

# A study to assess workers' knowledge of the Mediterranean diet and physical activity and how this results in weight change in workers

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<b>Registration date</b> 17/04/2025	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
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		<input type="checkbox"/> Individual participant data
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## Plain English summary of protocol

### Background and study aims

The workplace has a high potential for health promotion in terms of healthy eating and physical activity. In fact, proper nutrition and an active lifestyle reduce the risk of disease and improve mood, performance, and productivity, creating a better working atmosphere and greater satisfaction with activities. The primary aim of this study is to determine the effectiveness of the health promotion intervention in terms of improving knowledge, attitudes, and behaviors (KAB) in both nutrition (Mediterranean diet) and physical activity. The secondary aim is to assess variation in body mass index (BMI) in the experimental groups.

### Who can participate?

Policlinico Umberto I health care workers and Sapienza University of Rome employees aged over 18 years found to be overweight or obese (BMI  $\geq 25.00$  kg/m<sup>2</sup>) will be recruited during the occupational medicine visit held at their respective centers of reference.

### What does the study involve?

Participants will be randomly divided into three intervention groups and a control group. Specifically:

1. The control group will be prescribed only the diet
  2. The second group, in addition to the diet, will be prescribed the viewing of short educational videos related to the Mediterranean diet
  3. The third group, in addition to the diet, will be prescribed the viewing of short videos in which notions of physical activity will be imparted and exercises suggested to be performed independently
  4. The fourth group, in addition to the diet, will be prescribed the viewing of both types of videos
- All participants will make an initial visit with the dietitian (T0) during which questionnaires assessing knowledge, attitudes, and behaviors related to the Mediterranean diet and physical activity will be administered; in addition, an appropriate diet will be prescribed. All participants will make a second visit 1 month after the first visit (T1), during which anthropometric data will be measured and any diet changes evaluated. Two months after the second visit (T2), participants will make a final visit with the dietitian during which

anthropometric data will be collected and the same questionnaires submitted at T0 will be administered.

What are the possible benefits and risks of participating?

The researchers are not able to guarantee that participating in this study will bring direct benefits to employees, but the eventual demonstration of improved employee knowledge, attitudes, and behaviors will incentivize the introduction of workplace health promotion programs for all employees and allow for increased employee health, with the aim of reducing medical and public service errors and to raise the performance standards of companies.

Where is the study run from?

Sapienza University of Rome (Italy)

When is the study starting and how long is it expected to run for?

January 2025 to May 2025

Who is funding the study?

Investigator initiated and funded

Who is the main contact?

Prof. Giuseppe LaTorre, giuseppe.latorre@uniroma1.it

## Contact information

### Type(s)

Public, Scientific, Principal investigator

### Contact name

Prof Giuseppe La Torre

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## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Protocol serial number

Nil known

## Study information

## Scientific Title

Workplace health promotion: a randomized clinical trial to assess knowledge, attitudes and behaviors on Mediterranean diet and physical activity

## Study objectives

Increased knowledge of the Mediterranean diet and physical activity combined with diet prescription results in greater weight reduction than Mediterranean diet prescription alone

## Ethics approval required

Ethics approval required

## Ethics approval(s)

approved 20/01/2025, Lazio Area 1 Territorial Ethics Committee (Viale del Policlinico, 155, Rome, 00161, Italy; +39 (0)649979822; comitatoetico.lazioarea1@policlinicoumberto1.it), ref: Rif. 7798, Prot. 0043/2025

## Study design

Multicenter four-arm randomized controlled trial

## Primary study design

Interventional

## Study type(s)

Prevention, Quality of life

## Health condition(s) or problem(s) studied

Knowledge improvement and weight reduction

## Interventions

This study will be a multicenter four-arm randomized controlled trial conducted among overweight and obese employees of Policlinico Umberto I and Sapienza University of Rome. Workers will be recruited at the occupational medicine visit held at their respective centers. Patients found to be overweight or obese ( $BMI \geq 25.00 \text{ kg/m}^2$ ) once anthropometric parameters are collected will be offered enrollment in the study. Participants will be randomly divided into three intervention groups and a control group. To avoid imbalance among intervention groups, stratified randomization will be carried out according to gender and place of work. All participants during the first visit with the dietitian (T0) will be prescribed an appropriate diet and issued a vademecum explaining the main dietary guidelines. Specifically:

1. The control group will be prescribed only the diet
2. The second group, in addition to the diet, will be prescribed the viewing of short educational videos related to the Mediterranean diet
3. The third group, in addition to the diet, will be prescribed the viewing of short videos in which notions of physical activity will be imparted and exercises suggested to be performed independently
4. The fourth group, in addition to the diet, will be prescribed the viewing of both types of videos

All participants will make a second visit 1 month after the first visit (T1), during which anthropometric data will be measured and any diet changes evaluated. Two months after the

second visit (T2), participants will make a final visit with the dietitian during which anthropometric data will be collected and the same questionnaires submitted at T0 will be administered.

