Additional file 5: Statistical analysis plan (SAP) for The NUTRI-HAB trial.

of multidisciplinary nutritional rehabilitation for patients treated for head and neck cancer (the NLTRI-HAB Trial)  Principal registration details  • Clinical Trials gov Identifier: NCT03909256  • The Danish Data Protection Agency: registration number 2012-58-0018, approval number 18/14847  • The Regional Committees on Health Research Ethics for Southern Denmark: journal number 20182000-165  Principal investigator  Principal investigator  Marianne Boll Kristensen, PhD Fellow, RD,  REIIPA, The Danish Knowledge Centre for Rehabilitation and Palliative Care & Department of Nursing and Nutrition, University College Copenhagen & OPEN, Odense Patient data Explorative Network, Odense University Hospital  Data analyst  Tina Broby Mikkelsen, PhD,  REHPA, The Danish Knowledge Centre for Rehabilitation and Palliative Care  SAP developed by  Tina Broby Mikkelsen, Marianne Boll Kristensen.  SAP version approval  SAP version approval  SAP version approval  The objectives of the trial are:  • To test the effect of a multidisciplinary residential nutritional rehabilitation programme compared to standard care on the primary outcome body weight and secondary outcomes health-related quality of life, physical function and symptoms of anxiety and depression in patients curatively treated for head and neck cancer  • To test whether a potential effect of a multidisciplinary residential nutritional rehabilitation programme is associated with the participants' nutritional rehabilitation programme is associated with the participants' nutritional status, nutritional risk or presence of nutrition impact symptoms measured by measured by Nutritional Risk Screening 2002 (NRS 2002)[1], the Scored Patient-Generated Subjective Global Assessment Short Form (PG-SGA SF)[2], and the M. D. Anderson Dysphagia Inventory (MDADI)[3] at entry to the programme.  Trial design  The trial is a randomised controlled trial with recruitment through a nationwide survey. Participants will be randomised into either intervention group or a wait-list control group	ADMINISTRATIVE INFORMATION		
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		completion of the survey	

	Are self-reliant
	Are able to speak and understand Danish
	• Are willing to participate in a multidisciplinary residential nutritional rehabilitation
	programme
Sample size	The sample size calculation is based on quantitative data from a previous pilot study[4]
	and an expectation to see a difference of 1.74±2.37 in primary outcome (weight change
	in percent) between groups. 30 participants are required in each group to achieve a
	power of 80% and a significance level of 5%. Thus with an estimated withdrawal rate of
	15%, 36 participants will be included in each group.
Randomisation and	Individuals who meet the inclusion criteria will be randomised into invitation lists for
inclusion	intervention group or wait-list control group. The allocation ratio will be 1:1, and
	allocated individuals will be placed in random order on the numbered invitation list.
	Individuals will be invited for participation in the order they appear on the given
	invitation list.
	Data analyst, who is not involved in the study intervention or outcome assessment, will
	randomise participants in STATA/IC 15.1.
Blinding	Data analysis will be blinded. A trial-independent researcher codes the data set prior to
	analyses, and the code will be kept in a sealed envelope. The project group will interpret
	the blinded results before unblinding.
TIMELINE OF THE	TRIAL AND DATA ANALYSES
Trial timeline	The trial is expected to run from May 2019 to early December 2019.
	For half of the intervention group and half of the wait-list control group, baseline
	measurements will be in May 2019, and 6-month follow-up measurements will be late
	October 2019. For the other half of the participants, baseline measurements will be in
	June 2019, and 6-month follow-up measurements will be late November 2019.
Timeline for data	Data is collected at baseline, 3-month follow-up and 6-month follow up.
collection	The last physical measurements are planned to late November 2019 (27/11-2019). As an
	effort to minimise missing data, data collection will not be considered completed until
	early December 2019 (09/12-2019) allowing for eight extra work days to obtain data
	from potential no-show participants.
Timeline for data	The data set will be prepared immediately after data collection is considered completed
preparation and	and will be sent to data analyst mid December 2019 (16/12-2019).
analysis	Data analyses will be completed no later than early January 2020 (07/01-2019), where
	the blinded results will be interpreted by the project group.
GENERAL STATISTI	CAL CONSIDERATIONS
Significance level	A significance level of 5% will be applied.
Protocol violations and	Protocol deviations and exclusions from the trial (including reasons for exclusion) will
exclusions from the	be reported for each group of the trial.
trial	
	Data on primary and secondary outcomes will be analysed by both the intention-to-treat
	principle and per protocol, and results from both types of analysis will be presented in
	publications.
	In analysis by the intention to treat minerals all menticipants will be analysed in the
	In analyses by the intention-to-treat principle, all participants will be analysed in the
	trial group to which they were randomised even if they do not receive the allocated
	treatment. In the per protocol analyses, only participants who received the allocated treatment is included.
	ireaunient is included.

