pediatric hospitals. I serve as Dr. Brunsberg's primary mentor on this project.			
2015-2017	PI: Sharon Calaman, MD	Independence Blue Cross Simulation Grant	
Utilizing Simulation for Patient Safety: Preparing Parents/Caregivers of Children Dependent on Technology for Successful Discharge			
Simulation as an educational strategy is a growing field, with applications in clinical reasoning, team work, analyses of systems, interprofessional education, and communication among many others. In this project, Dr. Calaman helped to develop the simulation elements that are used in the I-PASS curriculum.			
2016-2017	PI: Thuy W. Ngo, DO, MEd	Johns Hopkins Children's Center Radiothon Funding	

I-PASS Handoffs			
Dr. Ngo is an Assistant Professor of Pediatrics in the Division of Pediatric Emergency Medicine at Johns Hopkins University School of Medicine and a member of our Study Group at Johns Hopkins Children's Hospital.			

2016-2018	PI: Christopher P. Landrigan, MD, MPH	CRICO	\$375,000
I-PASS: Improved Handoffs for Safer Care at CRICO Hospitals			
This 5-center project will implement I-PASS in five Harvard-affiliated hospitals. Program adoption and spread within the institutions will be closely monitored. The quality of handoffs and the incidence of handoff related care failures before vs. after implementation will be assessed.			

Current

2017-2019	PI: Amy Starmer, MD, MPH	CRICO	
Applying I-PASS to Ambulatory Settings: Improving communication and patient safety during hospital to home transitions			
This project will study the effect on patient safety of adapting I-PASS for use in preventing post-discharge medical errors. An intensive prospective surveillance methodology will be used to measure rates of medical errors, miscommunications, and readmissions, as well as the quality of the discharge process.			

2017-2019	PI: Zia Bismilla, MD, MEd, FRCPC	Paediatric Consultant's Education Research Grants	
Physician Handoff in the Era of Competency Based Medical Education: Multi-side Validation Study of a Handoff Competency Assessment Tool.			

2017-2019	PI: Zia Bismilla, MD, MEd, FRCPC	Royal College Research on Competency-based Medical Education Grant	
Assessment of physician handover in the era of competency-based medical education.			

2018-2019	PI: Thuy W. Ngo, DO, MEd	Johns Hopkins Children's Center, Division of Quality and Safety Eudowood Support	
I-PASS Handoffs			
Dr. Ngo is an Assistant Professor of Pediatrics in the Division of Pediatric Emergency Medicine at Johns Hopkins University School of Medicine and a member of our Study Group at Johns Hopkins Children's Hospital.			

2018-2021	PI: Christopher P. Landrigan, MD, MPH	PCORI (Dissemination and Implementation PFA)	\$1,864,888
Disseminating and Implementing Patient and Family Centered I-PASS			
This project seeks to disseminate and implement Patient and Family-Centered I-PASS Study in 21 diverse community and academic pediatric centers.			

Pending

2017-2020	PI: Amy Starmer, MD, MPH	AHRQ R01	
Ambulatory I-PASS			
We are applying for funding to adapting the I-PASS Handoff Program for use in Inpatient-Outpatient Transitions of Care. We plan to study the adapted program in 6 hospitals (3 pediatric, 3 adult)			

REPORT OF INVITED TEACHING AND PRESENTATIONS

Platform and Plenary Research Presentations

2011	Resident Sign-Out Practices: Results From a Multi-Site Needs Assessment	Starmer AJ, Spector ND, Landrigan CP, Sectish TC, Coffey M, Cole FS, Hepps J, Kahana M, O'Toole JK, Rosenbluth G, Stevenson AT, Bale JF.
Association of Pediatric Program Directors Meeting, Miami, FL		None
2011	Teamwork and Communication	Coffey M
SickKids International Pediatric Patient Safety Symposium, Toronto, Canada		None
2011	Impact of a Resident Handoff Bundle on Resident Workflow Patterns and Verbal Handoff Practices	Starmer AJ, Sectish TC, Simon D, Landrigan CP
Pediatric Academic Societies Annual Meeting, Denver, CO		None
2011	Impact of a Resident Handoff Bundle with Medical Error Rates and Written Handoff Miscommunications	Starmer AJ, Sectish TC, Simon D, Landrigan CP
Pediatric Academic Societies Annual Meeting, Denver, CO		None
2011	Resident Sign-Out Practices: Results From a Multi-Site Needs Assessment	Starmer AJ, Spector ND, Landrigan CP, Sectish TC, Coffey M, Cole FS, Hepps J, Kahana M, O'Toole JK, Rosenbluth G, Stevenson AT, Bale JF.
Pediatric Hospital Medicine Annual Meeting, Kansas City, MO		None
2012	Impact of a Resident Handoff Bundle on Verbal Handoff Skills	Feraco AM, Starmer AJ, Sectish TC, Landrigan CP, West DC.
Pediatric Academic Societies Annual Meeting, Boston, MA		None

2012	The I-PASS Study: Standardizing Handoffs to Improve Patient Safety	Sectish TC, Landrigan CP, Starmer AJ, Spector ND, West DC, Srivastava R
	Pediatric Academic Societies Annual Meeting, Boston, MA	None
2013	Dissemination and Implementation Science-Spreading Evidence From High-Quality Studies across Institutions to Improve Patient Outcomes	Srivastava R, Landrigan CP, Dayan PS, Conway PH, Dean JM, Homer CJ
	Pediatric Academic Societies Annual Meeting, Washington, DC	None
2014	Reliability of a Direct Observation Tool for Patient Handovers	Lopreiato JO, West DC, I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Vancouver, Canada	None
2014	Intern and Resident Workflow Patterns on General Inpatient Units: A Multi-Center Time-Motion Study	Starmer AJ, Destino LA, Yoon C, Landrigan CP, I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Vancouver, Canada	None
2014	The I-PASS Handoff Study: Effects of Implementing a Multi-Site Handoff Bundle on Rates of Medical Errors, Preventable Adverse Events, and Miscommunications	Starmer AJ and the I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Vancouver, Canada	None
2014	Physician-Parent Miscommunication in the Hospital at Night	Khan A, Rogers J, Forster C, Schuster M, Landrigan CP
	Pediatric Academic Societies Annual Meeting, Vancouver, Canada	None
2014	Social Impediments of Structured Handoffs in a Professional Context: A Qualitative Study of I-PASS Implementation	Thomson K, Coffey M, Bismilla Z, Spector ND, Mahant S
	Pediatric Academic Societies Annual Meeting, Vancouver, Canada	None
2014	The I-PASS Handoff Study: Effects of Implementing a Multi-Site Handoff Bundle on Rates of Medical Errors,	Starmer and the I-PASS Study Group

	Preventable Adverse Events, and Miscommunications	
	Canadian Paediatric Society Meeting, Montreal, Canada	None
2014	Resident Attitudes and Adherence to I-PASS: A Qualitative Study	Coffey M, Thomson K, Starmer AJ, Landrigan CP, I-PASS Study Group
	Canadian Paediatric Society Meeting, Montreal, Canada	None
2014	Intern and Resident Workflow Patterns on General Inpatient Units: A Multi-Center Time-Motion Study.	Starmer AJ, Destino LA, Yoon C, Landrigan CP, I-PASS Study Group
	Pediatric Hospital Medicine Annual Meeting, Orlando, FL	None
2014	Impact of the I-PASS Study's Faculty Development Program	O'Toole JK and the I-PASS Study Group
	Pediatric Hospital Medicine Annual Meeting, Orlando, FL	None
2014	Improvement of Patient Handoffs between Attending Hospitalists Utilizing the I-PASS Handoff Bundle and Direct Peer Observation	Shilpa J Patel, Jennifer R. Di Rocco, Cheryl Okado, Chieko Kimata
	Institute for Healthcare Improvement, Orlando, FL	None
2015	Assessment of Resident Patient Handoff Skills: Validity Evidence Supporting the Use of a Structured Clinical Observation Tool to Make Competency and Entrustment Decisions	West DC and the I-PASS Study Group
	APPD Annual Meeting, Orlando, FL	None
2015	Variation in resident time spent with patient and families: a closer look at time motion data from the I-PASS study	Destino LA, Valentine M, Starmer AJ, and Landrigan CP
	Pediatric Academic Societies Annual Meeting, San Diego CA	None
2015	Better Handoffs, Safer Care! Optimizing Communication and Teamwork	Landrigan CP
	Vermont Oxford Network Annual Meeting, Chicago, IL	None
2016	Bringing I-PASS to the Bedside: Partnering with Families, Nurses, and Physicians to Reduce Medical Errors, Improve Communication, and Enhance Family Experience	Khan A, Landrigan CP, Haskell H, Dreyer BP, Spector ND, West DC
	Pediatric Academic Societies Annual Meeting, Baltimore MD	None

