Perioperative Medicine: 2015-2020

Dr David Yates York Core Topics 7th Feb 2020



Declarations

• External Examiner UCL Perioperative Medicine MSc 2016-2019





2



66 Unless we re-engage with the wards to provide care before and after surgery, we will lose relevance. A retreat to the operating theatre will be to the detriment of the specialty.

RCoA Curriculum Survey 2014

Nonsense



Achievements

- Awareness
 - Other colleges
 - National projects (PQIP, etc)
- New status for Specialty
 - Academic appointments, etc
- Perioperative Medicine Leads
- Shared Decision Making
- Prehabilitation

- Pathway/Guideline development
 - Anaemia
 - Diabetes
 - Frailty
 - Preop exercise

Anaesthesia 2018, 73, 750-768

Guidelines

Clinical guideline and recommendations on pre-operative exercise training in patients awaiting major non-cardiac surgery

G. A. Tew,¹ R. Ayyash,² J. Durrand³ and G. R. Danjoux⁴²

1 Associate Professor, Department of Sport, Exercise and Rehabilitation, Northumbria University, Newcastle-upo Tyne, UK 2 Consultant, 4 Consultant and Research Laad, Department of Anaesthesia, James Cook University Hospital,

n Haussannagh, Uor 3 Aadamic Clinical Fellow, Northern School of Anaesthesia and Intensive Care Medicine and Newcastle Universi Newcastle, UK 5 Visiting Professor School of Health and Social Care. Tereside University. Middlechtrasch. UK

Summary

Depice calls for the notice implementation of prospective concise programmes to optimise patient fittees holes observe many energy for an ion practical patients for providing und and directive energies in the specific context. The following clinical patients was an energy of the specific context. The specific context is a specific context, and a specific context is a specific context. The specific context is a specific context of the proto-parameter period. These attentions could need to patient can with respect to strated strateging context and, where parameter parameters and the specific context. The protocol of the specific context of the protocol of the specific context. The specific context is a specific context of the specific context

Correspondenze to: G. Danjouex Email: gerard darijo taŭj vint.met Accepted: 5 November 2017

ords: guideline; physical exercise; postoperative complications; prehabilitation; surgery

Summary of key recommendations 1 properties each maing should be offend 2 properties eached as a single or compledentime supervised with a view to improving fast physical forms and hash actus and endough phytrial of per-operative modelly and smoothly. If resources are limited, pitody of referal to properative encodes and risk of per-operative mapiciations, such as those with low cardiorepitation flows. Prooperative rescue training should be offered as part of a multi-model probabilisation propose that additional searching of protoperative grant and additional searching and the searching dealer anomyterion and anoming former at the apoperative service programme should have built handwidge about which the programme enable hard its potential difficult. A pre-operative exercise programme should be presented to the patient by the referring clinician as a fundamental part of their strength of the search of the patient by the

ai:10.1111/anae.14177

18 The Association of Anaesthetists of Great Britain and Ind



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 - Preop exercise
- Improving outcomes
 - Research
 - QI
- Various services springing up

AdEvoy et al. Perioperative Medicine (2016) 5:3 DOI 10.1186/s13741-016-0028-1	Perioperative Medicine	https://doi.org/10.1186/013/941-018-0090-y RESEARCH Open Acces
RESEARCH A perioperative consult service resured reduction in cost and length of stay colorectal surgical patients: evidence a healthcare redesign project	or	Anesthesiologists as perioperative hospitalists and outcomes in patients undergoing major urologic surgery: a historical prospective, comparative effectiveness study Gay Stel ¹ , Davider Ramsing ^{1,7} , Roak Rava ² , Gay Shih ² , Bryan Halveson ² , Briahma Austin ² , Joseph Soo ² , Herbert Ruckle ² and Robert Martin ²
		Abstract Background: Perioperative care has been identified as an area of wide variability in quality, with conflicting models and involving multiple specialities. In 2014, the Lorna Linda University Departments of Anesthesiology and Unology implemented a perioperative hoophalitis service (PPG), consisting of anesthesiology-trained physicians, to co-manage patients for the entirety of their perioperative period. We hypothesized that implementation of this PHS model would result in an improvement in plattert recovery. Methods: As a quality improvement (QI) initiative, the PHS service was formed of selected anesthesiologists who received training on the one competencies for hooptalist medicine. The service was implemented following a comanagement agreement to medically manage patients undergoing major unologic procedures (prostatectomy, cytectomy, and rephrectomy). Impact was assessed by comparisons to data from the year prior to PHS service implementation. Data was compared with and without propensity matching. Primary outcome mater was a reduction in length of stays. Secondary outcome markers included complication rate, return of bovel function,
		number of consultations, reduction in total direct patient costs, and bed days saved. Results: Significant reductions in heigh of stay (p < 0.05) were demonstrated for all augual procedures with propensity matching and were demonstrated for cystectomy and rephrectomy cases without. Significant reductions in complication rates and lieus were also cobserved for all singular procedures port/HS implementation. Additionally, reductions in total direct patient costs and frequency of consultations were also observed. Conclusions: An extinctionally improving both presentive charged and throughput.

