

PRÆHABILITERING FØR KRÆFTKIRURGI



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RICH PEOPLE ARE HAPPIER THAN POOR, HEALTHY, HAPPIER THAN SICK; YOUNG, HAPPIER THAN OLD

BY HARRY L. MOUNTZOURES

October 22, 1971

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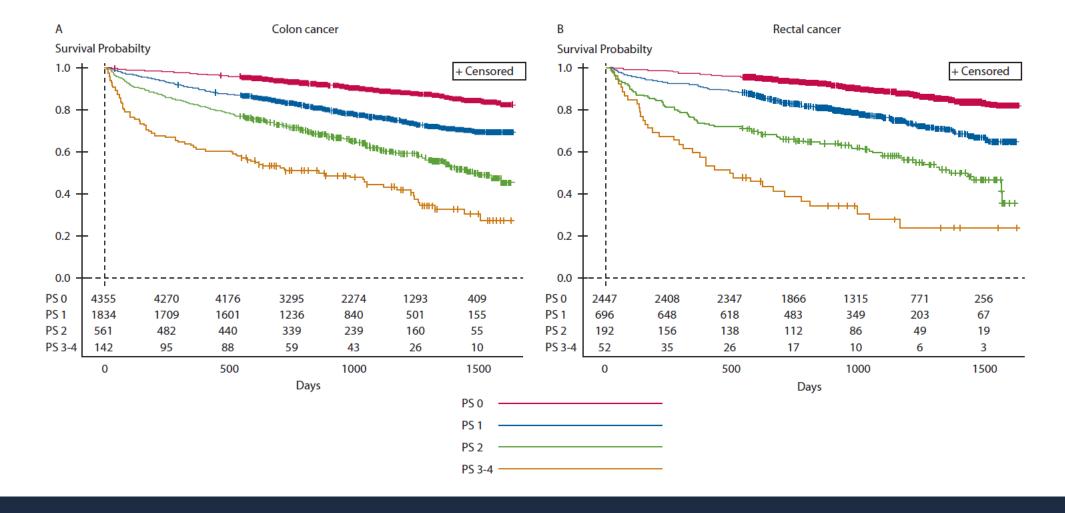








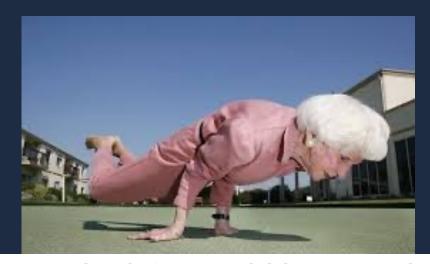
LONG TERM SURVIVAL



THE VULNERABLE PATIENT - ASSESMENT







Findings Between March 1, 2013, and March 25, 2016, we included 1401 patients in the study. 28 (2%) of 1401 patients died or had a myocardial infarction within 30 days of surgery. Subjective assessment had $19 \cdot 2\%$ sensitivity (95% CI $14 \cdot 2-25$) and $94 \cdot 7\%$ specificity (93 · 2-95 · 9) for identifying the inability to attain four metabolic equivalents during CPET. Only DASI scores were associated with predicting the primary outcome (adjusted odds ratio $0 \cdot 96$, 95% CI $0 \cdot 83-0 \cdot 99$; p=0 · 03).

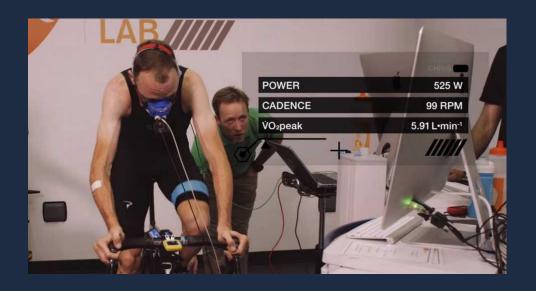
Assessment of functional capacity before major non-cardiac surgery: an international, prospective cohort study

Duminda N Wijeysundera, Rupert M Pearse, Mark A Shulman, Tom E F Abbott, Elizabeth Torres, Althea Ambosta, Bernard L Croal, John T Granton, Kevin E Thorpe, Michael P W Grocott, Catherine Farrington, Paul S Myles, Brian H Cuthbertson, on behalf of the METS study investigators