2016	Pediatric Patient-Centered Outcomes Research: What is it and how do I do it?	Landrigan CP and the I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Baltimore MD	None
2016	Parents as Partners in Medical Error and Adverse Event Surveillance	Khan A, Coffey M, Litterer KP, Baird JD, Furtak SL, Garcia BM, Ashland MA, Calaman S, Kuzma NC, O'Toole JK, Patel A, Rosenbluth G, Destino LA, Everhart JL, Good BP, Hepps JH, Dalal AK, Lipsitz SR, Yoon CS, Zigmont KR, Srivastava R, Starmer AJ, Sectish TC, Spector ND, West DC, Landrigan CP and the Patient and Family Centered I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Baltimore MD	None
2016	Mentored Implementation of the I-PASS Handoff Program in Diverse Clinical Environments	Khan A, Coffey M, Litterer KP, Baird JD, Furtak SL, Garcia BM, Ashland MA, Calaman S, Kuzma NC, O'Toole JK, Patel A, Rosenbluth G, Destino LA, Everhart JL, Good BP, Hepps JH, Dalal AK, Lipsitz SR, Yoon CS, Zigmont KR, Srivastava R, Starmer AJ, Sectish TC, Spector ND, West DC, Landrigan CP, and the Patient and Family Centered I-PASS Study Group
	Pediatric Hospital Medicine Annual Meeting, Chicago, IL	None
2016	Resident Sign-Out Practices: Results From a Multi-Site Needs Assessment	Starmer AJ, O'Toole JO, Spector ND, West DC, Sectish TC, Schnipper J, Srivastava R, Goldstein J, Campos ML, Howell E, Landrigan CP, SHM I-PASS Study Group
	Institute for Healthcare Improvement Scientific Symposium, Orlando, FL	None
2016	Linking Residency Training with Quality Care: Education in Action	Landrigan CP
	International Conference of Residency Educators Annual Meeting, Niagara Falls, ON	None
2016	IPASS: Lessons and Best Practices for Improving Provider Communication and Transitions in Care	Mueller S, Shellman A
	Quality, Safety, and Process Improvement: Building a High Performing Organization, National CME Conference, Boston, MA	None

2016	Addressing Communication Gaps in Transitions of Care	Landrigan CP
Mind the Gaps Symposium: Avoiding the Risks of Communication Failures in Patient Care, Boston, MA		None
2017	Handoff Communication between Outpatient Clinics and the Emergency Department	Huth K, Stack A, Chi G, Shields R, Jorina M, Spector N, West D, Landrigan C, Starmer A
APA Region 1 Annual Meeting, Waltham, MA		None
2017	Mentored Implementation of the I-PASS Handoff Program in Diverse Clinical Environments	Starmer AJ, O'Toole JK, Spector ND, West DC, Sectish TC, Schnipper J, Srivastava R, Goldstein J, Campos M, Howell E, Landrigan CP, SHM I-PASS Study Group
Pediatric Academic Societies Annual Meeting, San Francisco, CA		None
2017	Changes in communication and patient safety following implementation of inter-professional Patient and Family Centered I-PASS	Khan A, Patient and Family Centered I-PASS Study Group
Pediatric Academic Societies Annual Meeting, San Francisco, CA		None
2017	Association of Resident Depression with Harmful Medical Errors	Brunsborg KA, Landrigan CP, Garcia BM, Petty CR, Sectish TC, Simpkin AL, Spector ND, Starmer AJ, West DC, Calaman S
Pediatric Academic Societies Annual Meeting, San Francisco, CA		None
2017	Patient and Family Centered I-PASS: Improved Communication and Safety	Khan A, Patient and Family Centered I-PASS Study Group
Pediatric Hospital Medicine Annual Meeting, Nashville, TN		None
2017	Innovations in Patient Safety: Sleep, Work Schedules, and Handoffs of Care	Landrigan CP
Clinical and Scientific Innovations for Oral and Maxillofacial Surgery Annual Conference, Rosemont, IL		American Association of Oral and Maxillofacial Surgeons
2017	Engaging Families in I-PASS to Improve Safety	Khan A, Baird JD, Micalizzi D, Landrigan CP, Spector ND, Patient and Family Centered I-PASS Study Group
Institute for Healthcare Improvement (IHI) Annual National Forum on Quality Improvement in Health Care, Orlando, FL		None

2017	Improving Diagnosis by Engaging Families in Hospital Communication and Safety	Khan A
4 th Annual Patient Summit on Diagnosis/Society to Improve Diagnosis in Medicine Annual Conference, Boston, MA		None
2018	Improving Patient Safety by Engaging Families in Hospital Communication	Khan A, Baird JD, Landrigan CP, Patient and Family Centered I-PASS Study Group
Quality & Safety in Children's Health, Children's Hospital Association Annual Conference, San Diego, CA		None
2018	Engaging Families to Improve Patient Safety	Baird JD, Patel A, Ashland M, Khan A, Patient and Family Centered I-PASS Study Group
Patient Family Centered Care Annual Conference, San Diego, CA		None
2018	Mentored Implementation of the I-PASS Handoff Program in Diverse Clinical Environments	Starmer A, I-PASS Study Group
Society of Hospital Medicine Annual Meeting, Orlando, FL		None
2018	Beyond End-of-Shift Handoffs: Adapting and Implementing Handoff Improvement Programs Across a Variety of Clinical Settings	Starmer A, Hoffman J, Burlison J, I-PASS Study Group
Society of Hospital Medicine Annual Meeting, Orlando, FL		None
2018	Handoff Quality after Adapting I-PASS to the Neonatal Intensive Care Unit (NICU)	Quinones Cardona V, LaBadie A, May-Rabbach J, Zubrow A, Touch S
Eastern Society for Pediatric Research Annual Meeting, Philadelphia, PA		None
2018	Implementation of an I-PASS Curriculum Adapted for a Level IV Neonatal Intensive Care Unit (NICU)	LaBadie A, Quinones Cardona V, May-Rabbach J, Zubrow A, Touch S
Eastern Society for Pediatric Research Annual Meeting, Philadelphia, PA		None
2018	Reducing Communication Failures by Adapting I-PASS to the Neonatal Intensive Care Unit (NICU)	Quinones Cardona V, LaBadie A, Cooperberg D, Zubrow A, Touch S
Eastern Society for Pediatric Research Annual Meeting, Philadelphia, PA		None

2018	Engaging Families and Teams in I-PASS to Improve Patient Safety and Experience	Baird J, Ashland M, Khan A, Patient and Family Centered I-PASS Study Group
Beryl Institute Patient Experience Conference, Chicago, IL		None
2018	Engaging Families to Improve Patient Safety	Khan A, Everhart J, Good B, Kuzma N, Litterer K, Rogers J, Patel S, Patient and Family Centered I-PASS Study Group
Institute for Healthcare/National Patient Safety Foundation Patient Safety Congress, Boston, MA		None
2018	Role of Limited English Proficiency in Rates of Adverse Events in Hospitalized Children	Khan A, Yin S, Ramotar M, Spector N, Landrigan C, Dreyer B, Patient and Family Centered I-PASS Study Group
Presidential Plenary, Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	Preventable Adverse Events in Hospitalized Children with Medical Complexity	McBride S, Landrigan CP, Toomey S, Stockwell D, Liu S, Westfall M, Palama B, Parry G, Schuster M
Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	Promotion of the Clinician Educator - What is the Recipe for Success?	Spector N, Peltier C, Burman N, Bhansali P
Faculty Development Special Interest Group, Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	Health Care Value/Patient and Family Centered Care Special Interest Group	Desai A, Benz L, Khan A, Schroeder A, Schickedanz A, Quinonez R
Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	A Mixed-Methods Analysis of Resident Handoff Synthesis Statements	Helen Hughes, MD, MPH, Laetitia Zhang, Brandon Smith, MD, Julia Kim, MD, MPH, Megan Tschudy, MD, MPH, Janet Serwint, MD
Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	Setting Your Agenda for Safety: Improving Handoffs, Embracing Pharmacogenomics, and Maximizing Your Current Program	Starmer AJ, Hoffman J
American Society of Health-System Pharmacists Summer Meeting, Denver, CO		None

2018	So You Think You Can Round?	Khan A, Subramony A, Baird J, Ashland J, Rosenbluth G, Patient and Family Centered I-PASS Study Group
	Pediatric Hospital Medicine Annual Meeting, Atlanta, GA	None

2018	Adverse Events in Hospitalized Children: The Role of Limited English Proficiency	Khan A, Yin S, Ramotar M, Williams D, Spector N, Landrigan C, Dreyer B, Patient and Family Centered I-PASS Study Group
	Pediatric Hospital Medicine Annual Meeting, Atlanta, GA	None

2018	Patient and Family Centered I-PASS and Family Safety Reporting	Khan A
	Massachusetts Coalition for the Prevention of Medical Errors Patient Safety Forum, Framingham, MA	None

2018	Patient and Family Centered I-PASS	Landrigan C
	PCORI Annual Meeting, Washington, DC	None

Invited Talks

2010	Pediatric Patient Safety and Handoff Errors	Landrigan CP
	St Louis Children's Hospital, Washington University at St Louis School of Medicine	None

2010	Patient Handoffs – Zero Patient Fumbles	Landrigan CP
	U.S. Department of Defense Patient Safety Learning Action Network, Webinar	None

2011	Improving Resident Handoffs – the I-PASS Study	Landrigan CP
	Association of Pediatric Program Directors Meeting, Miami, FL	None

2011	Resident Work Hours and Handoffs: the Changing Face of Patient Safety in North America	Landrigan CP, Starmer, AJ
	Department of Pediatrics, Hospital for Sick Children	None

2011	The I-PASS Handoff Study	O'Toole JK
	University of Cincinnati, GME Program Director's Committee Quarterly Meeting, Cincinnati, OH	None

