Nutrition in adult haematology patients with GI mucositis.

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON24996

Source NTR

Brief title SC29

Health condition

Chemotherapy induced mucositis enteral nutrition parenteral nutrition stem cell transplantation

Sponsors and support

Primary sponsor: Radboudumc Nijmegen Source(s) of monetary or material Support: Koningin Wilhelmina Fonds (KWF)

Intervention

Outcome measures

Primary outcome

i. Nutritional status determined by change in body-weight.

ii. The severity of GI mucositis as determined by citrulline levels and the Nijmegen Nursing Mucositis Scoring System, NNMSS (APPENDIX B).

Secondary outcome

i. The Quality-of-Life using the EORTC QLQ-C30 version 3.0 (APPENDIX C) and the VAS-score (APPENDIX D).

ii. Body mass index (BMI) and mid-upper-arm circumference (MUAC).

iii. Incidence of infectious complications and bactaeremia.

iv. Inflammatory response as determined by the presence of fever, and elevated levels of C-reactive protein and interleukin-8.

v. Engraftment and time to engraftment.

vi. Percentage of calculated optimal quantity of tube feeding which is actually given to the patient.

vii. Liver toxicity scores according to the NCI-CTCAE version 4.0.

viii. Length of hospital stay

Study description

Background summary

Rationale: Gastrointestinal (GI) mucositis is a severe side effect of chemo- and/or radiotherapy and is associated with nutrient maldigestion and malabsorption. Clinically, patients with mucositis suffer from anorexia, diarrhoea, abdominal pain and weight loss. A standardized, validated and effective feeding strategy for haematology patients suffering from treatment-induced mucositis is currently lacking. However, directed nutritional support might improve the nutritional status of mucositis patients, accelerate recuperation and increase survival. Preclinical studies in rats, suffering from GI mucositis, showed that amino acids and glucose could be normally absorbed especially when administered by continuous enteral drip. The enteral regimen was superior as compared to a parenteral regimen with regards to preservation of gut mucosa integrity. Although there is much experience with both enteral and total parenteral feeding in many clinical settings of patient care, in the care for adults treated with intensive chemotherapy total parenteral nutrition (TPN) is predominantly used. However, no evidence exists indicating superiority of TPN over enteral nutrition (EN) with regards to improved cancer treatment outcome (weight loss, infection incidence and survival). However EN has theoretical benefits including the preservation of the mucosal barrier with less atrophy, bacterial translocation and inflammation. It is easier to administer

and cheaper than TPN. Since there are no consistent data about feeding strategies in adults with mucositis, we designed a research project to study which feeding strategy is preferable in patients with chemotherapy-induced mucositis.

Objective: In this study, we will test which of two feeding strategies for adults during chemotherapy-induced mucositis is optimal with regards to maintaining an optimal body weight, nutritional status, gut mucosal barrier and treatment outcome (including complications):

1. An elementary tube diet (Survimed), containing simple macronutrients, administered by continuous enteral drip through a naso-jejunal tube.

2. Total parenteral nutrition administered through a central venous catheter.

Study design: The study will compare two feeding strategies (elementary tube feeding versus total parenteral feeding) in a randomized design. Blinding is not possible due to the nature of the two study strategies (enteral versus parenteral nutrition). TPN is the current clinical practice in adults and therefore designated the standard arm.

Study population: N=40 adults ("d 18 years of age), admitted to the Radboudumc for treatment with an autologous haematopoietic stem cell transplantation following conditioning with high-dose melphalan (HDM) or carmustine, etoposide, cytarabine and melphalan (BEAM).

Intervention: Patients will be given either enteral or parenteral nutrition in a randomized fashion. EN will be administered via a naso-jejunal tube and TPN via a central venous catheter.

Main study parameters/endpoints: Primary endpoints are changes in the nutritional status (bodyweight), and the severity of GI mucositis (daily gut score and citrulline levels). Secondary endpoints include the impact on Quality-of-Life and occurrence of treatment-related complications (neutropenic fever, bacteraemia).

Study objective

Since there are no consistent data about feeding strategies in adults with mucositis, we designed a research project to study which feeding strategy is preferable in patients with chemotherapy-induced mucositis.

Study design

During hospital stay After discharge at day 45 en 90 at the outpatient clinic.

Intervention

Enteral nutrition via a naso-jejunal tube (intervention) versus total parenteral nutrition via a central venous catheter (standard care).

Contacts

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Eligibility criteria

Inclusion criteria

- Adult patients above the age of 18 able to undergo an autologous SCT with HDM or BEAM.
- Able and willing to give written informed consent.
- Treatment and follow-up at the Radboudumc during the first 6 months after SCT.
- Adequate knowledge of the Dutch language.
- No severe malnutrition; defined as a BMI >18 and/or a serum albumin > 20 g/L.

- No pre-existing bowel diseases e.g. short bowel syndrome, Crohnils disease, or celiac disease.

- Able to follow the standard infectious protocol.
- Ability to place a naso-jejunal tube.
- Agrees not to use pre- and pro-biotics.

Exclusion criteria

•Creatinine level > 150 μ mol/l, creatinine clearance < 60 ml/min.

• Admission on the hematology department on Wednesday because of tube placement during the weekend.

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-09-2014
Enrollment:	40
Туре:	Actual

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Positive opinion	
Date:	19-11-2013
Application type:	First submission

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Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL4069
NTR-old	NTR4270
Other	46459 : ABR
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results N/A

IN/A