Can we reduce antibiotics in COPD?

Targeting antibiotics for chronic obstructive pulmonary disease - getting antibiotics to the people who need them



Key message: A simple blood test in GP surgeries can help ensure we only prescribe antibiotics for COPD patients who really need them.

Why do the PACE study?

- 2/3 of flare ups not caused by bacterial infection. Antibiotics often do not benefit patients
- To test whether a quick fingerprick CRP blood test at GP surgeries could help GPs safely reduce antibiotic use for COPD flares
- C-reactive protein (CRP) is a protein found in blood that increases rapidly when the body is experiencing a serious bacterial infection
- People who have a flare of their COPD and a low CRP level probably do not benefit from antibiotics
- The first randomised controlled trial to address the question of whether measuring CRP with a point of care test in people with AECOPD in primary care could lead to fewer antibiotics being used without having negative effects for patients

Results of the study

Using the CRP fingerprick test at the point of care safely reduces antibiotic use for COPD flare ups.

in this way may help in the battle



Background

- People with COPD often experience flare-ups
 - Symptoms of flare-ups include: breathlessness, coughing, and phlegm
- Flare-ups can be triggered by bacterial or viral infections, and other factors
- Majority of people who see their GP with a flare of COPD are given antibiotics
- To test whether a quick fingerprick CRP blood test at GP surgeries could help GPs safely reduce antibiotic use for COPD flare-ups

What was learnt about the CRP test?



This study was a collaboration between Cardiff University, Oxford University and King's College London. Led by co-chief investigators Professor Nick Francis from Cardiff University and Professor Chris Butler from the University of Oxford. Funded by the National Institute of Health Research Health Technology Assessment Programme. www.pace-study.co.uk

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