

# STATISTICAL ANALYSIS PLAN

# A randomised controlled trial assessing the impact of pulmonary rehabilitation on maximal exercise capacity for adults living with post-tuberculosis lung disease in Uganda

(RECHARGE Uganda)



SAP Version: V1.0

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### Based on protocol:

Study protocol for a randomised controlled trial assessing the impact of pulmonary rehabilitation on maximal exercise capacity for adults living with post-TB lung disease: Global RECHARGE Uganda (Katagira W, et al. BMJ Open 2021;11:e047641. doi:10.1136/bmjopen-2020-047641)

Trial registration: International Standard Randomised Controlled Trial Number: ISRCTN18256843.



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# SAP approval for finalised version

Trial Statistician	Dr Matthew Richardson	
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# List of abbreviations

	CVICTIONS
AE	Adverse Event
ANCOVA	Analysis of Covariance
CAT	COPD Assessment Test
CCQ	Clinical COPD Questionnaire
CI	Confidence Interval
CONSORT	Consolidated Standards of Reporting Trials
COPD	Chronic Obstructive Pulmonary Disease
CRF	Case Report Form
CSR	Clinical Study Report
ESWT	Endurance Shuttle Walk Test
FEV1	Forced Expiratory Volume in 1 second
FVC	Forced Vital Capacity
GLMM	Generalized Linear Mixed Model
HADS	Hospital Anxiety and Depression Scale
ISWT	Incremental Shuttle Walking Test
ITT	Intention To Treat
MCID	Minimum Clinically Important Difference
MRC	Medical Research Council
PTLD	Post-Tuberculosis Lung Disease
SAE	Serious Adverse Event
SAP	Statistical Analysis Plan
ТВ	Tuberculosis
VAS	Visual Analogue Scale
WPAI	Work Productivity and Activity Impairment



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# Introduction

This Statistical Analysis Plan (SAP) describes the planned analyses and reporting for a randomised controlled trial assessing the impact of pulmonary rehabilitation on maximal exercise capacity for adults living with post-tuberculosis lung disease in Uganda (RECHARGE Uganda). This SAP should be read in conjunction with the most recent version of the clinical trial protocol.

The purpose of this SAP is to outline the planned analyses that are to be performed on the data to support the completion of the Clinical Study Report (CSR). The SAP will be amended if there are substantial changes to the planned analyses, and in any case will be finalised before the database lock for this study. Exploratory post-hoc or unplanned analyses not necessarily identified in this SAP may be performed on these data as required. These analyses will be clearly identified in the CSR.

# Study objectives

## **Primary objective**

The primary objective of the trial is to evaluate the effectiveness of a 6-week pulmonary rehabilitation program on maximal exercise capacity (assessed by the incremental shuttle walking test (ISWT)) as an add-on to usual care.

### Secondary objectives

The secondary objectives are to assess the impact of PR on:

- 1. Safety
- 2. Health related quality of life and respiratory symptoms
- 3. Physical function
- 4. Economic impact/cost-effectiveness
  - a. EQ-5D-5L
  - b. Work productivity and activity impairment

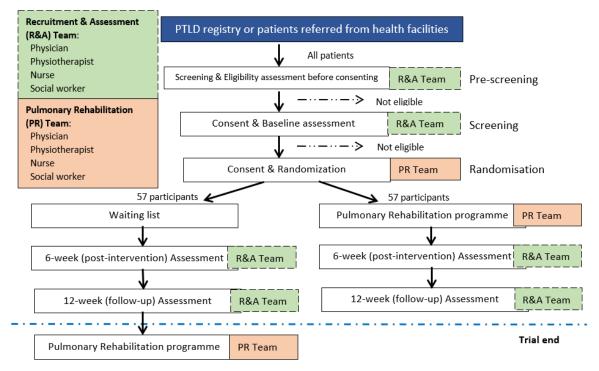
# Trial design

### Overview

This is a single-centre, single-blinded, randomised controlled trial to assess the clinical and costeffectiveness of pulmonary rehabilitation compared to usual care, in adults living with PTLD in Uganda. A 6-week programme of hospital-based pulmonary rehabilitation, comprising twice-weekly 2-hour sessions of exercise and education in accordance with international guidelines (American Thoracic Society/European Respiratory Society) will be delivered. Changes in outcome will be assessed immediately post intervention (within 1 week of completing the intervention). An overview of the trial design is provided.



# Figure 1: Schematic of trial design for RECHARGE Uganda



### **Participants**

Participants will be aged  $\geq$ 18 years with a confirmed diagnosis of PTLD and be confirmed as TBnegative using the GeneXpert MTB/RIF assay; having completed TB treatment at least 6 months prior to study enrolment, and with a Medical Research Council (MRC) dyspnoea score of 2 or higher.

