

## The Potential Relevance of Accelerated Recovery After Surgery Protocol in Reducing Morbidity and Complications After Major Head and Neck Cancer Surgery

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### Abstract

**Purpose of the Review Article:** To review the advantages of enhance recovery after surgery (ERAS) protocol in nonhead and neck disciplines and to portray early execution endeavors in significant head and neck surgeries.

**Ongoing Research:** Several researches have taken on ERAS protocol for significant head and neck a medical procedure and exhibited its achievability and adequacy.

**Summary:** There is developing proof that clinical and monetary results for patients going through significant head and neck a medical procedure recovery can be altogether improved by normalizing preoperative, intraoperative, and postoperative therapy protocols. Current experience is restricted to single focuses. A future objective is to expand the reception of ERAS in head and neck careful oncology to incorporate public and worldwide joint effort, information sharing, and learning.

**Keywords:** Upgraded Recuperation After Medical Procedure; Head and Neck Surgery; Oncology

### Introduction

Since the approach of current medication right off the bat in the twentieth century, there has been a powerful strain between the customary act of medication as an art based undertaking and the arrangement that improper practice variety is normal and unsafe. The development and evolution of clinical protocol and care pathways challenges customary reasoning and give a chance to investigate new strategies for working on the worth of medical services. Indeed, even in enormous, complex surgeries, noteworthy fluctuation exists, with respect to the medical procedure itself, yet

in addition the preoperative evaluation, assessment, postop, follow up. In 1973, Wennberg and Gittelsohn [1] distributed the main examination taking at variety in medical care conveyance and since that time extensive exploration uncovers that variety is a significant issue. Effectively during the 1980s, we realized that training variety was a critical driver of expenses, bleakness and mortality in medical services [2]. Such variety is costly and hurtful and we have discovered that conveying care reliably and dependably is successful in decreasing mischief and working on the worth of medical care. The effect of diminishing variety is notable [3-7] however

notwithstanding this information, barely any spots have effectively decreased unseemly variety in a steady, dependable and supportable way [8]. Clinical consideration pathways (care maps, protocol, and so on) are one method of diminishing variety and working on the constancy of care conveyance. These pathways lessen inconveniences and furthermore decrease the expense of care [9,10].

Significant head and neck oncologic medical procedure is unpredictable, tedious and exorbitant. During the most recent thirty years, the presentation of free flap reconstruction remaking has particularly worked on improved esthetics and function.

ERAS protocol for head and neck a medical procedure require a multidisciplinary group approach.

ERAS can bring good prognosis for head and neck patients.

ERAS further develops wellbeing framework execution.

ERAS works with patient contribution in their consideration and recuperation.

Additionally, many head and neck patients have a longstanding history of smoking, drinking and low financial status and as a result often have major comorbidities. Subsequently, the intricacy of the surgery as well as the co-morbidities referenced above add to a high recurrence of confusions [11]. A few researches show further developed head and neck a medical procedure results with the utilization of care pathways [12-14] though others have shown decrease in aspiratory difficulties, clinic length of stay, and expenses of care [15]. Most head and neck care pathways have zeroed in on the elements of care delivered after completion of resection and reconstruction whereas enhanced recovery after medical procedure (ERAS) conventions widen the extension to incorporate preoperative and intraoperative consideration components.

The motivation is to review the effect of ERAS protocol in working on careful results and to comprehend the developing role of ERAS in significant head and neck a medical procedure with free flap recreation.