Missing data	All efforts will be made to minimise missing data. Participants who drop out of the trial will be encouraged to participate in follow-up measurements and to complete follow-up questionnaires.
	In the event of missing data, the percentage and patterns of missing values in outcome variables will be examined. If data are missing at random and the percentage of missing data is not substantial[5], multiple imputation techniques will be used in the intention-to-treat analyses.
Statistical software	Data will be analysed in SAS® Enterprise Guide® 7.1
DATA PREPARATIO	
Data entry	Patient reported data will primarily be collected through electronic questionnaires distributed through REDCap. In the event that participants fill out a paper-based questionnaire instead, the data will be entered in REDCap by one researcher, and the entered data will be double-checked by a second researcher.
Preparation of data set	Principal investigator will prepare the data set and remove all possible identifiers including dates and time stamps.
Coding	A trial-independent researcher will code the prepared data set and put the code in a sealed envelope.
DATA ANALYSES	
Descriptive statistics	Descriptive statistics will be used for baseline characteristics of participants in the intervention and wait-list control group. The following variables will be included in the presentation of baseline characteristics:  • Age • Gender • Cancer diagnosis (pharynx, larynx, oral cavity) • Time (months) interval since completion of radiation therapy • Civil status • Educational level • Occupational status • Rehabilitation needs measured by the REHPA scale (≥3 point, <3 point)  Numerical variables will be presented as median [range] or mean (SD) and categorical
Assessment of selection bias	variables as number of participants (%).  To assess potential selection bias, it will be tested whether the trial population differ from the remaining survey population (including non-responders) with regards to the following variable: age, gender, cancer diagnosis and time interval since completion of radiation therapy.
Analysis of primary outcome	The primary outcome is percent change in body weight from baseline to 3-month follow-up.
	Differences between group means will be tested using a two-sample two-sided t-test, and effect size will be estimated with Cohens d[6].  An estimate of the difference between groups along with a 95% CI and a two-sided p value for the null hypothesis of no difference between groups will be reported.  The mean body weight in each group at the different time points will be presented in
	publications.

	Multiple linear regression will be used to assess the influence of potential confounding
	variables (e.g. time interval from completion of treatment) on intervention effect
Analyses of secondary	Secondary outcomes include changes from baseline to 3-month follow up in the
outcome measures	following outcome measures:
	Patient reported outcome measures:
	• EQ-5D-5L[7]
	• EORTC QLQ-C30[8,9]
	• EORTC QLQ-H&N35[9,10]
	Hospital Anxiety and Depression Scale[11]
	Physical test and measurements:
	Maximal mouth opening
	Hand grip strength
	• 30-second chair stand test
	• 6-minute walk test
	All patient-reported outcome measures will be scored according to manuals.
	Differences between group means will be tested using a two-sample two-sided t-test or
	Mann-Whitney U test depending on distribution of data. Effect size will be estimated
	with Cohens d[6].
	For all analyses on secondary outcome, an estimate of the difference between groups
	along with a 95% CI and a two-sided p value for the null hypothesis of no difference
	between groups will be reported.
	For all secondary outcomes, the mean score in each group at the different time points will be presented in publications.
Analysis between	Linear regression will be used to test potential associations between developments in
intervention effect and	outcome scores from baseline to 3-month follow-up and baseline scores in NRS 2002,
nutrition	MDADI or PG-SGA SF.
screening/assessment	
scores at baseline and	Sensitivity, specificity and predictive values of different cut-offs in NRS 2002, MDADI or PG-SGA SF at baseline in relation to a clinically relevant improvement in outcome
	scores during participation in the programme will be assessed.
Planned subgroup	Subgroup analyses will be performed to investigate whether the intervention has
• •	different effects on different subgroups of participants e.g. grouped by time from
analyses	treatment completion.
	treatment completion.
Exploratory analyses	All data collected from baseline to 6-month follow-up will be used for relevant
	exploratory analyses including analyses of the long-term effect of the intervention and
	of whether the selected nutrition screening tools are labile and able to reflect changes
	over time.
INTERPRETATION (	OF RESULTS
Interpretation of	Data analyst will present the blinded results on a meeting with the rest of the project
results	group and involved clinicians. Baseline characteristics and number of participants in
	each group for the different analyses will not be displayed at the presentation, as these
	data may reveal the coding of the groups to the clinicians, who delivered the
	intervention.

	The project group initially interprets the blinded results on the assumption that one
	specific group is the intervention group, and afterwards on the assumption that the other
	group is the intervention group. The group writes down the conclusions for both
	possible scenarios.
Unblinding	When the conclusions for the two possible scenarios have been written down, the
	principal investigator will open the sealed envelope and reveal the blinding code.

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