



# **Background:**

Coronary patients in Phase 2b and 3 may have a positive effect from comprehensive rehabilitation, where the importance of healthy lifestyle-choices is conveyed. Physical activity and a healthy diet are two important components that typically are emphasized during such programs. Several private rehabilitation centers offer comprehensive cardiac rehabilitation. We want to look into whether a four-week comprehensive in-house rehabilitation program can affect the exercise rate one year after discharge and whether there may be a correlation between exercise frequency and dietary habits.

## **Method:**

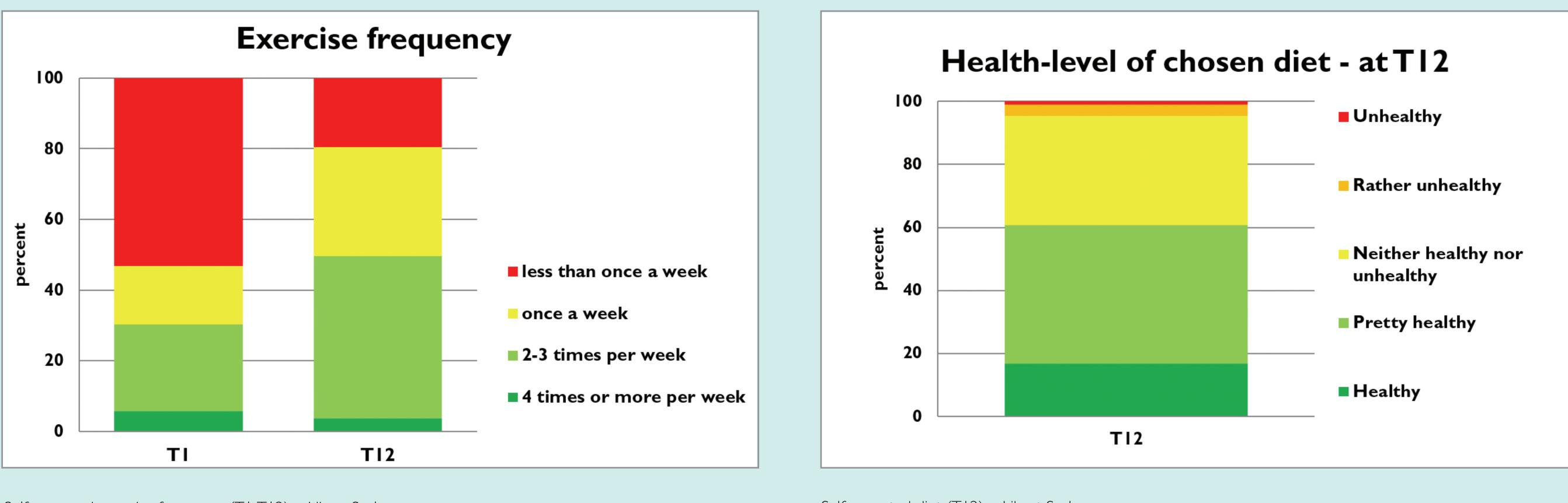
Participants: Patients with severe coronary disease in Phase 2b and 3 (from the age of 18 years). Mean age 63.3 years (SD: 10.0), 46 percent women. N = 97

Program: Four-week in-house rehabilitation program with interdisciplinary intervention;

### On average:

Individual physiotherapy x10 Group activities / conversation groups x35 Education in health, physical activity and diet x7

Outcomes/instruments: Questionnaires on arrival (TI) and follow-up 12 months after discharge (T12):



Self-reported exercise frequency (TI,TI2) – Likert Scale How often have you normally in the last months exercised enough to be short of breath or sweaty? I. Less than once a week

2. Once a week

- 3. 2-3 times per week
- 4. 4 times or more per week



# Has coronary patients changed their health-habits a year after an in-house cardiac rehabilitation program?

# A quality management report

Authors: Madsen, AC and Orpana, A Skogli Helse- og Rehabiliteringssenter AS, Lillehammer, Norway

Self-reported diet (TI2) – Likert Scale

What kind of diet do you have?

I. Unhealthy – Among others, no fruit and vegetables, lots of fat dairy and meat products

2. Pretty unhealthy - Including little fruit and vegetables, lots of fat dairy and meat products 3. Neither healthy nor unhealthy - Including some fruits and vegetables, some fat dairy and meat products 4. Fairly healthy - Varied and among others, fruits and vegetables several times a day, little fat dairy and meat products

5. Healthy - Varied and among others, fruits and vegetables for each meal, minimum of fat dairy and meat products



## **Results/findings:**

Change of median - (Wilcoxon Signed Rank Test) TI-TI2: It is a significant (p < 0.05) change of median values from arrival to one year after return. 46.7 percent have increased their weekly exercise frequency.

Correlation - (Pearson Bivariate Correlation) It is a significant (p < 0.05) positive correlation of small correlation size (0.23) - between the rate of weekly exercise and the health-level of the diet, one year after returning home (TI2).

# **Conclusion and implication:**

Coronary patients who have participated in a fourweek in-house comprehensive cardiac rehabilitation program seem to have a higher rate of weekly exercise frequency one year after discharge. There may be a positive correlation between the rate of weekly exercise-frequency and the health-level of chosen diet one year after returning home, indicating a direct correlation between level of physical activity and dietary habits - The more physically active, the healthier lifestyle one year after discharge. Information, insight and understanding may help promote independent and conscious choices for personal health. We as health-professionals should therefore consider also focusing on communicating the importance of a healthy diet for this patient group.

Research on the influences from rehabilitationprograms on lifestyle-choices after discharge is required.