2011	Bundling Effective Handoff Tools to Improve Patient Safety: A Multi-center Pediatric Residency Quality Improvement Initiative	Starmer AJ, Landrigan CP
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	Pediatric Outcomes Research Team Rounds, Hospital for Sick Children, Toronto, Canada	None
2012	Improving Handoffs: the Children's Hospital Boston Experience	Landrigan CP
	Children's Hospital Association Collaborative, Webinar	None
2012	Handover and Communication – Do Team Structures and Process Make a Difference?	Landrigan CP
	Patient Safety Manager's Forum, Clinical Excellence Commission, New South Wales, Australia	None
2012	Building Safer Hospital Microsystems – Improving Work Schedules & Handovers	Landrigan CP
	Department of Pediatrics, Sydney Children's Hospital, Sydney, Australia	None
2012	Optimizing Handovers of Patient Care	Rosenbluth G
	Continuing Medical Education, Grand Cayman, Cayman Islands	None
2012	Design of Learning Environments in Medicine	Spector ND
	Masters in Medical Education Inaugural Session, University of Pennsylvania, Philadelphia, PA	None
2013	Reaching Up and Across to Meet New ACGME Requirements for Patient Safety, Transitions of Care, and Teamwork	Autry AM, Wilson S, Lorenson M, Jacobson GF, Mandel SM
	Council on Resident Education in Obstetrics and Gynecology & Association of Professors of Gynecology and Obstetrics Annual Meeting, Phoenix, AZ	None
2013	Improving Patient Handover: Need to Engage Medical Educators	Coffey T, Bismilla Z
	Department of Medicine/Education Symposium at Sunnybrook Health Sciences Centre, Toronto, Canada	None
2013	The I-PASS KidCare Handoff List	Bismilla Z
	Hospital for Sick Children Medical Staff Association Meeting, Toronto, Canada	None
2013	I-PASS: A Novel Bundled Handoff Intervention	Coffey M, Landrigan CP, Starmer AJ, Spector ND, Bismilla Z
	Canadian Association of Pediatric Health Centres, Webinar	None

2014	I-PASS Canada	Bismilla Z
	Children's Hospital of Western Ontario, London Health Science Centre University of Western Ontario, Ontario, Canada	None
2014	I-PASS Handoff Process: Considerations for implementing I-PASS institution wide	Landrigan CP, Sectish TC
	St. Christopher's Hospital for Children, Philadelphia, PA	None
2014	I-PASS Handoff	Bismilla Z
	Department of Pediatrics, University of Alberta, Edmonton, Canada	None
2014	Changes in Medical Errors after Implementation of a Handoff Program	Bismilla Z
	Sunnybrook Department of Medicine Journal Club, Toronto, Canada	None
2015	I-PASS: Improved Handoffs for Safer Care at CRICO Hospitals	Landrigan CP
	Senior Clinical Leadership Committee, Boston Children's Hospital, Boston, MA	None
2015	Addressing Medical Errors Due to Miscommunication: The I-PASS Program	Landrigan CP
	National Patient Safety Foundation, Webinar	None
2015	The I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care	Spector ND
	Maryland Chapter of the Society of Hospital Medicine, Baltimore, MD	None
2015	I-PASS: Handoffs and Beyond	Everhart JL
	Noon Conference, Children's Hospital of Eastern Ontario, Ottawa, CA	None
2015	I-PASS Handoff Program	Spector ND, Landrigan CP
	Consumers Advancing Patient Safety, Webinar	None
2015	Better Handoffs with I-PASS	Landrigan CP
	Boston Children's Hospital Clinical Quality Committee, Boston Children's Hospital, Boston, MA	None
2015	I-PASS: Integrating High Quality Handoffs into TeamSTEPPS and Hospital Care	Landrigan CP, Yu CE

U.S. Department of Defense Patient Safety Learning Action Network, Webinar		None
2015	I-PASS: Better Handoffs-Safer Care	Landrigan CP, Spector ND
Consumers Advancing Patient Safety Signature Series, Webinar		None
2015	The I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care	Sectish TC
Flying Physicians Association Annual Meeting, Hanover, NH		None
2015	Better Handoffs, Safer Care: The I-PASS Handoff Study and Medical Errors	Rosenbluth G
Healthcare in the 21st Century CME Course, University of California San Francisco School of Medicine, San Francisco, CA		None
2015	The I-PASS Handoff Program	Starmer AJ
A PerfectServe, Webinar		None
2015	The I-PASS Study	Landrigan CP, Starmer AJ
Harvard Masters in Medical Education Students, Cambridge, MA		None
2015	The I-PASS Handoff Program Considerations for Institution-Wide Implementation	Bismilla Z, Starmer AJ
Arkansas Children's Hospital, Little Rock, AR		None
2015	I-PASS: Family Engagement in Family Centered Rounds	Subramony A
Family Engagement in Quality and Safety Symposium		None
2015	Game On! How the I-PASS Study Group Achieved Patient Safety Goals and Promoted Professional Development and Scholarship	Spector ND
Core Entrustable Professional Activities for Entering Residency, Association of American Medical Colleges, Washington, DC		None
2016	I-PASS: Handoff Communications Standardization Program for VA Hospitals	Landrigan CP
Veteran's Administration National Center for Patient Safety, Webinar		None

2016	The I-PASS Handoff Study and Beyond: Lessons from an Educational Quality Improvement Project	Hepps J
	Annual REACH Quality Improvement Symposium, East Carolina University, Greenville, NC	None
2016	Addressing Communication Gaps in Transitions of Care	Landrigan CP
	Mind the Gaps Symposium: Avoiding the Risks of Communication Failures in Patient Care, Boston, MA	None
2016	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Patel SJ
	Division of Pediatric Hospital Medicine, Children's Hospital of Colorado, Aurora, CO	None
2016	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Calaman S
	Faculty Development Session, Children's Hospital Montefiore, Bronx, NY	None
2016	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Patel SJ
	Division of Pediatric Hospital Medicine, University of New Mexico, Albuquerque, NM	None
2016	Mentored Implementation of the I-PASS Handoff Program in Diverse Clinical Environments	Starmer AJ, O'Toole JK, Spector ND, West DC, Sectish TC, Schnipper J, Srivastava R, Goldstein J, Campos M, Howell E, Landrigan CP and SHM I-PASS Study Group
	Institute for Healthcare Improvement Scientific Symposium, Orlando, FL	None
2016	The I-PASS Story: How the I-PASS Study Group Aims to Achieve Patient Safety Goals and Promotes Professional Development and Scholarship	Spector, ND
	Abraham H. Finkelstein Memorial Lecture, Department of Pediatrics, University of Maryland Children's Hospital, University of Maryland School of Medicine, College Park MD	None

2016	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Calaman S, Sectish TC
	Faculty Development Session, Lankenau Medical Center, Wynnewood, PA	None
2016	The I-PASS Institute: Transforming Health Care Delivery	Landrigan CP
	Harvard Business School, Boston, MA	None
2017	The I-PASS Story: Patient Safety & the Promotion of Professional Development and Safety	Spector ND
	Research Block Session, University of Pennsylvania Medical Program, Philadelphia, PA	None
2017	Sleep Deprivation, Resident Physicians, and Patient Safety	Landrigan CP
	National Patient Safety Foundation, Webinar	None
2017	I-PASS: Addressing Miscommunication and Medical Error	Landrigan CP
	Midwest Medical Insurance Company, Webinar	None
2017	Perioperative Handoffs: Achieving Consensus on how to get it Right	Srivastava R
	Anesthesia Patient Safety Foundation Consensus Conference, Phoenix, AZ	None
2017	Simulation Integrated into Educational Research - the I-PASS Experience	Calaman S
	Pediatric Academic Societies Annual Meeting, San Francisco, CA	None
2017	The I-PASS Study	Landrigan CP
	Harvard Masters in Medical Education, Cambridge, MA	None
2017	I-PASS: An Overview	Landrigan CP
	House Staff Patient Safety and Quality Council, Massachusetts General Hospital. Boston, MA	None
2017	I-PASS: from Pilot CRICO Project to Multi-Center Project and Beyond	Landrigan CP
	Controlled Risk Management Insurance Company, Boston, MA	None
2017	Physician Handoffs and Patient Safety	Landrigan CP

Allergy Lecture Series, Department of Medicine, Boston Children's Hospital, Boston, MA	None
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2017	I-PASS: Improving, Disseminating, and Sustaining Safer Handoffs	Landrigan CP
Massachusetts Coalition for the Prevention of Medical Errors Patient Safety Forum, Framingham, MA	None	

2017	Family Centered Rounds and Communication with Families	Landrigan CP
Hospital Medicine and Family Centered Care combined SIG Meeting, Pediatric Academic Societies Annual Meeting, San Francisco, CA	None	

2017	Patient Safety Research: Insights from the Experts	Landrigan CP
National Patient Safety Foundation Annual Meeting, Orlando, FL	None	

2017	I-PASS: Better Handoffs: Safer Care, Improving Communication, Improving Handoffs	Destino L
St. Charles Workshop; Bend, OR	None	

2017	Effective Physician Hand-Offs	Destino L
Natividad Medical Center CME; Salinas, CA	None	

2017	IPASS Study	Landrigan C
Pediatric Research in Inpatient Settings; Quarterly Webinar	None	

2018	Adapting and Implementing Inpatient Handoff Improvement Programs in New Clinical Contexts	Huth K, Starmer AJ
Society of Hospital Medicine QI Enthusiast Forum Webinar	None	

2018	Disseminating and Implementing Patient and Family Centered I-PASS to Improve Patient Safety	Landrigan CP
PCORI Annual Meeting	None	

