

Title	Community Acquired Pneumonia
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Equality & Diversity Impact Assessed	-

This guideline applies to community-acquired pneumonia only.

Hospital acquired infections have a different history and aetiology therefore should be managed accordingly.

This document has been adapted from the BTS community acquired pneumonia guideline with local antibiotic guideline advice.

Pneumonia Definition

Symptoms and signs consistent with an acute lower respiratory tract infection associated with new radiographic shadowing for which there is no other explanation.

This should be clearly differentiated from infective exacerbations of COPD where the CXR is often 'normal'.

History and Examination

Symptoms: Malaise, fever, rigors, myalgia

Dyspnoea, chest pain, cough, sputum, wheeze

Signs: Cyanosis

Focal chest signs Herpes labialis Tachypnoea Tachycardia

<u>Immediate Investigations:</u>

ABG (record FiO₂) in patients with SaO₂ <92%

CXR

FBC/U&E/LFT

CRP

REMEMBER SEPSIS 6!

Micro: Blood cultures

Sputum MC&S

Pleural fluid if available for MC&S and inoculate into blood

culture bottles

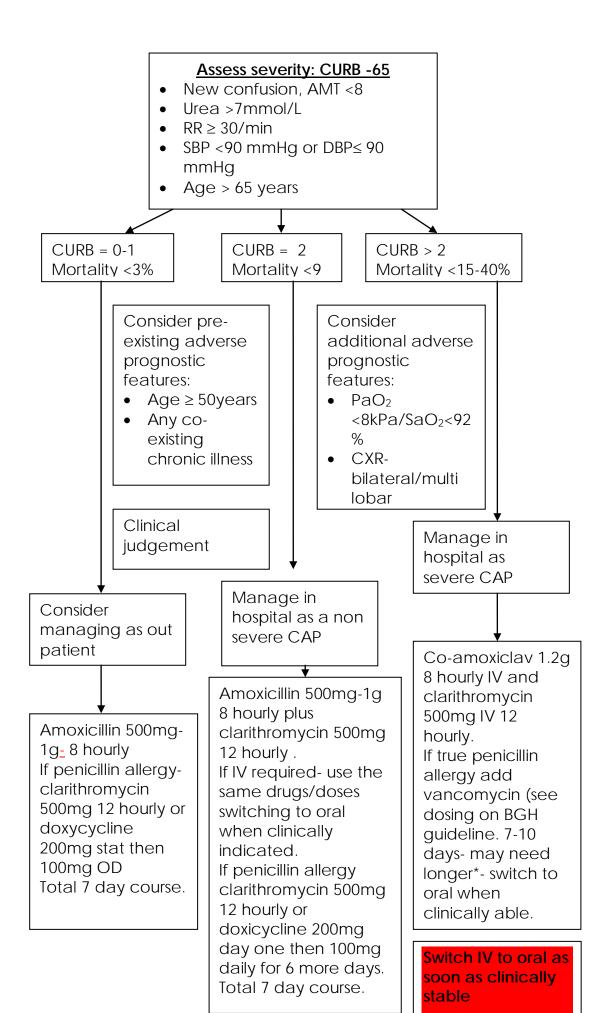
In selected patients: e.g. history of travel, admission to ITU

Legionella antigen in urine Legionella antibody in blood

Throat swab for respiratory viruses and Mycoplasma

Likely organisms:

Streptococcus pneumoniae Legionella pneumophilia Mycoplasma pneumoniae Chlamydia pneumoniae Coxiella burnetti Staphlococcus aureus Haemophilus influenzae Respiratory Syncitial Virus Influenza Et al



General management:

Oxygen: Prescribe oxygen where necessary aiming for a target

saturation of 94-98% as per the emergency oxygen

guideline.

Caution in COPD patients and target saturation may be

set lower at 88-92%.

Intravenous fluids:

Assess patients for volume depletion and prescribe IV fluids where necessary.

Nutritional Support:

Consider in prolonged illness.

DVT prophylaxis:

Subcutaneous low molecular weight heparin should be used in all in patients unless contra-indicated.

Physiotherapy:

In patients should be assessed by physiotherapy to aid sputum clearance as appropriate.

Parenteral v oral treatment

Follow guideline as per flow chart, using IV medication where the CURB score is > 2, impaired consciousness, poor/loss of swallow reflex or functional/anatomical reasons for malabsorption.

Switch from IV antibiotics as soon a clinical improvement occurs.

Pointers to clinical improvement:

- Resolution of fever > 24hours
- Pulse rate <100bpm
- Resolution of tachpnoea
- Clinically hydrated
- Resolution of hypotension
- Absence of hypoxia
- Improving WCC
- Non-bacteraemic infection
- No microbiological evidence of leigionella, staphylococcal or gram negative enteric bacilli infection
- No concern regarding GI absorption

NB: Haematology/neutropaenic patients should follow the neutropaenic protocol regimen.

Duration of treatment:

Non severe CAP 7 days
Severe CAP 7-10 days
'Atypical pathogen' 14 days
Legionella infection 14-21 days
Staphlococcal infection 14-21 days
Gram negative enteric bacilli 14-21 days

Management

CAP CURB 0-1:

- Oral antibiotics as per protocol.
- Usually can be managed in the community
- Follow-up CXR 4-6 weeks to ensure resolution.

CAP CURB 2+:

- Oral or IV antibiotics as per protocol.
- Ensure adequately resuscitated.
- Involve critical care outreach/ITU as appropriate.
- NIV is generally not suitable for patients with pneumonia as the consolidated lung is stiff and poorly compliant.
- Monitor for complications such as parapneumonic effusion or empyema.
- Follow up CXR in 4-6 weeks to ensure resolution.

Local Antimicrobial policy link:

intranet/new intranet/microsites/index.asp?siteid=423&uid=8

BTS Guideline link:

www.brit-thoracic.org.uk/clinical-information/pneumonia/pneumoniaguidelines.aspx

^{*}If in doubt discuss with Consultant/microbiology.