

# Perioperative Medicine Update 2020

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*Co-President International Board of Perioperative Medicine*





# TopMedTalk



## TopMedTalk

- Over 1 Million downloads since February 2018
- Global presence: Listened to in over 100 countries

# Euroanaesthesia 2017

The European Anaesthesiology Congress

## Perioperative Medicine

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### Prof Monty Mythen

**Sir Robert  
Macintosh Lecture**

Saturday 3 June 2017  
09:45 – 10:30

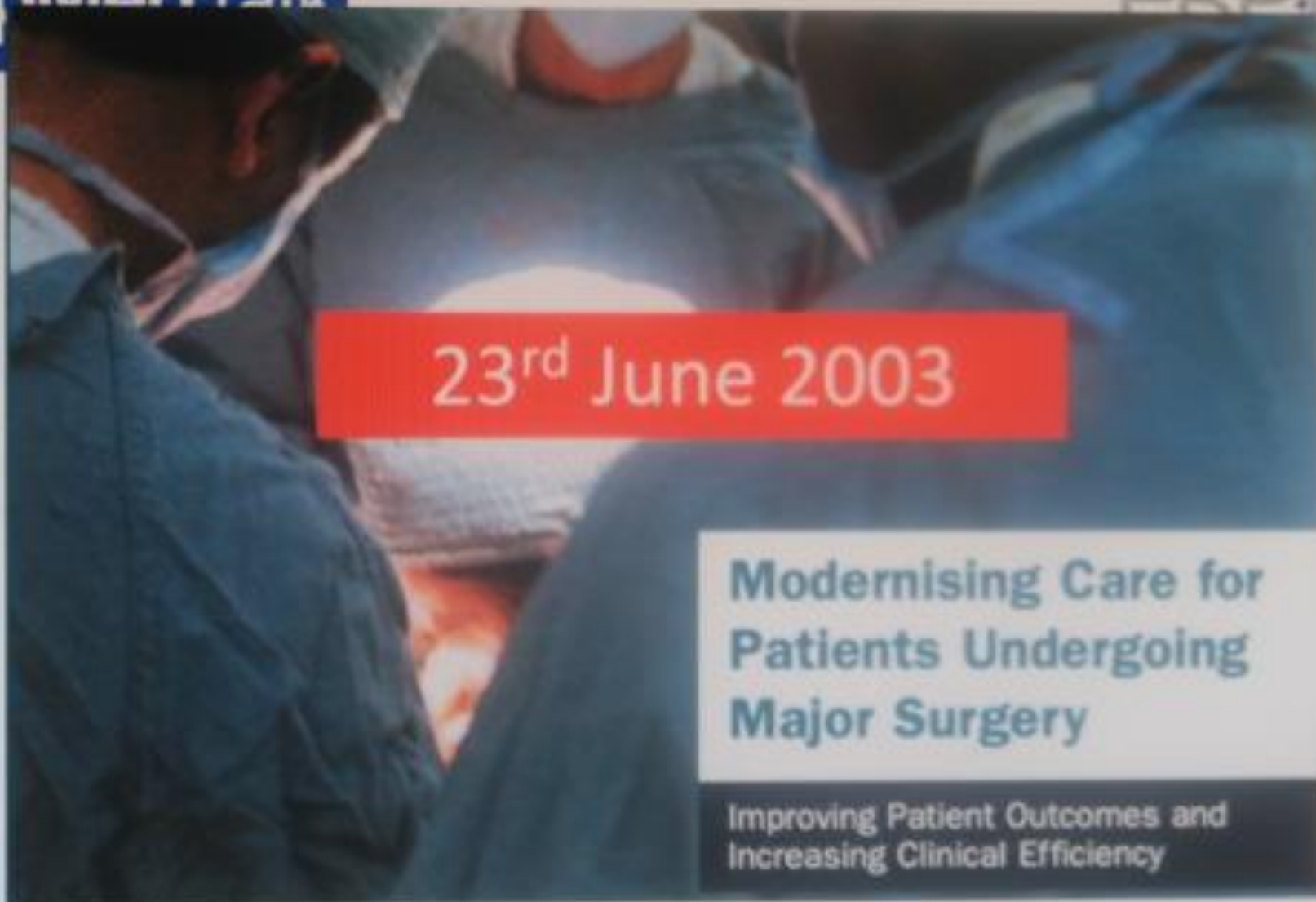






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ERPOM  
Healthcare Medicine



23<sup>rd</sup> June 2003

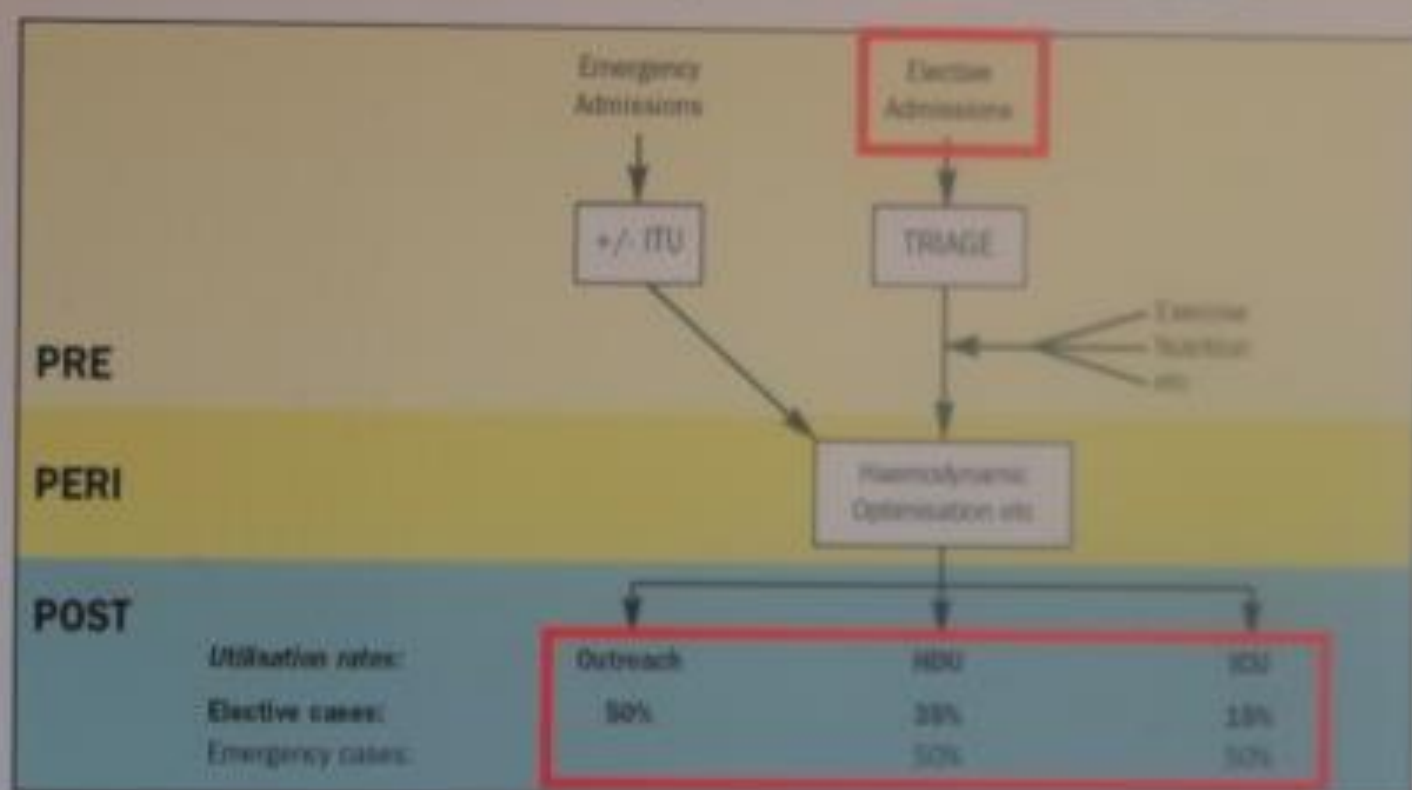
## Modernising Care for Patients Undergoing Major Surgery

Improving Patient Outcomes and  
Increasing Clinical Efficiency





Figure 5. Potential flow of patients through critical care and outreach teams. Adapted from 2