Reasons for ineligibility will be the presence of comorbidities such as severe or unstable cardiovascular, and locomotor difficulties that preclude exercise; malignant disease such as lung cancer; evidence of active TB on chest X-ray or sputum tests within 1 month of assessment; or unable or unwilling to provide informed consent for any reason.

### Usual care

Usual care will comprise their usual prescription medications, smoking cessation and avoiding biomass smoke. An educational session regarding PTLD self-management, including the importance of exercise, healthy diet, smoking cessation and avoiding biomass smoke will also be included in usual care.

### Sample size

Recruitment of 114 participants with a drop-out rate of 30% will be sufficient to give 80% power at the 5% significance level assuming 35m difference in the ISWT measured at baseline and after completion of the intervention.

### Randomisation and blinding

The University of Leicester, UK will supply a web-based randomisation system from a third party (Sealed Envelope Ltd). Participants will be randomised 1:1 to pulmonary rehabilitation or usual care. This will be set up as a blinded randomisation process, whereby a blinded randomisation code is



allocated to a participant which corresponds to either pulmonary rehabilitation or usual care. Decoding lists are held by unblinded personnel and available via Sealed Envelope.

It will not be possible to blind participants and staff delivering the intervention to group allocation due to the nature of the intervention. The outcome assessors and statistician will be blinded to the treatment groups. There are no incidences where emergency unbinding will be required.

### Visit schedule

#### Table 1: Schedule of procedures

Assessment	Randomised t	Randomised treatment (visit window ±7 days)			
	V0	V1: Baseline	V2: 6 weeks (effectiveness		s (6-week post- ip)
	In-person	In-person	end-point) In-person	In-person	Telephone
Consent	X				
Eligibility review	х				
Randomisation		х			
Socio-demographics		х			
Lung health		х			
Medical history	х				
Medications/treatments		х			
Chest x-ray	х				
TB status	х				
Safety AE/SAE		х	х	х	х
Anthropometrics		х	х		
ISWT		х	х		
ESWT		х	х		
Sit-to-stand		х	х		
MRC scale		х	х	х	х
CCQ		х	х	х	х
CAT		х	х	х	х
HADS		х	х	x	х
WPAI		х	x	х	х
EQ-5D-5L		х	x	х	х
TB symptoms		х	x	х	х
Physical activity		х	x		

CAT, COPD Assessment Test; CCQ, Clinical COPD Questionnaire score; ESWT, Endurance Shuttle Walk Test; HADS, Hospital Anxiety and Depression Scale; ISWT, Incremental Shuttle Walk Test; MRC, Medical Research Council; TB, tuberculosis; WPAI, Work Productivity and Activity Impairment Questionnaire.

# Outcomes and other variables

### Primary outcome

#### Definition and derivation of primary outcome

The primary outcome is change in the incremental shuttle walking test (ISWT) distance. The minimal clinically important difference (MCID) will be 35m (1). The outcome will have a minimum score of 0m and a maximum score of 1020m in 10m increments.



### Hypothesis to be tested

 $H_0$ : The difference in walking distance based on the ISWT is less than or equal to 0.

### Secondary outcomes

Definition and derivation of secondary outcomes

The secondary outcomes are:

- 1. Safety
  - a. AE event rate in the 12 weeks of the trial from V1
  - b. SAE event rate in the 12 weeks of the trial from V1
- 2. Patient reported outcomes (V1, V2, V3)
  - a. MRC dyspnoea score
  - b. Clinical COPD Questionnaire (CCQ)
    - i. Total score
    - ii. Domains
      - 1. Symptoms
      - 2. Mental
      - 3. functional
  - c. COPD Assessment Test (CAT)
  - d. Hospital Anxiety and Depression Scale (HADS)
    - i. Anxiety score
    - ii. Anxiety classification (normal, mild, moderate, severe)
    - iii. Depression score
    - iv. Depression classification (normal, mild, moderate, severe)
  - e. Euroqol EQ-5D-5L
    - i. Domains
      - 1. Mobility
      - 2. Self-care
      - 3. Usual activities
      - 4. Pain/discomfort
      - 5. Anxiety/depression
    - ii. Visual analogue scale (VAS)
  - f. Modified work productivity and activity impairment
    - i. Percent work time missed health
    - ii. Percent impairment while working health
    - iii. Percent overall work impairment health
    - iv. Percent activity impairment health
- 3. Physical measures
  - a. Incremental shuttle walking test
    - i. Distance (m)
  - b. Endurance shuttle walk test
    - i. Time (sec)
  - c. 5-times sit-to-stand test
    - i. Time (sec)



### *Hypotheses to be investigated*

H0: The treatment group (pulmonary rehabilitation) will have outcomes that are worse than or equal to those of the control group (usual care).