Workshops

2012	The I-PASS Handoff Process: Teaching and Evaluating Standardized Approaches to Transitions of Care	Starmer AJ, Sectish TC, West DC, O'Toole JK, Rosenbluth G, Yu C, Calaman S, Patel SJ, Allen AD, Landrigan CP, Spector ND
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Pediatric Academic Societies Annual Meeting, Boston, MA		None
2012	Strategies for Implementing a Successful Handoff Program for Pediatric Hospitalists	O'Toole JK (co-first), Rosenbluth G (co-first), Destino LA, Allen AD, Aylor M, Coffey M, Everhart J, Hepps J, Hrach C, Nilforoshan V, Patel SJ, Stevenson A, Turmelle M, Srivastava R, Landrigan CP, West DC, Sectish TC, Spector ND, Starmer AJ
Pediatric Hospital Medicine Annual Meeting, Cincinnati, OH		None
2012	New Strategies for Improving Patient Handoffs	Coffey M, Wong B, Bismilla Z
University of Toronto Centre for Patient Safety Symposium, Toronto, Canada		None
2013	The I-PASS Handoff Process: Teaching and Evaluating Standardized Approaches to Transitions of Care	Spector ND, Starmer AJ, O'Toole JK, Yu CE, West DC, Hepps J, Rosenbluth G, Patel SJ, Landrigan CP, Sectish TC
Accreditation Council for Graduate Medical Education Annual Educational Conference, Orlando, FL		None
2013	The I-PASS Handoff Process: Teaching and Assessing Standardized Approaches to Transitions of Care Along the Education Continuum	Starmer AJ, O'Toole JK, Aylor M, Bale JF, Blankenburg R, Calaman S, Good B, Guiot A, Patel SJ, Rosenbluth G, Solan L, Stevenson A, West DC, Landrigan CP, Sectish TC, Spector ND
Association of Pediatric Program Directors / Council on Medical Student Education in Pediatrics Combined Annual Meeting, Nashville, TN		None
2013	The I-PASS Handoff Process: Teaching and Evaluating Standardized Approaches to Transitions of Care	Starmer AJ, Rosenbluth G, Calaman S, Coffey M, Cole FS, Destino LA, Everhart JL, Hepps JH, Lopreiato JO, O'Toole JK, West DC, Landrigan CP, Sectish TC, Spector ND
Pediatric Academic Societies Annual Meeting, Washington, DC		None
2013	The I-PASS Handover Study as an Entrustable Professional Activity (EPA): An Approach to Meaningful Assessment	Englander R, West DC, Calaman S, Spector ND, Carraccio C
Pediatric Academic Societies Annual Meeting, Washington, DC		None
2013	Strategies for Implementing a Successful Handoff Program for Pediatric Hospitalists	Rosenbluth G, O'Toole JK, Destino LA, Everhart J, Hepps J, Hrach C, Patel S, Starmer AJ, Sectish TC, Landrigan CP

Society of Hospital Medicine Annual Meeting, National Harbor, MD		None
2013	The I-PASS Handoff Process: Teaching and Evaluating Standardized Approaches to Transitions of Care	Bismilla Z, Rosenbluth G, West DC, Starmer AJ
Royal College's International Conference on Resident Education, Calgary, Canada		None
2013	The I-PASS Handoff Process: Teaching and Assessing Standardized Approaches to Transitions of Care Along the Education Continuum	Starmer AJ, Spector ND, Sectish TC, Hepps JH, Yu CE
Pediatric Educational Excellence Across the Continuum Meeting, Arlington, VA		None
2013	I-PASS Handoff Curriculum Dissemination to Non-Pediatric Graduate Medical Education Training Programs	Spector ND and Yu CE
Queens Medical Center Workshop, Honolulu, HI		None
2013	To Err is Human: Reducing Medical Errors by Better Handoffs with I-PASS	Bale J, Yeh A, Urion D, Valencia I
Child Neurology Society Meeting, Austin, TX		None
2013	The I-PASS Handoff Process: Teaching and Evaluating a Standardized Approach to Transitions in Care	Spector N, Starmer AJ, O'Toole JK, Calaman S, Yu CE, West DC, Hepps JH, Rosenbluth G, Patel S, Landrigan CP, Sectish TC
Accreditation Council for Graduate Medical Education Annual Educational Conference, National Harbor, MD		None
2014	Strategies for Implementing a Successful Handoff Program for Hospitalists	Rosenbluth G, Starmer AJ, O'Toole JK, Landrigan CP, Bismilla Z, Everhart JL, Schnipper J, Srivastava R
Society of Hospital Medicine Annual Meeting, Las Vegas, NV		None
2014	I-PASS Handoff Process: Evidence-based Approach for Better Handoffs and Safer Care	Landrigan CP, Lyons A, and Starmer AJ
Workshop for Thoracic Surgery and Internal Medicine Faculty and Staff at Massachusetts General Hospital, Boston, MA		None
2014	The I-PASS Handoff Process: Teaching and Evaluating Standardized Approaches to Transitions of Care	O'Toole JK, Everhart J, Bismilla Z

Association of Program Directors in Internal Medicine Conference, Nashville, TN		None
2014	Placing Faculty Development "Front and Center" in a Multi-site Educational Initiative: Lessons from the I-PASS Handoff Study	O'Toole JK, Spector ND
Pediatric Academic Societies Annual Meeting, Vancouver, Canada		None
2014	I-PASS Handoff Process: Evidence-based Approach for Better Handoffs and Safer Care	Landrigan CP, Sectish TC, Spector ND, and Starmer AJ
GME community at New York Presbyterian Hospital, New York, NY		None
2014	I-PASS: Safe and Effective Hand-Off of Patient Care	Bismilla Z, Schwartz S, Coffey T
Canadian Pediatric Society Conference, Montreal, Canada		None
2014	Leading Innovative Projects: Essential Skills for Academic Faculty	O'Toole JK, Rosenbluth G, Starmer AJ, Srivastava R, Landrigan CP, Sectish TC, Spector ND
Pediatric Hospital Medicine Annual Meeting, Orlando, FL		None
2014	I-PASS Handoff Process: Evidence-based Approach for Better Handoffs and Safer Care	Starmer AJ and West DC
MD Anderson Hospital, Houston, TX		None
2014	I-PASS Handoff Process: Better Handoffs and Safer Care	Landrigan CP and Sectish TC
I-PASS Champions at St. Christopher's Hospital for Children, Philadelphia, PA		None
2014	The I-PASS Handoff Program: Challenges, Barriers, Resistance to Implementation	O'Toole J
Department of Internal Medicine, Virginia Commonwealth University, Richmond, VA		None
2014	Best Practices in Handover Education	Little C, Rayar M, Meloche J, Parr G, Sumar n, Zia Bismilla, Trey Coffey
International Conference on Residency Education, Vancouver, Canada		None

2015	I-PASS: Spreading an Evidence-Based Program across the Institution for Safer Transitions of Care	Spector ND, Sectish TC, Starmer AJ, Srivastava R, West DC
ACGME Annual Educational Conference, San Diego, CA		None
2015	Bringing I-PASS to the Bedside and the Unit	Spector ND, Landrigan CP, Starmer AJ, Khan A, Sectish TC
Boston Combined Residency Program House Staff-Wide Retreat, Boston, MA		None
2015	The I-PASS Handoff Process Part 2: Focus on Medical Student Implementation	Guiot AB, Good BP, Hepps JH, Johnstone N, O'Toole JK
Annual COMSEP Meeting, New Orleans, LA		None
2015	The I-PASS Handoff Bundle: Implementing, Adapting, and Evaluating a Standardized Approach to Transitions of Care	Starmer AJ, O'Toole JK, Hepps JH, Calaman S, Bismilla Z, Destino LA, Everhart JL, Coffey T, Rosenbluth G
Pediatric Academic Societies Annual Meeting, San Diego CA		None
2015	Section on Hospital Medicine Academic and Scientific Program Invited Faculty Speaker	O'Toole J
American Academy of Pediatrics National Conference & Exhibition, Washington, DC		None
2016	Strategies for Implementing a Successful Handoff Program for Hospitalists: Lessons learned from the SHM-IPASS Mentored Implementation Program	Starmer AJ, Rosenbluth G, Popa A, Schnipper J
Society of Hospital Medicine Annual Meeting, San Diego CA		None
2018	"A-B-C as Easy as 1-2-3": Applying Health Literacy Best Practices to Care of Pediatric Patients from the Clinic to the Wards	Glick A, Khan A, Destino L, Everhart J, Haskell H, Yin S, Patient and Family Centered I-PASS Study Group
Pediatric Academic Societies Annual Meeting, Toronto, ON		None
2018	"A-B-C as Easy as 1-2-3": Applying Health Literacy Best Practices to Hospital Medicine	Destino L, Yin S, Everhart J, Glick A, Haskell H, Khan A, Patient and Family Centered I-PASS Study Group
Pediatric Hospital Medicine Annual Meeting, Atlanta, GA		None

2018	"Rounding for Safety's Sake: Family-Centered I-PASS"	Destino L, Khan A, Baird J, Micalizzi D, Patel S, Patient and Family Centered I-PASS Study Group
Pediatric Hospital Medicine Annual Meeting, Atlanta, GA		None

Posters

2012	Dissemination of the I-PASS Resident Handoff Bundle	Tse LL, Allen AD, Starmer AJ, Spector ND, Sectish TC, Srivastava R, Landrigan CP, and the I-PASS Study Group
Program for Research Assistant Development & Achievement (PRADA) Research Symposium Poster Session, Boston Children's Hospital, Boston, MA		None

2012	I-PASS Campaign: Innovative and Effective Implementation of a Handoff Curriculum	Rosenbluth G, Starmer AJ, Spector ND, Allen AD, Calaman S, Destino LA, Everhart J, O'Toole JK, Patel SJ, Stevenson A, Yu CE, Landrigan CP, Sectish TC
Association of American Medical Colleges Annual Meeting, MedEdPORTAL Poster Session, San Francisco, CA		None

2013	Dissemination of the I-PASS Resident Handoff Bundle	Tse LL, Noble E, Starmer AJ, Spector ND, Sectish TC, Srivastava R, Landrigan CP, and the I-PASS Study Group
Boston Children's Hospital Graduate Medical Education Day, Poster Session, Boston, MA		None

