

# Developing a novel, food-based intervention to improve nutritional health and ageing in older South Asian and Black African and Caribbean communities living in the UK – co-produced research project

<b>Submission date</b> 27/01/2025	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 30/01/2025	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 10/09/2025	<b>Condition category</b> Other	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Nutrition is an important factor in healthy ageing, and a healthy diet from midlife onwards can improve the quality of life in older age. People from South Asian or Black Caribbean and African communities are affected by a lot of diet-related conditions such as diabetes, high blood pressure and heart disease at earlier stages in their older age than those of White British origin. Certain ways of eating such as following the Mediterranean Diet have been shown to reduce the risk of these diseases. However, people from South Asian or Black Caribbean and African communities may prefer to maintain their traditional diets or adapt the Western diet to include traditional elements. We need to better understand the cultural food habits to be able to develop nutrition approaches that work, specifically targeting these communities and helping people to live healthily for longer. The overall aim of this research project is to work with communities to co-produce a novel food-based intervention to improve nutrition and promote healthy ageing in UK South Asian and Black Caribbean and African older adults.

### Who can participate?

Older adults aged 60 years and over from South Asian and Black African and Caribbean backgrounds living in the UK can participate in the qualitative study.

### What does the study involve?

This study will use a 'co-production' approach, which is research undertaken by researchers with people who have a direct interest in, or experience of, the issue being researched. We will be collaborating with project leads and public involvement/engagement members from four community third-sector organisations, who will be involved in all stages of the research project - from reviewing study materials, undertaking recruitment and data collection, helping to interpret the study findings, and helping to develop the toolkit of recommendations. There will be two methods of data collection and analysis. Firstly, we will analyse large national datasets of

survey data to explore dietary practices. Secondly, through interviews, focus groups and photographs taken by participants, we will explore the day-to-day diets of older adults from these communities. We want to understand which factors help to maintain a culturally based diet and the role of food in maintaining social relationships and traditions, as well as the barriers to achieving these. Using the information collected from this study, we will work with stakeholders and project partners to develop sustainable, culturally inclusive food solutions that promote better nutrition and healthy ageing that can be used by services and policy makers.

What are the possible benefits and risks of participating?

Whilst there are no immediate benefits to you participating in the project, it is hoped that this work will help us understand factors that influence nutrition in different communities and will help us to develop a toolkit to improve nutrition and promote healthy ageing in older adults of South Asian and Black Caribbean and African origin in the UK.

Whilst we do not anticipate any risks in taking part in this study, there is a possibility that talking about experiences with food and health may generate emotional responses.

Where is the study run from?

Bournemouth University (UK)

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

September 2023 to September 2025

Who is funding the study?

Medical Research Council - UK Research and Innovation

Who is the main contact?

Pooja Shah, shahp@bournemouth.ac.uk

## Contact information

### Type(s)

Public, Scientific

### Contact name

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Principal investigator

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**Additional identifiers****Clinical Trials Information System (CTIS)**

Nil known

**Protocol serial number**

Nil known

**Study information****Scientific Title**

TANGERINE - nutritional health and ageing in older ethnic minorities

**Acronym**

TANGERINE

**Study objectives**

There is limited data exploring factors influencing healthy dietary practices and a dearth of well-designed nutrition interventions specifically targeting ethnic communities. Through co-production, we aim to:

1. Investigate the key determinants (e.g. socio-economic, environmental, psychosocial, and physical) of nutrition, dietary behaviour, and food insecurity during midlife and how these vary between ethnic groups through secondary analysis of key UK national datasets.
2. Use photovoice as a novel approach to qualitatively explore dietary practices in older adults from Black African and Caribbean, Indian, Pakistani, and Bangladeshi communities in Greater Manchester and Bournemouth, Christchurch and Poole.
3. Work with key stakeholders and community and faith groups to co-produce sustainable and culturally inclusive food solutions that promote better nutrition and healthy ageing.

**Ethics approval required**

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**Ethics approval(s)**

approved 19/06/2024, Bournemouth University Research Ethics (Bournemouth University, Fern Barrow, Poole, Dorset, Bournemouth, BH12 5BB, United Kingdom; +44 1202 524111; researchethics@bournemouth.ac.uk), ref: 56768

### **Study design**

Mixed methods: Secondary quantitative analysis of large national datasets and qualitative visual ethnographic study across multiple sites

### **Primary study design**

Observational

### **Study type(s)**

Other

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

Dietary practices in older adults from diverse communities

### **Interventions**

Work Package (WP) 1: covers all three aspects of the study hypothesis. Work with community third-sector organisations (project partners) to identify public involvement and engagement members to advise on research process, materials, and dissemination.

WP2a: Quantitative secondary data analysis of large national datasets (UK Biobank and Understanding Society) to investigate diet quality and factors which influence the diet of South Asian and Black African and Caribbean adults from midlife onwards.

WP2b: Qualitative visual ethnographic study of older (aged 60 years or over) adults from South Asian and Black African and Caribbean communities living in the UK. Focus groups, one-to-one interviews, and photographs will be used to explore current dietary habits and practices.

WP3: Work with stakeholders and community groups to mobilise new knowledge generated from WP1 and WP2 to inform the co-production of sustainable and culturally inclusive food solutions that will be a benchmark for services, policies and practices to support nutritional health and promote healthy ageing in older adults from diverse communities.

### **Intervention Type**

Other

### **Primary outcome(s)**

We will be using a qualitative visual ethnographic approach called 'Photovoice', whereby participants will take photographs to document, reflect upon, and communicate issues of concern, while stimulating social change. In the first focus group we will discuss perspectives on food and nutrition, including access to and use of traditional ingredients. Over the next two weeks, participants will be tasked with capturing photographs that tell stories through food. Then, during one-to-one interviews, participants will use the photos to discuss the role of food in their lives. Participants will choose one or two photographs to discuss in the second focus group to create discussion around culture, food choices, and challenges/barriers to accessing food.

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

There are no secondary outcome measures

**Completion date**

28/09/2025

## Eligibility

**Key inclusion criteria**

WP2b: Older adults aged 60 years and above from South Asian and Black African and Caribbean communities in the UK.

WP3: Stakeholders from different professions with experience in diet and nutrition in older age: NHS, voluntary/private organisations, commercial organisations, entrepreneurs and policy makers.

**Participant type(s)**

Healthy volunteer, Health professional, Other

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

60 years

**Sex**

All

**Total final enrolment**

49

**Key exclusion criteria**

Does not meet inclusion criteria

**Date of first enrolment**

01/07/2024

**Date of final enrolment**

31/07/2025

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Bournemouth University**  
Poole House  
Talbot Campus, Fern Barrow  
Poole  
United Kingdom  
BH12 5BB

## Sponsor information

**Organisation**  
Bournemouth University

**ROR**  
<https://ror.org/05wwcw481>

## Funder(s)

**Funder type**  
Research council

**Funder Name**  
Medical Research Council

**Alternative Name(s)**  
Medical Research Council (United Kingdom), UK Medical Research Council, Medical Research Committee and Advisory Council, MRC

**Funding Body Type**  
Government organisation

**Funding Body Subtype**  
National government

**Location**  
United Kingdom

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during this study will be securely stored in a restricted-access repository at Bournemouth University. The raw data will remain confidential and accessible only to the core research team. Full anonymised study datasets will be accessible only

to named members of the immediate research team, and authorised representatives from the Sponsor or host institution for monitoring and audit purposes to ensure regulatory compliance. Personal data will not be shared with any third parties.

### IPD sharing plan summary

Stored in non-publicly available repository

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes