

Official Title: Effects of an Individualized Dietary Behavioural Change (IDBC)
Programme and Exercise Training in combination or separately on managing
sarcopenic obesity in community-dwelling older adults: A Randomized Controlled
Trial

Date of document: 10th February 2023

Approved by the Human Subjects Ethics Sub-committee of
The Hong Kong Polytechnic University on 7th April 2022

Identifier: NCT05734755

INFORMATION SHEET

Effects of an Individualized Dietary Behavioural Change (IDBC) Programme and Exercise Training in combination or separately on managing sarcopenic obesity in community-dwelling older adults: A Randomized Controlled Trial

Principal Investigator: Dr. Justina Yat-Wa Liu
(School of Nursing, The Hong Kong Polytechnic University)

We would like to invite you to take part in a research project conducted by Dr. Justina Yat Wa Liu, Associate Professor from the School of Nursing, The Hong Kong Polytechnic University and her team. This project aims to evaluate the effects of an IDBC intervention and exercise training in combination and separately for older adults with sarcopenic obesity.

After participating in the research project, you will undergo a screening process conducted by researchers for eligibility checking. Your information will be collected for research purposes. Eligibility to take part in the study will be decided based on the following criteria:

Inclusion criteria

- Community-dwelling older people aged > 65 years;
- Meeting the diagnostic criteria of sarcopenic obesity according to the Asian Sarcopenia Working Group (ASWG) and the WHO definition of obesity for the Asian population respectively:
 - Early-stage sarcopenia refers to the fulfillment of one of the following criteria: low handgrip strength < 28 kg for men and < 18 kg for women, low muscle quality as reflected by low appendicular skeletal muscle mass (ASM) /height squared < 7 kg/m² for men and <5.7 kg/m² for women, or low physical performance with a Short Physical Performance Battery (SPPB) score of < 9;
 - Obesity refers to the fulfillment of one of the following criteria: Body Mass Index (BMI) ≥ 25kg/m² or waist circumference ≥ 90 cm in men and ≥ 80 cm in women, or percentage of body fat > 30%.
- Able to communicate, read, and write in Chinese without significant hearing and vision problems to ensure that our instructions are understood.

Exclusion criteria

- With any form of disease or condition that might affect food intake and digestion

(such as severe heart or lung diseases, renal diseases, diabetes, cancer, or autoimmune diseases);

- Taking medications that may influence eating behaviour, digestion, or metabolism (such as weight loss medication)
- Being addicted to alcohol, which might affect the effort to change dietary behaviour;
- Having impaired mobility, which might affect participation in exercise training, as defined by a modified Functional Ambulatory Classification score of < 7 ;
- Having renal impairment, based on the renal function blood test which will be screened by a geriatrician
- Having any medical implant device such as a pacemaker, because low-level currents will flow through the body when doing the bioelectric impedance analysis (BIA by InBody 270, Korea), which may cause the device to malfunction.

You will be randomized to the combination group, IDBC group, exercise training group or control group. The combination group and IDBC group will receive a 24-week intervention consisting of 1 hour per session for a total of 10 sessions of nutritional consultation either face-to-face or by telephone interview. Participants will attend a 1-hour nutrition consultation within 1-2 weeks of the start of the programme and another 1-hour nutrition consultation in week 3. The remaining 8 sessions of nutrition consultations will be completed during week 4-24 of the programme. Only participants in the combination group will be scheduled to receive the exercise training in 20 weeks with 1 hour per week after week 4. Participants in the exercise training group will be given the same exercise training as the combination group. Participants will also be required to do 30 minutes of exercise training at home for at least 5 days a week. Participants in the IDBC group and the control group will be arranged to receive health talks. The number and time for the sessions will be matched with exercise training. The Control Group will not receive any nutrition consultations. You may refer to the following diagrams for each study group:

about this study, please contact Dr. Justina Yat-Wa Liu at 27664097 or via justina.liu@polyu.edu.hk. If you have any complaints about the conduct of this research study, please do not hesitate to contact Miss Cherrie Mok, Secretary of the Human Subjects Ethics Sub-Committee of The Hong Kong Polytechnic University, at 27666378 or via institutional.review.board@polyu.edu.hk.

Thank you for your participation.

Dr. Justina Yat-Wa Liu

Principal Investigator

School of Nursing

The Hong Kong Polytechnic University

CONSENT TO PARTICIPATE IN RESEARCH

(Participant)

Effects of an Individualized Dietary Behavioural Change (IDBC) Programme and Exercise Training in combination or separately on managing sarcopenic obesity in community-dwelling older adults: A Randomized Controlled Trial

Principal Investigator: Dr. Justina Yat-Wa Liu
(School of Nursing, The Hong Kong Polytechnic University)

I _____ (Participant's name) hereby consent to participate in the captioned research conducted by Dr. Justina Yat-Wa Liu.

I understand that the information obtained from this research may be used in future research and published. However, my right to privacy will be retained, i.e., my personal details will not be revealed.

The procedure as set out in the attached information sheet has been fully explained to me. I understand the benefits and risks involved. My participation in the project is voluntary.

I acknowledge that I have the right to question any part of the project and/or conversation and can withdraw from the study at any time without penalty of any kind.

Signature of Participant

Signature of Researcher

Name of Participant

Name of Researcher

Date of Signature

Date of Signature