Reference & year	Title	Primary SBI	Secondary SBI
Auerbach et al., 2015	The use of in situ simulation to detect latent safety threats in paediatrics: a cross-sectional survey	Improvement	
Dieckmann et al., 2020	The use of simulation to prepare and improve responses to infectious disease outbreaks like COVID-19: practical tips and resources from Norway, Denmark, and the UK	Identification	Intervention
Nickson et al., 2021	Translational simulation: from description to action	Intervention	Improvement
Whitfill, et al., 2018	A Simulation-Based Quality Improvement Initiative Improves Pediatric Readiness in Community Hospitals	Improvement	
Imran, et al., 2020	'How to help your unwell child': a sequential simulation project	Involvement	Identification
Tribe, Harris, & Kneebone 2018	Life on a knife edge: using simulation to engage young people in issues surrounding knife crime	Inclusion	Influence
Blanks et al., 2017	A qualitative evaluation of the role of simulation in policy development for service improvement	Innovation	Improvement
Salas et al., 2013	"Creating new realities in healthcare: The status of simulation-based training as a patient safety improvement strategy"	Influence	Inclusion
Brazil et al., 2020	Translational simulation for rapid transformation of health services, using the example of the COVID-19 pandemic preparation	Identification	Improvement
Powell et al., 2016	"Exploring the potential of sequential simulation"	Inclusion	
Yajamanyam & Sohi 2015	In situ simulation as a quality improvement initiative	Identification	Improvement
Hughes et al., 2019	End of life communication and organ donation simulation. Developing a multi-disciplinary faculty and course in order to share and improve practice across hospital trusts	Inclusion	Improvement
Kaba & Barnes, 2019	"Commissioning simulations to test new healthcare facilities: a proactive and innovative approach to healthcare system safety"	Identification	
Gormely, et al., 2020	Making the invisible visible: a place for utilizing activity theory within in situ simulation to drive healthcare organizational development?	Intervention	
Lakissian et al., 2020	In-situ simulations for COVID-19: a safety II approach towards resilient performance	Improvement	
Purdey, 2021	"Simulation for enculturation into trauma care: making organizational culture objectives explicit"	Influence	
Keylay et al., 2018	Physician-patient interactions and communication with conscious patients during simulated cath lab procedures: An exploratory study	Involvement	Identification
Cohen et al., 2019	Validation of behavioural simulations: a case study on enhancing collaboration between partnership organizations	Inclusion	
Barlow et al., 2017	"Documentation framework for healthcare simulation quality improvement activities"	Innovation	
Brydges et al., 2020	Lessons learned in preparing for and responding to the early stages of the COVID-19 pandemic: one simulation's program experience adapting to the new normal	Identification	Innovation
Kerner et al., 2016	Simulation for Operational Readiness in a New Freestanding Emergency Department	Influence	
Geis et al., 2011	Simulation to Assess the Safety of New Healthcare Teams and New Facilities	Inclusion	Identification
Adler et al., 2018	Use of Simulation to Test Systems and Prepare Staff for a New Hospital Transition	Identification	Inclusion
Ventre et al., 2014	Using In Situ Simulation to Evaluate Operational Readiness of a Children's Hospital-Based Obstetrics Unit	Identification	
Fawcett et al., 2020	Qualitative evaluation of asthma services for young people: a sequential simulation study	Involvement	Identification
Murphy 2013	Using Plan Do Study Act to Transform a Simulation Center	Influence	Improvement

Betegon et al., 2021	Quality Management System Implementation Based on Lean Principles and ISO 9001:2015 Standard in an Advanced Simulation Centre	Innovation	
Bender 2011	In Situ Simulation for Systems Testing in Newly Constructed Perinatal Facilities	Identification	Inclusion
Rojo, et al., 2016	Innovation in healthcare processes and patient safety using clinical simulation	Improvement	Innovation
Korkiakangas et al., 2021	'Let me take care of you': what can healthcare learn from a high-end restaurant to improve the patient experience?	Involvement	
Weldon et al., 2016	Collaborative healthcare remodelling through sequential simulation: a patient and front-line staff perspective	Inclusion	
Kneebone et al., 2016	Engaging patients and clinicians through simulation: rebalancing the dynamics of care	Involvement	Inclusion
Dube et al., 2020	COVID-19 pandemic preparation: using simulation for systems-based learning to prepare the largest healthcare workforce and system in Canada	Intervention	
Tang et al., 2013	Public Engagement Through Shared Immersion: Participating in the Processes of Research	Involvement	
Madani, et al., 2017	Evaluating the role of simulation in healthcare innovation: recommendations of the Simnovate Medical Technologies Domain Group	Innovation	
Cohen et al., 2019	The Crucible simulation: Behavioral simulation improves clinical leadership skills and understanding of complex health policy change	Influence	
Tang et al., 2013	The role of medical simulation technologies for outreach activities in secondary school education: A workshop for prospective medical students	Influence	
Kneebone & Woods 2014	Recapturing the History of Surgical Practice Through Simulation-based Re-enactment	Involvement	
Weldon et al., 2017	Sequential simulation of a patient journey	Inclusion	Influence
Weldon et al., 2015	Sequential Simulation (SqS): an innovative approach to educating GP receptionists about integrated care via a patient journey – a mixed methods approach	Influence	Involvement
Weldon et al., 2017	Sequential simulation used as a novel educational tool aimed at healthcare managers: a patient centred approach	Involvement	
Huddy et al., 2017	Sequential simulation (SqS) of clinical pathways: a tool for public and patient engagement in point-of-care diagnostics	Involvement	Intervention
Posner et al., 2017	Simulation in the clinical setting: towards a standard lexicon	Identification	Improvement
Colman et al., 2019	Simulation-based clinical systems testing for healthcare spaces: from intake through implementation	Identification	Improvement
Lutgendorf et al., 2017	Multidisciplinary In Situ Simulation-Based Training as a Postpartum Hemorrhage Quality Improvement Project	Improvement	
Calhoun et al., 2013	Using Simulation to Address Hierarchy Issues During Medical Crises	Influence	
Nielson et al., 2014	Augmenting Health Care Failure Modes and Effects Analysis With Simulation	Identification	
Maestre et al., (2014)	Clinical simulation as a tool to facilitate culture change in healthcare: Practical application of advanced learning theory	Influence	
Brazil et al., 2019	Improving the relational aspects of trauma care through translational simulation	Influence	
Cheung et al., 2020	Investigating effects of healthcare simulation on personal strengths and organizational impacts for healthcare workers during COVID-19 pandemic: a cross-sectional study	Improvement	Influence
Peterson et al., 2020	Using simulation to help healthcare professionals relaying patient information during telephone conversations	Improvement	
Colman et al.,	Simulation-based User-centered Design: An Approach to	Identification	Improvement

