

The effect of IV antibiotics on gut flora during an episode of fever in children with cancer.

No registrations found.

Ethical review	Not applicable
Status	Recruiting
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON21552

Source

NTR

Brief title

AntiMic

Health condition

Systemic antibiotics, microbiota, pediatric patients with cancer, febrile neutropenia.

Sponsors and support

Primary sponsor: University Medical Centre Groningen

Intervention

Outcome measures

Primary outcome

- Number of specific bacterial groups in feces of pediatric patients

Secondary outcome

- The difference in diversity of the microbiota before and after treatment
- Type of systemic antibiotics
- Laboratory values (Hb, CRP, leukocytes)
- Blood cultures
- Temperature
- Type of nutrition

Study description

Background summary

Unbalance between aerobic and anaerobic bacteria in the gastrointestinal tract can result in favoring a potentially pathogenic microorganism, which could cause a bacterial infection. For this reason it is important to identify how systemic broad spectrum antibiotics affect the microbiota during febrile neutropenia in pediatric patients with cancer. To investigate our research question, we will collect feces samples from pediatric patients with cancer during febrile neutropenia in the UMCG at two points during treatment. These samples will be analyzed by using pyrosequencing techniques. We hypothesize that the bacterial content of the gut changes when the patient gets systemic intravenous antibiotics.

Study objective

What is the effect of the systemic antibiotic therapy on the number and diversity of specific bacterial groups in fecal samples of pediatric patients with cancer?

Study design

First and last day of treatment with systemic antibiotics.

Intervention

Collecting fecal samples obtained from feces in commode chair.

Contacts

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Scientific

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Eligibility criteria

Inclusion criteria

- Pediatric patients with cancer hospitalised in University Medical Centre Groningen
- Reason of hospitalization is febrile neutropenia
- Active treatment with systemic antibiotics

Exclusion criteria

- No defecation within the first three days of hospitalization

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL
Recruitment status: Recruiting
Start date (anticipated): 18-06-2015
Enrollment: 20
Type: Anticipated

Ethics review

Not applicable
Application type: Not applicable

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	NL5510
NTR-old	NTR5806
Other	Medische Ethische Toetsingscommissie : M15.174103

Study results