



**Study Title:** An investigation into new measures of lung function  
**Ethics Ref:** 17/SC/0172  
**Chief Investigator:** Dr Nick Talbot ([Nick.Talbot@dpag.ox.ac.uk](mailto:Nick.Talbot@dpag.ox.ac.uk))

## Study Invitation Letter

Hello,

You are being invited to take part in a research study. Our research team at the University of Oxford is running a study designed to help develop new methods for assessing lung function. In the future, these methods may be useful for assessing patients with lung disease or suspected lung disease. We are particularly interested in the effect of smoking on these new measures of lung function.

We are looking for current smokers without a diagnosis of any lung disease (e.g. asthma or COPD). We will also be looking to study non-smokers without lung disease.

If you take part, you would be asked to perform four simple breathing tests:

- **Spirometry** – a forced breath out as hard as you can manage
- **Oscillometry** – 30 seconds of relaxed breathing wearing a nose-clip
- **End-tidal nitric oxide** – an extended breath out at a steady speed
- **New lung function test** – 12 minutes of relaxed breathing through a mouthpiece whilst wearing a noseclip, breathing air and oxygen

You would also be asked to give us some information about your smoking history, any medications or respiratory symptoms. Finally, you would be asked whether you are willing to give a blood sample.

These tests can all be performed during a single visit which would be at the John Radcliffe Hospital or at the University of Oxford's Department of Physiology, Anatomy and Genetics.

Participants are paid £10 per hour for their time, and we reimburse reasonable travel expenses.

If you're interested in taking part, or would like further details, please contact a member of the study team:

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We'd love to hear from you!

Measurement of novel indices of lung function in respiratory disease.  
Adult Invitation letter v 1.0 (10Sep 2023). IRAS ref. 208382.  
Chief Investigator: Dr Nick Talbot