

The effects of lipid-based multiple micronutrients on the health of children in the developing world

Submission date 22/06/2009	Recruitment status No longer recruiting	☒ Prospectively registered ☐ Protocol
Registration date 30/07/2009	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 17/08/2017	Condition category Other	☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
SCC 1135v2

Study information

Scientific Title

A randomised controlled trial to investigate the effects of physician prescribed lipid-based multiple micronutrients on the health of children presenting to a primary health care centre in The Gambia

Acronym

MMCT

Study objectives

Physician prescribed lipid-based nutritional supplement (LNS) with a comprehensive set of micronutrients will improve the health status of children self-presenting to a primary health care clinic.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Medical Research Council (MRC) and the Gambian Government Ethics Committee, 27/03/2009, ref: SCC1135v2

Primary study design

Interventional

Study design

Randomised controlled trial

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Infant and child health status

Interventions

Randomised double-blind placebo-controlled trial of 25 g/d LNS (containing macronutrients and 23 micronutrients) under Good Clinical Practice (GCP) standards. Supplement will be administered by the carer. Compliance will be assessed by unannounced observations and questionnaires. Subjects will be randomised into three groups:

1. 12 week LNS supplementation
2. 6 week LNS supplementation followed by 6 week placebo
3. 12 week placebo

Each child will be followed up for 1 year.

Intervention Type

Supplement

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Lipid-based nutritional supplement (LNS)

Primary outcome(s)

Health status as indicated by the frequency of self-referred clinic return attendances within 12 months from baseline specifying clinical diagnoses at each presentation to profile disease patterns and growth (weight, height/length, mid-upper arm circumference (MUAC)) at four points over 6 months.

Key secondary outcome(s)

Micronutrient status and standard haematology in a random subgroup of 300 subjects, measured at day 10 and at 12 weeks from start of supplementation.

Completion date

15/09/2011

Eligibility**Key inclusion criteria**

Children aged 6 months - 5 years (either sex) from the West Kiang Region of The Gambia self-presenting to the clinic at MRC Keneba, West Kiang, The Gambia

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

6 Months

Upper age limit

5 Years

Sex

All

Key exclusion criteria

1. Children from regions other than the West Kiang Region of The Gambia
2. Children known to be asthmatic or allergic to peanuts
3. Children known to be involved in another trial
4. Children with known haemoglobinopathies
5. Children with severe malnutrition (weight-for-height SD-score less than -3 or/and presence of oedema) (World Health Organization [WHO] 2000)
6. Children presenting to the clinic but called rather than self-referred (e.g. for DSS purposes and immunisations)

Date of first enrolment

15/09/2009

Date of final enrolment

15/09/2011

Locations

Countries of recruitment

Gambia

Study participating centre

MRC Laboratories

Banjul

Gambia

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Sponsor information

Organisation

Medical Research Council (MRC) (UK)

ROR

<https://ror.org/03x94j517>

Funder(s)

Funder type

Research council

Funder Name

Medical Research Council (MRC) (UK) - International Nutrition Group (ING) Core Funding

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

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	15/08/2017		Yes	No