

Supplementary Table S1. Methodology and patient demographics of studies included in the review.

Reference	Country; region	Study method	Study period	Population	Age (yrs [mean±SD])	Definition of CAP
Almirall 2008 [36]	Spain; east coast	Multicentre, prospective, population-based, case-control study	1 Nov 1999–30 Nov 2000	Primary care patients >14 yrs Cases, n=1336 Controls, n=1326	Cases: Male, 58.6±19.8; Female, 54.6±20.7 Controls: Male, 58.9±19.6; Female, 54.6±20.6	Chest X-ray confirmed
Almirall 2010 [37]	Spain; east coast	Multicentre, prospective, regional, population-based, observational case-control study	1 Nov 1999–30 Nov 2000	Primary care patients >14 yrs with chronic bronchitis, COPD or asthma requiring inhaled therapy Cases, n=473 Controls, n=235	Cases, 59.6±20.0 Controls, 60.9±20.7	Chest X-ray confirmed
Almirall 2013 [12]	Spain; Mataró	Single-centre, prospective, observational, case-control study	Feb 2008–Feb 2010	Patients ≥70 yrs with CAP requiring hospitalisation Cases, n=36 Controls, n=72	Cases, mean±SEM 81.22±0.77 Controls, mean±SEM 81.21±0.53	Chest X-ray confirmed and bacteriological identification
Bénard 2010 [24]	France; Aquitaine	Multicentre, prospective, cohort study	2000–2007	Patients with HIV, n=3336; 135 with bacterial pneumonia	Median, 39.6 [IQR 34.5–46.0]	Chest X-ray confirmed and bacteriological identification or successful antibacterial treatment
Bewick 2012 [38]	UK; Nottingham	Two-centre, prospective, observational cohort study	Sept 2008–Sept 2010	Patients ≥16 yrs hospitalised with CAP, n=920 (5.5% nursing home residents); 366 with pneumococcal pneumonia (6.8% nursing home residents)	Median, 71.7 [IQR 57.8–80.8]	Chest X-ray confirmed
Cabre 2010 [13]	Spain; Mataró	Single-centre, prospective, observational study	Jan 2001–Aug 2005	Patients ≥70 yrs with CAP requiring hospitalisation, n=134 (32% nursing home residents)	84.51±6.8	Chest X-ray confirmed
Carratalà 2007 [39]	Spain; Barcelona	Single-centre, prospective, observational study	1 Jan 2001–31 Dec 2004	Adult patients with CAP requiring hospitalisation, n=601	63.7±17.1	Chest X-ray confirmed
Che 2008 [30]	France; metropolitan	Multicentre, prospective, population-based, case-	1 Sept 2002–31 Sept 2004	Patients with sporadic Legionnaires' disease	57 [range, 18–93]	Chest X-ray confirmed and laboratory evidence

Reference	Country; region	Study method	Study period	Population	Age (yrs [mean±SD])	Definition of CAP
		control study		Cases, n=546 Controls, n=546		of <i>Legionella pneumophila</i> infection
Chidiac 2012 [31]	France; metropolitan	Multicentre, prospective, observational, cohort study	1 April 2006–30 June 2007	Patients hospitalised with community-acquired Legionnaires' disease, n=540	60 [range, 17–100]	Chest X-ray confirmed and laboratory evidence of <i>Legionella pneumophila</i> infection
Cillóniz 2011 [40]	Spain; Barcelona	Single-centre, prospective, observational cohort study	Jan 2003–Dec 2010	Patients with CAP admitted to ICU, n=362	63.4±16.5	Chest X-ray confirmed
Cillóniz 2012 [41]	Spain; Barcelona	Single-centre, prospective, observational cohort study	2001–2009	Adult patients hospitalised with pneumococcal pneumonia, n=626	63.6±18.9 46% ≤65 yrs	Clinical symptoms, chest X-ray confirmed and microbiological data
Curran 2008 [25]	Spain; Barcelona	Single-centre, prospective, observational cohort study	Jan 2000–Dec 2005	HIV patients ≥18 yrs hospitalised with bacterial pneumonia, n=161; 186 episodes	39.7±7.8	Clinical symptoms, chest X-ray confirmed and response to antibacterial therapy
de Roux 2006 [10]	Spain; Barcelona	Single-centre, prospective, observational cohort study	Oct 1996–Nov 2001	Patients hospitalised with CAP, classified according to alcohol abuse status Current, n=128 Former, n=54 None, n=1165	Current alcohol abuse, 58±14 Former alcohol abuse, 71±11 No alcohol abuse, 68±19	Clinical symptoms, chest X-ray confirmed and microbiological data
Ewig 2009 [42]	Germany; national (BQS)	Retrospective, observational study	2005 and 2006	Patients hospitalised with CAP, n=388,406	2005, 71.94±16.86 2006, 72.09±17.00 [Median, 2005 & 2006, 76 (IQR, 2005, 20; 2006, 19)]	ICD-10 (German modification) codes
Falguera 2009 [43]	Spain; Catalonia	Two-centre, prospective, observational cohort study	Jan 1995–Dec 2005	Patients ≥18 yrs hospitalised with CAP, n=3272; 61 with Gram-negative infections; 3211 with non-Gram-negative infections	64 [range, 18–100] Gram-negative infections, 69 Non-Gram-negative infections, 63	Clinical symptoms, chest X-ray confirmed and microbiological data
García-Vidal 2009 [44]	Spain; Barcelona	Single-centre, prospective, observational cohort study	1 Jan 1995–31 Dec 2005	Patients hospitalised with CAP, n=1556; 146 with recurrent CAP (≥2 episodes of CAP in 3 yrs with asymptomatic period ≥1 month); 1410 with non-recurrent CAP	Recurrent CAP, 70.96±13.824 Non-recurrent CAP, 65.03±16.573	Clinical symptoms, chest X-ray confirmed and microbiological data

