Transmission of SARS-CoV-2 within Dutch households

Gepubliceerd: 02-11-2021 Laatst bijgewerkt: 19-03-2025

Secondary attack rates of SARS-CoV-2 will differ when stratified for the age of the index case.

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

Samenvatting

ID

NL-OMON25872

Bron
NTR

Verkorte titel
FFX-COVID-19

Aandoening

COVID-19, SARS-CoV-2

Ondersteuning

Primaire sponsor: National Institute for Public Health and the Environment (RIVM)
Overige ondersteuning: National Institute for Public Health and the Environment (RIVM), Ministry of Health, Welfare and Sport

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

To estimate secondary attack rates of SARS-CoV-2 and determine factors that impact susceptibility and infectiousness.

Toelichting onderzoek

Achtergrond van het onderzoek

In December 2019 the first infections of SARS-CoV-2 (COVID-19 disease) were detected in Wuhan, China. The first COVID-19 case in the Netherlands was confirmed on February 27, 2020. In March 2020, the Dutch government mandated a partial lockdown, characterized by social distancing, self-quarantine, closing of schools, bars, and restaurants, and urging people to work from home. As household members live in close contact, the household constitutes a high risk setting for SARS-CoV-2 transmission. The main aims of the present study were to determine the important clinical, epidemiological, virological and immunological characteristics of first COVID-19 cases in the Netherlands and their household contacts. We wanted to estimate secondary attack rates of SARS-CoV-2 and to determine factors that impact susceptibility and infectiousness, stratified by the age of household contacts. We used a dense sampling strategy with sampling from various anatomical sites and by using several molecular and serological diagnostics methods to determine the presence of the SARS-CoV-2 virus.

Doel van het onderzoek

Secondary attack rates of SARS-CoV-2 will differ when stratified for the age of the index case.

Onderzoeksopzet

T1: Home visit within 24 hours after positive test of index case. At this time point we collect questionnaire, serum, naso- and oropharyngeal swabs, saliva and feces.
T2: Home visit 2-3 weeks after inclusion. Data that are collected include questionnaire, serum, swabs, saliva and feces.
T3: Home visit 4-6 weeks after inclusion. Collection of questionnaire, serum, saliva and feces.
T4: Self sampling 6 months after inclusion. Serum by self-sampling (finger prick) and questionnaire.
T5: home visit 9-10 months after inclusion. To collect questionnaire, serum and saliva samples.

Onderzoeksproduct en/of interventie

Not applicable

Contactpersonen

Publiek

National Institute for Public Health and the Environment (RIVM)
Inge Roof

+31629649396

Wetenschappelijk

National Institute for Public Health and the Environment (RIVM)
Inge Roof

+31629649396

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Any person 16 years and older testing positive for SARS-CoV-2 (index case) who had at least one child in their household below the age of 18 and consented to be contacted for scientific research. Every household contact (persons living in the same house as the index patient) was to be enrolled in the study.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Household contacts below the age of 1. Households were excluded if one or more of the household contacts did not want to participate in the study upfront.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd

Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving gestopt
(Verwachte) startdatum:	23-03-2020
Aantal proefpersonen:	250
Type:	Werkelijke startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies

Datum:	02-11-2021
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 54806
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL9850
CCMO	NL13529.041.06
OMON	NL-OMON54806

Resultaten

Samenvatting resultaten
https://pubmed.ncbi.nlm.nih.gov/33822007/