Lancet 2018; 391: 2631-40

RISK - CARDIOPULMONARY EXERCISE TEST (CPET)







37 studies – predictive of:

90 – 3 year mortality • Postoperative morbidity • ICU admissions • LOS

Intra-abdominal surgery:

mortality AT <10.9 ml/kg/min morbidity AT <10.1 ml/kg/min

Review Articles

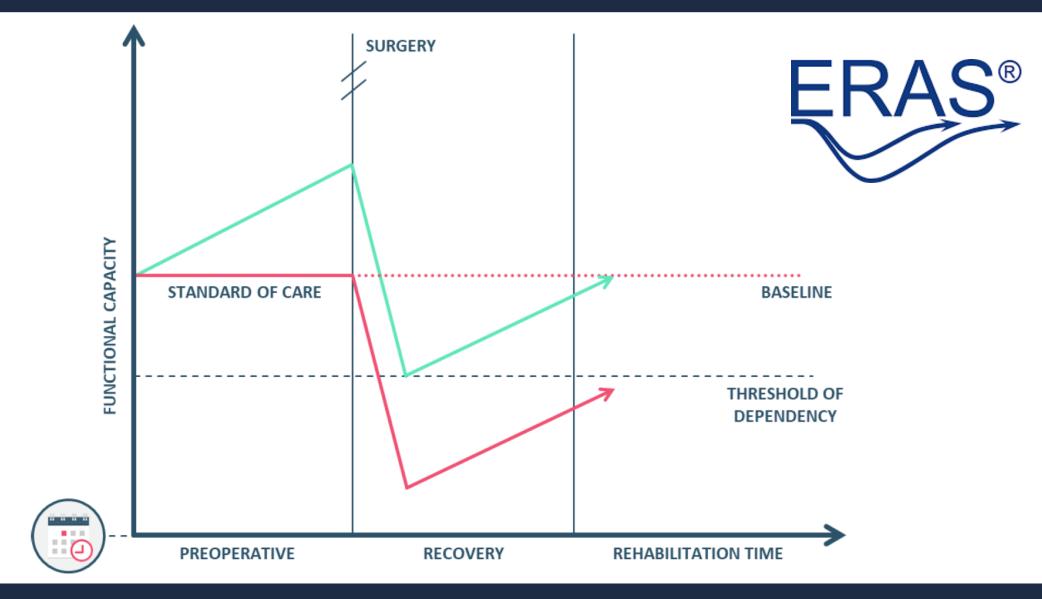
Role of cardiopulmonary exercise testing as a risk-assessment method in patients undergoing intra-abdominal surgery: a systematic review

J. Moran ¹ $\stackrel{>}{\sim}$ \boxtimes , F. Wilson ¹, E. Guinan ¹, P. McCormick ², J. Hussey ¹, J. Moriarty ³

ROC: 0.87 (0.78 – 0.95)