4.4 This will result in more efficient utilisation of HDU and ICU resources.





# BJA

British Journal of Anaesthesia

Volume 106, Number 3, March 2011

British Journal of Anaesthesia 106 (3): 289-91 (2011)  
doi:10.1093/bja/aeeq408

## EDITORIAL

### Why is the surgical high-risk patient still at risk?

H. Kehlet<sup>1\*</sup> and M. Mythen<sup>2</sup>

<sup>1</sup> Section of Surgical Pathophysiology 4074, Copenhagen University Hospital, Rigshospitalet, Blegdamsvej 9, 2300 Copenhagen, Denmark

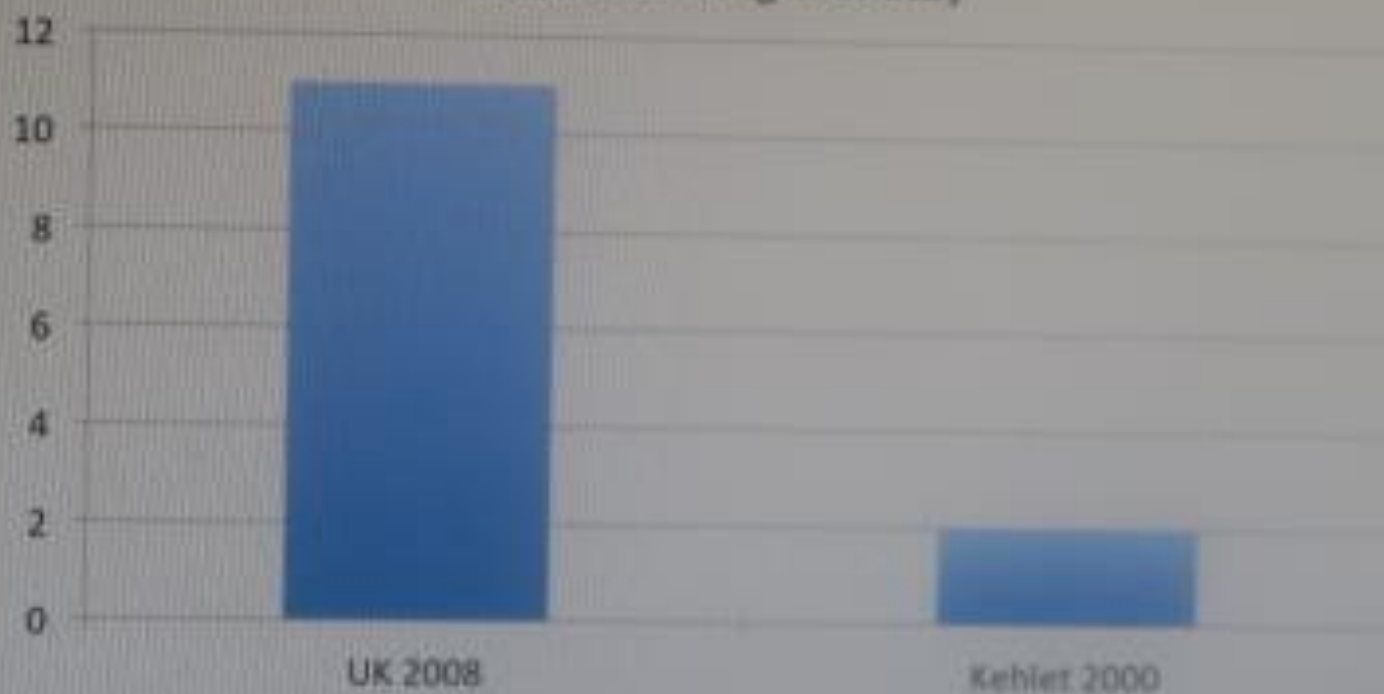
<sup>2</sup> Surgical Outcomes Research Centre (SOuRCe), UCL/ICLH National Institute of Health Research Biomedical Research Centre, London, UK

\* E-mail: henrik.kehlet@rh.regionh.dk





## Enhanced Surgical Recovery Colorectal Length of Stay





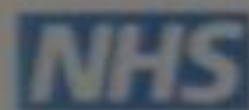
## Enhanced Surgical Recovery Colorectal Length of Stay







