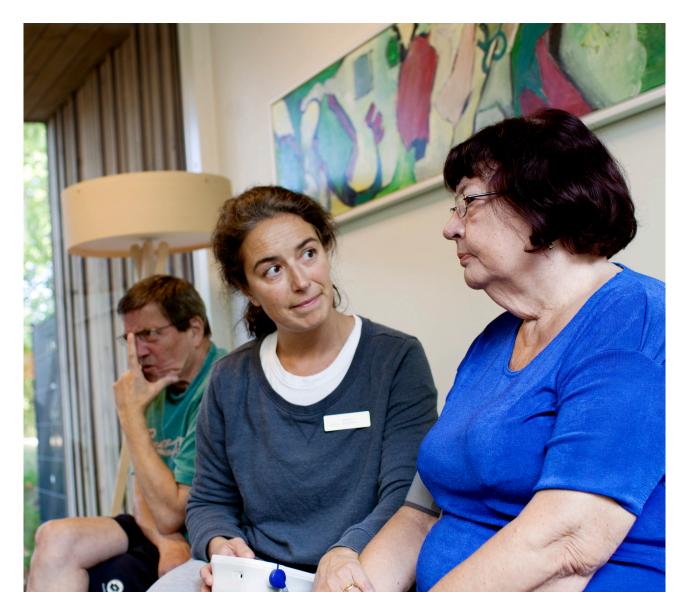


Photos: Anne-Li Engström and Adam Mørk









www.kraeftcenter-kbh.dk

Changes in health-related quality of life during rehabilitation in patients with operable lung cancer – a feasibility study (PROLUCA)

Trier K¹, Sommer M S¹, Vibe-Petersen J¹, Pedersen J H² and Langberg H³.

- ¹ Copenhagen Centre for Cancer and Health, City of Copenhagen, Nørre Allé 45, DK-2200 Copenhagen, Denmark
- ² Department of Cardiothoracic Surgery RT, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100, Copenhagen, Department of Public Health and Centre for Healthy Ageing, Faculty of Health and Medical S
- ³ CopenRehab, Section of Social Medicine, Department of Public Health and Centre for Healthy Ageing, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

INTRODUCTION

Surgical resection in patients with non-small cell lung cancer (NSCLC) may be associated with significant morbidity, functional limitations and decreased Quality of Life (QoL).

OBJECTIVE

Is to present HRQoL changes over time before and one year after surgery in patients with NSCLC participating in a rehabilitation program.

METHODS

Forty patients with NSCLC (disease stage I-IIIa) referred for surgical resection at Department of Cardiothoracic Surgery RT, Rigshospitalet, were included in the study. Baseline characteristics are presented in table 1. The rehabilitation program consisted of a supervised group exercise program two hours weekly for 12 weeks combined with individual counseling. Study endpoints were self-reported HRQoL (FACT-L, EORTC-QLQ, SF-36) and self-reported distress, anxiety, depression, and social support (NCCN Distress thermometer, HADS, multidimensional scale of perceived social support) measured pre-surgery, post-intervention, six months, and one year after surgery. The patients were also asked about smoking and alcohol habits.

RESULTS

Forty patients were included, and rehabilitation was completed by 73%. Results regarding emotional well-being (P<0.0001)(Figure 1), global quality of life (P=0.0032)(Figure 2) and mental component score (P=0.0004)(Figure 3) showed an overall statistical significant improvement during the study. Levels of distress (P=0.0006)(Figure 4) and anxiety (P=0.0003)(Figure 5) decreased significantly during the intervention but reversed between six months and one year after surgery without reaching baseline levels. The changes in smoking habits showed a reduction in number of currently smoking patients from 25% at baseline to 5% post intervention followed by an increase to 12% one year after surgery. The same pattern was seen regarding alcohol consumption.

CONCLUSION

This feasibility study demonstrated that global health, mental health and emotional well-being improved significantly during the study period, in patients with NSCLC participating in rehabilitation. There was a reduction in distress and anxiety, smoking and alcohol habits from baseline to six months, followed by an increase one year after surgery, which underlines the need of optimizing maintenance from rehabilitation.

Acknowledgements

The study is supported by grants from The Center for Integrated Rehabilitation of Cancer patients (CIRE), a center established and supported by The Danish Cancer Society and The Novo Nordisk Foundation and the study is supported by the Copenhagen University Hospital, CopenRehab University of Copenhagen, and is secured by funding from The Municipality of Copenhagen.