2014	I-PASS: The Creation, Implementation, and Dissemination of a Bundled Handoff Intervention	Coffey M, Starmer AJ, Bale JF, Calaman S, Cole FS, Hepps J, Noble E, O'Toole JK, Rosenbluth G, Sectish TC, Spector ND, Srivastava R, Tse LL, West DC, Landrigan CP, and the I-PASS Study Group
Institute for Healthcare Improvement National Forum, Poster Session, Vancouver, Canada		None

2014	Impact of the I-PASS Study's Faculty Development Program	O'Toole JK and the I-PASS Study Group
Pediatric Academic Societies Annual Meeting, Poster Session, Vancouver, Canada		None

2014	I-PASS Handoff: A Qualitative Study of Resident Experience	Coffey M, Thomson K, Starmer AJ, Landrigan CP and the I-PASS Study Group
Pediatric Academic Societies Annual Meeting, Poster Session, Vancouver, Canada		None

2015	Time-Motion Analysis of Pediatric Intern Activities during Day and Night Shifts	West DC and the I-PASS Study Group
	Pediatric Academic Societies Annual Meeting, Poster Session, San Diego, CA	None
2015	Nighttime Parent-Reported Experience, Miscommunication, and Errors in the Hospital	Khan A, Rogers JE, Melvin P, Schuster MA, Landrigan CP
	Pediatric Academic Societies Annual Meeting, Poster Session, San Diego, CA	None
2016	Resident Satisfaction after Implementation of the I-PASS Handoff Bundle	Bordin-Wosk T, Wood B, Popa A, Patel SJ, Spector ND
	Society of Hospital Medicine Annual Meeting, Poster Session, San Diego, CA	None
2016	Provider and Parent Communication and Experience after Implementation of a Bundled, Multidisciplinary, Family-Centered Nighttime Intervention	Khan A, Furtak S, Rogers JE, Williams K, Allair B, Litterer K, Schuster MA, Landrigan CP
	Pediatric Academic Societies Annual Meeting, Poster Session, Baltimore, MD	None
2016	Physician, Nurse, and Family Perceptions of Hospital Communication at Night: A Qualitative Analysis	Baird J, Khan A, Rogers JE, Landrigan CP
	Pediatric Academic Societies Annual Meeting, Poster Session, Baltimore, MD	None
2016	Hospital Factors Associated with Increased Doctor/Family Communication a Multi-Site, Time Motion Study	Destino L, Valentine M, Shieghi FH, Starmer A, Landrigan CP, Sanders L
	Pediatric Hospital Medicine Annual Meeting, Poster Session, Chicago, IL	None
2017	Association of Resident Depression with Harmful Medical Errors	Brunsberg KA, Landrigan CP, Garcia BM, Petty CR, Sectish TC, Simpkin AL, Spector ND, Starmer AJ, West DC, Calaman S
	Association of Pediatric Program Directors Annual Spring Meeting, Poster Session, Anaheim, CA	None
2017	The Challenge of Making High-stakes Entrustment Decisions: Validity Evidence for Two Different Structural Clinical Observation Tools to inform Entrustment	West DC, Lopreiato J, Colbert-Getz J, Wortmann K, Carraccio C, Englander R, and the I-PASS Study Group

	Decisions About the American Board of Pediatrics Patient Handover EPA	
	Association of Pediatric Program Directors Annual Spring Meeting, Poster Session, Anaheim, CA	None
2017	I-PASS During Handoffs When Not Being Observed?	Hughes HK, Serwint JR, O'Toole JK, Ngo TL
	Pediatric Academic Societies Annual Meeting, Poster Session, San Francisco, CA	None
2017	Resilience and Tolerance of Uncertainty Among Depressed and Burnt Out Residents: Cross-Sectional Study	Simpkin A, Khan A, Garcia B, Sectish T, Spector N, Landrigan C
	Pediatric Academic Societies Annual Meeting, Poster Session, San Francisco, CA	None
2017	Incidence and Preventability of Communication-Related Medical Malpractice Claims	Humphrey K, Sundberg M, Keohane C, Landrigan C
	Pediatric Academic Societies Annual Meeting, Poster Session, San Francisco, CA	None
2017	"All the Ward's a Stage" – Observation and Feedback in the Setting of I-PASS Handoff: a Dramaturgical Perspective	Bismilla Z, Schwartz S, Li SA, Weiser N, Mahant S, Landrigan C, Starmer A, West DC, Spector N, Coffey M
	Pediatric Academic Societies Annual Meeting, Poster Session, San Francisco, CA	None
2018	Reducing Communication Failures by Adapting I-PASS to the Neonatal Intensive Care Unit (NICU)	Quinones Cardona V, LaBadie A, Cooperberg D, Zubrow A, Touch S
	Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON	None
2018	Implementation of an I-PASS Curriculum Adapted for a Level IV Neonatal Intensive Care Unit	LaBadie A, Quinones Cardona V, May-Rabbach J, Zubrow A, Touch S
	Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON	None
2018	Handoff Quality after Adapting I-PASS to the Neonatal Intensive Care Unit (NICU)	Quinones Cardona V, LaBadie A, May-Rabbach J, Zubrow A, Touch S
	Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON	None

2018	Improving Written Handoffs Using Reminders and Real-Time Peer-to-Peer Feedback	Molloy M, Gottlieb S, Troch R, Hughes HK, Ngo TL
Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON		None

2018	Do Residents Use I-PASS During Handoffs When Not Being Observed?: Follow Up After a Year-Long Intervention	Hughes HK, Serwint JR, O'Toole JK, Ngo TL
Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON		None

2018	A "Receiver-Driven" Approach to Standardize Handoffs between Outpatient Clinics and the Emergency Department	Huth K, Stack A, Hatoun J, Chi G, Blake R, Shields R, Jorina M, West D, Landrigan C, Spector N, Starmer A
Pediatric Academic Societies Annual Meeting, Poster Session, Toronto, ON		None

2018	Patient and Family Centered I-PASS	Khan A, Spector ND, Baird JD et al., Patient and Family Centered I-PASS Study Group
Institute for Healthcare/National Patient Safety Foundation Patient Safety Congress, Boston, MA		None

2018	Disseminating and Implementing Patient and Family Centered I-PASS to Improve Patient Safety	Khan A, Patel S, O'Toole JK, Rosenbluth G, Ashland M, Baird JD, Ramotar MW, Goldstein J, Howell E, Calaman S, Bass EJ, Knighton AJ, Srivastava R, Starmer AJ, West DC, Sectish TC, Spector ND, Landrigan CP, Patient and Family Centered I-PASS Study Group
PCORI Annual Meeting, Washington, DC		None

Grand Rounds

2010	Patient Safety, Resident Work Hours, and Handoffs: Redesigning Safer Residency Programs	Landrigan CP
New York University Langone Medical Center, New York, NY		None

2011	Sleep, Work Hours, and Handoffs: the Critical Importance of Residents in Patient Safety	Landrigan CP, Starmer AJ
Department of Medicine, St. Christopher's Hospital for Children, Philadelphia, PA		None

2012	Sleep Deprivation, Handoffs, and Patient Safety	Landrigan CP
Exeter Hospital, Exeter, NH		None
2012	Resident Work Schedules, Handoffs, and Patient Safety: Building More Effective Hospital Teams	Landrigan CP
Department of Surgery, Dartmouth-Hitchcock Medical Center, Lebanon, NH		None
2012	The I-PASS Study: Improving Team Communication and Handoff Safety	O'Toole JK
Department of Physical Medicine and Rehabilitation, University of Cincinnati, Cincinnati, OH		None
2012	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Sectish TC
New York University Langone Medical Center, New York, NY		None
2012	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Landrigan CP, Sectish TC, Feraco, A
Boston Children's Hospital, Boston, MA		None
2012	The I-PASS Handoff Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Starmer AJ
Department of Pediatrics, Oregon Health and Science University, Portland, OR		None
2012	I-PASS: An Evidence-Based Teamwork and Handoff Improvement Program	Landrigan CP
Montreal Children's Hospital, McGill University, Montreal, Canada		None
2012	I-PASS: An Evidence-Based Teamwork and Handoff Improvement Program	Landrigan CP
Hospital for Sick Children, University of Toronto, Toronto, Canada		None
2012	Better Handoffs, Safer Care: The I-PASS Handoff Study	Starmer AJ
Department of Surgery, Oregon Health and Science University, Portland, OR		None

2012	I-PASS Handoff	Coffey M
Department of Internal Medicine, University of Toronto, Toronto, Canada		None
2012	I-PASS: A Multi-center Pediatric Handoff Improvement and Research Project	Landrigan CP
Department of Pediatrics, New York Methodist Hospital, Brooklyn, NY		None
2012	I-PASS: Evidence-Based Handoffs for Internal Medicine Residents	Landrigan CP
Department of Internal Medicine, New York Methodist Hospital, Brooklyn, NY		None
2012	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Rosenbluth G
Department of Pediatrics, University of Florida College of Medicine, Gainesville, FL		None
2013	TRR Patient Safety: Handoffs	Coffey M, Bismilla Z
Department of Paediatrics, Hospital for Sick Children, University of Toronto School of Medicine, Toronto, Canada		None
2013	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Spector ND
Department of Pediatrics, University of Maryland School of Medicine, College Park, MD		None
2013	I-PASS: An Evidence-Based Teamwork and Handoff Improvement Program	Landrigan CP
Cambridge Hospital, Cambridge, MA		None
2013	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Rosenbluth G
Children's Hospital & Research Center Oakland, Oakland CA		None
2013	I-PASS: An Evidence-Based Teamwork and Handoff Improvement Program	Landrigan CP
University of New Mexico School of Medicine, Albuquerque, NM		None