<http://www.enhancedrecovery.uk>



*Improving Quality*

NHS Improving Quality in collaboration with NHS England

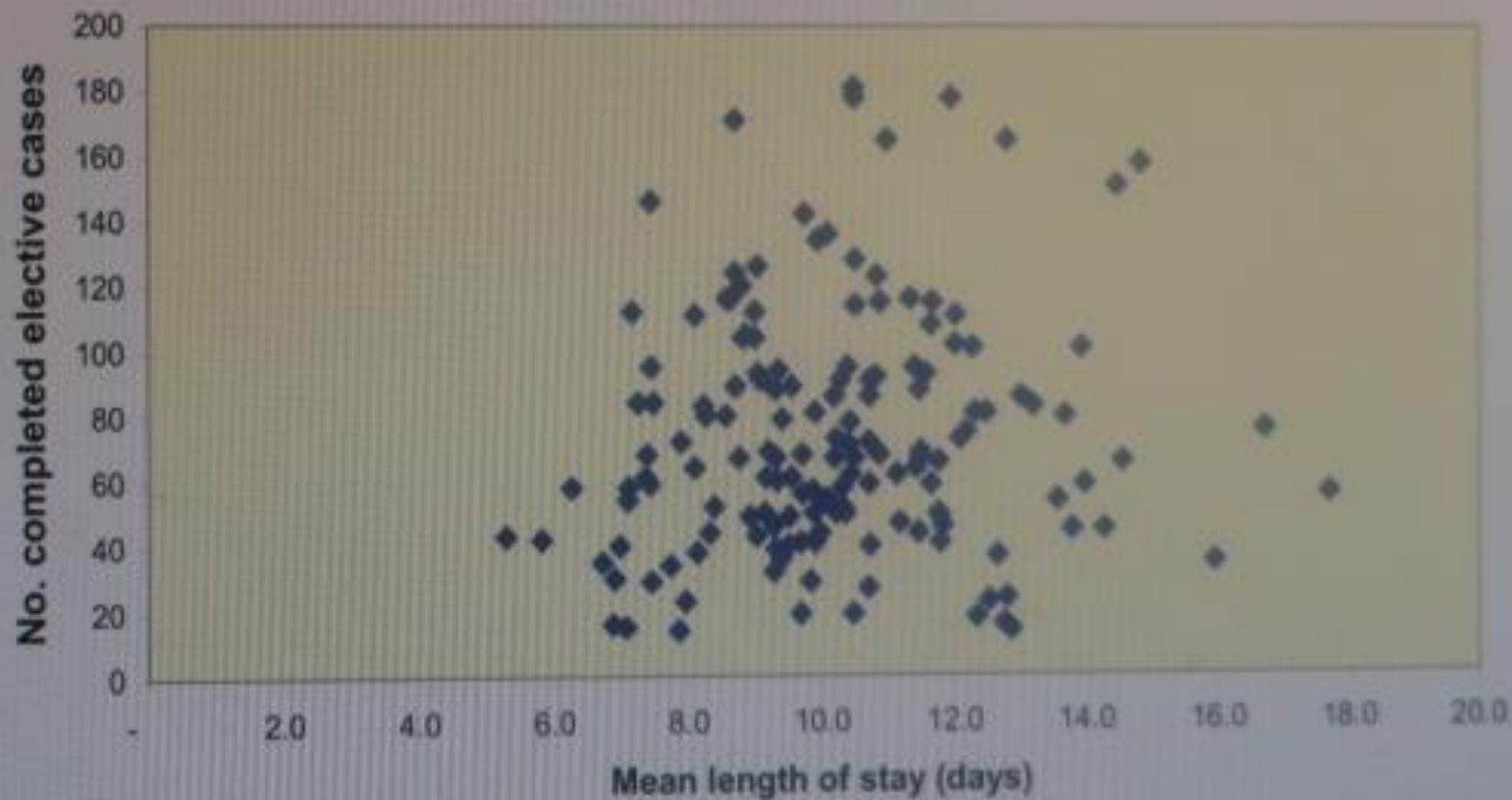
## Enhanced recovery care pathway

A better journey for patients seven days a week and better deal for the NHS

Progress review (2012/13) and level of ambition (2014/15)

