

REDUCING HOSPITAL ADMISSION OF ELDERLY IN SARS-CoV-2 PANDEMIC VIA THE INDUCTION OF TRAINED IMMUNITY BY BACILLUS CALMETTE-GUÉRIN VACCINATION, A RANDOMIZED CONTROLLED TRIAL

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We hypothesize that BCG vaccination may reduce hospital admission and improve the clinical course of symptoms of elderly people during the SARS-CoV-2 outbreak.

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

Samenvatting

ID

NL-OMON19909

Bron

Nationaal Trial Register

Verkorte titel

BCG-CORONA-ELDERLY

Aandoening

COVID-19

Ondersteuning

Primaire sponsor: Radboudumc

Overige ondersteuning: No

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

- SARS-CoV-2 related hospital admission

Toelichting onderzoek

Achtergrond van het onderzoek

On March 11 2020 the World Health Organization (WHO) declared the coronavirus (SARS-CoV-2) outbreak a pandemic. The number of confirmed cases continues to rise, leading to significant morbidity and mortality worldwide. Although individuals of any age can acquire SARS-CoV-2, adults of middle and older age are most commonly affected. Moreover, recent reports demonstrate that mortality rates rise significantly among patients 60 years and older. Therefore, strategies to prevent SARS-CoV-2 infection or to reduce its clinical consequences in elderly are desperately needed. Bacillus Calmette-Guérin (BCG) vaccine not only protects against tuberculosis, but has also been shown to induce protection against various respiratory infections, including those with a viral aetiology, leading to significant reductions in morbidity and mortality. We hypothesize that BCG vaccination may reduce hospital admission and improve the clinical course of symptoms of elderly people during the SARS-CoV-2 outbreak.

Objective: Primary objective: to reduce SARS-CoV-2-related hospital admission of community dwelling older persons (≥ 60 years of age). Secondary objective: to reduce the incidence of health symptoms, the duration of hospital admission, hospital or ICU admission for any reason, or death in community dwelling older persons during the SARS-CoV-2 outbreak.

Study design: A placebo-controlled adaptive multi-centre randomized controlled trial.

Study population: Elderly people (≥ 60 years of age).

Intervention: Participants will be randomized between intracutaneous administration of BCG vaccine or placebo in a 1:1 ratio.

Main study parameters/endpoints: Primary endpoint: SARS-CoV-2 related hospital admission.

Secondary endpoints: incidence of symptoms of infectious disease, hospital admission for any reason, duration of hospital admission, SARS-CoV-2 infection, Intensive Care admission, and death.

Doel van het onderzoek

We hypothesize that BCG vaccination may reduce hospital admission and improve the clinical course of symptoms of elderly people during the SARS-CoV-2 outbreak.

Onderzoeksopzet

6 months

Onderzoeksproduct en/of interventie

BCG-vaccine

Contactpersonen

Publiek

Radboudumc
Simone Moorlag

+31-24-3667218

Wetenschappelijk

Radboudumc
Simone Moorlag

+31-24-3667218

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Adult (≥ 60 years)

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Fever ($>38^{\circ}\text{C}$) within the past 24 hours
- Suspicion of current active viral or bacterial infection
- Expected vaccination during the first three months of the study period
- Severely immunocompromised subjects. This exclusion category comprises: a) subjects with known infection by the human immunodeficiency virus (HIV-1); b) neutropenic subjects with less than 500 neutrophils/mm³; c) subjects with solid organ transplantation; d) subjects with bone marrow transplantation; e) subjects under chemotherapy; f) subjects with primary

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immunodeficiency; g) severe lymphopenia with less than 400 lymphocytes/mm³; h) treatment with any immunosuppressant drugs such as anti-cytokine therapies, and treatment with oral or intravenous steroids defined as daily doses of 10mg prednisone or equivalent for longer than 3 months, or probable use of oral or intravenous steroids in the following four weeks

- Active solid or non-solid malignancy or lymphoma within the prior two years
- Active participation in another research study that involves BCG administration

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Enkelblind
Controle:	Placebo

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	16-04-2020
Aantal proefpersonen:	1600
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	22-04-2020
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 49238

Bron: ToetsingOnline

Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL8547
CCMO	NL73430.091.20
OMON	NL-OMON49238

Resultaten