### Improved recovery after surgery

In the last part of the 1990s/mid 2000s, Henrik Kehlet, *et al.* [16,17] first distributed their outcomes on 'quick track' conven-

tions in patients going through major colorectal surgeries. The creators zeroed in on characterizing key components of pre-op, intra-op, and postoperative consideration for elective colorectal medical procedure which expected to: streamline preoperative arrangement, forestall postoperative entanglements, limit the pressure reaction to medical procedure, and to accelerate recovery and return to normal function. Drs. Ken Fearon and Olle Ljungqvist further progressed Kehlet's work and eventually ERAS protocol were created and carried out for colorectal patients in many revolves all throughout the planet. Proof from ERAS in colorectal medical procedure reliably shows decreases in confusions and length of stay [18-20]. In 2005, the ERAS Study Group created and distributed a proof based agreement convention for patients going through colonic medical procedure [21]. At last, a worldwide ERAS Society was set up in 2010 with the objective to work on perioperative consideration and to improve recuperation through research, schooling, review and execution of proof based practices. Since that time, other careful disciplines (vascular, gastric, pancreatic, urogynecologic and muscular medical procedure, and so forth) have created and distributed ERAS rules. In 2007, Maessen, *et al.* [22] distributed information showing that just adding a convention was not adequate to change practice and that convention consistence was basically significant in accomplishing the best results. Subsequently, an ERAS rule is just an initial step: rule execution requires a proper way to deal with instruction, change the board and estimation, review and criticism. These exercises are testing and require strong clinicians as well as a steady clinic/authoritative climate.

### Key elements for successful implementation

Planning proof based conventions is difficult work and execution of these conventions gives unique difficulties to programs that wish to bring ERAS into their extent of training. Our experience over numerous long stretches of planning and carrying out care pathways uncovers that five center components are basic to fruitful pathway execution. On the off chance that any component is feeling the loss of, the shot at effective execution is significantly diminished.

### Drawn in clinicians

The clinical group should incorporate all individuals who really contact the patient during their disease medical procedure venture: previously, during, and after medical procedure. Special-

ists are plainly a significant piece of this group yet other medical services suppliers should be essential for the turn of events and execution of an ERAS convention. A solid clinical champion(s), who is regarded by his/her partners is basically significant in executing upgraded protocol.

A significant issue there are various clinical regions that a group could focus in on. We suggest focusing in on something that is important to your patients and your program. On account of head and neck a medical procedure, patients going through significant resection with free-flap emaking are vital as far as time, force, dismalness and cost. Along these lines, focusing is in on this gathering of patients is a logical place to start head and neck ERAS work. Having opportune and exact information is significant in directing needs for care pathway advancement.

### Understanding the processes

Utilizing the science in improvement and further develop clinical processes is a critical stage in carrying out ERAS. In this manner, having people with quality improvement ability installed in clinical groups is a basic achievement factor. Proper and gifted utilization of value improvement approach guarantees that key clinical cycles are recognized and improved and that significant clinician time isn't squandered.

### A technique to further develop them

Once more, dependable quality improvement techniques must be used when implementing an ERAS program. Utilizing an expert surgeon will set aside time and cash and guarantee the best utilization of progress assets. quality improvement procedures are additionally helpful for planning estimation, review, and input frameworks and reports.

A maintainable framework for estimation, review and criticism. The foundation of any improvement convention is an estimation review and input framework that gives clinical, utilitarian, fulfillment and cost results information to clinical groups and payers. These components permit itemized comprehension of the worth of medical services being conveyed for a specific gathering of patients. Thusly, a fruitful ERAS program more likely than not committed assets for estimation, review and criticism.

### Pre-eras outcomes improvement in head and neck surgical oncology

Preceding the advancement of ERAS in head and neck careful oncology, many creators distributed examinations showing the advantages of care pathways in working on clinical results and additionally expenses of care. Some chose models are talked about beneath: Keeping away from tracheotomy in free flap patients.