### Intervention adherence

Attendance to pulmonary rehabilitation classes (12 classes scheduled; twice weekly for 6 weeks) will be monitored. The number of additional scheduled classes will be reported with any changes recorded in the CRF. A summary will be provided for the intervention group. Deviations from protocol including loss to follow-up, withdrawal by study team and withdrawal of consent will be included.

# Analysis sets/populations

### **Protocol deviations**

#### Major deviations

Protocol deviations that will affect inclusion in trial populations are:

- Participants found to be ineligible after randomisation
- Participants who receive the wrong study treatment

#### Minor deviations

All other (non-major) protocol deviations will be reported but will not affect analysis populations e.g., visit assessments delays less than 2 weeks, visit assessments earlier than scheduled.

### Intention-to-treat population

The intention-to-treat population will be comprised all the participants randomised in to the trial (regardless of whether they received the pulmonary rehabilitation intervention) analysed in their allocated group, outcome data obtained from all participants will be included in the data analysis (i.e regardless of study completion or data completeness). All data up to the time of study discontinuation will be included for participants who withdrew prematurely.

### Modified intention-to-treat population

The modified intention-to-treat will be comprised all the participants randomised to the trial (regardless of whether they received the pulmonary rehabilitation intervention), analysed in their allocated group, where data is available. Therefore, participants with missing outcome data will be excluded from the analysis (i.e complete case analysis). No imputation will be carried out for the missing data.

### Per-protocol population

The per-protocol population will comprise all participants recruited in to the trial who had their intervention administered and who do not have major protocol deviations.

# Other analysis populations

None.

# General issues for statistical analysis

### Derived/computed variables

Body mass index (BMI): This will be derived as per WHO Guidelines, BMI measures as Kg/m<sup>2</sup>.



**Age:** Age will be measured in years and will be derived from the date of birth at the randomisation date.

**Clinical COPD Questionnaire (CCQ):** The CCQ is a 10-item health-related quality of life questionnaire that is divided into three domains: symptoms, functional and mental.

**COPD Assessment Tool (CAT) score:** The CAT consists of 8 items with scores ranging from 0 to 5 (0= no impairment). An overall score will be calculated by adding the score from each item with total scores ranging from 0 to 40, higher scores indicating a more severe health status impairment or a poorer control of COPD.

**Hospital Anxiety and Depression Scale (HADS):** The HADS is used to determine levels of anxiety and depression. The questionnaire consists of 14 questions with a 4-point Likert scale, and two 7-item subscales (scored 0-21) for anxiety and depression. Subscales are categorised as Normal (score 0-7), Mild (score 8-10), Moderate (score 11-15) or Severe (score 16-21).

**Euroqol EQ-5D-5L:** The EQ-5D-5L comprises five domains: Mobility, Self-care, Usual activities, Pain/discomfort, Anxiety/depression, each with five possible responses ranging in severity. The questionnaire also comprises a visual analogue scale (VAS) (scored 0-100), where the participant identifies their health from 'the best you can imagine' (score of 100) and the 'worst you can imagine' (score of 0).

**Modified work productivity and activity impairment:** The modified WPAI questionnaire is composed of the following eight questions reflecting the following: Currently employment status; hours of lost work due to illness (past seven days); hours of lost work due to other reasons (past seven days); hours worked for pay (past seven days); how much did illness affect productivity while you were working for pay (past seven days, 0-10 scale); ; how much did illness affect ability to do regular daily activities (past seven days, 0-10 scale); hours unable to perform regular household duties (past seven days); how much relied on other household members to do your regular household duties due to illness (past seven days, 0-10 scale).

### **Multiple testing**

Adjustments for multiple comparisons will be performed using the mhtexp method (2) with 95% Cis and p-values provided.

#### Interim analysis

There is no interim analysis planned. Recruitment and disposition will also be presented in a Consolidated Standards of Reporting Trials (CONSORT) diagram.

### Analysis software

It is anticipated that the analysis will be done in STATA, R 4.3.1 or SPSS 28 statistical software. The University of Leicester holds the relevant software licences.

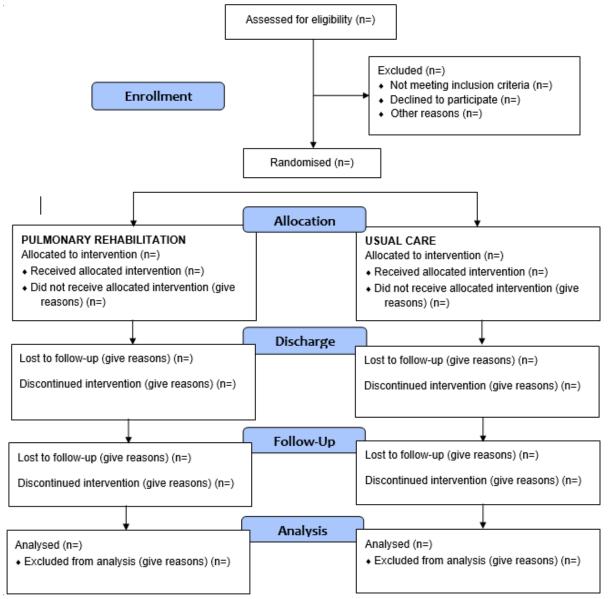
# Statistical methodology

### **Disposition of patients**

Patient disposition will be presented with respect to trial completion status, reason for noncompletion, protocol deviations, primary outcome data completeness and length of stay in the trial. Results will be tabulated and summarised over time by intervention arm. A CONSORT diagram will display the flow of patients through the trial (Figure 2).



