

Respons to vaccination in patients with cancer of the lymphnodes who are treated with chemotherapy.

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Patients with non-hodgkins lymphoma who are treated with chemotherapy and rituximab are at risk of developing infections. Vaccination with pneumococcal and Hib vaccines can give protection. However due to rituximab B-cell depletion occurs. It is not...

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON27098

Bron

NTR

Verkorte titel

Pneumotuxivac

Aandoening

pneumococcus
hemophilus influenza B
vaccination
lymphoma
rituximab

Ondersteuning

Primaire sponsor: St. Antonius Ziekenhuis

Overige ondersteuning: St. Antonius Ziekenhuis

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Antibody titres against S. Pneumonia and H. influenzae type b (in μg/mL) vaccine before and after vaccinations. Titres will be interpreted and classified in responder or non-responder.

Toelichting onderzoek

Achtergrond van het onderzoek

Rituximab is a chimeric anti-CD20 monoclonal antibody used in combination with chemotherapy for the treatment of non-Hodgkin's lymphoma (NHL). Following infusion with rituximab, B-cell depletion in the peripheral blood occurs within days. Levels of normal peripheral B cells remain low for 2-6 months. Because of the immune suppressive (chemo) therapy, patients are prone to develop infectious complications with Hemophilus infleunza type B (Hib) or S. pneumoniae. There is no data on the infectionrates of S.pneumoniae and Hib in patients with NHL who were treated with chemotherapy and rituximab. However vaccination seems indicated for this patientgroup. Little is known about the effect of rituximab and chemotherapy on the response to pneumococcal and Hib vaccination. Objective: To compare the number of responders to vaccination with pneumococcal and conjugated Hib vaccine at different time points after last dose of rituximab, to investigate what the ideal moment of vaccination would be. Secondly to study the immune-response to vaccination with conjugated Hib and pneumococcal vaccine after treatment with rituximab in relation to the reconstitution of immune-function (in terms of number and subsets of B-cells, lymphocyte subsets, immunoglobulin levels and IgG subclasses, CD4+ IFN-gamma production, BAFF, CXCL13 and IL-10).

Study design: The design is a randomised trial. A total of hundred-fifty-two (152) patients with non-Hodgkin's lymphoma, who were treated with rituximab in the last five months before start of the study and are in remission, will be included. Patients will be randomised for early vaccination (six months after rituximab) or late vaccination (twelve months after rituximab). Two and six months after the first vaccination with synflorix (conjugated pneumococcal vaccine) and act-Hib (conjugated Hib vaccine), the second and third vaccination will be given with synflorix and act-Hib and pneumovax (pneumococcal polysaccharide vaccine) and act-Hib respectively.

Doel van het onderzoek

Patients with non-hodgkins lymphoma who are treated with chemotherapy and rituximab are at risk of developing infections. Vaccination with pneumococcal and Hib vaccines can give protection. However due to rituximab B-cell depletion occurs. It is not known what the optimal moment of vaccination is, at what time the immune system can generate adequate antibody levels.

Onderzoeksopzet

Patients will be randomised to start with the vaccination schedule 6 months or 12 months after last dose of rituximab.

At day 0 vaccination will be given, 3 weeks later blood will be drawn.

At 2 months the second vaccination takes place, 3 weeks later blood will be drawn.

At 8 months the third vaccination will be given. 3 weeks later blood will be drawn.

At 14 months blood will be drawn.

Onderzoeksproduct en/of interventie

- At the first visit when patients are randomized, blood will be drawn and the first vaccination with Prevnar 13 and Act-Hib will be given.

- 3 weeks later, blood will be drawn.

- 2 months later, the second vaccination with Prevnar 13 and Act-Hib will be given. - 3 weeks after the second vaccination, blood will be drawn.

- 8 months later, the third vaccination with Pneumovax and Act-Hib will be given.

- 3 weeks after the 3rd vaccination, blood will be drawn.

-14 months later, blood will be drawn.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Patients with non-Hodgkin's lymphoma, treated with rituximab (with a range of 6-12 cycles) and who are in remission.
2. Completion of rituximab therapy in the last five months before start of the study.
3. Age \geq 18 years.
4. Signing of informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Completion of rituximab therapy >5-6 months before start of the study.
2. Fever at time of vaccination.
3. Previous/known allergic reaction to any of the components of the vaccines given.
4. Vaccination with Hib or pneumococcal vaccine in the last fifteen months before start of the study

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-03-2014
Aantal proefpersonen:	152
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum: 31-01-2014

Soort: Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 39920

Bron: ToetsingOnline

Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4206
NTR-old	NTR4417
CCMO	NL40482.100.12
OMON	NL-OMON39920

Resultaten