Meerwein., *et al.* [23] assessed two strategies for airway management in patients going through head and neck disease resection and microvascular free tissue transfer. The authors tentatively surveyed an associate of patients which didn't get essential tracheotomy and were overseen utilizing a postponed extubation approach. These patients were reflectively contrasted with a gathering of patients going through essential tracheotomy utilizing an assortment of perioperative and postoperative result measures. Not performing routine tracheotomy was all around endured and no perioperative airway complication occurred. Patients without tracheotomy were extubated after 1.10.9 days (meanSD) and secondary tracheotomy was required just in 13% of patients. Patients not going through tracheotomy showed diminished span of a medical procedure ( $P < 0.05$ ) and showed patterns to before resumption of oral taking care of and diminished length of emergency clinic stay. Flap reconstruction rates were comparable in the two groups, with a general flap survival rate of 97.5% (n<sup>1</sup>439/40) reasoning that with proper postoperative consideration, carefully selected patients going through significant head and neck resections with free tissue transfer can be securely and cost-effectively managed without routine tracheotomy.

### Early versus late tracheostomy

A new meta-examination explored whether early tracheostomy in the Intensive Care Unit (ICU) setting prompts further developed results contrasted and late tracheostomy [24]. In the 11 included investigations for examination, there was a huge decline in the ICU length of stay in the early tracheostomy bunch. None of the examinations revealing laryngotracheal results tracked down a huge distinction between the early and late tracheostomy gatherings, though each of the three investigations detailing sedation utilize tracked down a huge decline in the early tracheostomy bunch. This examination tracked down that early tracheostomy performed

inside 7 days of intubation was related with an abatement in ICU length of stay. No distinction was found in clinic mortality.

### Head and neck care pathways in practice

Distributed proof, and our experience, propose that focuses treating patients going through significant head and neck medical procedures should carry out clinical pathways as a methodology to work on the worth of medical care conveyance. Planning and executing these pathways requires a devoted and facilitated multi-disciplinary group. Figure 1 shows individuals and cycles engaged with the treating patients going through significant head and neck resection with free fold reproduction. Every one of the significant periods of care require conventions that definitely characterize the real consideration components, who conveys the consideration and when it ought to be performed. Handoffs between care stages are officially characterized and prearranged and all players contribute to planning the consideration.

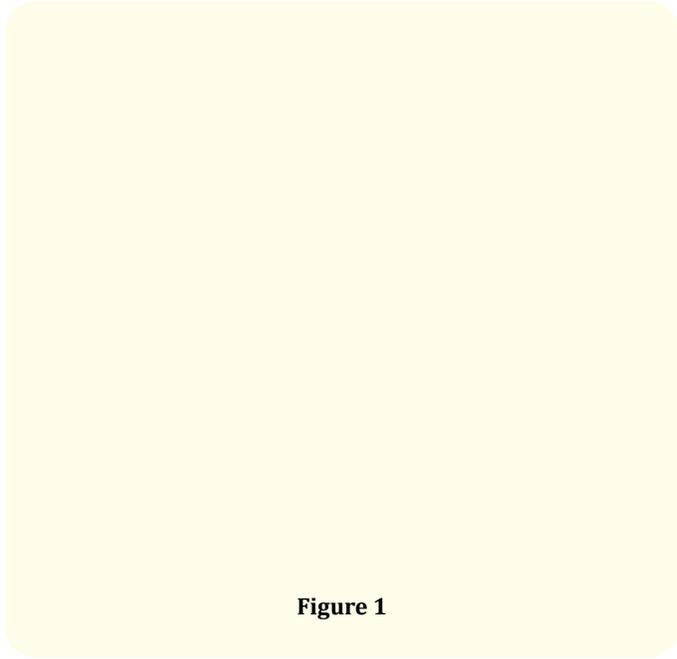


Figure 1

Patients are at the focal point of the consideration framework and in our program we have asked our patients and families to take part in their own perioperative consideration and furthermore the observing of their individual consideration pathway progress. The foremost objective of these conventions is to work on clinical

results and decrease entanglements. On the off chance that these objectives are refined, the general expense of care and length of emergency clinic stay will be decreased.