### Figure 2: CONSORT diagram



### Demographic and baseline characteristics

Numbers (with percentages) for binary and categorical variables and means (and standard deviations), and medians (with lower and upper quartiles) for continuous variables will be presented. The stratification variable will be summarised by treatment arm in order to check the balance of the baseline characteristics and outcome measures prior to the study between the two randomised arms. Tests for differences between groups at baseline will be conducted using independent t-test, Wilcoxon test (Mann-Whitney), Kruskal-Wallis, and Chi-Squared depending on the type of data and distribution.

# Comparison of losses to follow-up

The numbers (with percentages) of losses to follow-up, withdrawals and discontinuation of study treatment will be reported descriptively between the intervention and control arms. Any deaths (and their causes) will be reported separately.



## Primary outcome analysis

### Primary analysis of primary outcome

The primary statistical analyses will be an intention to treat (ITT) where the population consists of all randomised participants into the trial regardless of whether they received the intervention. The primary outcome is the change in ISWT from baseline following the 6-week pulmonary rehabilitation intervention compared to changes for the same time period of usual care.

A Generalized Linear Mixed Model (GLMM) will be used to model the repeated measures for ISWT distance over the intervention period. Independent variables in the model will be time point and group (pulmonary rehabilitation vs usual care).

For the primary outcome analysis (change in ISWT), a difference-in-difference analysis will be performed for repeat measures using multiple hypothesis with the mhtexp command in STATA 17. Both adjusted and unadjusted p-values will be reported.

Analyses will be controlled for pre-existing characteristics (e.g., sex) which potentially differ between treatment and control group (statistically or in magnitude).

The primary analysis will report the changes in meters per group and the differences between the intervention (face to face or digital) compared to usual care. Statistical significance will be set at p<0.05 with 95% CI presented.

#### Secondary analysis of primary outcome

A per protocol analysis will be performed on all individuals that have complete data on the primary outcome (attend a baseline and discharge assessment) and that adhere to the intervention defined if they attended 75% of face-to-face sessions and attends the follow up appointment. A GLMM as previously described will be performed on this cohort. The n (%) achieving the MCID of 35m fpr the ISWT will be presented for each group (Table 2).

### Secondary outcome analyses

### Primary analysis of secondary outcomes

All secondary end-points (see earlier section) will be analysed using the modified intention-to-treat population, whereby participants are analysed in their allocated group regardless of whether they received the intervention, where data is available, and excluding those without primary outcome data.

Descriptive statistics of all the secondary outcomes will be presented by treatment arms and overall by assessment time points (i.e., by visit). Numbers (with percentages) for binary and categorical variables and means (and standard deviations), and medians (with lower and upper quartiles) for continuous variables will be presented. A GLMM as previously described will be performed on this cohort.

#### Secondary analysis of secondary outcomes

A per protocol analysis will be performed on all individuals that have complete data on the primary outcome (attend a baseline and discharge assessment) and that adhere to the intervention defined if they attended 75% of face-to-face sessions and attends the follow up appointment. A GLMM as previously described will be performed on this cohort. The n (%) achieving the available MIDs for secondary outcomes will be presented for each group (Table 2).

#### Table 2: Minimum (clinically) important differences for primary and secondary outcomes

Primary outcome	MCID
ISWT (m)	35 <sup>(1)</sup>
Secondary outcomes	MID/MCID
ESWT (sec)	147-279 <sup>(3)</sup>
Sit-to-stand (sec)	1.7 (4)
MRC scale	1 <sup>(5,6)</sup>
CCQ	0.4 (7)
САТ	2 <sup>(8)</sup>
HADS-Anxiety	2 <sup>(9,10)</sup>
HADS-Depression	2 <sup>(9,10)</sup>
EQ-5D-5L utility index	0.05 (11)
EQ-5D-5L visual analogue scale	7 (11)

#### Sensitivity analyses

There will be no sensitivity analyses carried out for any secondary outcome measures.

### Changes to the planned analysis

All changes to the original planned analysis will be noted in the statistical report alongside the reasons and justifications.

