# On demand prostacyclin inhalation in obstructive pulmonary disease and pulmonary hypertension

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
06/10/2009		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
11/11/2009	Completed	[X] Results		
<b>Last Edited</b> 25/02/2013	Condition category Respiratory	[] Individual participant data		

# Plain English summary of protocol

Not provided at time of registration

# Contact information

## Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

#### Protocol serial number

1.2

# Study information

#### Scientific Title

On demand prostacyclin inhalation in obstructive pulmonary disease and pulmonary hypertension: a single centre prospective randomised double-blind crossover study

#### Acronym

The OPTION pilot study

#### **Study objectives**

We hypothesise that inhalative iloprost improves the exercise capacity in chronic obstructive pulmonary disease (COPD) patients with secondary pulmonary hypertension (PH).

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Ethics Committee of Basel (Ethikkommission Beider Basel, Switzerland) approved on the 10th August 2009 (ref: EKBB 190/09)

#### Study design

Investigator driven single centre prospective randomised double-blind crossover study

### Primary study design

Interventional

#### Study type(s)

Treatment

## Health condition(s) or problem(s) studied

Chronic obstructive pulmonary disease (COPD) with secondary pulmonary hypertension

#### **Interventions**

In every of the three study visits the patient will inhale one of the following in a randomised manner prior to the exercise test:

- 1. 0.9% saline (2 ml)
- 2. 10 µg iloprost diluted in 0.9% saline (2 ml)
- 3. 20 µg iloprost diluted in 0.9% saline (2 ml)

All study visits have to be done on different days within one month.

## Intervention Type

Drug

#### Phase

Not Applicable

## Drug/device/biological/vaccine name(s)

lloprost

## Primary outcome(s)

Six-minute walking distance (6MWD) test, measured during the three study visits, after every inhalation.

## Key secondary outcome(s))

Measured during the three study visits, after every inhalation:

- 1. Oxygen consumption
- 2. Oxygen saturation
- 3. Ventilation
- 4. Carbon dioxide production
- 5. Arterial oxygen content
- 6. Alveolar-arterial gradient
- 7. BORG score

#### Completion date

01/11/2010

# **Eligibility**

#### Key inclusion criteria

- 1. Patients with diagnosed COPD (Global initiative for chronic Obstructive Lung Disease [GOLD] I
- 2. Confirmed disproportional pulmonary arterial hypertension (mean pulmonary artery pressure of over 45 mmHg during exercise and/or over 30 mmHg at rest)
- 3. Aged above 40 years, men and women

#### Participant type(s)

Patient

## Healthy volunteers allowed

No

#### Age group

Adult

#### Sex

Αll

#### Key exclusion criteria

- 1. Mental disorder preventing appropriate judgment concerning study participation
- 2. Significant comorbidity resulting in reduced life expectancy (lower than 6 months)
- 3. Significant exacerbation of COPD within the last month
- 4. Decompensated heart failure (left ventricular ejection fraction below 30%)
- 5. Present pulmonary embolism
- 6. PH explained by another cause than COPD
- 7. Pregnant and breastfeeding women

#### Date of first enrolment

01/10/2009

#### Date of final enrolment

01/11/2010

# Locations

#### Countries of recruitment

**Switzerland** 

Study participating centre Petersgraben 4

Basel Switzerland 4031

# Sponsor information

## Organisation

University Hospital Basel (Switzerland)

#### **ROR**

https://ror.org/04k51q396

# Funder(s)

# Funder type

Hospital/treatment centre

#### **Funder Name**

University Hospital Basel (Switzerland)

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type	Details	Date created Date added	Peer reviewed?	Patient-facing?
December and de-	results	04 /04/2042	V.	NI.

Results article 01/04/2012 Yes No

Participant information sheet 11/11/2025 No Yes