## **Intervention Type**

Behavioural

## **Primary outcome(s)**

Knowledge of nutrition (Mediterranean diet) and physical activity measured using:

1. Questionnaire on adherence to the Mediterranean diet: this assesses the frequency of consumption of the various food groups (cereals, fruits, vegetables, meats, etc), time spent preparing and eating meals
  2. Questionnaire on knowledge of the principles of the Mediterranean diet: consists of 15 closed questions with four answers of which only one was correct, structured by the experimenters related to the contents of 12 videos sent to participants on a weekly basis
  3. IPAQ-SF (International Physical Activity Questionnaire - Short Form validated in Italian) with seven questions + three questions formulated by the researchers: the short version of the questionnaire in Italian is a translation of the English version of the IPAQ-SF. It includes seven items to assess the level of physical activity based on time (given in days and minutes per day) spent on vigorous and moderate intensity activities, time spent walking and sitting. The duration of the different activities is multiplied by the respective metabolic rates, expressed as MET (metabolic equivalent of activity) in order to obtain the energy expenditure at work and during leisure time; the final score allows the identification of three distinct categories: subject "inactive," "sufficiently active," and "active or very active." Three questions formulated by the researchers assessing the type of physical activity performed and frequency, attitude to physical activity and the impact that, according to the participant, it has on various health conditions (diabetes, cancer, etc) were added to the questionnaire
  4. Questionnaire on knowledge in the field of physical activity: a questionnaire of 15 closed questions with four answers of which only one was structured by the experimenters, related to the contents of eight information documents sent to participants biweekly
- Measured at T0, T1 and T2 as defined in the Interventions field

## **Key secondary outcome(s)**

Body mass index (BMI) obtained from the ratio of body weight (kg) to height expressed in meters squared (kg weight/height in m<sup>2</sup>) measured at T0, T1 and T2 as defined in the Interventions field

## **Completion date**

15/05/2025

## **Eligibility**

### **Key inclusion criteria**

1. Employee or equivalent staff of the Policlinico Umberto I or Sapienza University of Rome who undergoes the occupational medicine visit
2. Over 18 years old
3. Overweight or obese (BMI  $\geq$ 25.00 kg/m<sup>2</sup>)

### **Participant type(s)**

Health professional, Employee

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Upper age limit**

71 years

**Sex**

All

**Total final enrolment**

87

**Key exclusion criteria**

1. Staff with nephrological pathologies under treatment
2. Staff who have undergone abdominal surgery in the last month
3. Staff with psychiatric pathologies under treatment
4. Staff with grade III obesity (BMI  $\geq 40.00$  kg/m<sup>2</sup>)
5. Staff who cannot follow a specific diet due to pathologies or problems expressed to the doctor during the occupational medicine visit

**Date of first enrolment**

21/01/2025

**Date of final enrolment**

31/01/2025

**Locations****Countries of recruitment**

Italy

**Study participating centre**

**Azienda Ospedaliero - Universitaria Policlinico Umberto I**

Viale del Policlinico, 155

Roma

Italy

00161

**Study participating centre**

**Sapienza Università di Roma**

Piazzale Aldo Moro, 5

Roma  
Italy  
00185

## Sponsor information

### Organisation

Sapienza University of Rome

### ROR

<https://ror.org/02be6w209>

## Funder(s)

### Funder type

Other

### Funder Name

Investigator initiated and funded

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from Prof. Giuseppe La Torre ([giuseppe.latorre@uniroma1.it](mailto:giuseppe.latorre@uniroma1.it)).

Dates of availability: 01/09/2025

All information related to participation in the study will be treated strictly confidentially in accordance with the rules for the protection of persons and other subjects with regard to the processing of personal data (pursuant to Articles 13 and 14 of EU Regulation No. 679/2016 of 27.04.2016 "General Data Protection Regulation" and Legislative Decree No. 196/2003 "Code on the Protection of Personal Data," as amended by Legislative Decree No. 101 of 10.08.2018, laying down provisions for the adaptation of the national system to the European Regulation).

All results obtained are to be considered strictly confidential and subject to professional secrecy and the relevant legislation in force. Personal data collected anonymously (biographical information, and other "sensitive" data) will be recorded, processed, managed and stored in computer form for the exclusive purposes related to the performance of this study.

### IPD sharing plan summary

Available on request