

Table 8. Epidemiologic conditions and/or risk factors related to specific pathogens in community-acquired pneumonia.

| Condition | Commonly encountered pathogen(s) |
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| Alcoholism | <i>Streptococcus pneumoniae</i> , oral anaerobes, <i>Klebsiella pneumoniae</i> , <i>Acinetobacter</i> species, <i>Mycobacterium tuberculosis</i> |
| COPD and/or smoking | <i>Haemophilus influenzae</i> , <i>Pseudomonas aeruginosa</i> , <i>Legionella</i> species, <i>S. pneumoniae</i> , <i>Moraxella cararrhialis</i> , <i>Chlamydophila pneumoniae</i> |
| Aspiration | Gram-negative enteric pathogens, oral anaerobes |
| Lung abscess | CA-MRSA, oral anaerobes, endemic fungal pneumonia, <i>M. tuberculosis</i> , atypical mycobacteria |
| Exposure to bat or bird droppings | <i>Histoplasma capsulatum</i> |
| Exposure to birds | <i>Chlamydophila psittaci</i> (if poultry: avian influenza) |
| Exposure to rabbits | <i>Francisella tularensis</i> |
| Exposure to farm animals or parturient cats | <i>Coxiella burnetti</i> (Q fever) |
| HIV infection (early) | <i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>M. tuberculosis</i> |
| HIV infection (late) | The pathogens listed for early infection plus <i>Pneumocystis jirovecii</i> , <i>Cryptococcus</i> , <i>Histoplasma</i> , <i>Aspergillus</i> , atypical mycobacteria (especially <i>Mycobacterium kansasii</i>), <i>P. aeruginosa</i> , <i>H. influenzae</i> |
| Hotel or cruise ship stay in previous 2 weeks | <i>Legionella</i> species |
| Travel to or residence in southwestern United States | <i>Coccidioides</i> species, <i>Hantavirus</i> |
| Travel to or residence in Southeast and East Asia | <i>Burkholderia pseudomallei</i> , avian influenza, SARS |
| Influenza active in community | Influenza, <i>S. pneumoniae</i> , <i>Staphylococcus aureus</i> , <i>H. influenzae</i> |
| Cough >2 weeks with whoop or posttussive vomiting | <i>Bordetella pertussis</i> |
| Structural lung disease (e.g., bronchiectasis) | <i>Pseudomonas aeruginosa</i> , <i>Burkholderia cepacia</i> , <i>S. aureus</i> |
| Injection drug use | <i>S. aureus</i> , anaerobes, <i>M. tuberculosis</i> , <i>S. pneumoniae</i> |
| Endobronchial obstruction | Anaerobes, <i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>S. aureus</i> |
| In context of bioterrorism | <i>Bacillus anthracis</i> (anthrax), <i>Yersinia pestis</i> (plague), <i>Francisella tularensis</i> (tularemia) |