



Epidemiology and Historical Features Associated with Common and Uncommon Pathogens

Epidemiologic and Historical Features	Associated Pathogens
Alcoholism	<i>Streptococcus pneumoniae</i> (including DRSP), anaerobes, gram-negative bacteria (including <i>K. pneumoniae</i>)
Chronic obstructive pulmonary disease/smoker	<i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>Moraxella catarrhalis</i> , <i>Legionella</i>
Nursing home residency	<i>S. pneumoniae</i> , gram-negative bacteria, <i>H. influenzae</i> , <i>S. aureus</i> , anaerobes, <i>C. pneumoniae</i>
Poor dental hygiene	Anaerobes
Epidemic Legionnaire's disease	<i>Legionella</i> species
Exposure to bats	<i>Histoplasma capsulatum</i>
Exposure to birds	<i>Chlamydia psittaci</i> , <i>Cryptococcus neoformans</i> , <i>H. capsulatum</i>
Exposure to rabbits	<i>Francisella tularensis</i>
Travel to southwestern U.S.	Coccidioidomycosis
Travel to Southeast Asia	<i>M. tuberculosis</i> , melioidosis (<i>Burkholderia pseudomallei</i>)
Exposure to farm animals or parturient cats	<i>Coxiella burnetii</i> (Q fever)
Influenza active in community	Influenza, <i>S. pneumoniae</i> , <i>S. aureus</i> , <i>H. influenzae</i>
Suspected large volume aspiration	Anaerobes, chemical pneumonitis, or obstruction
Structural disease of lung (bronchiectasis, cystic fibrosis, etc.)	<i>P. aeruginosa</i> , <i>P. cepacia</i> , or <i>S. aureus</i>
Injection drug use	<i>S. aureus</i> , anaerobe, tuberculosis
Recent antibiotic therapy	Drug-resistant pneumococci, <i>P. aeruginosa</i>
Age ≥65 years	Drug-resistant pneumococci, enteric gram-negative bacteria, tuberculosis
Underlying chronic heart and lung disease	Pneumococcus, enteric gram-negative bacteria, <i>H. influenzae</i>
Endobronchial obstruction	Anaerobes
Recent viral infection, especially influenza	Pneumococcus, <i>H. influenzae</i> , <i>S. aureus</i> (including methicillin-resistant strains)
Health care-associated pneumonia risk factors	Multidrug-resistant gram negatives, methicillin-resistant <i>S. aureus</i>
Bioterrorism attack suspected	Anthrax, smallpox, pneumonic plague

DRSP = drug-resistant *Streptococcus pneumoniae*.

Table from *Physicians' Information and Education Resources (PIER), Community Acquired Pneumonia* module.