

Study of B cell functions in multiple sclerosis.

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B cells play a role in multiple sclerosis, not only by production of autoantibodies but also by presentation of (auto)antigens to autoreactive T cells.

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON24833

Bron

NTR

Aandoening

multiple sclerosis, B cells

Ondersteuning

Primaire sponsor: no sponsor, study performed by Hasselt University (Belgium), Agoralaan gebouw D, 3590 Diepenbeek, Belgium

Overige ondersteuning: no sponsor, researchers are funded by FWO Flanders and Hasselt University, Agoralaan gebouw D, 3590 Diepenbeek, Belgium

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Knowledge on the role of B cells in the disease pathogenesis of multiple sclerosis. This will be through in vitro cultivation and measurement of certain receptors.

Toelichting onderzoek

Achtergrond van het onderzoek

Multiple sclerosis (MS) is a chronic disease of the central nervous system in which the myelin that surrounds nerves is damaged. It is an autoimmune disease in which the immune system attacks own tissue (myelin). B cells are immune cells that have a disturbed function in MS and produce autoantibodies. These are antibodies that are directed against autoantigens (own tissue or proteins). Despite intensive research, the targets of these antibodies remain unknown up til now. Besides producing autoantibodies, B cells can activate T cells that can damage myelin and the brain. Not much is known concerning this B cell function in the disease process of MS.

The aim of this study is to study the antibody dependent and independent B cell functions in MS. Study of B cells and antibodies in MS and other neurologic diseases can improve insight into the underlying disease mechanisms and improve the current diagnostics and therapy.

B cells will be obtained from the cerebrospinal fluid by centrifugation and from the peripheral blood by density gradient centrifugation. B cells are then studied by flow cytometry and in vitro assays. Cytokines are measured using ELISA.

Doel van het onderzoek

B cells play a role in multiple sclerosis, not only by production of autoantibodies but also by presentation of (auto)antigens to autoreactive T cells.

Onderzoeksopzet

N/A

Onderzoeksproduct en/of interventie

N/A

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Blood samples (10-15ml) are collected from healthy individuals, multiple sclerosis (MS) patients and neurologic control patients. Cerebrospinal fluid (5-10ml) is obtained via lumbar puncture from MS patients and neurologic controls. The lumbar puncture and blood puncture is done in order to get a correct diagnosis. In this way, trouble and risk for the patient is minimal. During this routine puncture, an extra volume is taken for this study. When the diagnosis is different from MS, the patient will be included in the control population. We aim to include 10 patients with a clinically isolated syndrome, 130 MS patients, 80 control patients and 80 healthy controls.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

N/A

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Parallel
Toewijzing:	N.v.t. / één studie arm
Blindering:	Enkelblind
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-03-2012
Aantal proefpersonen:	160
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	24-09-2012
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL3491

Register

NTR-old

Ander register

ISRCTN

ID

NTR3637

METC Orbis Sittard : 12.023

ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

N/A