### Adverse event reporting

Any and all untoward events arising from the intervention that require further medical attention and/or hospitalisation will be recorded on an adverse events or serious adverse events log in the investigator site file and reported to the Sponsor. Adverse events will be explored and categorised as related or unrelated to the trial intervention. All adverse events will be listed including, seriousness, duration, relatedness, severity, action taken, outcome, and treatment arm and overall. Due to the nature of the trial, there are no formal stopping rules as problems that are detrimental to the participant are not anticipated.



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- (8) Kon SSC, Canavan JL, Jones SE. Minimum clinically important difference for the COPD assessment test: a prospective analysis. Lancet Respir Med 2014; 2:195–203.
- (9) Smid DE, Franssen FME, Houben-Wilke S, et al. Responsiveness and MCID estimates for CAT, CCQ, and HADS in patients with COPD undergoing pulmonary rehabilitation: a prospective analysis. J Am Med Dir Assoc 2017; 18:53–8.
- (10)Wynne Set al. The hospital anxiety and depression scale (HADS) in bronchiectasis: response to pulmonary rehabilitation (PR) and minimum clinically important difference (MCID). Chron Respir Dis. 2020; 17:1479973120933292.
- (11)Nolan CM, Longworth L, Lord J, et al. The EQ-5D-5L health status questionnaire in COPD: validity, responsiveness and minimum important difference. Thorax 2016; 71:493–500.



# Appendices

Appendix 1: Scheduled and attended pulmonary rehabilitation classes

Number of classes	Total scheduled	Total attended
Median [IQR]		
Frequency, n (%)		
0		
1		
2		
3		
4		
5		
6		
7		
8		
$9^{\alpha}$		
10		
11		
12 <sup>6</sup>		
13		
14		
15		

 $\alpha$ minimum attendance for completion; <sup>6</sup>maximum number of attended classes

## Appendix 2: Demographic and baseline characteristics

Baseline characteristics	Intervention	Control	Total
Demographics			
Age (years)			
Sex, n (%):			
Male			
Female			
Lung health			
FEV <sub>1</sub> (L)			
FVC (L)			
FEV <sub>1</sub> /FVC			
Smoking status, n (%):			
Never smoked			
Current smoker			
Former smoker			
Pack-years			
Biomass daily exposure, n (%)			
Yes			
No			
Biomass years exposed			
Times treated for TB			
Times treated for TB, n (%)			
0			
1			



2			
3			
4			
5			
Respiratory-related treatments, n (%)			
ICS			
LABA			
LAMA			
ICS/LABA			
SABA			
SAMA			
Anti-histamines			
Cough syrup			
Mucolytics			
Antibiotics			
Known HIV status, n (%)			
Yes – Positive			
Yes – Negative			
No			
Comorbidities			
Comorbidities, n (%):			
Cardiac disease			
Peripheral vascular disease			
Hypertension			
Diabetes			
Kidney disease			
Arthritis			
Mental health disorder			
Malignancy			
Health status			
Height (m)			
Weight (kg)			
BMI (kg/m <sup>2</sup> )			
Hospitalisations in last 12 months			
Hospitalisations in last 12 months, n (%)			
0			
1			
2			
MRC score			
MRC score, n (%)			
2			
3			
4			
5			
CCQ score (symptoms)			
CCQ score (mental)			
CCQ score (functional)			
CCQ score (total)			
CAT score			
L	<b>I</b>	i	i