The Calgary bunch has impressive involvement in care pathway plan and execution and have likewise planned and carried out vigorous estimation, review and input frameworks [15,25-27]. These creators found that patients oversaw on a consideration pathway had not just less intricacies and more limited length of stay yet in addition utilized less medical care assets after release from emergency clinic [28]. Thanh., *et al.* [29] affirmed this finding in a different companion of colorectal medical procedure patients treated in Alberta. Probably the most punctual work in head and neck care pathways was driven by Dr Randal Weber from the MD Anderson Cancer Center. In 1999, Husbands., *et al.* [30] researched the presentation of clinical consideration pathways (CCPs) for head and neck careful patients. These creators normalized clinical dynamic and worked on clinical and monetary execution all the while. Patients joined up with a consideration pathway were contrasted with a benchmark group of recently treated patients. The CCP bunch didn't show any antagonistic results contrasted with the controls and the length of emergency clinic stay was diminished by 5 days bringing about reserve funds of US\$ 26 000 for every persistent.

Weber., *et al.* [31] likewise examined doctor execution as a device to additionally work on clinical and monetary results. These creators utilized an assortment of clinical execution markers, for example, length of hospital stay, red blood cell usage, return to operatory room, wound contaminations, and others. Results were essentially influenced by the sharpness of a surgery, comorbidity, and by the individual specialist. The creators presumed that doctor execution estimation, when fittingly hazard changed and communicated, forms an important part of an overall quality administration program.

### Progress to ERAS for head and neck surgery

The primary work on care pathways just examined was vital. Be that as it may, these consideration pathways principally centered around postoperative consideration and tried to ignore preoperative and intraoperative consideration components. Extensive ERAS protocol incorporate an assortment of proof based consideration components that are intended to upgrade the patients clinical con-

dition before a medical procedure, limit postoperative queasiness and retching and execute different intercessions to work on clinical results. Albeit the greater part of ERAS experience is in colorectal medical procedure patients, a significant number of the ERAS care components are pertinent to different spaces of a medical procedure. Head and neck a medical procedure is among the most requesting spaces of careful undertaking and was subsequently past due to have a completely evolved ERAS convention. Dort, *et al.* framed a global master bunch that made an ERAS convention for head and neck a medical procedure patients going through resection and free fold reproduction. This worldwide master bunch, working in a joint effort with the ERAS Society, made a complete ERAS rule comprising of 17 consideration components that were assessed utilizing a thorough, proof based methodology [32].

Other head and neck groups are dealing with improved recuperation programs (ERPs). An expert opinion directed ERP for laryngeal medical procedure dependent on the critical standards of colorectal medical procedure ERAS was proposed by Gemma, *et al* [33]. In this examination, 24 patients going through major laryngeal medical procedure or surgical removal of oropharyngeal tumors with muscle flap reconstruction were treated using an ERP protocol. The adherence rate to ERP items was high. Nutritional assessment, antibiotic prophylaxis, postoperative nausea and vomit prophylaxis and postoperative speech therapy targets were applied as required in 100% of cases. Some ERP items (antibiotic prophylaxis, intraoperative infusion rate, and postoperative speech therapy) were already frequently implemented before ERP adoption. Postoperative medical complications occurred in 8.3% of patients. The expert-opinion-based ERP protocol for major laryngeal surgery proved feasible. However, the degree of benefit deriving from its implementation was not assessed.

Coyle, *et al.* [34] described the development and implementation of an ERAS protocol for people undergoing surgery for head and neck cancer. They employed a structured approach that involved a broad multidisciplinary team. A 12-month study of compliance with the ERAS programme was undertaken from February 2014 to January 2015. Key elements included a patient diary, nutritional optimization, avoiding tracheostomy whenever possible, intra-operative goal-directed fluid therapy, and a specific head and neck postoperative pain management protocol. Overall compliance