2013	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Spector ND, Sectish TC
Jersey Shore Medical Center, Neptune Township, NJ		None
2013	The I-PASS Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Calaman S, Spector ND
Robert Wood Johnson Medical School, New Brunswick, NJ		None
2013	The I-PASS Handoff Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Spector ND, Landrigan CP
University of Wisconsin School of Medicine and Public Health, Madison, WI		None
2014	The I-PASS Handoff Study: Standardizing the Handoff Process for Better Handoffs and Safer Care	Sectish TC, Spector ND
Weill Cornell Medical Center, New York, NY		None
2014	Better Handoffs, Safer Care: Standardizing handoffs using I-PASS to reduce medical errors and adverse events	Starmer AJ, West DC
MD Anderson, Houston, TX		None
2014	Better Handoffs, Safer Care: Improving transitions of care to reduce medical errors and improve patient safety	Starmer AJ
National Institutes of Health Clinical Center, Bethesda, MD		None
2014	The I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care	Landrigan CP, Sectish TC
St. Christopher's Hospital for Children, Philadelphia, PA		None
2014	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole JK
Department of Internal Medicine, Virginia Commonwealth University, Richmond, VA		None
2014	I-PASS: A System for Improving Patient Handoffs	Landrigan CP

Department of Neurology, Massachusetts General Hospital, Boston, MA		None
2014	Work Schedules, Handoffs, and the Safety of Academic Medical Centers	Landrigan CP
Department of Anesthesiology, Massachusetts General Hospital, Boston, MA		None
2014	Sleep Deprivation, Patient Safety, Handoffs and the Organization of Academic Medical Centers: Building Safer Systems of Care	Landrigan CP
St. Jude Children's Research Hospital, Memphis, TN		None
2015	The I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care	Starmer AJ, Landrigan CP, Sectish TC
Department of Plastic Surgery, Shriners Hospital, Boston MA		None
2015	The I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care	Everhart JL
Children's Hospital of Eastern Ontario, Ottawa, Canada		None
2015	Better Handoffs, Safer Care: The I-PASS Handoff Study and Medical Errors	Rosenbluth G, West DC
Graduate Medical Education, University of California San Francisco School of Medicine, San Francisco, CA		None
2015	Better Handoffs, Safer Care: The I-PASS Handoff Study and Medical Errors	Rosenbluth G, West DC
Department of Pediatrics, University of California San Francisco School of Medicine, San Francisco, CA		None
2015	Avoiding Handoff Fumbles: Implementing I-PASS to Improve Patient Safety	Starmer AJ
University of Minnesota Medical School, Minneapolis, MN		None
2015	Better Handoffs, Safer Care: The I-PASS Handoff Study and Medical Errors	Rosenbluth G
Hospital-Based Specialties, Kaiser-San Francisco, San Francisco, CA		None
2015	Bringing I-PASS to the Bedside and the Unit: Patient and Family Centered I-PASS	Landrigan CP, Spector ND

Department of Pediatrics, Cincinnati Children's Medical Center, Cincinnati, OH		None
2015	I-PASS: Better Handoffs and Safer Care in an Era of Reduced Resident Work Hours	Landrigan CP
Department of Pediatrics, Johns Hopkins Children's Hospital, Baltimore, MD		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole JK
Department of Internal Medicine, University of Cincinnati, Cincinnati, OH		None
2015	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety.	Everhart JL, Spector ND
Children's Hospital of Michigan, Detroit, MI		None
2015	I-PASS: Better Handoffs, Safer Care	Bismilla Z, Starmer AJ
Arkansas Children's Hospital, Little Rock, AR		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole JK
Division of Quality and Safety, Department of Internal Medicine, Brigham and Women's Hospital, Boston, MA		None
2015	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Destino LA
Department of Family Practice, Trident Hospital, Medical University of South Carolina, North Charleston, SC		None
2015	Better Handoffs, Safer Care: Implementing I-PASS to Improve Patient Handoffs and Enhance Patient Safety	Starmer AJ, West DC
Department of Oncology, MD Anderson Cancer Center, Houston, TX		None
2015	Improving Physician Handoffs in the Age of Computerized Medicine	Destino LA
Dominican Hospital, Santa Cruz, CA		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Landrigan CP

University of Vermont, Burlington, VT		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Sectish TC, Rosenbluth G
Mayo Clinic, Rochester, MN		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Patel SJ, Spector ND
University of California-San Diego School of Medicine, San Diego, CA.		None
2015	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Destino LA, West D
University of Hawaii John A Burns School of Medicine, Honolulu, HI		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole JK
Department of Pediatrics, Levine Children's Hospital at Carolinas Medical Center, Charlotte, NC		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Coffey M
Department of Internal Medicine, Boston Medical Center, Boston, MA		None
2015	Game On! How the I-PASS Study Group Achieved Patient Safety Goals and Promoted Professional Development and Scholarship	Spector ND
Primary Children's Hospital, Salt Lake City, UT		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Patel SJ, Spector ND
Intermountain Medical Center, Murray, UT		None
2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Sectish TC, Calaman S
New York-Presbyterian Hospital Queens, Flushing, NY		None

2015	The I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Rosenbluth G
Department of Pediatrics, Yale School of Medicine, New Haven, CT		None
2016	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Rosenbluth G, Landrigan CP
Virginia Commonwealth University School of Medicine, Richmond, VA		None
2016	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Everhart JL, Spector ND
Hurley Medical Center, Flint, MI		None
2016	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Rosenbluth G
Department of Hospital-Based Specialties, Kaiser-San Francisco, San Francisco, CA		None
2016	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Rosenbluth G, Landrigan CP
Department of Internal Medicine, New Hanover Regional Medical Center, Wilmington, NC		None
2016	I-PASS: Improving Patient Safety by Standardizing Provider Communication and Improving Transitions of Care	Everhart JL
Toledo Children's Hospital, Toledo, OH		None
2016	I-PASS Handoff Program: An Evidence-based Program for Better Handoffs and Safer Care.	Destino LA, Sectish TC
Sanford Children's Hospital, Sioux Falls, SD		None
2016	I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole, JK
Johns Hopkins Children's Hospital, Baltimore, MD		None
2016	I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	O'Toole JK

Sparrow Hospital, East Lansing, MI		None
2016	I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Landrigan CP, Rosenbluth G, Spector ND
Children's Hospital of Philadelphia, Philadelphia, PA		None
2016	I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Starmer AJ
Children's Mercy Hospital, Kansas City, MO		None
2016	The I-PASS Study: Standardizing The Handoff Process To Improve Patient Care And Safety	Everhart JL, Spector ND
Children's National Medical Center, Washington, DC		None
2016	I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Coffey M
Gwinnett Medical Center, Lawrenceville, GA		None
2016	I-PASS Study: Standardizing the Handoff Process to Improve Patient Care and Safety	Destino LA
AtlantiCare Regional Medical Center, Atlantic City, NJ		None
2017	Sleep Deprivation, Handoffs, and Patient Safety	Landrigan CP
Department of Obstetrics and Gynecology, Beth Israel Deaconess Medical Center, Boston, MA		None
2017	I-PASS: Better Handoffs, Safer Care	Landrigan CP
Department of Surgery, Maine Medical Center, Portland ME.		None
2017	Patient Handoffs: Best Practices and Lessons Learned	Mueller S
Newton-Wellesley Hospital, MA		None
2017	Multi-disciplinary Team Communication and Effective Hand-offs	Destino L
St. Charles Grand Rounds; Bend, OR		None
2017	I-PASS Handoff Program	Spector N, Sectish T, West D
National Institutes of Health, Bethesda, MD		None

2017	How Effective Communication Can Improve Patient Safety	Good B, Srivastava R
Department of Pediatrics, University of Utah School of Medicine, Salt Lake City, UT		None
2018	The I-PASS Story: How the I-PASS Study Group Aims to Achieve Patient Safety Goals and Promotes Professional Development and Scholarship	Spector ND
Department of Psychiatry, Drexel University College of Medicine		None
2018	The I-PASS Handoff Program	O'Toole JK
Division of Hospital Medicine, Phoenix Children's Hospital, Phoenix, AZ		None
2018	The I-PASS Handoff Program: Standardizing Communication for Better Handoffs and Safer Care	Sectish TC
Xi'an Children's Hospital, Xi'an, Shaanxi Province, China		None
2018	The I-PASS Handoff Program: Standardizing Communication for Better Handoffs and Safer Care	Sectish TC
Hunan Children's Hospital, Changsha, Hunan Province, China		None
2018	The I-PASS Handoff Program: Standardizing Communication for Better Handoffs and Safer Care	Sectish TC
Qingdao Women's and Children Medical Healthcare Center, Qingdao, Shandong Province, China		None
2018	The I-PASS Handoff Program: Standardizing Communication for Better Handoffs and Safer Care	Sectish TC
Jing'an District Hospital Center Hospital, Shanghai, China		None
2018	The I-PASS Handoff Program: Standardizing Communication for Better Handoffs and Safer Care	Sectish TC
Shanghai Children's Medical Center, Shanghai, China		None

REPORT OF SCHOLARSHIP

Peer-Reviewed Scholarship in Print or Other Media:

Research Investigations

HIGHLY CITED

1. Starmer AJ, Sectish TC, Simon DW, Keohane C, McSweeney ME, Chung EY, Yoon CS, Lipsitz SR, Wassner AJ, Harper MB, Landrigan CP. Rates of medical errors and preventable adverse events among hospitalized children following implementation of a resident handoff bundle. *JAMA*. 2013;310(21):2262-2270. doi:[10.1001/jama.2013.281961](https://doi.org/10.1001/jama.2013.281961).