HADS Depression score			
Normal (0-7)         Mid (8-10)           Mid (8-10)         Mid (8-10)           Moderate (11-15)         Severe (16-21)           HADS Anxiety score         HADS Anxiety score           HADS Anxiety score         HADS Anxiety score           HADS Anxiety n (%)         Image: Composition of the score of	HADS Depression score		
Mild (8-10) Moderate (11-15) Severe (16-21)	HADS Depression, n (%)		
Moderate (11-15)         severe (16-21)	Normal (0-7)		
Severe (16-21)         HADS Anxiety score           HADS Anxiety score         HADS Anxiety score           HADS Anxiety n (%)         Normal (0-7)           Nid (8-10)         Moderate (11-15)           Severe (16-21)         Severe (16-21)           Socieconomic status and health economics         Imployment status, n (%):           In paid work (employed)         In paid work (self-employed)           In unpaid work         In and work (self-employed)           Not in work         Imployment status, n (%):           Bound 1 (-5,700)         Bound 1 (-5,700)           Bound 3 (12,501-12,500)         Bound 3 (12,501-13,500)           Bound 3 (12,501-13,500)         Bound 4 (19,501-26,000)           Bound 3 (12,501-13,500)         Bound 5 (3,001-40,000)           Bound 4 (19,501-26,000)         Bound 5 (3,001-40,000)           Bound 5 (3,001-40,000)         Bound 9 (53,501-60,500)           Bound 9 (53,501-60,500)         Bound 9 (53,501-60,500)           Bound 9 (53,501-60,500)         Bound 9 (53,501-60,500)           Bound 9 (19,ears)         School (19 years)           School (19 years)         School (19 years)           College         University/Academy           University/Academy         EQSDSL Mobility, n (%)           No problems         Silght pro	Mild (8-10)		
HADS Anxiety score       Image: Constraint of the system of	Moderate (11-15)		
HADS Anxiety, n (%) Normal (0-7) Mild (8-10) Moderate (11-15) Severe (16-21) Socioeconomic status and health economics Employment status, n (%): In paid work (employed) In naid work (self-employed) In unpaid work Not in work Household income (soms/month), n (%): Bound 1 (<5,700) Bound 3 (12,501-12,500) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 4 (19,501-26,000) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 4 (19,501-26,000) Bound 7 (40,001-47,000) Bound 5 (33,001-40,000) Bound 7 (40,001-47,000) Bound 9 (33,501-60,500) Bound 9 (33,501-60,500) Bound 10 (≥60,501) Education level, n (%): Under 9 years School (11 years) College University/Academy EQSDSL Mobility, n (%) No problems Moderate problems Severe problems Severe problems Sight problems Sight problems Sight problems Sight problems Severe	Severe (16-21)		
HADS Anxiety, n (%) Normal (0-7) Mild (8-10) Moderate (11-15) Severe (16-21) Socioeconomic status and health economics Employment status, n (%): In paid work (employed) In naid work (self-employed) In unpaid work Not in work Household income (soms/month), n (%): Bound 1 (<5,700) Bound 3 (12,501-12,500) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 4 (19,501-26,000) Bound 3 (12,501-19,500) Bound 3 (12,501-19,500) Bound 4 (19,501-26,000) Bound 7 (40,001-47,000) Bound 5 (33,001-40,000) Bound 7 (40,001-47,000) Bound 9 (33,501-60,500) Bound 9 (33,501-60,500) Bound 10 (≥60,501) Education level, n (%): Under 9 years School (11 years) College University/Academy EQSDSL Mobility, n (%) No problems Moderate problems Severe problems Severe problems Sight problems Sight problems Sight problems Sight problems Severe	HADS Anxiety score		
Normal (0-7)         Mid (8-10)           Moderate (11-15)         Severe (16-21)           Socioeconomic status and health economics         Imployment status, n (%):           In paid work (employed)         In paid work (self-employed)           In paid work (self-employed)         In paid work           Household income (soms/month), n (%):         Bound 1 (<5,700)			
Mild (8-10)       Moderate (11-15)         Severe (16-21)       Socioeconomic status and health economics         Employment status, n (%):       In paid work (self-employed)         In paid work (self-employed)       In unpaid work         Not in work       In unpaid work         Household income (soms/month), n (%):       Bound 1 (         Bound 1 (       5,700)         Bound 3 (12,501-12,500)       Bound 3 (12,501-12,500)         Bound 3 (12,501-12,500)       Bound 3 (12,501-12,500)         Bound 4 (5,700)       Bound 4 (3,001-40,000)         Bound 5 (26,001-33,000)       Bound 5 (26,001-33,000)         Bound 4 (13,001-40,000)       Bound 9 (53,501-60,500)         Bound 9 (53,501-60,500)       Bound 9 (53,501-60,500)         Bound 9 (53,501-60,500)       Bound 10 (260,501)         Education level, n (%):       Undre 9 years         School (19 years)       School (19 years)         School (19 years)       School (19 year			
Moderate (11-15) Severe (16-21)			
Severe (16-21)         Image: Construct status and health economics           Socioeconomic status and health economics         Employment status, n (%):         Image: Construct status and health economics           Employment status, n (%):         In paid work (employed)         Image: Construct status and health economics         Image: Construct status and health economics           In paid work (self-employed)         Image: Construct status and health economics         Image: Construct status and health economics           Not in work         Image: Construct status and health economics         Image: Construct status and health economics           Not in work         Image: Construct status and health economics         Image: Construct status and health economics           Not in work         Image: Construct status and health economics         Image: Construct status and health economics           Not in work         Image: Construct status and health economics         Image: Construct status and health economics           Bound 2 (5,701-12,500)         Bound 3 (12,501-19,500)         Image: Construct status and health economics           Bound 3 (12,501-19,500)         Bound 3 (12,501-10,000)         Image: Construct status and health economics           Bound 3 (14,000-147,000)         Bound 3 (14,000-147,000)         Image: Construct status and health economics           Bound 1 (140,001-47,000)         Bound 10 (26,501)         Image: Construct status at the economics <t< td=""><td></td><td></td><td></td></t<>			
Socioeconomic status and health economics         Employment status, n (%):         In paid work (employed)         In paid work (self-employed)         In unpaid work         Household income (soms/month), n (%):         Bound 1 (<5,700)			
Employment status, n (%):       In paid work (employed)         In paid work (self-employed)       In napid work         Nat in work       Nat in work         Household income (soms/month), n (%):       Bound 1 (<5,700)		CS	1
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In paid work (self-employed)       In unpaid work         Not in work       In unpaid work         Not in work       In unpaid work         Household income (soms/month), n (%):       Bound 1 (<5,700)			
In unpaid work       Not in work         Not in work			
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Bound 3 (12,501-19,500)       Bound 4 (19,501-26,000)         Bound 5 (26,001-33,000)       Bound 6 (33,001-40,000)         Bound 6 (33,001-40,000)       Bound 7 (40,001-47,000)         Bound 7 (40,001-47,000)       Bound 9 (53,501-60,500)         Bound 9 (53,501-60,500)       Bound 10 (≥60,501)         Education level, n (%):       Under 9 years         School (9 years)       School (9 years)         School (11 years)       College         University/Academy       University/Academy         EQSDSL Mobility, n (%)       Severe problems         Moderate problems       Severe problems         Slight problems       Slight problems         Sovere problems       Slight problems         Sovere problems       Slight problems <td></td> <td></td> <td></td>			
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Bound 6 (33,001-40,000)       Image: Solution of the second			
Bound 7 (40,001-47,000)         Bound 8 (47,001-53,500)         Bound 9 (53,501-60,500)         Bound 10 (≥60,501)         Education level, n (%):         Under 9 years         School (9 years)         School (11 years)         College         University/Academy         EQSDSL Mobility, n (%)         No problems         Slight problems         Severe problems         Unable to         EQSDSL Self-care, n (%)         No problems         Slight problems         Moderate problems         Slight problems         Junable to         EQSDSL Self-care, n (%)         No problems         Slight problems         Moderate problems         Slight problems         Junable to         EQSDSL Self-care, n (%)         No problems         Slight problems         Junable to         EQSDSL Usual activities, n (%)         No problems			
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University/AcademyImage: Constraint of the second seco			
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EQ5D5L Self-care, n (%)No problemsSlight problemsModerate problemsSevere problemsUnable toEQ5D5L Usual activities, n (%)No problems			
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Moderate problemsSevere problemsUnable toEQ5D5L Usual activities, n (%)No problems			
Severe problems			
Unable toEQ5D5L Usual activities, n (%)No problems			
EQ5D5L Usual activities, n (%) No problems			
No problems			
Slight problems	-		
	Slight problems		