was high but some areas showed significantly lower levels of compliance - only 55% of people were given an explanation of the ERAS programme preoperatively, 75% took preoperative carbohydrate drinks, 10% had individualized goal-directed fluid therapy, and only 7% were mobilized in the first 24h after surgery. The mean length of hospital stay was 14.5 days (standard deviation 7.48), a significant reduction from the pre-ERAS length of stay. In Bristol, where the study was performed, the ERAS programme is now embedded into the routine care of patients undergoing head and neck cancer surgery. Not all authors report good results with ERAS. McMahon, *et al.* found no association between the use of an ERAS pathway and surgical complications (major, wound, pulmonary). Furthermore, they found ERAS was not associated with a shorter hospital stay [35]. This result is surprising and the authors did not measure compliance with the protocol, making it challenging to assess the impact of the protocol.

Most of the recent ERAS studies are focused on colorectal and bariatric surgery. However, some other studies/reviews of interest to readers are discussed later.

Pisarska, *et al.* [36] conducted a meta-analysis on overall morbidity, length of hospital stay, complications, mortality, and readmissions in esophageal surgery. A total of 2042 patients were included in the analysis (1058 cases and 984 controls). Analysis of overall morbidity and complication rates did not show any significant difference, but non surgical and pulmonary complications were significantly lower in the ERAS group. Meta-analysis on length of stay presented significant reduction in the ERAS group (3.55; 95% confidence interval, 4.41 to 2.69)  $P < 0.00001$ .

Martin, *et al.* [37] investigated the motivations for implementation of ERAS protocols and also studied the difficulties and challenges in ERAS implementation. This multicenter qualitative study was undertaken between August and December 2016 and sought feedback from surgeons, anesthetists, and nurses working in ERAS centers in Switzerland (n¼16) and Sweden (n¼14). An online survey was answered by 52.7% of participants. Participants indicated their main motivations to implement ERAS were the expectation to reduce complications (91%), improve patient satisfaction (73%), and shorten hospital stay (62%). The application of an ERAS program represented major changes in clinical practice for 57% of

participants and did not differ between various specialties (surgeons, nurses, and anesthesiologists). The key barriers to implementation were time constraints (69%), opposition from colleagues (68%), and logistical reasons (66%). The three most frequently cited patient-related barriers to ERAS adoption were opposing personality (52%), comorbidities (49%), and language (31%). The authors concluded that implementing ERAS care into practice is challenging and requires important changes in clinical practice for all involved specialties.

Brandal, *et al.* [38] investigated the results of opioid sparing and multimodal analgesia promoted by ERAS protocols and assessed the impact of an ERAS intervention for colorectal surgery on discharge opioid prescribing practices. Patients treated 1 year before and 1 year after implementation were compared. The ERAS intervention for colorectal surgery led to an increase in opioid-free anesthesia and multimodal analgesia but had no impact on discharge opioid prescribing practices. The authors concluded that for an opioid-free anesthesia and multimodal analgesia to influence the opioid epidemic, the dose and quantity of the opioids prescribed should be modified based on the information gathered by in-hospital pain scores and opioid use as well as pain history before admission.

### Future development of ERAS in head and neck surgical oncology

We believe that there is a need, and an opportunity, for the head and neck surgery community to collaborate to further refine care pathways for head and neck surgery patients using ERAS principles. A broad consensus on approaches to measurement, audit, and feedback needs to be achieved and we also need to share our experiences with implementation. This collaborative approach would provide a forum for programs to learn from each other's outcomes and experience. A global working group with support for data collection and reporting, data sharing agreements and other aspects of ERAS would be very worthwhile and potentially transformative.

### Conclusion

ERAS is a proven approach to improving surgical outcomes and head and neck surgical oncology has joined the ERAS community of practice. The ERAS Society, which now has a head and neck working group, provides an ideal forum for an exchange of ideas and approaches and could work in collaboration with existing national

and international head and neck societies. We strongly advocate for interested programs to come together at the annual ERAS World Congress to begin the exciting work of transforming head and neck surgical care.

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### Conflicts of Interest

There are no conflicts of interest.

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