Early adopters of perioperative medicine: who are they and what motivates them?

British Journal of Hospital Medicine, November 2017, Vol 78, No 11

- Young
 - Median age 33.
- 75% trainees, 23% Consultant/SAS
- 75% anaesthetists, rest- surgeons, geriatricians, physicians, nurses
- 4 themes identified



Perioperative Medicine in Action



www.futurelearn.com/courses/perioperative-medicine



Challenges

• Still some way to go before universal acceptance.



- 758 respondents (60:40 Cons/trainee split)
 - 4.5% of the registered 16744 anaesthetists
- 64% consider themselves a 'perioperative doctor'
- 78% believe anaesthetists 'uniquely placed' to lead development of POM



Attitudes to POM- 758 respondents

- 26% agreed/strongly agreed they were confident to optimize medical comorbidity- crucially 47% disagreed/strongly disagreed
- 51% believe current training in POM is inadequate
- "Anaesthetists do not want to practice perioperative medicine"
 - 9% strongly agree, 31% agree

Challenges/Work in progress

- Still some way to go before universal acceptance.
- Turf war?

Perioperative Medicine

V.

MRCP

- Comorbidity management
- Complication management
- Drug knowledge
 - Confidence to tweak meds
- Discharge planning
- Better MDT experience
- Better knowledge of long term outcomes

- FRCA
- Cardiorespiratory physiology
- Complication prevention
- Drug knowledge
- Surgical knowledge
- Better concept of periop risk?
- Advanced analgesic techniques
- Technology adoption

v. FRCS?

Challenges/Work in progress

- Still some way to go before universal acceptance.
- Turf war?
- Proper integration with Primary Care





Preoperative risk evaluation in Primary Caresurvey of knowledge and attitudes

- 'Fascinating... it will influence my behaviour.... never thought to advise preop exercise. It makes sense!'
- I'm going to say to my patients, 'you do realise that the stress of this is equivalent to running a marathon- we need to start getting you into shape to help it go smoothly. What do you think we need to do to help you be as well as you can be for this?'
- 'Don't start chucking more work at under-resourced primary care!'

Challenges/Work in progress

- Still some way to go before universal acceptance.
- Turf war?
- Proper integration with Primary Care
- Lack of time/resources in current job plans
 - Use existing business cases



- Centre for Perioperative Care
- Multi-Specialty





The Centre for Perioperative Care [CPOC] is delighted to announce the appointment of Consultant Physician, Dr Jugdeep Dhesi, and Consultant Surgeon, Mrs Scarlett McNally as its new Deputy Directors.



What will CPOC do?

The new Centre for Perioperative Care aims to:

- improve quality of care
- empower patients
- support the workforce
- influence policy
- harness digital technology
- lead on research and innovation.

Postoperative Critical Care?



a short distance • Chest physiotherapy

Cost effectiveness of adult intensive care in the UK

S. Ridley¹ and S. Morris²

1 Consultant in Anaesthesia and Intensive Care, Glan Cluyd Hospital, Rhyl, Denbighshire LL18 5UJ, UK 2 Reader, Health Economics Research Group, Brunel University Uxbridge, Middlesex UB8 3PH, UK Anaesthesia, 2007, **62**, pages 547–554

- Incremental cost per QALY of ICU v no ICU
- Data taken from previous reviews of ICU rationing
- Cost per QALY = £7010



The Impact of Postoperative Intensive Care Unit Admission on Postoperative Hospital Length of Stay and Costs: A Prespecified Propensity-Matched Cohort Study

Anesthesia & Analgesia: 2019 ;129(3), 753-761

- Cohort of 3500 major surgery patients propensity matched to 23 periop variables but with different discharge destinations- ward or ICU
- "In patients with an unclear indication for postoperative critical care, intensive care unit admission may negatively impact postoperative hospital length of stay and costs."
- Conversely- 'genuine' need for ICU= reduced costs and length of stay.

FICM Enhanced Care Review



1. Critical care bed days 2009-2019 split L2/L3 - quarterly

Enhanced Care

GUIDANCE ON SERVICE DEVELOPMENT IN ACUTE CARE

VERSION FOR OPEN CONSULTATION: NOVEMBER 2019

Faculty of Intensive Care Medicine/Royal College of Physicians London Enhanced Care Working Parties 2019

Executive Summary

Enhanced Care is a relatively new concept. It can act as a bridge between critical care and normal ward care and takes different forms. It is an efficient way to utilise resources and may result in improved quality of care, reduced cancellation of elective surgery and provide cost savings. This document provides guidance for the development of Enhanced Care based on current knowledge and expertise. It is not a substitute for High Dependency Care but fills a gap allowing patients to be managed safely in an appropriate environment dependent on their needs. It facilitates access to Critical Care teams for enhanced advice and support, but not delivery of, Enhanced Care for the benefit of patients.

Summary

- Perioperative Medicine is not for everyone.
- It's not the same as anaesthesia.
- It is improving patient care and outcomes though.
- Postoperative Critical Care is not the right environment for elective patients

Perioperative Medicine in Action- 27th April