Moderate problems		
Severe problems		
Unable to		
EQ5D5L Pain/Discomfort, n (%)		
No pain or discomfort		
Slight pain or discomfort		
Moderate pain or discomfort		
Severe pain or discomfort		
Extreme pain or discomfort		
EQ5D5L Anxiety/Depression, n (%)		
Not anxious or depressed		
Slightly anxious or depressed		
Moderately anxious or depressed		
Severely anxious or depressed		
Extremely anxious or depressed		
EQ5D5L Visual Analogue Scale		
Physical measures		
Sit-to-stand (sec)		
ISWT (m)		
ESWT (sec)		

## Appendix 3: Baseline work productivity and activity impairment characteristics

Baseline characteristics	Intervention	Control	Total
WPAI			
Currently employed (working for pay), n (%)			
Yes			
Lost hours work problem			
Lost hours work other			
Hours worked 7 days			
Problem affected 7 days			
Problem affected activity 7 days			
Lost hours not work problem			
Rely other members			
Percent work time missed health			
Percent impairment while working health			
Percent overall work impairment health			
Percent activity impairment health			

### Appendix 4: Incremental shuttle walking test baseline performance indicators

Baseline characteristics	Intervention	Control	Total
ISWT conducted, n (%)			
Yes			
No <sup>α</sup>			
Best ISWT, n (%)			
First test			
Second test			
Missing			



Best ISWT		
ISWT (m)		
Start SpO2		
Start BORG breathlessness		
Start heart rate		
Start RPE		
Reason for termination, n (%)		
Shortness of breath		
Leg fatigue		
Timing		
Unable to keep up		
Other		
End SpO2		
End BORG breathlessness		
End heart rate		
End RPE		

## Appendix 5: Changes in outcome measures between 0 and 6 weeks

Outcome variables	Intervention		Intervention Control			rol
	Pre	Post	Pre	Post		
Weight (kg)						
BMI (kg/m <sup>2</sup> )						
MRC score						
MRC score, n (%)						
1						
2						
3						
4						
5						
CCQ score (symptoms)						
CCQ score (mental)						
CCQ score (functional)						
CCQ score (total)						
CAT score						
HADS score (depression)						
HADS Depression, n (%)						
Normal (0-7)						
Mild (8-10)						
Moderate (11-15)						
Severe (16-21)						
HADS score (anxiety)						
HADS Anxiety, n (%)						
Normal (0-7)						
Mild (8-10)						
Moderate (11-15)						
Severe (16-21)						
EQ5D5L Mobility, n (%)						
No problems						

