



**Increased survival might be an unexpected  
additional advantage of enhanced recovery  
after surgery programs**

**NOVEMBRE 2024**  
FIERE E CONGRESSI

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Journal of Visceral Surgery (2018)



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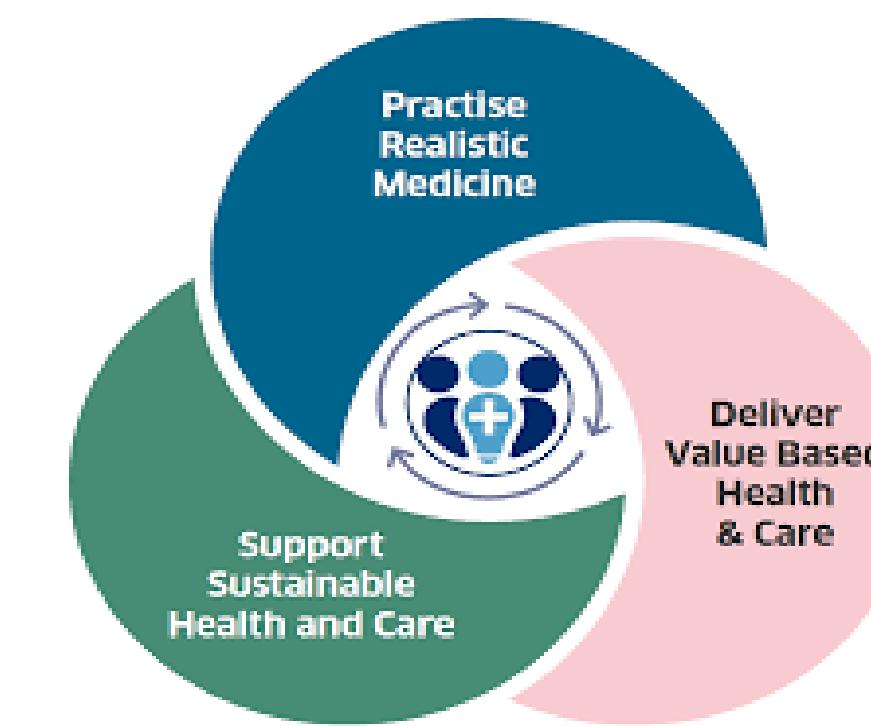
"We are confronted with an innovative approach that is beneficial for health care teams (improvement of working conditions), for society (lower costs), and above all for patients (improvement of postoperative course and perhaps, also, improved survival in case of cancer). These benefits place ERP as one the best surgical innovations of the last decades, far in front of many technological innovations."

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VBM focuses on **patient value – increased life expectancy and increased HRQoL**

Bae JM. Epidemiol Health. (2015).

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JAMA Surgery | Review

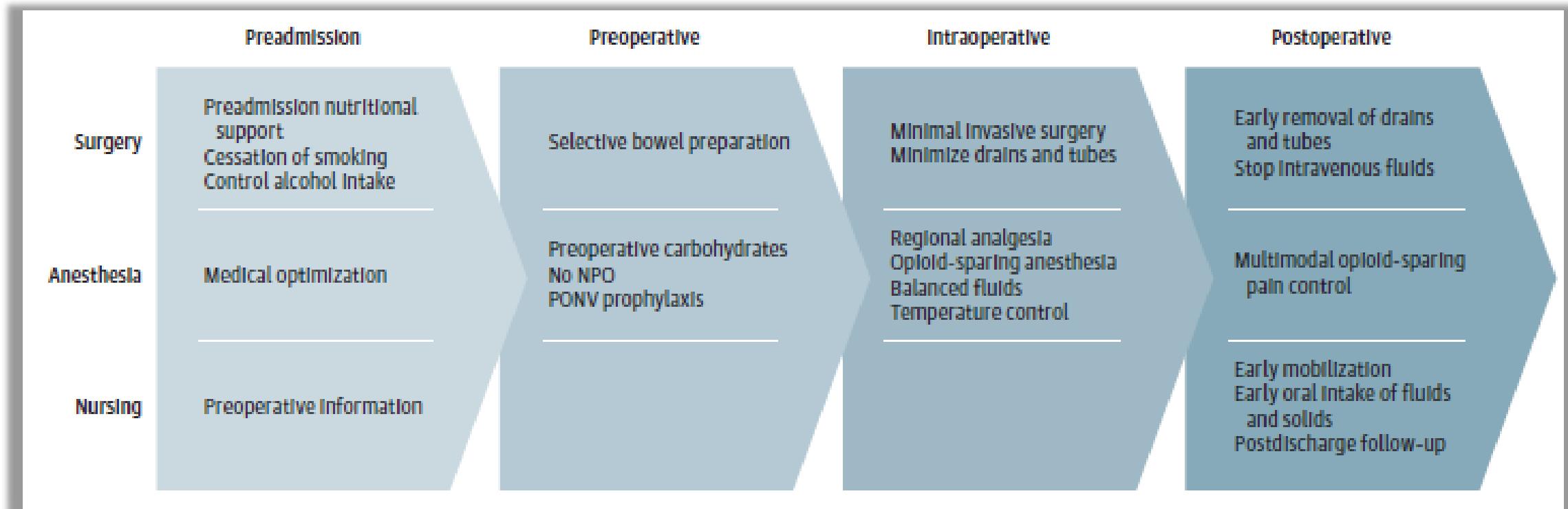
## 'Enhanced Recovery After Surgery' A Review

