

KU LEUVEN

Feasibility of a comprehensive supervised exercise program (CSEP) during and after treatment of head and neck cancer: a mixed-methods study

INTRODUCTION

Head and neck cancer (HNC)

- 6th most common cancer worldwide
- Often diagnosed in locally advanced stage
- Requires intensive treatment:
 - (Chemo)radiotherapy ((C)RT)
 - Radical surgery and adjuvant (C)RT
- High risk of malnutrition and sarcopenia \rightarrow Limits recovery and exercise tolerance
- Severe side effects
 - Dry mouth
 - Swallowing issues
 - Speech issues
 - Fatigue
 - Shoulder pain
 - Low self-esteem



Protocol EffEx-HN Trial publication (2023)

Feasibility paper publication 2025)



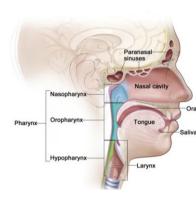
in Kaat Van Aperen Maat.vanaperen@kuleuven.be

Exercise in HNC

1. Promising but not yet optimized for HNC

Unique barriers:

- Kale and the second sec
- Malnutrition, sarcopenia
- ▲ Specific side effects



2. The Effect of Exercise in HNC (EffEx-HN Trial)

Comprehensive Supervised Exercise Program (CSEP)

 \rightarrow Improvement of quality of life?

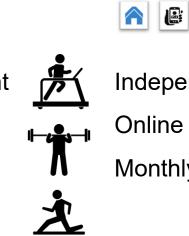
12-week intensive phase

Starts with cancer treatment

1-hour sessions 3x/week

Supervised

Individualized



Independent at home Online access to exercise videos Monthly teleconsultation

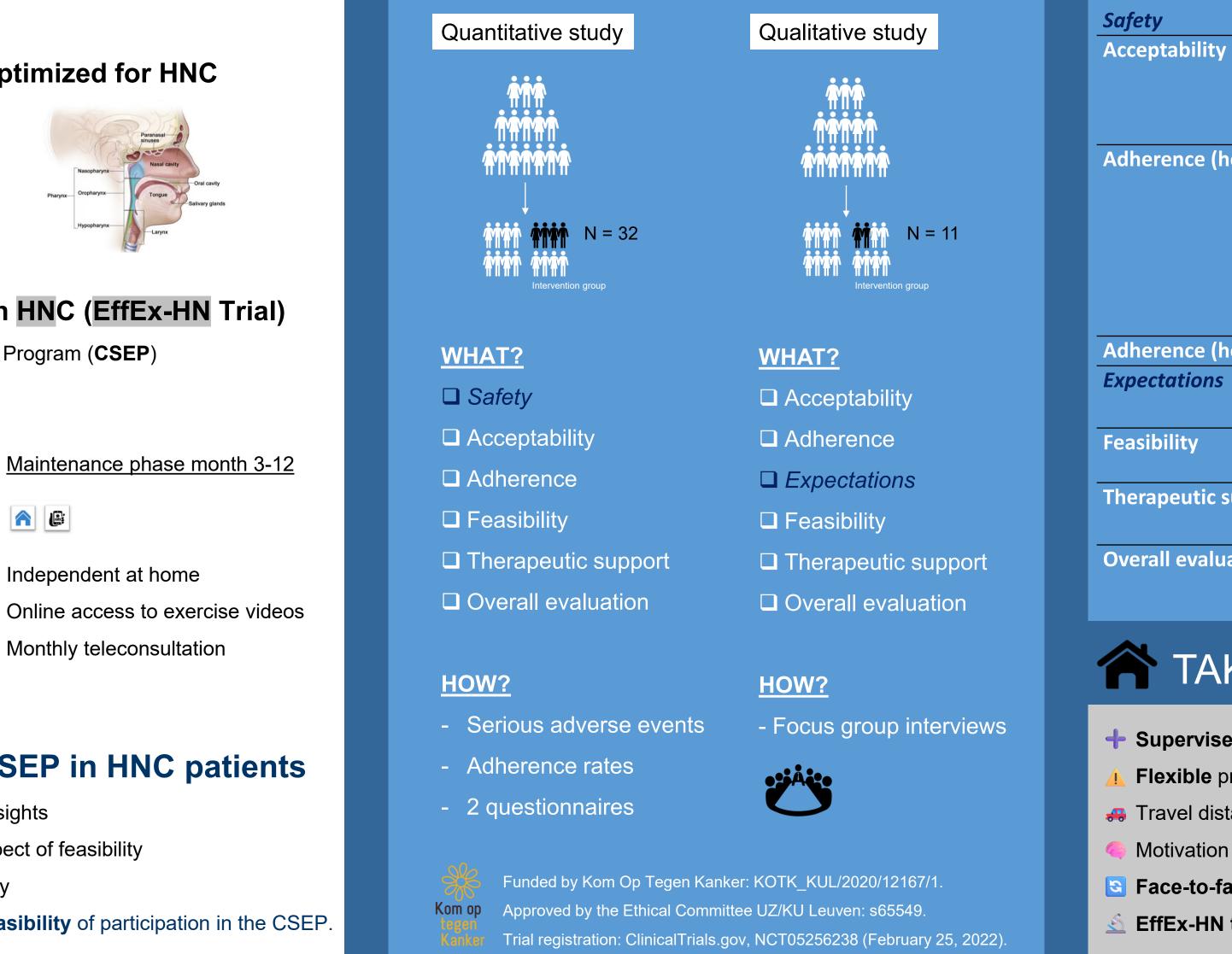
W Feasibility of the CSEP in HNC patients

Few previous studies:

Limited insights Single aspect of feasibility Low quality

→ To explore various aspects of feasibility of participation in the CSEP.

METHODS



Kaat Van Aperen, Prof. An De Groef, Prof. Thierry Troosters, Pascalle Elshout, Prof. Dr. Sandra Nuyts University of Leuven, University Hospitals Leuven, Belgium

RESULTS

	\checkmark	No serious adverse events
y	\checkmark	Adapted to individual abilities
		Mental health
		Individual vs group = personal
		One-on-one initial weeks RT
hospital)	\checkmark	W1-6: 74%
		W7-12: 70%
		Better motivation, supervision
		Side effects treatment
		Limited flexibility for symptom fluctuation
		Travel burden
		Fixed scheduling reduced autonomy
home)		Lack of motivation, time
s	\checkmark	Mental/physical health benefits
		Intensity well-adapted
	\checkmark	Feasible
		Digital tools not used often
support	\checkmark	Highly appreciated
		Face-to-face > teleconsultations
uation	\checkmark	Positive experience
		Recommend to others

TAKE-HOME MESSAGES

+ **Supervised**, **individualized** approach = key to success

Flexible programs needed to accommodate treatment side effects ♣ Travel distance limits access → **community-based** options needed Motivation needs **long-term support** \rightarrow beyond awareness alone **Face-to-face** > digital formats

EffEx-HN trial ongoing to evaluate effectiveness on quality of life