

Background

- Omission of important information during handover due to lack of standardization can lead to interruptions in PACU and OR to investigate questions and increase the risk of patient harm (Boat & Spaeth, 2013)
- PACU nurses expressed concerns regarding handover where nurses were expected to complete clinical tasks while simultaneously receiving complex patient information
- A review of patient safety events, decreased staff satisfaction, and increased length of stay were all observed to be linked to poor communication during handover
- Handover observation audits in 2019 revealed low rates (39%) of surgical staff presence during PACU handover resulting in poor communication

Objectives

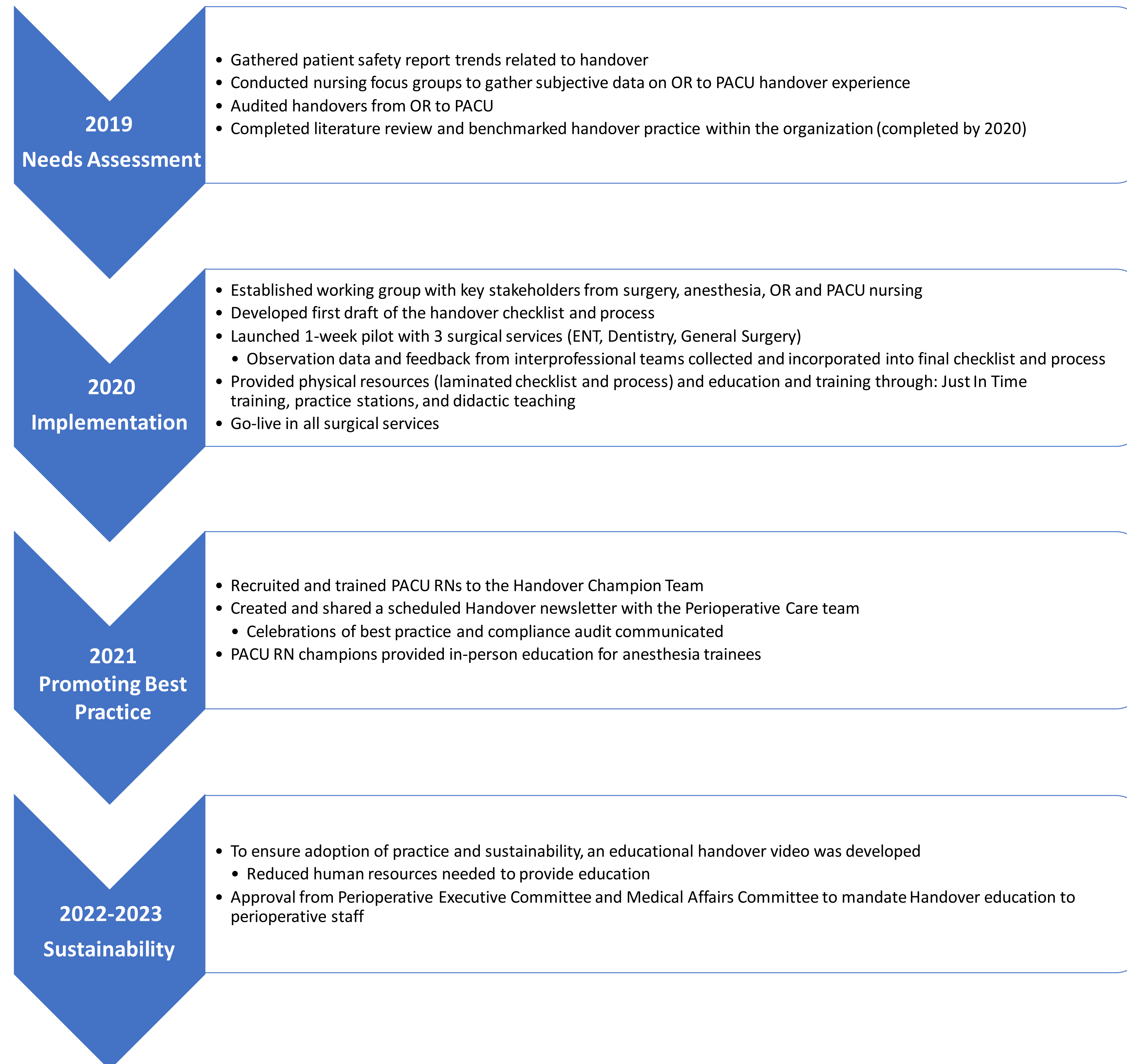
This nurse-led project aimed to improve the OR to PACU handover process to facilitate stronger interprofessional communication and improve patient safety.