Olle Ljungqvist, MD, PhD; Michael Scott, MD; Kenneth C. Fearon, MD, PhD<sup>†</sup>

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## ERAS (Enhanced recovery after surgery) flowchart



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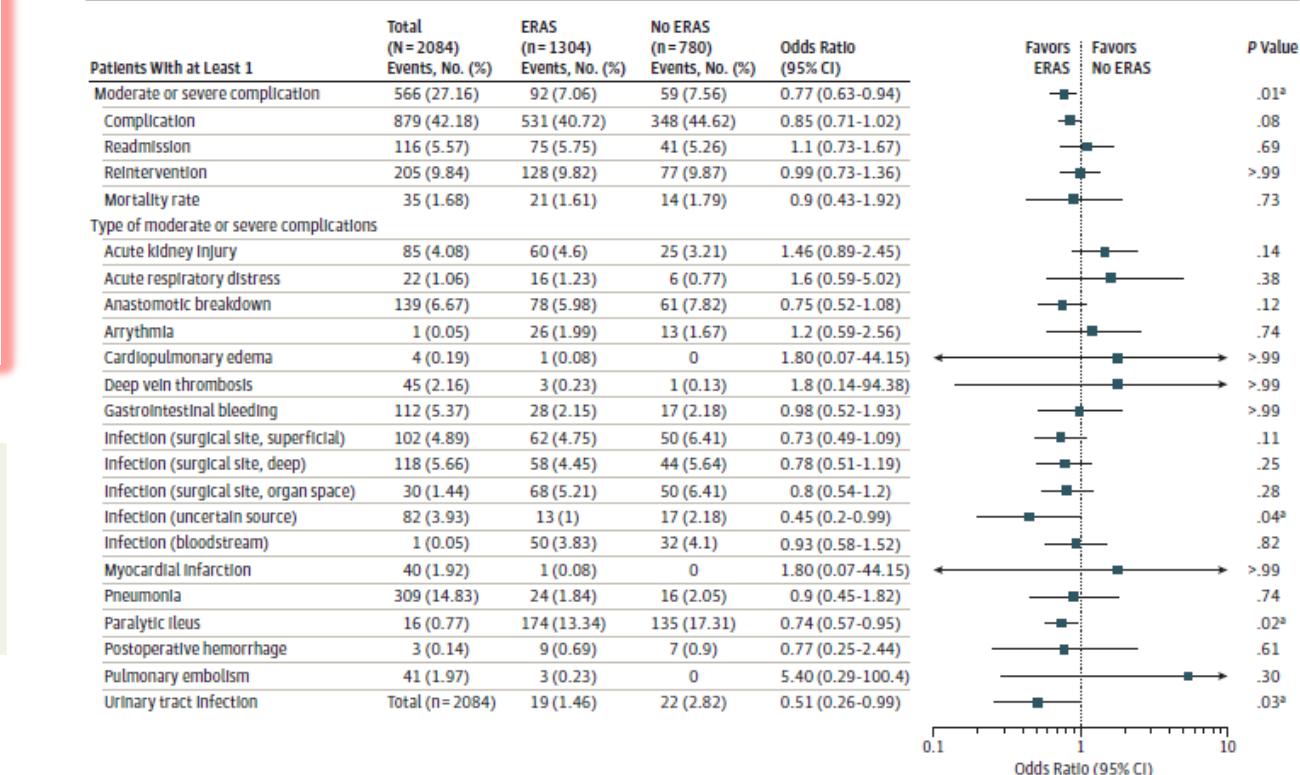
JAMA Surgery | Original Investigation