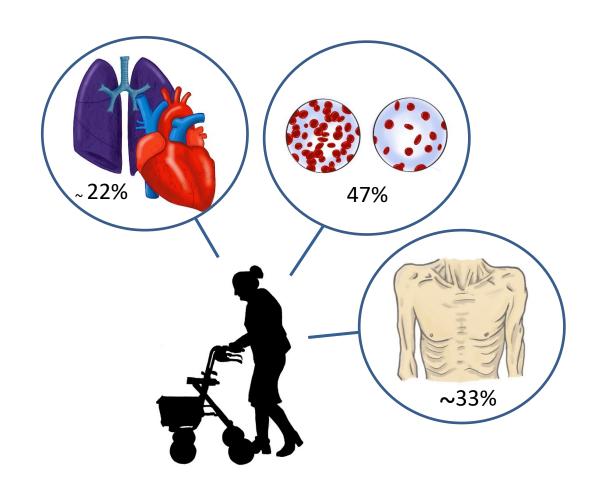
PREHABILITATION





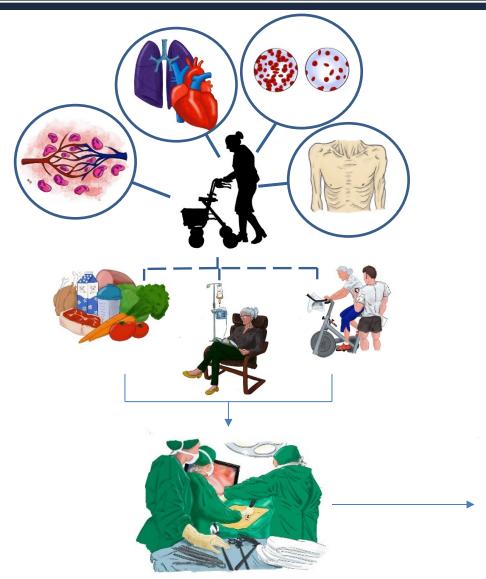
COMMON CONDITIONS IN CRC PATIENTS





Prehabilitation - Multimodal intervention





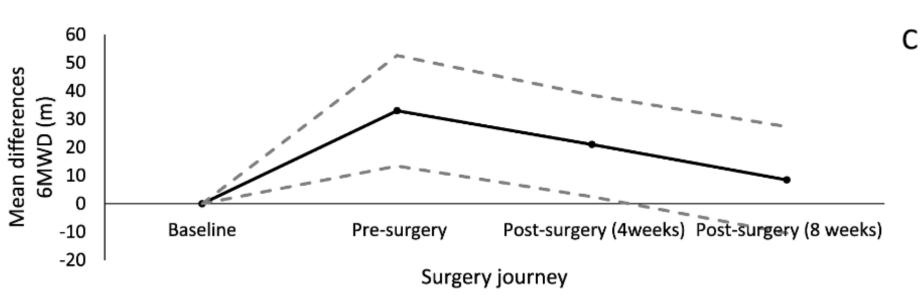




Superviseret træning – Metanalyse (n=1258)





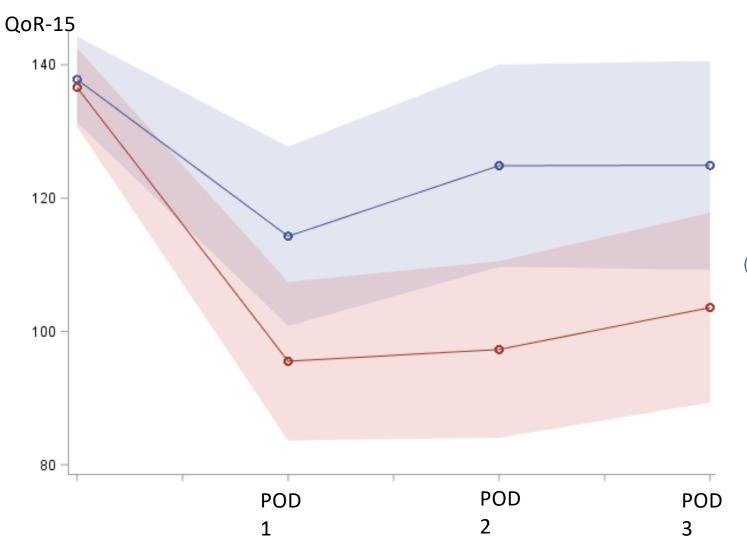


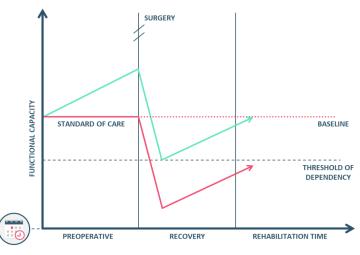
Superviseret training ≥ 1 weekly: Mean difference: 47 m, 95% [CI]: [20–75], P < 0.01

 VO_2 peak +1.47 mL·kg ⁻¹·min ⁻¹ (95% CI: [0.68, 2.25], P < 0.01)

Bojesen et al. BJS Open, Volume 7, Issue 6, December 2023







Overall treatment effect:

21.9 (95%CI: 4.50-39.31) p=0.0153

MCRD: 8

FIRST OF THE 'LARGE' RCT'S



POPULATION

138 Men, 113 Women



Adults scheduled for elective surgical resection of nonmetastasized primary colorectal cancer

Median age, 69 y

INTERVENTION

251 Participants randomized and analyzed



123 Multimodal prehabilitation

4-wk High-intensity supervised exercise and nutritional, mental health, and smoking cessation support



