Chlamydia Incidence in Respiratory infeCtions sUrvey Study

Published: 04-03-2021
Last updated: 09-04-2024

in this study we aim to investigate incidence of eleven Chlamydia species in deep respiratory secretionss from patients with community acquired pneumonia. The additional value of faecal samples will be investigated. In addition, we aim to...

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Chlamydial infectious disorders
Study type	Observational invasive

Summary

ID

NL-OMON55017

Source
ToetsingOnline

Brief title
CIRCUS

Condition

- Chlamydial infectious disorders
- Respiratory tract infections

Synonym
Lung infection, Pneumonia

Research involving
Human

Sponsors and support

Primary sponsor: Zuyderland Medisch Centrum
Source(s) of monetary or material Support: 50-52200-98-815

Intervention

Keyword: Chlamydia, Incidence, Infection, Pneumonia

Outcome measures

Primary outcome

Primary: incidence of eleven Chlamydia species in deep respiratory secretions.

Secondary outcome

Secondary: incidence of eleven Chlamydia species faecal samples. Tertiary: level of agreement between between deep respiratory secretions and faecal samples. comparison between animal contact between patients with our without chlamydial infection. Comparison between patient characteristics of patients with or without chlamydial infection. Comparison between clinical outcomes of patients with or without chlamydial infection.

Study description

Background summary

The current world population is 7.8 billion as of January 2020 and is ever increasing. Due to this growing population, together with global warming, the risk of severe epidemics is rising. Most new epidemics are associated with an animal origin. As such, awareness of zoonotic diseases is highly important. Among the zoonotic respiratory infections, Chlamydiae are increasingly identified. Wherease C. psittaci and C. pneumoniae were already known, lately also C. gallinacea, C. avium and C. cavia have been involved in respiratory infections occasionally. Unfortunately, since the pathogens are not routinely tested, the incidence of these infections remains unclear.

Study objective

in this study we aim to investigate incidence of eleven Chlamydia species in deep respiratory secretionss from patients with community acquired pneumonia. The additional value of faecal samples will be investigated. In addition, we aim to characterize clinical patient factors and outcomes in these Chlamydia

infections.

Study design

Prospective cohort design. Adult patients are included when they present with community-acquired pneumonia (CAP) at the Emergency Department or Outpatient department and are admitted to the hospital.

Study burden and risks

in addition to routine clinical data, the patients will be questioned about animal contacts and they will be asked for collection of faecal samples.

Contacts

Public
Zuyderland Medisch Centrum

Henri Dunantstraat 5
Heerlen 6419PC
NL
Scientific
Zuyderland Medisch Centrum

Henri Dunantstraat 5
Heerlen 6419PC
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

- Adult
- Pneumonia defined by a new pulmonary infiltrate on chest radiograph described by the attending physician, in combination with at least two of the following criteria: cough, sputum production, temperature > 38.0 °C or < 35.0°C, auscultatory findings consistent with pneumonia, C-reactive protein concentration > 15 mg/l, and white blood cell count > 10 x 109 cells/l or < 4 x 109 cells/l or > 10% of rods in leukocyte differentiation.
- Active sputum production

Exclusion criteria

None

Study design

Design

Study type: Observational invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Diagnostic

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	21-04-2021
Enrollment:	408
Type:	Actual

Ethics review

Approved WMO

Date:	04-03-2021
Application type:	First submission

Review commission:	METC Z: Zuyderland-Zuyd (Heerlen)
Approved WMO Date:	11-08-2021
Application type:	Amendment
Review commission:	METC Z: Zuyderland-Zuyd (Heerlen)
Approved WMO Date:	07-10-2021
Application type:	Amendment
Review commission:	METC Z: Zuyderland-Zuyd (Heerlen)

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
CCMO	NL73844.096.20