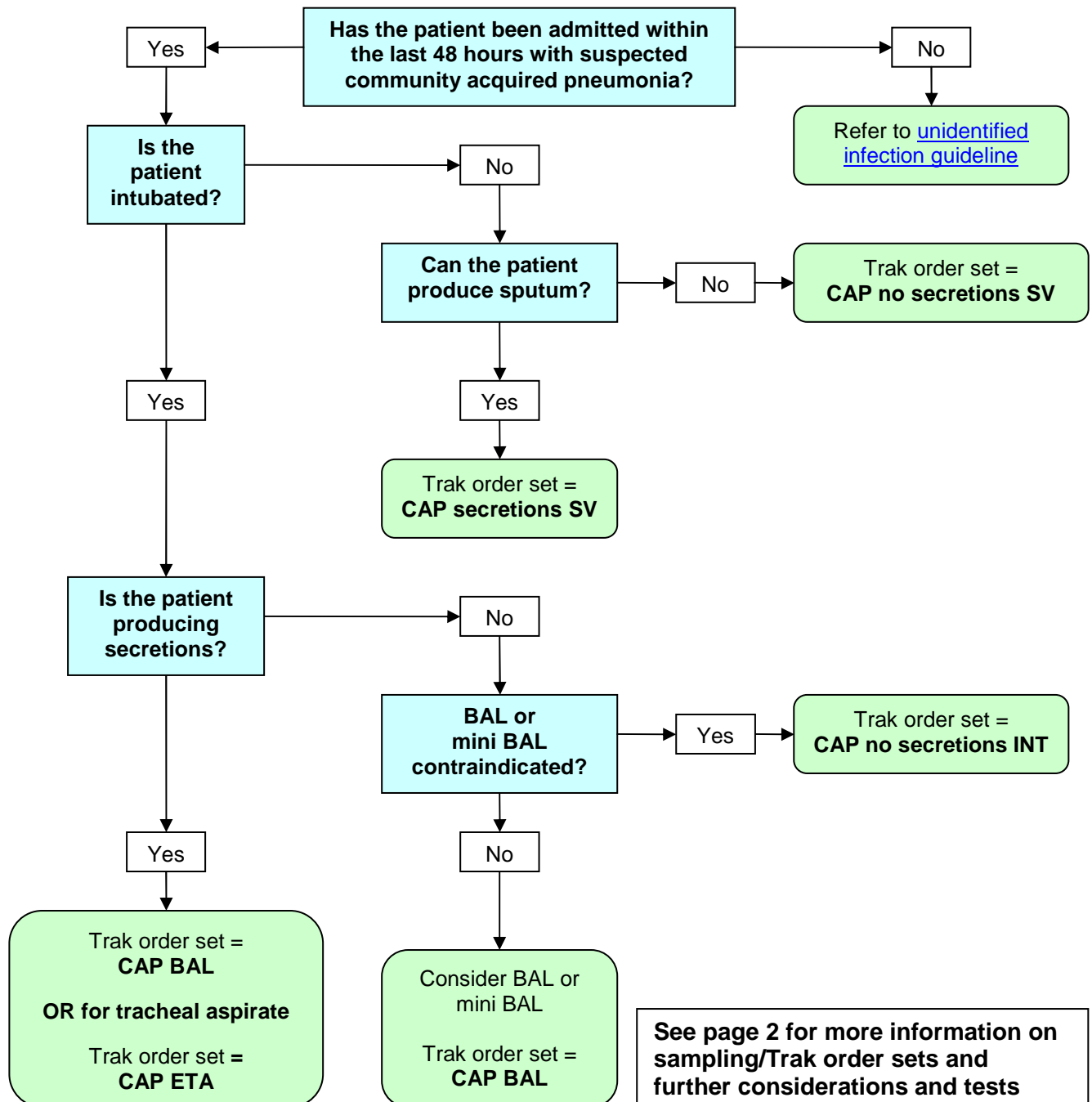


## Investigations required for Community Acquired Pneumonia (CAP)

Specimens to be sent to the microbiology laboratory in patients admitted with community acquired pneumonia.

**Cultures should ideally be taken prior to starting antimicrobials.**



<b>Title:</b> Investigation checklist for Community Acquired Pneumonia	
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Critical Care Guidelines  
FOR CRITICAL CARE USE ONLY

## Considerations

<b>PJP testing</b>	In severe CAP especially when patients are immunosuppressed ➤ PJP must be stated as potential pathogen in TRAK request clinical information section.
<b>Legionella, Severe Acute Respiratory Infection, MERS Co-V</b>	Send a deep respiratory specimen e.g. tracheal secretions or BAL or mini BAL or induced sputum.
<b>Travel history</b>	Contact microbiology if recent foreign travel, as some areas are high risk for antibiotic resistance If recently in hotel or holiday resort consider Legionella
<b>Occupational history</b>	Gardening ( <i>Legionella longbeacheae</i> ) Sheep farmer or abattoir worker (Q-fever) ➤ For Q fever send EDTA blood sample for PCR Working with birds ( <i>Chlamydophila</i> Spp.) ➤ If <i>Chlamydophila</i> spp are suspected this must be stated as a potential pathogen in the Trak clinical infection section
<b>Immunosuppression</b>	PJP, cytomegalovirus, aspergillus and mycobacteria ➤ Send BAL or induced sputum ➤ Specifically request on Trak and label specimens for these tests
<b>Anti-streptolysin O titres</b>	In the absence of positive results, consider convalescent sample 7-10 or more days after symptom onset

## Sampling

Trak Order Set	Trak Order Items	Choose site if applicable
<b>CAP no secretions SV</b>	Legionella antigen test (urine)*	
	Swab for Respiratory Viruses	Throat swab
	Blood Culture Ix - ADULT ONLY	Peripheral
	HIV Ag/Ab Antibody screen	
<b>CAP secretions SV</b> (no need to send urine for Legionella)	C&S - Respiratory (Routine Bacteriology)	Sputum
	Secretions non-bal sep09	Sputum
	Blood Culture Ix - ADULT ONLY	Peripheral
	HIV Ag/Ab Antibody screen	
<b>CAP no secretions INT</b>	Legionella antigen test (urine)*	
	Swab for Respiratory Viruses	Throat swab
	Blood Culture Ix - ADULT ONLY	Peripheral
	HIV Ag/Ab Antibody screen	
<b>CAP BAL</b> (no need to send urine for Legionella)	C&S –Respiratory (BAL/Bronchial washings)**	BAL/bronchial washings/mini BAL
	Secretion BAL: resp cmv hsv	BAL/bronchial washings/mini BAL
	Blood Culture Ix - ADULT ONLY	Peripheral
	HIV Ag/Ab Antibody screen	
<b>CAP ETA</b> (no need to send urine for Legionella)	C&S - Respiratory (Routine Bacteriology)	Tracheal aspirate
	Secretions non-bal sep09	Tracheal aspirate
	Blood Culture Ix - ADULT ONLY	Peripheral
	HIV Ag/Ab Antibody screen	

\*If it is not possible to obtain deep respiratory samples for PCR **Legionella antigen test (urine)** must be specifically requested by phoning molecular lab triage on X26019 between 0900 and 1700

\*\***Bronchial washings** inform Biomedical Scientist X26021 (or bleep 2900 between 2000-0800). Send to lab with a porter (no tube system). Request urgent quantitative culture set up and assistance with triage for other tests.