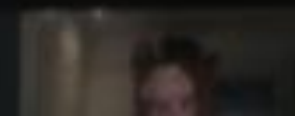
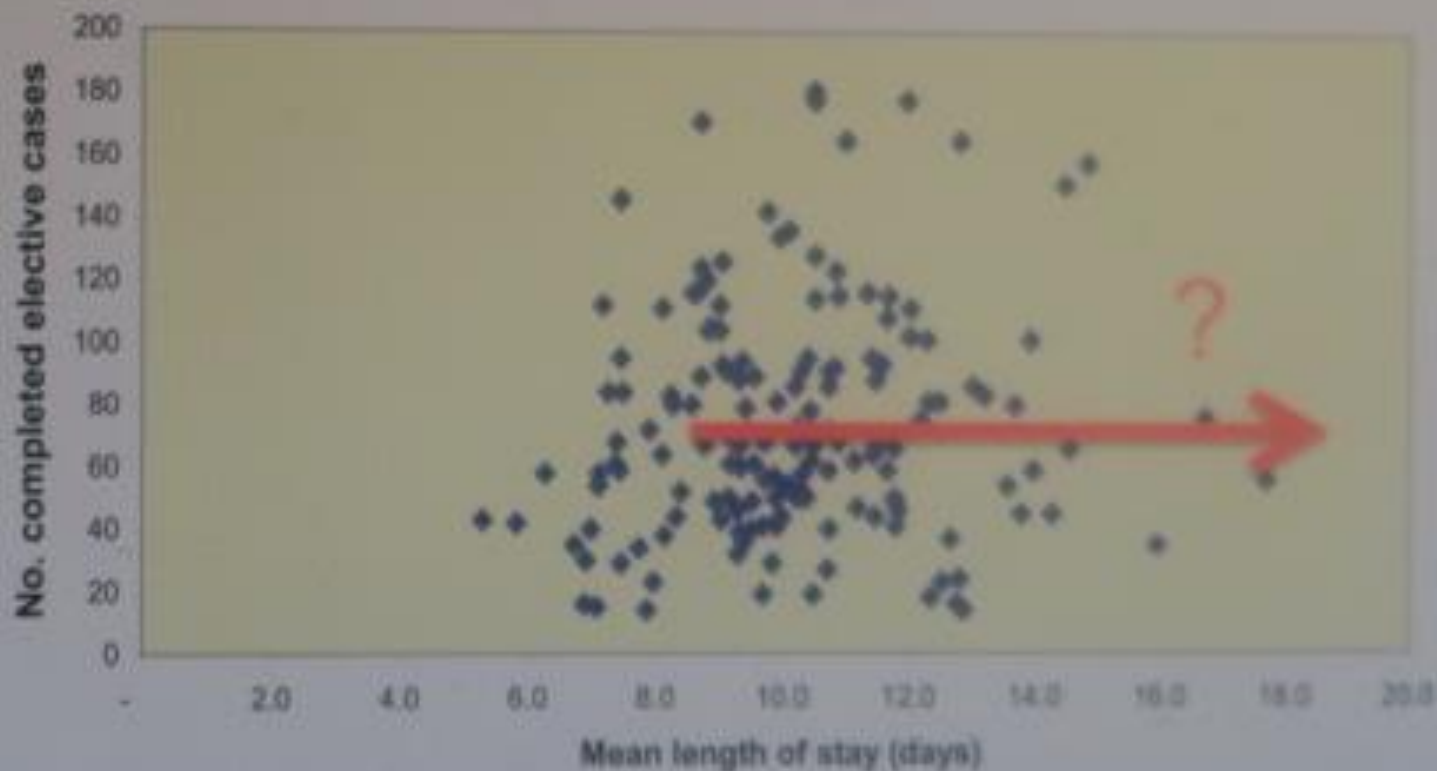


## Length of stay by volume of cases, provider 2008-09 prov. to Dec: Colorectal resection





Length of stay by volume of cases, provider 2008-09 prov. to Dec:  
Colorectal resection



# TEAMWORK





Reductions in Length of Stay following widespread adoption in UK





- ✓ Increased Productivity
- ✓ Increased Quality
- ✓ Increased Patient Satisfaction
- ✓ Reduced Cost





We believe that enhanced recovery should now be considered as standard practice for most patients undergoing major surgery across a range of procedures and specialties.