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Slight problems		
Moderate problems		
Severe problems		
Unable to		
EQ5D5L Self-care, n (%)		
No problems		
Slight problems		
Moderate problems		
Severe problems		
Unable to		
EQ5D5L Usual activities, n (%)		
No problems		
Slight problems		
Moderate problems		
Severe problems		
Unable to		
EQ5D5L Pain/Discomfort, n (%)		
No pain or discomfort		
Slight pain or discomfort		
Moderate pain or discomfort		
Severe pain or discomfort		
Extreme pain or discomfort		
EQ5D5L Anxiety/Depression, n (%)		
Not anxious or depressed		
Slightly anxious or depressed		
Moderately anxious or depressed		
Severely anxious or depressed		
Extremely anxious or depressed		
EQ5D Visual Analogue Scale		
Sit-to-stand (sec)		
ISWT (m)		
ESWT (sec)		

Appendix 6: Changes in work productivity and activity impairment between 0 and 6 weeks

WPAI	Intervention		Control	
	Pre	Post	Pre	Post
Currently employed (working for pay), n (%)				
Yes				
Lost hours work problem				
Lost hours work other				
Hours worked 7 days				
Problem affected 7 days				
Problem affected activity 7 days				
Lost hours not work problem				
Rely other members				
Percent work time missed health				
Percent impairment while working health				
Percent overall work impairment health				

	Inter	vention	Cont	rol	
	Pre	Post	Pre	Post	
ISWT					
ISWT conducted, n (%)					
Yes					
Νο <sup>α</sup>					
Best ISWT, n (%)					
First test					
Second test					
Missing					
Best ISWT					
ISWT (m)					
Start SpO2					
Start BORG breathlessness, median [IQR]					
Start heart rate					
Start RPE, median [IQR]					
Reason for termination, n (%)					
Shortness of breath					
Leg fatigue					
Timing					
Unable to keep up					
Other					
End SpO2					
End BORG breathlessness, median [IQR]					
End heart rate					
End RPE, median [IQR]					

## Appendix 7: Incremental shuttle walking test performance indicators

### Appendix 8: Patient reported outcomes for weeks 0, 6 and 12

Outcome variables	Inter	Intervention		Control		
	Pre	Post	Follow-up	Pre	Post	Follow-up
MRC score						
MRC score, n (%)						
1						
2						
3						
4						
5						
CCQ score (symptoms)						
CCQ score (mental)						
CCQ score (functional)						
CCQ score (total)						
CAT score						
HADS score (depression)						
HADS Depression, n (%)						



	1	 r		1	
Normal (0-7)					
Mild (8-10)					
Moderate (11-15)					
Severe (16-21)					
HADS score (anxiety)					
HADS Anxiety, n (%)					
Normal (0-7)					
Mild (8-10)					
Moderate (11-15)					
Severe (16-21)					
EQ5D5L Mobility, n (%)					
No problems					
Slight problems					
Moderate problems					
Severe problems					
Unable to					
EQ5D5L Self-care, n (%)					
No problems					
Slight problems					
Moderate problems					
Severe problems					
Unable to					
EQ5D5L Usual activities, n (%)					
No problems					
Slight problems					
Moderate problems					
Severe problems					
Unable to					
EQ5D5L Pain/Discomfort, n (%)					
No pain or discomfort					
Slight pain or discomfort					
Moderate pain or discomfort					
Severe pain or discomfort					
Extreme pain or discomfort					
EQ5D5L Anxiety/Depression, n (%)					
Not anxious or depressed					
Slightly anxious or depressed					
Moderately anxious or depressed					
Severely anxious or depressed					
Extremely anxious or depressed					
EQ5D Visual Analogue Scale					
Currently employed (working for pay), n (%)					
Yes					
Lost hours work problem					
Lost hours work other					
Hours worked 7 days					
Problem affected 7 days					
Problem affected activity 7 days					
Lost hours not work problem					
Rely other members					



Percent work time missed health			
Percent impairment while working health			
Percent overall work impairment health			
Percent activity impairment health			

## Appendix 9: Prevalence of AEs and SAEs by relatedness and severity

Baseline characteristics	Intervention	Control	Total
Total AEs			
By severity			
Mild			
Moderate			
Severe			
Causality			
Certain			
Probable			
Possible			
Conditional			
Assessable			
Total SAEs			
Criteria			
Death			
Life threatening			
Hospitalization			
Medically significant			
Not applicable			
By severity			
Mild			
Moderate			
Severe			
Causality			
Certain			
Probable			
Possible			
Conditional			
Assessable			