

Reason For Antibiotic according to ERS-ESCMID guideline recommendation	Guideline populations for antibiotic treatment
	Data available in case report form (CRF) or diary in the GRACE study
Suspected or definite pneumonia	Must have <b>Acute Cough</b> and one of:
	Cough - present on the day of inclusion
	<b>1. New Focal Chest Sign</b>
	Diminished Vesicular Breathing - present on the day of inclusion
	Crackles - present on the day of inclusion
	Rhonchi - present on the day of inclusion
	<b>2. Dyspnoea</b>
	Shortness of breath - present on the day of inclusion
	<b>3. Tachypnoea</b>
	Respiratory rate (breaths per minute) - more than 20 per minute
	<b>4. Fever Lasting 4 days</b>
	How many days were you unwell before you saw your GP or nurse for this cough? - minimum 4 days
Temperature recorded using a disposable thermometer - more than 37.8°C	
Selected exacerbations of COPD	Must have <b>Chronic Obstructive Pulmonary Disease (COPD)</b> and all of:
	COPD - present on the day of inclusion
	<b>1. Increased dyspnoea</b>
	Shortness of breath - present on the day of inclusion
	<b>2. Increased sputum volume</b>
	Phlegm production - present on the day of inclusion
	<b>3. Increased sputum purulence</b>
	If producing phlegm, what colour? - Colour is yellow, green or bloodstained
<b>Or Severe COPD</b>	
Pulse Oximetry (% saturation) - less than 90%	
Aged 75 yrs and fever	Must have <b>Aged over 75 years</b>
	Age - over 75 years
	<b>and Fever</b>
	Temperature recorded using a disposable thermometer - more than 37.8°C
Cardiac Failure	<b>Cardiac Failure</b>

	Heart Failure - present on the day of inclusion
Insulin-dependent diabetes mellitus	<i>Insulin-dependent diabetes mellitus</i>
	Diabetes - present on the day of inclusion
	Insulin - present on the day of inclusion
Serious Neurological Disorder	<i>Serious Neurological Disorder</i>
	n/a

**Table 1 online - Comparison of the ERS-ESCMID guideline recommendations for antibiotic prescription for lower respiratory tract infections (LRTI) and corresponding information collected in the GRACE\* study**

\* Genomics to combat Resistance against Antibiotics in Community-acquired LRTI in Europe ([www.grace-lrti.org](http://www.grace-lrti.org))