National Quality Improvement Conference

Building Resilience In A Perioperative Care Program Through A Framework Of Implementation, Audit, Training & Innovation kwang_yeong_how@ttsh.com.sg

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Problem Statement

ERAS[®] is perioperative care protocol that helps improve surgical outcomes. This is achieved through multidisciplinary collaboration and coordination, to achieve a high (>70%) level of compliance. During the pandemic, this workflow was disrupted. This has the potential to reduce compliance to the ERAS[®] program and hence affect outcomes.



Tan Tock Seng



Project Aim

To evaluate if existing ERAS[®] programs can still be performed effectively during the pandemic and new programs implemented successfully, despite major disruptions.

Outcome measures

- Length of stay
- Complications
- Compliance to ERAS[®]
 - Readmissions

Lessons Learnt

ERAS®	Audit:	Training	Quality
Implementation		0	Improvement
implementation	Processes &	Q	R
Program	Outcomes	Education	
			Innovation

Multi-Disciplinary Partnership

The Perioperative Recovery Office (PRO) was set up in 2020 to facilitate the implementation of perioperative care services in TTSH based on the overarching framework of ERAS[®], supported by 4 pillars, built upon a foundation of multidisciplinary partnerships. The 4 pillars are:

- 1. ERAS[®] Implementation Program
- 2. Audit and feedback
- 3. Training and education
- 4. Quality improvement and innovation

Outcomes & Impacts

ERAS[®] colorectal program

	Pre Covid-19 Period (N =851)	Covid-19 Period (N=543)	P-value
Overall compliance	73.1	72.0	0.349
LOS (median)	5 (4-9)	5 (4-9.5)	0.644
Overall complications	37.7%	42.3%	0.275
Readmissions	62 (7.2%	21 (3.8%)	0.008

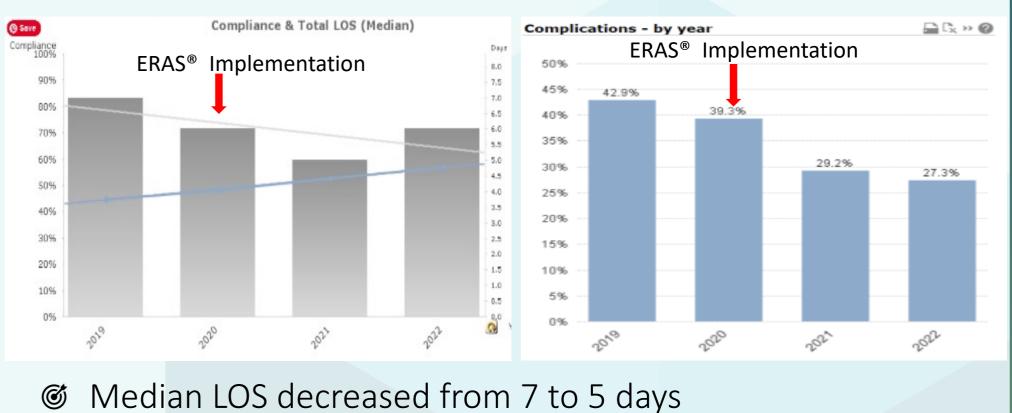
The resilience of the ERAS[®] program is essential to sustaining compliance and maintaining good outcomes during the pandemic.

- New ERAS[®] subspecialty protocols can still be implemented successfully despite restrictions.
- Collective leadership with whole of program approach helped to overcome the challenges and difficulties encountered during the pandemic.

The PRO framework of implementing, sustaining and scaling ERAS[®] protocols across subspecialties helps to build resilience into the perioperative care program in TTSH.

- There was no difference in compliance to the program, LOS and complications.
- Readmission decreased during the pandemic

ERAS® breast surgery with reconstruction



Overall complications dropped after ERAS[®] implementation.

Compliance increased.