



Summary Participant Information Sheet (PIS)

Lung Immune Challenge Study: Controlled Exposure to Inhaled Resiquimod (R848) to Study Mechanisms of Inflammation



What is the study about?

The study aims to develop a new way of assessing inflammation in the lungs using a substance called Resiquimod that mimics a viral infection. It is based on an already established approach using a nasal spray. The aim is to understand why differences in immune responses occur between individuals, to help develop new treatments for lung disease.



How will the study be carried out?

Eligible participants will be enrolled into the study and randomly assigned to receive either Resiquimod or Saline (salty water) placebo. They will not be aware of what they have been assigned, to avoid bias when reporting symptoms. A small volume (1 mL) will be gently inhaled as a fine mist into the lungs via a mouthpiece. Symptoms and responses will be carefully assessed.



What will I be required to do for the study?

Potential volunteers aged 18 – 60 years who are healthy or have asthma will first be screened for eligibility for the study. We will then non-invasively collect blood and phlegm (sputum) samples. After they receive either saline or Resiquimod, volunteers will be asked to report any symptoms. The team will record their vital signs, airway function, and collect samples.



How much time will it take?

The initial screening visit will take approximately 3 hours. If eligible for the study, the total duration of the study is approximately one week. This will involve an overnight stay during the first visit. There are two further visits at day 2 and day 7, which will take approximately 1 hour each. There is remuneration of £200 available for the time that you give for the study.



Where will the study be performed and how can I get there?

The study will be performed in the Cambridge Clinical Research Facility within Addenbrooke's Hospital. It is easily accessible via public transport routes and by car. Reasonable expenses to cover travel to the research site will be provided. During the overnight stay, all meals and refreshments will also be provided at the Clinical Research Facility.



How can I find out more about the study?

Please visit www.lungchallenge.org.uk or email cuh.lungchallenge@nhs.net for further information and to receive a full participant information sheet.