Professor Professor Julian Blain  
Faculty of Forensic & Legal Medicine

Professor Dr Andrew Jones  
British Association of  
Osteopaths

Professor Dr David Thomas  
Royal College of Physicians

Professor Professor Joseph Vize  
British Orthodontic Association

Professor Professor Neil Bhatt  
British Geriatrics Society

Professor Dr Graham Wilson  
Association of Anaesthetists

Professor Dr Anthony Fokker  
Royal College of Obstetricians  
and Gynaecologists

Professor Dr Peter Wightman  
Royal College of Anaesthetists

Professor Professor Richard Wilson  
Royal College of Surgeons

Dr Stephen Field  
GP & NHS School Doctor

Professor Dr Mike Richards  
Association of Anaesthetists and the  
UK Enhanced Recovery Programme

Professor Dr Peter Wainwright  
British Society of  
Anaesthetists

Professor Dr Mike Hoolby  
ESCP - The Association  
of Cancer Surgeons

Enhanced Recovery Summit - 30 April 2012

<http://www.enhancedrecovery.uk>



THE ROYAL COLLEGE OF ANAESTHETISTS ■ PERIOPERATIVE MEDICINE – THE PATHWAY TO BETTER SURGICAL CARE



Visit the perioperative website at [www.rcoa.ac.uk/perioperativemedicine](http://www.rcoa.ac.uk/perioperativemedicine) and watch the film.

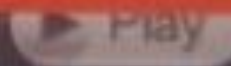
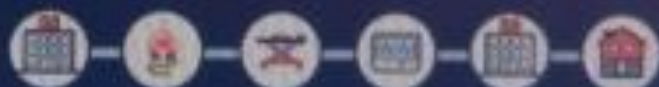




THE ROYAL COLLEGE OF ANAESTHETISTS ■ PERIOPERATIVE MEDICINE – THE PATHWAY TO BETTER SURGICAL CARE

## *“Enhanced Recovery on Steroids”*

THE



Visit the perioperative website at [www.rcoa.ac.uk/perioperativemedicine](http://www.rcoa.ac.uk/perioperativemedicine) and watch the film.



## Perioperative Medicine?

- ✓ *Perioperative Medicine describes the practice of patient-centered, multidisciplinary, and integrated medical care of patients from the moment of contemplation of surgery until full recovery.*
- ✓ *Perioperative Medicine improves the short-term safety and long-term effectiveness of surgical treatments by the delivery of multi-disciplinary integrated medical care before, during, and after surgery.*



# *The Role of the An(a)esth.....?*





*I am a Perioperative  
Physician!*







*I am also  
an Intravenous Doctor!*

*(Prof. David Lubarsky, Miami)*



## Inter-Collegiate View

*We are all in this  
together!*

Visit the perioperative website at [www.rcoa.ac.uk/perioperativemedicine](http://www.rcoa.ac.uk/perioperativemedicine) and watch the film.



# PERIOPERATIVE MEDICINE THE CHALLENGES



**£16BN**

IS SPENT ON ELECTIVE  
SURGICAL CARE IN ENGLAND  
EACH YEAR

**10  
MILLION**

PATIENTS  
HAVE SURGERY  
EVERY YEAR AND THIS  
NUMBER IS RISING

Visit the perioperative website at [www.rcoa.ac.uk/perioperativemedicine](http://www.rcoa.ac.uk/perioperativemedicine) and watch the film.





25%

OF THE POPULATION  
IN ENGLAND HAVE A  
LONG-TERM CONDITION



OUR POPULATION IS  
GETTING OLDER

THIS IS GREAT NEWS  
BUT LEAVES US  
WITH CHALLENGES

28%

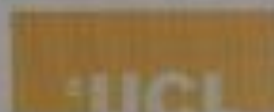
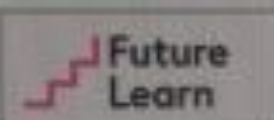


LESS THAN 1 IN 5  
NON-CARDIAC SURGERY  
INPATIENTS ARE  
ADMITTED TO ICU



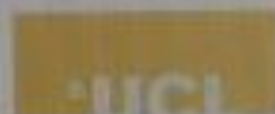


MOOC



[www.futurelearn.com/courses/perioperative-medicine](http://www.futurelearn.com/courses/perioperative-medicine)

MSc



[www.periopmed@ucl.ac.uk](http://www.periopmed@ucl.ac.uk)  
Twitter: @PeriopMedUCL





## Curriculum:

### Perioperative Medicine

This unit of training is intended to run in parallel with other units of training and is not designed to be undertaken as a standalone education course. The learning outcomes are applicable to all patients and will be achievable during clinical practice whilst undertaking the other units of training. Attaining the ability to lead a medical/perioperative assessment clinic is a mandatory component of this unit of training.