We intended to achieve this objective by:

- Developing a standardized handover checklist and process informed by evidence-based research and clinical feedback
- Sustaining the standardized handover practice and process for new staff and trainees across disciplines (anesthesia & surgical team, OR & PACU nursing) through the development of an educational video



Process of Implementation



Handover Checklist and Process

'COLD' - Connect - Observe - Listen - Delegate	
OR - PACU Handover Checklist	OR RN
	ID Band Check: Patient's name, MRN, birth date, allergies *
	Skin Integrity & Patient Positioning (pressure injury)
	Patient Belongings and Nursing Concerns
	Surgical Team
	Surgical Hx and Diagnosis
	Surgical Procedure and Surgical Course
	Medications (i.e. local anesthetic)
	Dressing & Wound Care *
	Surgical LDAs (i.e. drains, tubes) *
	Complications or Potential Issues Related to Surgery
	Post-Op Orders (i.e. post-op surgical positioning, NPO time)
	Disposition (home, inpatient unit, day stay, IGT, other)
	DiC Instructions (ANS) and Prescription
	Follow up and Patient/Carer Update
Do you have any questions or concerns?	
Anaesthesia Team	
Weight & Allergies	
Medical & Anaesthetic Hx	
Pre-Medication, Current State, Social Hx	
Anaesthetic Course (Medications & Regional Anaesthesia)	
Problems Intra-Op	
LDAs (artery, IVCKL, art line, drains) *	
CVL - heparin locked or infusing? *	
Input/Output	
PACU Orders	
Anticipated Problems Post-Op	
Plan and Disposition (home, inpatient unit, day stay, IGT)	
Do you have any questions or concerns?	
PACU RN	
Seeks Clarification, Confirms Information Received	
* = PACU RN Visual Check required	

SickKids
OR-PACU Handover Process
 A tool to improve quality, efficiency and safety during inter-professional clinical handover in PACU.

'COLD'

- 1. Connect Equipment**
 - OR RN assists PACU RN in connecting patient to devices, monitors and oxygen
 - Monitoring and therapeutic devices are safely positioned
- 2. Observe Pt. Safety**
 - Immediate patient care needs are identified and actioned to ensure patient and staff safety before handover begins
 - PACU RN completes initial patient assessment
 - Monitoring and therapeutic devices are safely positioned
 - Verbal handover might be delayed while team members respond to immediate patient needs
- 3. Listen to Handover**
 - PACU RN verbalizes readiness for report
 - Pause all nonessential activities to deliver or listen to handover
 - All team members are present
 - Roles are clearly identified
 - Staff members speak clearly and pause if visual checks are required *
 - Items that are not applicable in the checklist can be skipped and don't require comment
- 4. Delegation of Responsibility**
 - The final handover stage occurs as care is transferred from the anesthetist to the receiving RN
 - This process prompt nurses to fill information gaps, allows for clarification, confirmation and supports the completeness of handover

Statement of Successful Practice

- 90% of survey respondents reported satisfaction with the quality and efficiency of communication to deliver safe and effective patient care
- Ongoing surgical staff presence (~90% attendance) over the last 3 years reflects uptake of the handover process
- Leadership support and endorsement resulted in approval of mandatory handover education to onboard perioperative staff and trainees