24.5 times more citations than average publications in its field



Top 1% of all research outputs of the same age

2. Bigham MT, Logsdon TR, Manicone PE, Landrigan CP, Hayes LW, Randall KH, Grover P, Collins SB, Ramirez DE, O'Guin CD, Williams CI, Warnick RJ, Sharek PJ. Decreasing Handoff-Related Care Failures in Children's Hospitals. *Pediatrics*. 2014;134(2):e572-e579. doi:[10.1542/peds.2013-1844](https://doi.org/10.1542/peds.2013-1844).

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3. Starmer AJ, Spector ND, Srivastava R, West DC, Rosenbluth G, Allen AD, Noble EL, Tse LL, Dalal AK, Keohane CA, Lipsitz SR, Rothschild JM, Wien MF, Yoon CS, Zigmont KR, Wilson KM, O'Toole JK, Solan LG, Aylor M, Bismilla Z, Coffey M, Mahant S, Blankenburg RL, Destino LA, Everhart JL, Patel SJ, Bale JF, Spackman JB, Stevenson AT, Calaman S, Cole FS, Balmer DF, Hepps JH, Lopreiato JO, Yu CE, Sectish TC, Landrigan CP. Changes in Medical Errors after Implementation of a Handoff Program. *New England Journal of Medicine*. 2014;371(19):1803-1812. doi:[10.1056/NEJMs1405556](https://doi.org/10.1056/NEJMs1405556).




53 times more citations than average publications in its field



Top 1% of all outputs from the *New England Journal of Medicine* of the same age

4. Sectish TC, Landrigan CP, West DC, Bale JF, Srivastava R, Rosenbluth G, Starmer AJ, Spector ND, Rosenbluth G. Variation in printed handoff documents: Results and recommendations from a multicenter needs assessment. *Journal of Hospital Medicine*. 2015;10(8). doi:[10.1002/jhm.2380](https://doi.org/10.1002/jhm.2380).
5. Khan A, Rogers JE, Melvin P, Furtak SL, Faboyede GM, Schuster MA, Landrigan CP. Physician and Nurse Nighttime Communication and Parents' Hospital Experience. *Pediatrics*. 2015;136(5):e1249-1258. doi:[10.1542/peds.2015-2391](https://doi.org/10.1542/peds.2015-2391).

6. Starmer AJ, Destino L, Yoon CS, Landrigan CP. Intern and Resident Workflow Patterns on Pediatric Inpatient Units: A Multicenter Time-Motion Study. *JAMA Pediatr.* 2015;169(12):1175-1177. doi:[10.1001/jamapediatrics.2015.2471](https://doi.org/10.1001/jamapediatrics.2015.2471).
7. Khan A, Furtak SL, Melvin P, Rogers JE, Schuster MA, Landrigan CP. Parent-Reported Errors and Adverse Events in Hospitalized Children. *JAMA Pediatr.* 2016;170(4):e154608. doi:[10.1001/jamapediatrics.2015.4608](https://doi.org/10.1001/jamapediatrics.2015.4608).
8. Rosenbluth G, Jacolbia R, Milev D, Auerbach AD. Half-life of a printed handoff document. *BMJ Qual Saf.* 2016;25(5):324-328. doi:[10.1136/bmjqs-2015-004585](https://doi.org/10.1136/bmjqs-2015-004585).
9. Khan A, Rogers JE, Forster CS, Furtak SL, Schuster MA, Landrigan CP. Communication and Shared Understanding Between Parents and Resident-Physicians at Night. *Hosp Pediatr.* 2016;6(6):319-329. doi:[10.1542/hpeds.2015-0224](https://doi.org/10.1542/hpeds.2015-0224).
10. Feraco AM, Starmer AJ, Sectish TC, Spector ND, West DC, Landrigan CP. Reliability of Verbal Handoff Assessment and Handoff Quality Before and After Implementation of a Resident Handoff Bundle. *Academic Pediatrics.* 2016;16(6):524-531. doi:[10.1016/j.acap.2016.04.002](https://doi.org/10.1016/j.acap.2016.04.002).
11. Huth K, Hart F, Moreau K, Baldwin K, Parker K, Creery D, Aglipay M, Doja A. Real-World Implementation of a Standardized Handover Program (I-PASS) on a Pediatric Clinical Teaching Unit. *Academic Pediatrics.* 2016;16(6):532-539. doi:[10.1016/j.acap.2016.05.143](https://doi.org/10.1016/j.acap.2016.05.143).
12. Starmer A, O'Toole J, Spector N, West D, Sectish T, Schnipper J, Srivastava R, Goldstein J, Campos M-L, Howell E, Landrigan C, Group SI-PS. Mentored Implementation of the I-Pass Handoff Program in Diverse Clinical Environments. *BMJ Qual Saf.* 2016;25(12):1009-1010. doi:[10.1136/bmjqs-2016-IHAbstracts.23](https://doi.org/10.1136/bmjqs-2016-IHAbstracts.23).
13. Khan A, Coffey M, Litterer KP, Baird JD, Furtak SL, Garcia BM, Ashland MA, Calaman S, Kuzma NC, O'Toole JK, Patel A, Rosenbluth G, Destino LA, Everhart JL, Good BP, Hepps JH, Dalal AK, Lipsitz SR, Yoon CS, Zigmont KR, Srivastava R, Starmer AJ, Sectish TC, Spector ND, West DC, Landrigan CP, the Patient and Family Centered I-PASS Study Group, Allair BK, Alminde C, Alvarado-Little W, Atsatt M, Aylor ME, Bale JF, Balmer D, Barton KT, Beck C, Bismilla Z, Blankenburg RL, Chandler D, Choudhary A, Christensen E, Coghlan-McDonald S, Cole FS, Corless E, Cray S, Da Silva R, Dahale D, Dreyer B, Growdon AS, Gubler L, Guiot A, Harris R, Haskell H, Kocolas I, Krueger E, Lane MM, Langrish K, Ledford CJW, Lewis K, Lopreiato JO, Maloney CG, Mangan A, Markle P, Mendoza F, Micalizzi DA, Mittal V, Obermeyer M, O'Donnell KA, Ottolini M, Patel SJ, Pickler R, Rogers JE, Sanders LM, Sauder K, Shah SS, Sharma M, Simpkin A, Subramony A, Thompson ED, Trueman L, Trujillo T, Turmelle MP, Warnick C, Welch C, White AJ, Wien MF, Winn AS, Wintch S, Wolf M, Yin HS, Yu CE. Families as Partners in Hospital Error and Adverse Event Surveillance. *JAMA Pediatr.* 2017;171(4):372-381. doi:[10.1001/jamapediatrics.2016.4812](https://doi.org/10.1001/jamapediatrics.2016.4812).
14. Destino LA, Valentine M, Sheikhi FH, Starmer AJ, Landrigan CP, Sanders L. Inpatient Hospital Factors and Resident Time With Patients and Families. *Pediatrics.* 2017;139(5):e20163011. doi:[10.1542/peds.2016-3011](https://doi.org/10.1542/peds.2016-3011).
15. Khan A, Baird J, Rogers JE, Furtak SL, Williams KA, Allair B, Litterer KP, Sharma M, Smith A, Schuster MA, Landrigan CP. Parent and Provider Experience and Shared Understanding After a Family-Centered Nighttime Communication Intervention. *Acad Pediatr.* 2017;17(4):389-402. doi:[10.1016/j.acap.2017.01.012](https://doi.org/10.1016/j.acap.2017.01.012).
16. Khan A, Furtak SL, Melvin P, Rogers JE, Schuster MA, Landrigan CP. Parent-Provider Miscommunications in Hospitalized Children. *Hosp Pediatr.* 2017;7(9):505-515. doi:[10.1542/hpeds.2016-0190](https://doi.org/10.1542/hpeds.2016-0190).
17. Starmer AJ, Schnock KO, Lyons A, Hehn RS, Graham DA, Keohane C, Landrigan CP. Effects of the I-PASS Nursing Handoff Bundle on communication quality and workflow. *BMJ Qual Saf.* 2017;26(12):949-957. doi:[10.1136/bmjqs-2016-006224](https://doi.org/10.1136/bmjqs-2016-006224).

