

A controlled intervention study of vitamin D supplementation on neuromuscular and psychomotor function in elderly people who fall

Submission date

23/01/2004

Recruitment status

No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date

23/01/2004

Overall study status

Completed

☐ Statistical analysis plan

☒ Results

Last Edited

18/11/2010

Condition category

Nutritional, Metabolic, Endocrine

☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number

REC00304

Study information

Scientific Title**Study objectives**

Fractures in the elderly are a major health problem with considerable costs to the NHS. Vitamin D deficiency occurs in up to 50% of housebound elderly people and is an important contributor to fractures. In addition to osteoporosis, the myopathy and neuropathy associated with Vitamin D deficiency may contribute to fractures through falls and impaired neuroprotective responses. Vitamin D supplementation can prevent peripheral fractures in older people.

We hypothesize that Vitamin D supplementation in Vitamin D deficient elderly people results in improved neuromuscular and psychomotor function.

This will be a collaborative, bidisciplinary investigation of patients aged over 65 years who have had a fall (identified through Accident and Emergency Department records) and are Vitamin D deficient.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Not Specified

Health condition(s) or problem(s) studied

Musculoskeletal injury due to nutritional deficiency

Interventions

- i. Vitamin D supplementation with IM ergocalciferol
- ii. Matched placebo

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Choice reaction time and aggregate functional performance time.

Key secondary outcome(s))

Fall rates.

Completion date

01/04/2001

Eligibility

Key inclusion criteria

Elderly patients over the age of 65 years who have had a fall and are Vitamin D deficient

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Senior

Sex

All

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/04/1999

Date of final enrolment

01/04/2001

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

King's College Hospital

London

United Kingdom

SE22 8PT

Sponsor information**Organisation**

NHS R&D Regional Programme Register - Department of Health (UK)

Funder(s)

Funder type
Government

Funder Name
NHS Executive London

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	01/05/2002		Yes	No