#### Core clinical learning outcomes:

- To deliver high quality preoperative assessment, investigation and management of all patients for elective and emergency surgery
- To deliver high quality individualised anaesthetic care to all patients, focusing on optimising patient experience and outcomes
- To plan and implement high quality individualised post-operative care for all patients
- To take a lead

### Perioperative Medicine

This unit of training is designed to be completed over 8 to 12 months. It builds upon the competences described in the Intermediate and Higher training. Trainees undertaking this unit of training should be familiar with the higher level competences.

#### Core clinical learning outcomes:

- To gain expertise in the clinical management of patients in the preoperative, intraoperative and postoperative periods
- To develop the capability to take a lead in decision making about the outcomes of high risk patients for surgery
- To identify the skills required to manage perioperative services ensuring that the care delivered is safe, efficient, benefiting both patients and the organisation
- To provide teaching to colleagues of all grades and specialties
- To develop local services and practice through the use of appropriate quality improvement projects
- To ensure that perioperative services are consistent with national and make efficient use of resources



Visit the perioperative website at [www.rcoa.ac.uk/perioperativemedicine](http://www.rcoa.ac.uk/perioperativemedicine) and watch the film.



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EBPOM

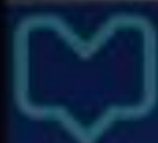


## International Board of Perioperative Medicine

Perioperative medicine is an emerging field of medicine in response to the increasing age and complexity of patients and the increase in the number of surgical procedures being performed. There is a large variation in perioperative medical practice which has led to a worldwide diversity in perioperative outcomes.



⚠️ Nabíráváte. Nabíráváte této stránce. Ujistěte se, že každému zobrazíte, že ich nabíráváte. Získejte ochrana osobních údajů



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<https://pqip.org.uk>

EBPOM  
Evidence Based Peri-Operative Medicine

PQIP



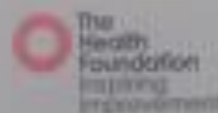
Perioperative Quality  
Improvement Programme



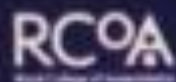
Perioperative Quality  
Improvement Programme



NIAA HSRC  
Health Services Research Centre







Preparing  
for surgery

# Fitter Better Sooner





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Evidence Based Peri-Operative Medicine

Anaesthesia 2019, 74 (Suppl. 1), 90-99

doi:10.1111/anae.14513

Review Article

## Peri-operative care pathways: re-engineering care to achieve the 'triple aim'

M. P. W. Grocott,<sup>1,2</sup> M. Edwards,<sup>1,2</sup> M. G. Mythen<sup>2,3</sup> and S. Aronson<sup>2,4</sup>

1 Anaesthesia, Peri-operative Medicine and Critical Care Research Group, Southampton NIHR Biomedical Research Centre, University Hospital Southampton/University of Southampton, UK

2 Morpheus Consortium, Duke University Medical Centre, North Carolina, USA

3 Centre for Anaesthesia, UCLH/UCL NIHR Biomedical Research Centre, London, UK

4 Department of Anaesthesiology, Duke University Medical School, North Carolina, USA



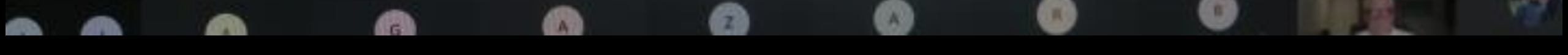


Anaesthesia 2019, 74 (Suppl. 1), 90-99

Grocott et al. | Peri-operative care pathways



Figure 2 Traditional pre-operative pathway. MDT, multidisciplinary team.