18. Rosenbluth G, Destino LA, Starmer AJ, Landrigan CP, Spector ND, Sectish TC, Committee I-PC. I-PASS Handoff Program: Use of a Campaign to Effect Transformational Change. *Pediatric Quality & Safety*. 2018;3(4):e088. doi:[10.1097/pq9.000000000000088](https://doi.org/10.1097/pq9.000000000000088).
19. Simpkin AL, Khan A, West DC, Garcia BM, Sectish TC, Spector ND, Landrigan CP. Stress From Uncertainty and Resilience Among Depressed and Burned Out Residents: A Cross-Sectional Study. *Academic Pediatrics*. 2018;18(6):698-704. doi:[10.1016/j.acap.2018.03.002](https://doi.org/10.1016/j.acap.2018.03.002).
20. Huth K, Stack AM, Chi G, Shields R, Jorina M, West DC, Landrigan CP, Spector ND, Starmer AJ. Developing Standardized "Receiver-Driven" Handoffs Between Referring Providers and the Emergency Department: Results of a Multidisciplinary Needs Assessment. *The Joint Commission Journal on Quality and Patient Safety*. 2018;44(12):719-730. doi:[10.1016/j.jcjq.2018.05.003](https://doi.org/10.1016/j.jcjq.2018.05.003).
21. Khan A, Spector ND, Baird JD, Ashland M, Starmer AJ, Rosenbluth G, Garcia BM, Litterer KP, Rogers JE, Dalal AK, Lipsitz S, Yoon CS, Zigmont KR, Guiot A, O'Toole JK, Patel A, Bismilla Z, Coffey M, Langrish K, Blankenburg RL, Destino LA, Everhart JL, Good BP, Kocolas I, Srivastava R, Calaman S, Cray S, Kuzma N, Lewis K, Thompson ED, Hepps JH, Lopreiato JO, Yu CE, Haskell H, Kruvand E, Micalizzi DA, Alvarado-Little W, Dreyer BP, Yin HS, Subramony A, Patel SJ, Sectish TC, West DC, Landrigan CP. Patient safety after implementation of a coproduced family centered communication programme: multicenter before and after intervention study. *BMJ*. 2018;363:k4764. doi:[10.1136/bmj.k4764](https://doi.org/10.1136/bmj.k4764). 
22. Brunsberg KA, Landrigan CP, Garcia BM, Petty CR, Sectish TC, Simpkin AL, Spector ND, Starmer AJ, West DC, Calaman S. Association of Pediatric Resident Depression with Harmful Medical Errors on Inpatient Services. *Academic Medicine*. 2019; Forthcoming.
23. Bismilla Z, Larsen DP, Huth K, Schwartz S, Li S, Weiser N, Mahant S, Landrigan CP, Spector ND, Starmer AJ, West DC, Coffey M. "All the Ward's a Stage": A Qualitative Study of the Experience of Direct Observation of Handoffs. *Advances in Health Sciences Education*. 2019; Forthcoming.

Professional Educational Materials or Implementation Resources

HIGHLY DOWNLOADED

1. Spector N, Starmer A, Allen A, Bale J, Bismilla Z, Calaman S, Coffey M, Cole FS, Destino L, Everhart J, Hepps J, Kahana M, Lopreiato J, McGregor R, O'Toole J, Patel S, Rosenbluth G, Srivastava R, Stevenson A, Tse L, West D, Yu C, Sectish T, Landrigan C, Committee I-PEE. I-PASS Handoff Curriculum: Core Resident Workshop. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9311](https://doi.org/10.15766/mep_2374-8265.9311).

Of the MedEdPORTAL repository containing 2468 publications in total:

- 8th most downloaded publication
- 18th most viewed publication

2. Rosenbluth G, Patel S, Destino L, Everhart J, O'Toole J, Stevenson A, Yu C, Calaman S, Allen A, Starmer A, Spector N, Landrigan C, Sectish T, Committee I-PEE. I-PASS Handoff Curriculum: Campaign Toolkit. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9397](https://doi.org/10.15766/mep_2374-8265.9397).
3. Calaman S, Hepps J, Spector N, Sectish T, Landrigan C, Srivastava R, Starmer A, Yu C, Lopreiato J, Committee I-PEE. I-PASS Handoff Curriculum: Handoff Simulation Exercises. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9402](https://doi.org/10.15766/mep_2374-8265.9402).

4. O'Toole J, Sectish T, Starmer A, Rosenbluth G, West D, Landrigan C, Allen A, Noble E, Srivastava R, Tse L, Hepps J, Lopreiato J, Calaman S, Yu C, Spector N, Committee I-PEE. I-PASS Handoff Curriculum: Faculty Development Resources. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9540](https://doi.org/10.15766/mep_2374-8265.9540).
5. Starmer A, Landrigan C, Srivastava R, Wilson K, Allen A, Mahant S, Noble E, Sectish T, Blank J, Tse L, Spector N, West D, Committee I-PEE. I-PASS Handoff Curriculum: Faculty Observation Tools. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9570](https://doi.org/10.15766/mep_2374-8265.9570).
6. Calaman S, Spector N, Starmer A, O'Toole J, Allen A, Tse L, Bale J, Bismilla Z, Coffey M, Cole FS, Destino L, Everhart J, Hepps J, Kahana M, McGregor R, Patel S, Rosenbluth G, Srivastava R, Stevenson A, West D, Sectish T, Landrigan C, Yu C, Lopreiato J, Committee I-PEE. I-PASS Handoff Curriculum: Computer Module. *MedEdPORTAL*. 2013;(9). doi:[10.15766/mep_2374-8265.9337](https://doi.org/10.15766/mep_2374-8265.9337).
7. O'Toole J, Calaman S, Everhart J, Bismilla Z, Good B, Guiot A, Johnstone N, Nilforoshan V, Noble E, Rosenbluth G, Schwartz S, Solan L, Tse L, West D, Weiser J, Landrigan C, Sectish T, Srivastava R, Starmer A, Spector N. I-PASS Handoff Curriculum: Medical Student Workshop. *MedEdPORTAL*. 2014;(10). doi:[10.15766/mep_2374-8265.9854](https://doi.org/10.15766/mep_2374-8265.9854).
8. O'Toole J, Starmer A, Calaman S, Campos M-L, Goldstein J, Hepps J, Maynard G, Owolabi M, Patel S, Rosenbluth G, Schnipper J, Sectish T, Srivastava R, West D, Yu C, Landrigan C, Spector N, Committee on behalf of the I-PSEE. I-PASS Mentored Implementation Handoff Curriculum: Implementation Guide and Resources. *MedEdPORTAL*. 2018;(14). doi:[10.15766/mep_2374-8265.10736](https://doi.org/10.15766/mep_2374-8265.10736).
9. O'Toole JK, Starmer AJ, Calaman S, Campos M-L, Goldstein J, Hepps J, Lopreiato J, Patel SJ, Rosenbluth G, Schnipper J, Sectish TC, Srivastava R, West DC, Yu C, Landrigan CP, Spector ND, Committee on behalf of the I-PASS Study Education Executive Committee. I-PASS Mentored Implementation Handoff Curriculum: champion training materials. *MedEdPORTAL*. 2019;15:10794. https://doi.org/10.15766/mep_2374-8265.10794

Other Peer-Reviewed Scholarship

1. Sectish TC, Starmer AJ, Landrigan CP, Spector ND, Group with acknowledgement of input from the I-PS. Establishing a Multisite Education and Research Project Requires Leadership, Expertise, Collaboration, and an Important Aim. *Pediatrics*. 2010;126(4):619-622. doi:[10.1542/peds.2010-1793](https://doi.org/10.1542/peds.2010-1793).
2. Starmer AJ, Spector ND, Srivastava R, Allen AD, Landrigan CP, Sectish TC, Group the I-PS. I-PASS, a Mnemonic to Standardize Verbal Handoffs. *Pediatrics*. 2012;129(2):201-204. doi:[10.1542/peds.2011-2966](https://doi.org/10.1542/peds.2011-2966).
3. O'Toole JK, Stevenson AT, Good BP, Guiot AB, Solan LG, Tse LL, Landrigan CP, Sectish TC, Srivastava R, Starmer AJ, Spector ND. Closing the Gap: A Needs Assessment of Medical Students and Handoff Training. *The Journal of Pediatrics*. 2013;162(5):887-888.e1. doi:[10.1016/j.jpeds.2013.01.045](https://doi.org/10.1016/j.jpeds.2013.01.045).
4. Simon TD, Starmer AJ, Conway PH, Landrigan CP, Shah SS, Shen MW, Sectish TC, Spector ND, Tieder JS, Srivastava R, Willis LE, Wilson KM. Quality Improvement Research in Pediatric Hospital Medicine and the Role of the Pediatric Research in Inpatient Settings (PRIS) Network. *Academic Pediatrics*. 2013;13(6, Supplement):S54-S60. doi:[10.1016/j.acap.2013.04.006](https://doi.org/10.1016/j.acap.2013.04.006).
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Professional Educational Materials or Reports, in Print or Other Media:

MedEdPORTAL Curricular Repository

As above, all I-PASS Resident Handoff Study curricular materials are accessible via the MedEdPORTAL curricular repository. Our group is currently working to disseminate study materials and implementation resources from the SHM Mentored Implementation and Patient and Family Centered I-PASS studies.

I-PASS Study Website

Available at www.ipasshandoffstudy.com The I-PASS Handoff Study Website offers an overview of the I-PASS Study and also provides access to all of the I-PASS Study Curricular materials. Access to curricular materials is password protected in order to facilitate tracking of use and downloads. By monitoring requests for access to the curricular materials from May 2012- September 2013, we found that 760 individuals requested access to the curricular materials, representing 48 states, 20 countries outside the US, and 443 unique institutions, non-inclusive of study sites. Individuals requesting the curricular materials indicated an interest in applying them across a range of provider types (physicians [69.6%], nurses [10.3%], medical students [5.1%]) and clinical settings (pediatrics [33.4%], internal medicine [11.4%], intensive care [11.6%], emergency medicine [7.3%], surgery [7.1%], family medicine [6.5%], obstetrics and gynecology [4.9%], and several other subspecialties).

WORKS BY EXTERNAL AUTHORS

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DISSEMINATION AND OUTPUTS

Across I-PASS Resident Handoff Study Sites (July 2012 – May 2013)

- 267 faculty participants, (approximately 30 faculty members per site)
- 32 three-hour sessions (two-hour workshop, one-hour simulation session)
- 855 residents trained
- 20 faculty development training sessions
- 888 faculty observations of resident handoffs

Beyond I-PASS Study Sites

I-PASS Study Website

- Available at: <http://www.ipasshandoffstudy.com>

Metrics from MedEdPORTAL

- As of August 1, 2018, curricular materials supplied to 4455 individuals from >500 institutions throughout all 50 states and 63 other countries for use by providers of all levels of care (e.g., medical students, nurses, resident-physicians) across diverse clinical settings (e.g., Pediatrics, Surgery, Psychiatry, NICU).