## Association Between Use of Enhanced Recovery After Surgery Protocol and Postoperative Complications in Colorectal Surgery

The Postoperative Outcomes Within Enhanced Recovery After Surgery Protocol (POWER) Study

**CONCLUSIONS AND RELEVANCE** An increase in ERAS adherence appears to be associated with a decrease in postoperative complications.

Figure 2. Postoperative Outcomes



Moderate or severe complications and type of complication in all included patients and in patients with and without the Enhanced Recovery After Surgery (ERAS) protocol.

\* Statistically significant.

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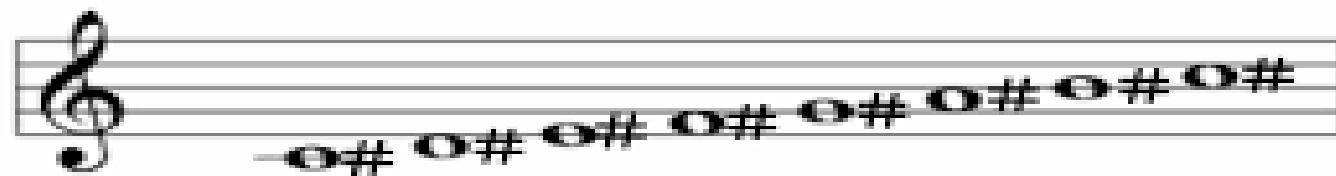


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## ERAS

### Minor surgery



ERPs allow standardization of perioperative care, which minimizes variability and improves perioperative outcomes.

Most likely, the implementation of ERP principles have allowed migration of complex surgical procedures from inpatient setting to the outpatient setting (e.g. major joint arthroplasty, spine surgery, mastectomy, hysterectomy, prostatectomy, and thyroidectomy).

Joshi GP. et al. Anesth Analg (2019)



### Major surgery

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## Why implement ERAS programs in minor surgery?

- Implementing the ERP principles in the ambulatory surgical practice should reduce postoperative complications and alleviate the concerns of moving invasive surgical procedures and complex patients (older and sicker) from the hospital to ambulatory facility.
- Ambulatory surgical facilities may not always have resources to manage complications after invasive surgical procedures in complex patients. In addition, there is a concern of delayed diagnosis and treatment of complications after discharge home on the day of surgery.
- Adverse outcomes such as unplanned hospital transfers from an ambulatory surgical facility, acute care or emergency department visits after discharge home, and hospital readmission may increase healthcare costs.

Joshi GP. Curr Opin Anaesthesiol. (2020)



**REVIEW**

**Table 3.** Postoperative outcomes measures to assess recovery after ambulatory surgery

CURRENT  
OPINION

Morbidity

Pain, nausea, vomiting

Respiratory: inability to extubate, bronchospasm, laryngospasm, airway obstruction, respiratory depression, reintubation

Cardiac: arrhythmia, hypotension, hypertension, myocardial ischemia/infarction, heart failure, pulmonary edema

Neurological: cerebrovascular event (stroke/transient ischemic attack), delirium and cognitive dysfunction, residual neurological deficit from regional analgesia

Significant blood loss requiring blood transfusion

Surgical complications (e.g. wound-related, bleeding and hematoma, infection, and tissue ischemia)