Figure 1. First Handover Newsletter 2021

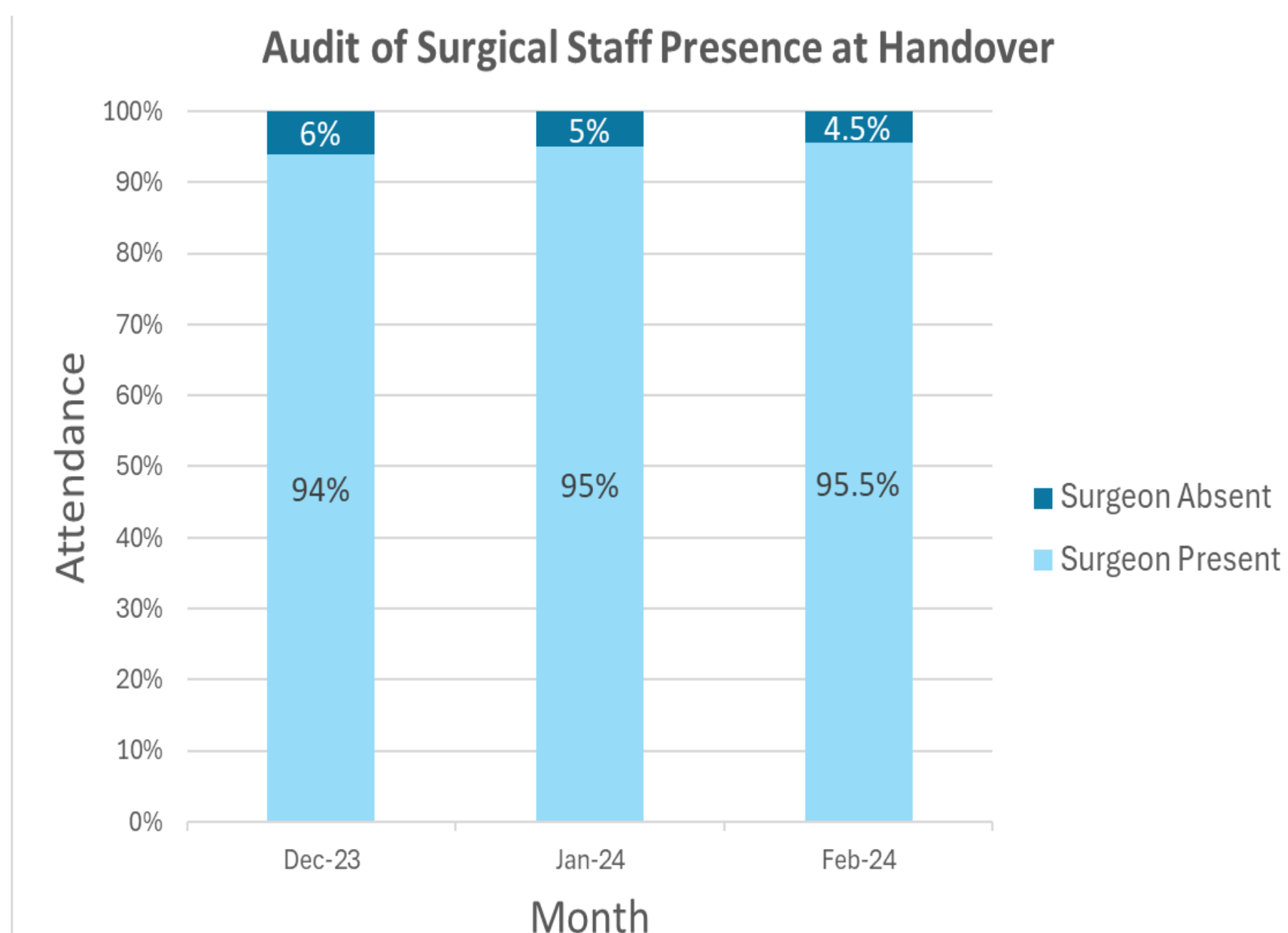


Figure 2. Current Handover Data

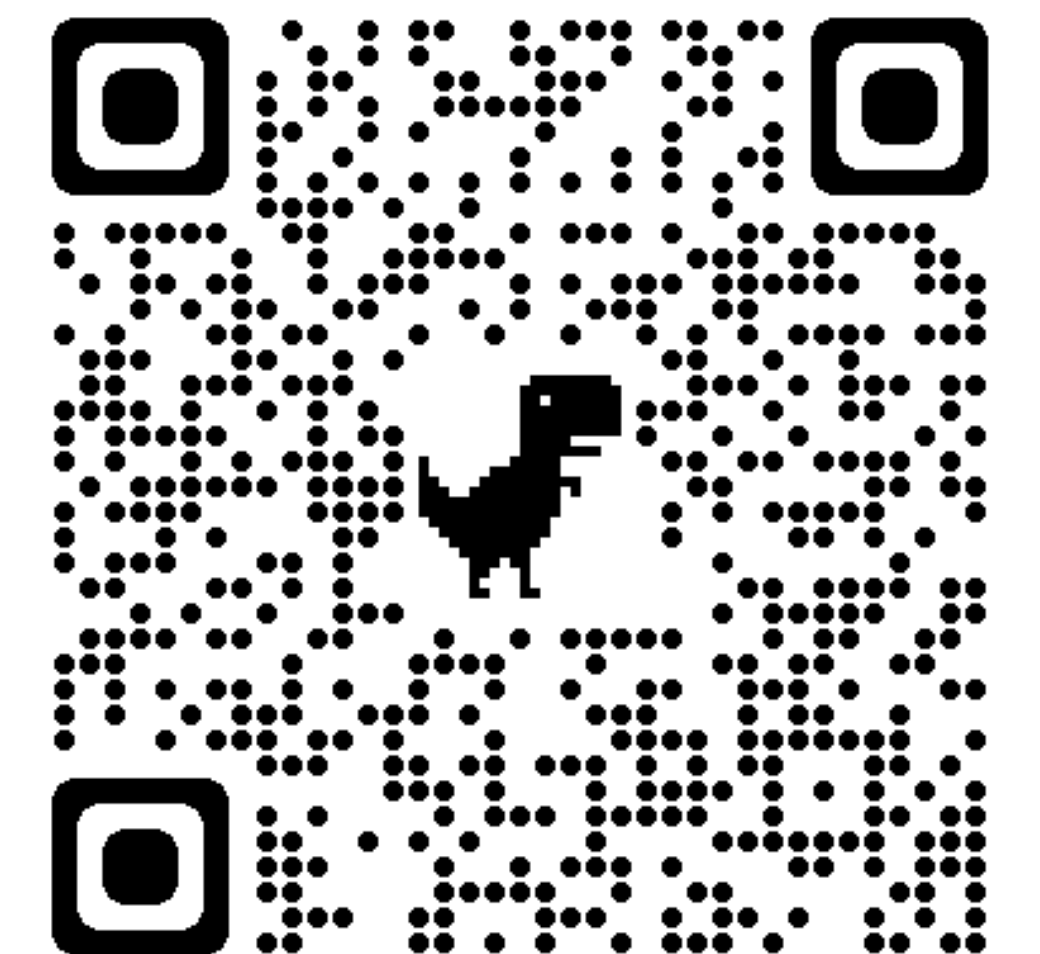
Limitations

- Compliance with the use of checklist
- Delayed onboarding education of new anesthesia, surgical staff and trainees
- Implementation excluded the department Image Guided Therapy (IGT) due to fewer number of radiologists and trainees

Next Steps

- Implement mandatory handover education
- Engage IGT team to assess readiness for implementation of the handover process

Scan the QR code below to watch the OR to PACU handover video:



References

Boat, A. C., & Spaeth, J. P. (2013). Handoff checklists improve the reliability of patient handoffs in the operating room and postanesthesia care unit. *Pediatric Anesthesia, 23*(7), 647-654. <https://doi.org/10.1111/pan.12199>

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Redley, B., Bucknall, T. K., Evans, S., & Botti, M. (2016). Inter-professional clinical handover in post-anaesthetic care units: Tools to improve quality and safety. *International Journal for Quality in Health Care, 28*(5), 573-579. <https://doi.org/10.1093/intqhc/mzw073>