National **Quality Improvement Conference**

Sustained Improved Emergency Laparotomy Outcomes **Following A Transdisciplinary Perioperative Care Pathway** Goo J.T.T., Chan K.S., Lim W.W., Ong Y.J., Lee JW., Ong M.W

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Problem Statement

- Emergency Laparotomy (EL) is commonly performed for various potentially lifethreatening intra-abdominal surgical conditions.
- Compared with elective surgery, EL bears significant global health burden with high post-operative mortality and healthcare costs. • KTPH was the 1st hospital in Singapore to adopt a peri-operative care pathway – Emergency Laparotomy pathway (ELAP) since 2019.



Project Aim

Key objective: To *reduce post-operative* complications and improve survival following ELAP implementation.

Aims:

- Surgery performed within 6 hours from time of decision for surgery in emergency cases
 <u>Consultant-led</u> perioperative care
 ALL patients with NELA predicted mortality > 10%
- transferred to ICU/HDU post-operatively
- 4. ALL patients aged ≥ 65 reviewed by Geriatrician post-operatively

Lessons Learnt

Outcomes & Impacts



- Manpower diversion during Covid-19 posed a challenge as the clinical team struggled to ensure essential manpower is kept in order to keep the pathway running
- Limited resources at individual hospital such as insufficient beds in Surgical High Dependency unit has made us change our criteria for post-operative admission from NELA predicted mortality risk of 5% to 10% and pathway needs to be individualized according to resources and demands.
- The ELAP pathway has generated greater awareness of the problem and more ELAP QI initiatives have been implemented in TTSH and NTFGH, translating to more receptive improvement in emergency general surgery.