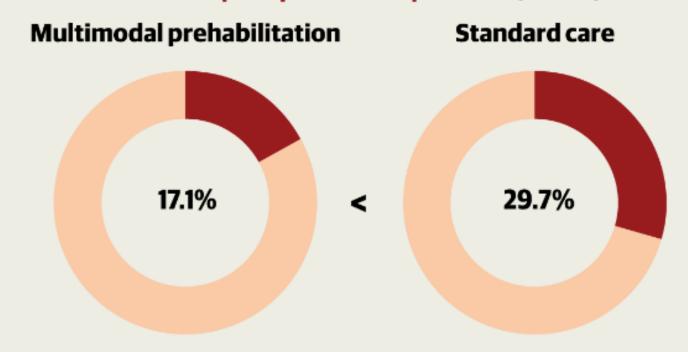
128 Standard care

Perioperative care per local standards

FIRST OF THE 'LARGE' RCT'S



Rate of severe postoperative complications (CCI >20):



Between-group differences, prehabilitation vs standard care:

Decrease in severe complications (CCI >20):

Odds ratio, 0.47 (95% CI, 0.26 to 0.87); P=.02

FIRST OF THE 'LARGE' RCT'S



Research Original Investigation

Effect of Prehabilitation on Postoperative Complications and Functional Capacity for Colorectal Cancer Surgery

Figure 2. Complications Within 30 Days After Surgery

Prehabilitation
Standard care

All complications
Severe complications
Medical complications
Surgical complications
Both medical and surgical complications

Complications in the intention-to-treat population (n = 251) are reported as percentage of patients having at least 1 complication, a severe complication (Comprehensive Complication Index score >20), at least 1 medical or surgical complication, and having at least 1 medical and 1 surgical complication.

a P<.05.

ANDRE GI CANCERE



Effect of home-based prehabilitation on postoperative complications after surgery for gastric cancer: randomized clinical trial

Augustinas Bausys^{1,2,3,*} [D], Martynas Luksta², Giedre Anglickiene⁴, Vyte V. Maneikiene⁵, Marius Kryzauskas² (D), Andrius Rybakovas², Audrius Dulskas^{1,2}, Justas Kuliavas^{1,2}, Eugenijus Stratilatovas¹, Lina Macijauskiene⁵, Toma Simbelyte⁵, Jelena Celutkiene⁵, Ieva E. Jamontaite⁶, Alma Cirtautas⁶, Svetlana Lenickiene⁶, Dalia Petrauskiene², Evelina Cikanaviciute⁷, Edita Gaveliene⁷, Gertruda Klimaviciute⁸, Kornelija Rauduvyte⁸, Rimantas Bausys^{1,2} and Kestutis Strupas^{1,3}

BJS, 2023, **110**, 1800–1807

https://doi.org/10.1093/bjs/znad312 Advance Access Publication Date: 26 September 2023