2021	Device Development during COVID-19		
Patterson et al., 2013	In situ simulation: detection of safety threats and teamwork training in a high risk emergency department	Identification	
Dube et al., 2021	Evaluations for New Healthcare Environment Commissioning and Operational Decision Making Using Simulation and Human Factors: A Case Study of an Interventional Trauma Operating Room	Identification	Inclusion
Petrosoniak et al., 2018	Tracking workflow during high-stakes resuscitation: the application of a novel clinician movement tracing tool during in situ trauma simulation	Identification	Improvement
Dube et al., 2019	Goals, Recommendations, and the How-To Strategies for Developing and Facilitating Patient Safety and System Integration Simulations	Intervention	Improvement
Health Quality Council of Alberta 2020	HEALTHCARE FACILITY MOCK-UP EVALUATION GUIDELINES: Using Simulation to Optimize Return on Investment for Quality and Patient Safety	Intervention	
Brazil et al., 2022	Developing a simulation safety policy for translational simulation programs in healthcare	Improvement	Identification
Sadhu, et al., 2021	Reducing Risk: Simulation-Based Clinical Systems Testing to Determine New Hospital Readiness for Anaesthesia Services	Identification	Improvement
Brydges et al., 2021	Getting everyone to the table: exploring everyday and every night work to consider 'latent social threats' through interprofessional tabletop simulation	Influence	Identification
Oliver et al., 2021	What Effect Does Systems Integration Simulation Have on the Sense of Preparedness of Teams Moving to a New Unit?	Involvement	Identification
Kim et al., 2021	The Code Silver Exercise: a low-cost simulation alternative to prepare hospitals for an active shooter event	Improvement	Identification
Colman et al., 2019	Prevent Safety Threats in New Construction through Integration of Simulation and FMEA	Identification	Improvement
Tallentire et al., 2021	Exploring transformative learning for trainee pharmacists through interprofessional simulation: a constructivist interview study	Influence	Intervention
Pillay et al., 2021	Optimising frontline learning and engagement between consultant-led neonatal teams in the West Midlands: a survey on the utility of an augmented simulation training technique	Involvement	Influence
MacKinnon et al., 2021	A novel approach to explore Safety-I and Safety-II perspectives in in situ simulations—the structured what if functional resonance analysis methodology	Identification	Influence
Dube et al., 2021	Building impactful systems-focused simulations: integrating change and project management frameworks into the pre-work phase	Identification	Improvement
Reid et al., (2016)	Simulation for Systems Integration in Pediatric Emergency Medicine	Influence	Improvement
Fuselli et al., (2021)	Commissioning Clinical Spaces During a Pandemic: Merging Methodologies of Human Factors and Simulation	Identification	Improvement
Jafri, et al., 2022	Safety Considerations for In Situ Simulation in Closed SARS-CoV-2 Units	Identification	Intervention
Davis, et al., 2008	Failure Modes and Effects Analysis Based on In Situ Simulations: A Methodology to Improve Understanding of Risks and Failures	Identification	Improvement
Paige et al., 2018	Priorities Related to Improving Healthcare Safety Through Simulation	Influence	Identification
MaCrae, C. 2018	Imitating Incidents: How Simulation Can Improve Safety Investigation and Learning From Adverse Events	Improvement	Identification
Petrosoniak et al. 2020	Design Thinking-Informed Simulation: An Innovative Framework to Test, Evaluate, and Modify New Clinical Infrastructure	Involvement	Innovation
Couto et al. 2018	Detecting latent safety threats in an interprofessional training that combines in situ simulation with task training in an emergency department	Identification	

Schram et al. 2021	Patient safety culture improves during an in situ simulation intervention: a repeated cross-sectional intervention study at two hospital sites	Intervention	Influence
Paltved et al. 2017	Designing in situ simulation in the emergency department: evaluating safety attitudes amongst physicians and nurses	Intervention	Improvement
Fregene et al. 2020	Use of in situ simulation to evaluate the operational readiness of a high-consequence infectious disease intensive care unit	Identification	Improvement
Wheeler et al. 2013	High-reliability emergency response teams in the hospital: improving quality and safety using in situ simulation training High-reliability emergency response teams in the hospital: improving quality and safety using in situ simulation training	Identification	Influence
Gardner et al 2017	Using Simulation to Improve Systems-Based Practices	Improvement	Identification
McBain et al. 2021	Harnessing system-focused simulation, debriefing and FMEA to inform healthcare blood transfusion safety and policy	Improvement	Identification
Brazil et al. 2023	Simulation as an Improvement Technique	Improvement	Intervention
Binder et al., 2023	Interprofessional In Situ Simulation to Identify Latent Safety Threats for Quality Improvement: A Single-Center Protocol Report	Identification	Improvement