Delayed recovery and discharge home

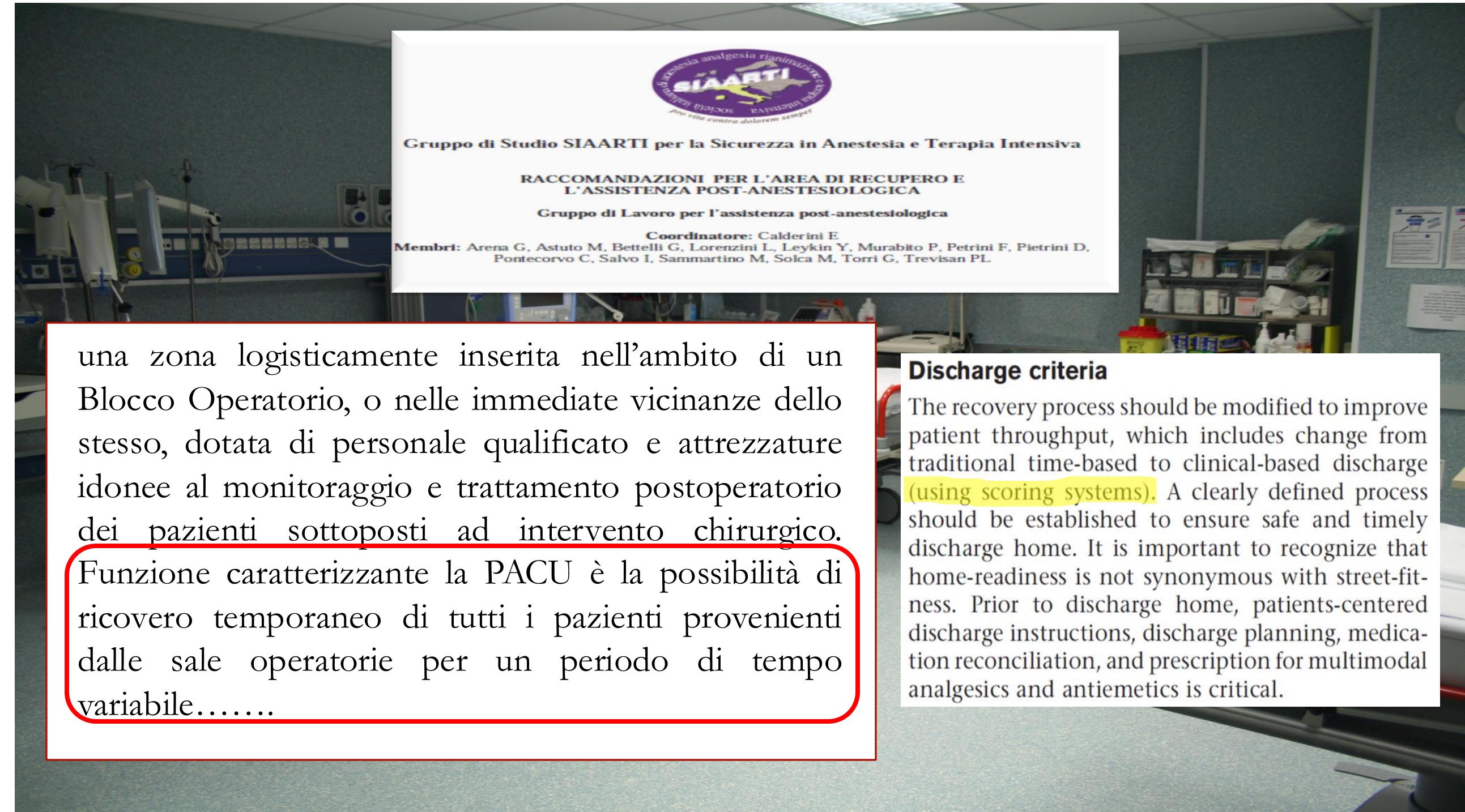
Unplanned hospital admission

Readmission after discharge home

Joshi GP. Curr Opin Anaesthesiol. (2020)

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ERAS e chirurgia ciclo breve



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Si deve fare!

- Ridurre eventi avversi ed al contempo garantire assistenza a pazienti più complessi
- Ridurre il numero di riammissioni e di trasferimenti verso ospedali più strutturati
- Garantire al paziente una miglior assistenza anche in termini di qualità percepita del percorso stesso

**Grazie!!**

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