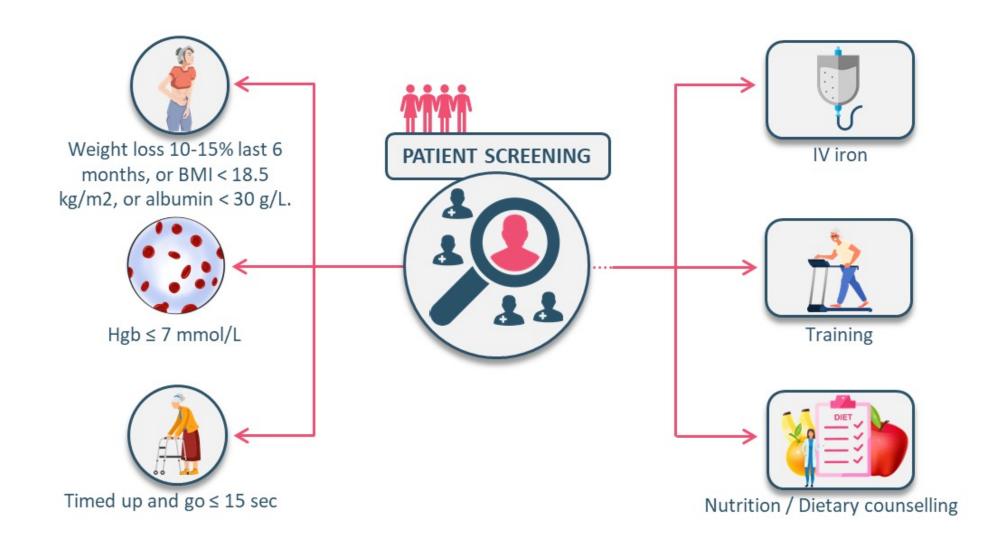
Randomized Clinical Trial

Results: Between February 2020 and September 2022, 128 participants were randomized to prehabilitation (64) or standard care (64), and 122 (prehabilitation 61, control 61) were analysed. The prehabilitation group had increased physical capacity before the operation compared with baseline (mean 6-min walk test change +31 (95 per cent c.i. 14 to 48) m; P = 0.001). The prehabilitation group had a decreased rate of non-compliance with neoadjuvant treatment (risk ratio (RR) 0.20, 95 per cent c.i. 0.20 to 0.56), a 60 per cent reduction in the number of patients with postoperative complications at 90 days after surgery (RR 0.40, 0.24 to 0.66), and improved quality of life compared with the control group.

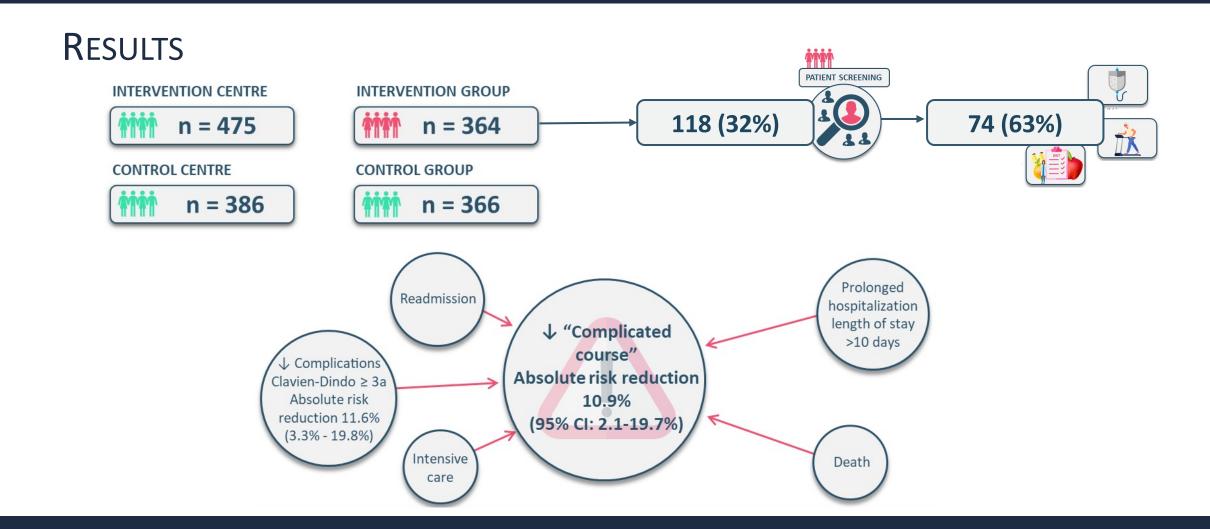
个 6-MWT (31m) ↓ Risk of complications (RR: 0.40)

↓ Risk of non-compliance
with neoadjuvant treatment
(RR: 0.20)









IMPLEMENTERING - Ka' DET BETALE SIG





Contents lists available at ScienceDirect

European Journal of Surgical Oncology

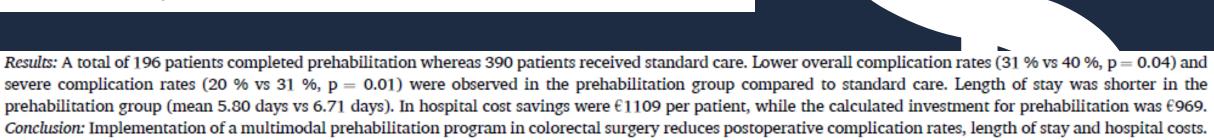
journal homepage: www.ejso.com





Prehabilitation in colorectal cancer surgery improves outcome and reduces hospital costs

Charissa R. Sabajo ^{a,b}, David W.G. ten Cate ^a, Margot H.M. Heijmans ^a, Christian T.G. Koot ^c, Lisanne V.L. van Leeuwen ^d, Gerrit D. Slooter ^{a,*}





Prehabilitation - Multimodal intervention