▲ Nahřívate. Nahřívate této schůzce. Ujistěte se, že každému oznámíte, že ich nahřívate. Získejte zdarma ocenění a udělení.



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# EBPOM

Evidence-based Peri-Operative Medicine

Anaesthesia 2019, 34 (Suppl. 1), W6-W9

Gracott et al. | Peri-operative care pathways

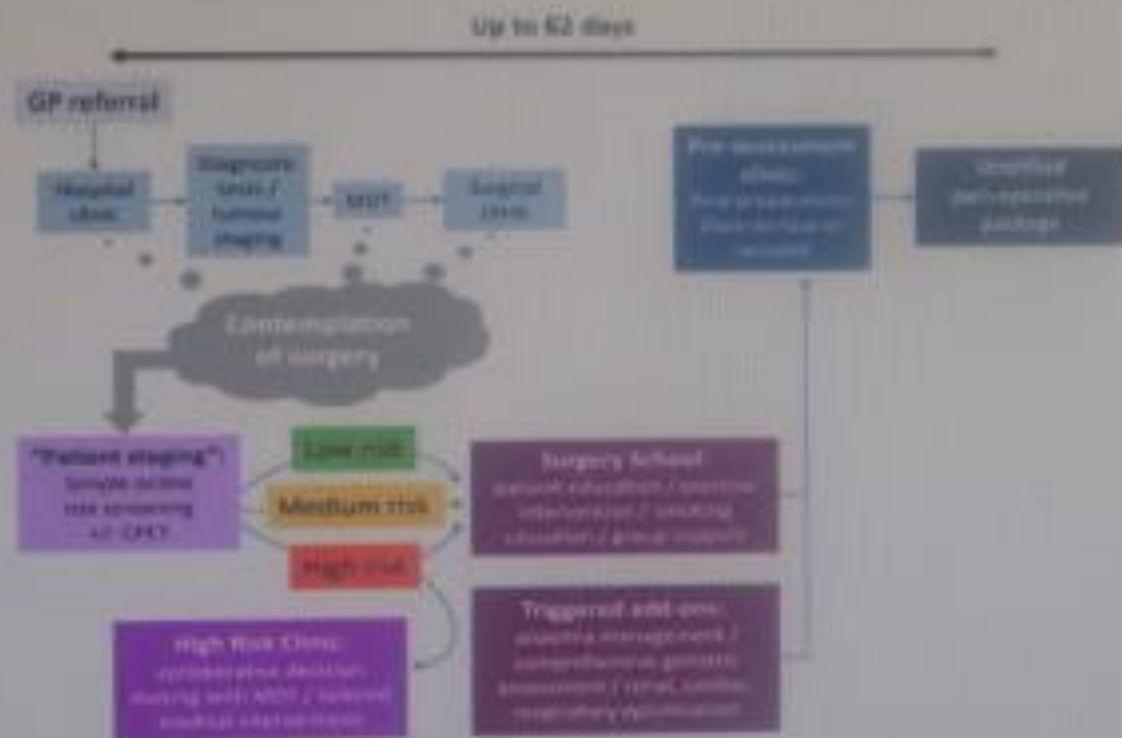


Figure 3 Proposed 're-engineered' pre-operative pathway.





▲ **Nahrávka** Nahrávate tuto stránku. Ujistěte se, že každému souhlasíte, že se nahrává. [Základy ochrany osobních údajů](#)

Zrušit

**TopMedTalk****EBPOM**  
Evidence Based Peri-Operative Medicine**RCOA**  
Royal College of Anaesthetists

A teachable moment:  
delivering perioperative  
medicine in integrated  
care systems



<https://www.rcoa.ac.uk/system/files/IntegratedCareSystems2019.pdf>



▲ Nahrávate Nahrávate tuto stránku. Ujistěte se, že každému zobrazení, že se nahrávate. Změny obsahů stránek odvíjí



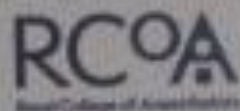
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Centre for  
Perioperative Care

CPOC is a partnership between:



Royal College of Anaesthetists



Royal College  
of Surgeons



Royal College  
of Physicians



Royal College  
of Nursing



Royal College of  
General Practitioners



Association  
of Anaesthetists

RCPCH

Royal College of  
Paediatricians



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<https://cpoc.org.uk>

