# Resmon Pro Diary Pilot Study -Evaluation of Vivisol Service to remotely prevent COPD exacerbations

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Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Pulmonary vascular disorders
Study type	Interventional

# Summary

## ID

NL-OMON49847

**Source** ToetsingOnline

Brief title Resmon Pro Diary Pilot Study

# Condition

• Pulmonary vascular disorders

**Synonym** chronic bronchitis, emphysema

**Research involving** Human

# **Sponsors and support**

#### Primary sponsor: VIVISOL NL

Source(s) of monetary or material Support: VIVISOL Nederland draagt de kosten voor de pilot

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# Intervention

Keyword: COPD, MONITORING, Resmon, VIVISOL

### **Outcome measures**

#### **Primary outcome**

The goal is to define the best practices for the introduction of the home

monitoring with Resmon Pro Diary in the Dutch clinical practice.

#### Secondary outcome

Secondary objectives are:

To gain insight about:

- The quality of the data communication, and the information obtained
- The procedure: is it the ideal workflow to achieve the desired results?

# **Study description**

#### **Background summary**

The Netherlands has a high burden of Chronic Obstructive Pulmonary Disease (COPD) due to premature morbidity, loss of healthy life years, high mortality and high economic and societal costs. During the course of the disease it may happen that a general deterioration with an increase in symptoms occurs. This usually occurs due to a respiratory infection. This exacerbation can be characterized as mild, moderate or severe.

The exacerbation can lead to hospitalization. A severe exacerbation can have a slow recovery, may lead to a permanent impairment or decrease in FEV including a decline in QOL. In addition to these negative effects on the patient, exacerbations also increase the costs for the society. It is therefore of utmost importance to detect a possible exacerbation at an early stage so that with a timely intervention it is possible to avoid hospitalization.

Thanks to the Resmon Pro Diary it is now possible to early detect patient worsening, giving the physician the possibility to act efficiently in order to avoid the exacerbation or reduce its severity. It consists of a unit that is placed at the patient home, a 3G sim card and a data server that communicates with Vivisol.

Resmon PRO Diary is a device with which no treatment is given, it is intended

to monitor remotely COPD patients at home. Patients do not have to perform forced maneuvers. The patient only has to breathe through the device for 15 normal respiratory acts. The device automatically discards cough events and incorrect breaths. No supervision is needed after the first training. No risks or adverse effects were observed in previous studies.

#### Study objective

This pilot does not aim to demonstrate the effectiveness of the system. The effectiveness of the system has been demonstrated in the recently published study: Chromed study, a multi-center Randomized Controlled Study. This pilot aims to obtain information about how Vivisol's service with the Resmon Pro Diary is experienced in Dutch practice, by both the clinician/ health care providers and patients.

#### Study design

The study can be divided in the following steps:

1. The Hospital selects 3 COPD patients fulfilling the inclusion criteria.

2. The patient receives the outpatient information about the pilot study and signs an informed consent.

3. The patient is visited by Vivisol at home and hereby receives a Resmon Pro Diary.

4. Patient signs an agreement that Vivisol can monitor the data from the Resmon Pro Diary via telemonitoring.

5. Patient breathes normally every day for 15 respiratory acts in the Resmon Pro Diary. The test need to be done every day at the same time, for example before taking any medications.

6. The patient will respond to a questionnaire 3 weeks after the beginning of the pilot and again during the 3rd month of the trial. THe physician has to fill out a questionnaire 3 months after the start of the trial.

7. After 12 months, the pilot is terminated and Vivisol retrieves the Resmon Pro Diary.

8. At the end of the pilot the patient and physician has to fill out a brief questionnaire .

Three hospitals will be selected to participate in this pilot study. Each hospital will select 3 patients for this pilot study. The 9 patients will be in the study for 12 months.

#### Intervention

Patients have to breath normally in the Resmon Pro Diary 15 times a day. Vivisol will monitor the patient daily form a distance and will inform the physician as soon as the Resmon Pro Diary predicts an exacerbation. The physician is responsible for further follow-up with the patient.

#### Study burden and risks

Burden for the patient:

- Daily breathing in the Resmon Pro Diary (15 breaths 90 seconds every day )
- 3 questionnaires (total 10 minutes)

Risks: none

# Contacts

Public VIVISOL NL

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# **Trial sites**

# **Listed location countries**

Netherlands

# **Eligibility criteria**

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

# **Inclusion criteria**

COPD patients > 18 years old Belonging to Gold stages II, III or IV In the year prior to the pilot, at least one exacerbation that has led to a hospitalization.

### **Exclusion criteria**

All patients not covered by the inclusion criteria Patients who are unable or not willing to use the device autonomously

# Study design

### Design

Study type: Interventional	
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Prevention

### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	21-04-2021
Enrollment:	9
Туре:	Actual

### Medical products/devices used

Generic name:	Resmon Pro Diary
Registration:	Yes - CE intended use

# **Ethics review**

Approved WMODate:02-04-2020Application type:First submission

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# **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
ССМО	NL71753.075.19