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## **Surgical Stress Response After Colorectal**

The laparoscopic approach in colorectal cancer surgery is motivated by the effort to reduce surgical

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stress by minimizing operative injury. The potential advantages include reduced pain, earlier return of bowel function, and shorter hospital stay. 2 It is a common notion that laparoscopic surgery induces a smaller inflammatory response than open surgery.

## **Surgical Stress Response After Colorectal Resection**

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1. Tech Coloproctol.

2015

May;19(5):275-80. doi:

10.1007/s10151-014-1

263-4. Epub 2015 Mar

12. Surgical stress

response after

colorectal resection: a

comparison of robotic,

laparoscopic, and open

surgery.

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**a ...**

Postoperative levels of

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IL-10, albumin,  
prealbumin, and TIBC

may be used as

determinants of

surgical stress after

colorectal surgery.

Keywords: Surgical  
stress, Inflammation,

Nutrition, Muscle

strength Volume 98,

Issue 4 (October-

December 2013)

**Surgical Stress  
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## Surgical Stress

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At the cellular level, it has been suggested that colorectal resection causes an increase in reactive oxygen species, with subsequent changes in nuclear and mitochondrial DNA. 1 Over the years, many strategies have emerged to attenuate the stress response to colorectal surgery, as well as ways to quantify and use it to predict clinical



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outcome, as delineated below.

## Resection **Surgical Stress Response After Colorectal Resection**

...

The perioperative immune status of colorectal robotic surgery (RS), laparoscopic surgery (LS), and open surgery (OS) patients has not been compared. Our aim was to evaluate perioperative stress

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and immune response  
after RS, LS and OS.

This prospective study  
included 46 colorectal  
surgery patients from  
the Department of  
Surgical Oncology of  
the University of Tokyo  
Hospital.

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a ...**

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Andersson, Bodil LU;

Ansari, Daniel LU;

Nordén, Morgan LU;

Nilsson, Johan LU and

Andersson, Roland LU

In International Surgery

98 (4). p.292-299.

Mark; Abstract Abstract

The human body's

response to surgery is

correlated with the

extent of tissue

damage.

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The short-term advantages of minimally invasive colon resection have been well established in several randomized trials. A major factor in the development of morbidity is the surgical stress response with subsequent increased demand on the patient's reserves and immune competence. Although the advantage in term of

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laparoscopic surgery

over open surgery has

been widely reported,

little is known about

the role of robotic

surgery.

**Surgical Stress and  
Colorectal Surgery -  
Full Text View ...**

Cortisol, growth

hormone, and prolactin

are secreted in

increased amounts

from the pituitary in

response to a surgical

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stimulus. Currently, there are few data of postoperative immune function and stress response after more invasive procedure such as laparoscopic colectomy and rectal resections.

**The surgical stress response and postoperative immune ...**

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notes: 20 notecards  
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marathon history by  
the mile sports, this  
proposal letter is to

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## **Colorectal Resection**

Postoperative

outcomes in terms of normal bowel function and length of hospital stay were significantly improved in the ERAS

group. Colorectal laparoscopic surgery within an ERAS

prototcol in elderly patients affects

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Response, decreasing

IL-6 and CRP levels

postoperatively and

improving Prealbumin

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post operative  
synthesis. Celsius.

Resection

**Surgical Stress  
Reduction in Elderly  
Patients Undergoing**

...

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Abstract The human  
body's response to  
surgery is correlated  
with the extent of  
tissue damage. The  
aim of the present  
study was

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**Surgical Stress  
Response After  
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...

Background: The aim of this study is to evaluate the effectiveness of an Enhanced Recovery After Surgery Protocol (ERAS) in relation to reduce the Systemic Inflammatory Response (SIR) to surgery using C-reactive protein (CRP)

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in the first (POD1),  
second (POD2) and  
third (POD3)  
postoperative day.

Methods: We enrolled  
121 patients (ERAS  
group) that underwent  
elective colorectal  
surgery with ERAS ...

### **C-reactive protein as a marker of the surgical stress ...**

The stress response to  
surgery is  
characterized by  
increased secretion of

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pituitary hormones and activation of the sympathetic nervous system. 13 The changes in pituitary secretion have secondary effects on hormone secretion from target organs (Table 2). For example, release of corticotrophin from the pituitary stimulates cortisol secretion from the adrenal cortex.

**stress response to**

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**trauma and surgery**  
| **BJA: British ...**

The stress reaction thus initiates a catabolic state by an increased release of catabolic hormones. Additionally immunosuppressive hormones are also released. In a surgery patient, the stress reaction is considered detrimental for wound healing. However, surgical stress reduced mortality from

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## **Surgical stress - Wikipedia**

Surgery can disrupt physiologic and metabolic homeostasis due to stress resulting in an endocrine response and increased post-operative complications. There are several ERAS interventions which impact insulin resistance and

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Resection  
**Preventing Surgical Site**

**Infections--Colon:  
Toolkit**

INTRODUCTION.

Enhanced recovery after surgery (ERAS) has been shown to reduce morbidities and length of hospital stay following elective and emergency colorectal surgery[1,2]. This multimodal program introduces a number of



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preoperative, intraoperative and postoperative measures aiming to minimize surgical stress responses and facilitate patient's recovery[1].

## **Learning curve of enhanced recovery after surgery program ...**

In surgical patients, the degree of insulin resistance is related to the magnitude of the

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operation (1). In major surgical procedures, such as major colorectal operations, up to 90% of the preoperative insulin sensitivity can be lost after the operation. This change in metabolism lasts for well over 1 wk, even after moderate surgical stress.

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