

# Understanding chronic cough

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<b>Registration date</b> 07/04/2011	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 08/02/2017	<b>Condition category</b> Respiratory	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**Protocol serial number**  
Version 2.0

## Study information

**Scientific Title**  
Comparing Capsaicin Dose-Response Curves

**Acronym**  
DRC

**Study objectives**

The shape of capsaicin dose-response curves differ:

1. In healthy volunteers, asthmatics and patients with chronic cough
2. In men and women

These differences may provide insights into important mechanisms that lead to excessive coughing.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

North West 7 Research Ethics Committee - Greater Manchester Central approved 19/10/2010

**Study design**

Randomised controlled trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Chronic cough

**Interventions**

Two capsaicin cough challenge tests performed:

1. Increasing doses are inhaled up to maximum tolerated dose
2. Doses are inhaled in a random order
3. Number of coughs and urge-to-cough intensity recorded

**Intervention Type**

Other

**Phase**

Not Applicable

**Primary outcome(s)**

Comparison of maximum cough responses between patient groups

**Key secondary outcome(s))**

1. Comparison of cough threshold between patient groups
2. Comparison of urge-to-cough threshold between patient groups
3. Comparison of maximum cough responses and cough threshold in men and women

**Completion date**

31/07/2010

**Eligibility**

**Key inclusion criteria**

Healthy volunteers

1. Over 18 years old
2. Normal lung function
3. No current or past history of chronic cough or chronic respiratory illness
4. No current or past history of chronic pain, irritable bowel syndrome or chronic headaches
5. No current or past history of psychiatric illness

Asthmatics

1. Over 18 years old
2. Physician diagnosis of asthma
3. Objective evidence of bronchial hyper-reactivity (either positive bronchial provocation test or significant (>12%) reversibility in FEV1 following inhaled bronchodilator)
4. Stable asthma [forced expiratory volume in one second (FEV1) > 75% predicted, no acute exacerbations requiring oral corticosteroids within last 4 weeks]
5. Can safely omit long-acting bronchodilators (if taking)

Chronic Cough Patients

1. Over 18 years old
2. Chronic cough, defined as a cough lasting longer than 8 weeks despite investigation and/or treatment trials for cough variant asthma, post-nasal drip and gastro-oesophageal reflux disease
3. Normal chest x-ray
4. Normal lung function
5. Can safely omit long-acting bronchodilators (if taking)

**Participant type(s)**

Healthy volunteer

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

All participants:

1. Recent upper respiratory tract infection (< 4weeks)
2. Pregnancy or breast-feeding
3. Use of angiotensin converting enzyme (ACE) inhibitors
4. Any centrally acting medication which could alter the sensitivity of the cough reflex
5. History of drug or alcohol abuse
6. Current smoker or ex-smoker with > 10 pack year smoking history

**Date of first enrolment**

01/11/2009

**Date of final enrolment**

31/07/2010

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**North West Lung Research Centre**

Manchester

United Kingdom

M23 9LT

## Sponsor information

**Organisation**

University Hospitals South Manchester NHS Trust (UK)

**ROR**

<https://ror.org/00he80998>

## Funder(s)

**Funder type**

Research council

**Funder Name**

Medical Research Council (MRC) (UK) (ref: G0900449)

## 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?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes