# Evaluation of a community-led traditional foodbased programme for remission of type 2 diabetes, in Nepal

Submission date	Recruitment status	[X] Prospectively registered
15/04/2024	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
14/05/2024	Ongoing	Results
Last Edited	Condition category	Individual participant data
05/11/2024	Nutritional, Metabolic, Endocrine	[X] Record updated in last year

## Plain English summary of protocol

Background and study aims

To provide a sustainable, very low-cost solution for the large and growing problem of type 2 diabetes in Nepal

Who can participate?

Adults aged 30-70 years who are detected to have diabetes at community screening

What does the study involve?

Consuming cheap, local, traditional foods designed to provide all essential nutrients and produce weight loss of 10-15kg over about 8 weeks, followed by an eating plan to avoid weight regain, for at least 12 months.

What are the possible benefits and risks of participating?

Benefit is the possibility of remission of type 2 diabetes, not requiring medication. No risks.

Where is the study run from?

Dhulikhel Hospital and its outreach centres, in Nepal.

When is the study starting and how long is it expected to run for? September 2022 to September 2027

Who is funding the study?

Funded by the Medical Research Council (UK) on behalf of the Global Alliance for Chronic Diseases

Who is the main contact?

Prof Mike Lean, mike.lean@glasgow.ac.uk

## Contact information

#### Type(s)

Public, Scientific, Principal Investigator

#### Contact name

Prof Michael (Mike) Lean

#### **ORCID ID**

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## Additional identifiers

#### **EudraCT/CTIS** number

Nil known

#### IRAS number

## ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

GACD Prevention in Cities Reference: GACD2023-151

## Study information

#### Scientific Title

Co-DiRECT Nepal: a community-based diet programme for remission of type 2 diabetes and amelioration of non-communicable disease risks

### **Acronym**

Co-DiRECT Nepal

#### Study objectives

The research aim is to evaluate a proven dietary intervention, for remission of type 2 diabetes (T2D) and reduction of chronic non-communicable disease (NCD) risks, culturally adapted for implementation in the context of rapidly-growing peri-urban populations in and around cities in the Kathmandu Valley of Nepal.

## Ethics approval required

Ethics approval required

## Ethics approval(s)

- 1. Approved 23/10/2024, Nepal Health Research Council Ethical Review Board (Ramshah Path, Kathmandu, -, Nepal; +977-1-4254220 / +977-1-4254220; nhrc@nhrc.gov.np), ref: 810
- 2. Not yet submitted, University of Glasgow MVLS College Ethics Committee (College of Medicine, Veterinary & Life Sciences, School of Cardiovascular and Metabolic Health, New Lister Building, Glasgow Royal Infirmary, Glasgow, G31 2ER, United Kingdom; +44 (0)141 201 8519; terry.quinn@glasgow.gla.ac.uk), ref: 200240032

#### Study design

Hybrid effectiveness and implementation study incorporating a single centre randomized controlled trial

## Primary study design

Interventional

#### Secondary study design

Randomised controlled trial

#### Study setting(s)

Community

## Study type(s)

Prevention

## Participant information sheet

To follow

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

Remission or amelioration of type 2 diabetes

#### Interventions

The intervention is diet plans, with support from trained community volunteers, comprising traditional, very low-cost, foods selected to provide all essential micronutrients and an energy content designed for (1) weight loss over 8-10 weeks, and then (2) weight loss maintenance up to at least 12 months.

Control group is delayed intervention, after the 4-month randomised trial.

Randomisation will use sealed envelopes.

Outcome measures are fingerprick HbA1c at 4 months (randomised trial) and 12 months (observational).

## Intervention Type

Behavioural

#### Primary outcome measure

Glycated haemoglobin measured using fingerprick HbA1c at baseline, 4 and 12 months

#### Secondary outcome measures

- 1. Body weight measured using scales at baseline, 4 and 12 months
- 2. Qualitative assessments of incentives and barriers to diet adherence measured using customised questionnaire during weight loss induction and maintenance phases

## Overall study start date

01/09/2022

## Completion date

30/09/2027

## **Eligibility**

## Key inclusion criteria

Screen-detected HbA1c above 48 mmol/mol

#### Participant type(s)

Other

#### Age group

Adult

#### Lower age limit

30 Years

### Upper age limit

70 Years

#### Sex

Both

## Target number of participants

150

## Key exclusion criteria

- 1. Known diabetes on medication
- 2. Non-local residents
- 3. Planned migration within 12 months

#### Date of first enrolment

06/01/2025

#### Date of final enrolment

01/06/2025

## Locations

#### Countries of recruitment

Nepal

## Study participating centre Dhulikhel Hospital, and its outreach centres

Dhulikhel

## Sponsor information

## Organisation

University of Glasgow

#### Sponsor details

School of Medicine, New Lister Building, Royal Infirmary Glasgow Scotland United Kingdom G31 2ER +44 141 330 5691 matthew.walters@glasgow.ac.uk

#### Sponsor type

University/education

#### Website

https://www.gla.ac.uk/schools/medicine/staff/mikelean/

#### **ROR**

https://ror.org/00vtgdb53

## Funder(s)

## Funder type

Research council

#### **Funder Name**

Medical Research Council- Global Alliance for Chronic Diseases

#### Alternative Name(s)

Medical Research Council (United Kingdom), UK Medical Research Council, MRC

#### **Funding Body Type**

Government organisation

### Funding Body Subtype

National government

#### Location

## **Results and Publications**

## Publication and dissemination plan

Planned publications in high impact peer reviewed journals, presentations and reports to governmet and professional agencies, and a documentary film for future training and public dissemination of results.

## Intention to publish date

01/05/2026

## Individual participant data (IPD) sharing plan

The data-sharing plans for the current study are unknown and will be made available at a later date, using methods to be defined in accordance with funder's requirements.

## IPD sharing plan summary

Data sharing statement to be made available at a later date