

Refeeding risks in patients requiring nutrition support

Submission date 12/05/2010	Recruitment status Stopped	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 12/05/2010	Overall study status Stopped	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 09/06/2015	Condition category Digestive System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Clinical Trials Information System (CTIS)
2007-005547-17

Protocol serial number
8212

Study information

Scientific Title

Refeeding risks in patients requiring nutrition support: a twin centre double-blind randomised controlled trial of parenteral nutrition support

Study objectives

We will conduct a randomised controlled trial to investigate the levels of nutrition support that minimise the dangers of refeeding syndrome in moderately/severely malnourished patients, while providing maximum nutrition for those in need. To do this we will conduct a twin-centre, prospective, randomised, controlled, double-blind trial of both physiological and biochemical markers of refeeding syndrome and clinical outcomes in patients needing intravenous nutrition support who, despite being at moderate or higher refeeding risk according to NICE defined criteria, are commenced at close to NICE recommended cautious levels, or more generous feeding levels (close to estimated requirements).

More details can be found here: <http://public.ukcrn.org.uk/Search/StudyDetail.aspx?StudyID=8212>

Ethics approval required

Old ethics approval format

Ethics approval(s)

Southampton and Southwest Hampshire Research Ethics Committee, 28/07/2009, ref: 09/H0504/78

Study design

Multicentre randomised interventional treatment trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Topic: Oral and Gastrointestinal; Subtopic: Oral and Gastrointestinal (all Subtopics); Disease: Gastrointestinal

Interventions

1. High rate parenteral nutrition: 48 hours of higher rates of feeding - 30 kcal/kg/day (including protein), 0.25 gN/kg/day
2. Low rate parenteral nutrition: 48 hours of lower rates of feeding - 15 kcal/kg/day (including protein), 0.125 gN/kg/day

Follow-up length: 1 months

Study entry: registration and one or more randomisations

Updated 09/06/2015: the trial was stopped in December 2013 due to recruitment issues.

Intervention Type

Other

Phase

Phase IV

Primary outcome(s)

Refeeding Syndrome, measured within 1 week of randomisation

Key secondary outcome(s)

1. Clinical evidence of fluid overload, measured at day 2 of trial
2. Infective complications, measured within 1 week of randomisation
3. Intracellular electrolyte disturbance, measured on day 3
4. Length of stay, measured on day of discharge
5. Supplemental electrolyte prescription, measured within 1 week of randomisation

Completion date

16/05/2012

Reason abandoned (if study stopped)

Participant recruitment issue

Eligibility**Key inclusion criteria**

1. All consenting patients (minimum 18 years old, either sex) who require intravenous nutrition as assessed by the Southampton University Hospitals NHS Trust and the Royal Berkshire NHS Foundation Trust Nutrition Support Teams
2. Patients who do not require specialised parenteral nutrition regimens to meet their clinical needs
3. Patients who are at moderate or high risk of refeeding syndrome as defined by:
 - 3.1. Moderate risk (one of the following criteria):
 - 3.1.1. Body mass index (BMI) less than 18.5 kg/m²
 - 3.1.2. Unintentional weight loss greater than 10% in 3 - 6 months
 - 3.1.3. Very little or no food intake for greater than 5 days
 - 3.2. High risk (one of the following criteria):
 - 3.2.1. BMI less than 16 kg/m²
 - 3.2.2. Unintentional weight loss greater than 15%
 - 3.2.3. Very little nutritional intake for greater than 10 days

Or

Two of the following lesser criteria:

 - 3.2.4. BMI less than 18.5 kg/m²
 - 3.2.5. Weight loss greater than 10%
 - 3.2.6. Very little nutritional intake for greater than 5 days

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Patients at very high risk of re-feeding syndrome (two or more of the NICE criteria: BMI less than 16 kg/m², recent weight loss greater than 15% body weight within 6 months, greater than 10 days with no nutritional intake) or patients with a BMI less than 14 kg/m²)
2. Levels of K/Mg/PO4 below lower limit of normal (LLN) range from the SUHT chemical pathology laboratory prior to feeding
3. Patients with oral nutritional intake
4. Intensive care patients (who often receive variable levels of additional enteral tube feeding)
5. Patients weighing 80 kg or more giving them an estimated energy requirement above 2400 kcal/day (as we feel giving patients more than 2400 kcal/day poses too great a risk)
6. Patients with pre-existing diabetes mellitus
7. Patients unable to give informed consent to take part

Date of first enrolment

17/05/2010

Date of final enrolment

16/05/2012

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

Southampton University Hospitals NHS Trust

Southampton

United Kingdom

SO16 6YD

Sponsor information**Organisation**

Southampton University Hospitals NHS Trust (UK)

ROR

<https://ror.org/0485axj58>

Funder(s)

Funder type

Government

Funder Name

National Institute for Health Research (NIHR) (UK) - Research for Patient Benefit (RfPB) Programme

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?
HRA research summary			28/06/2023	No	No