

Trends in Pneumonia Mortality Rates and Hospitalizations by Organism, United States, 2002–2011

Technical Appendix

Technical Appendix Table 1. Hospitalization rate per 100 000 population by organism and age, (adjusted odds ratio, 95% CI); United States, 2002–2011

Age, y	<i>Pneumococcus</i>	<i>Klebsiella</i> spp.	<i>Pseudomonas</i> spp.	<i>Haemophilus influenzae</i>	<i>Staphylococcus aureus</i>	Influenza virus
18–24	2.1 (1)	0.3 (1)	4.5 (1)	0.2 (1)	2.9 (1)	3.9 (1)
25–34	3.8 (1.44, 1.40–1.48)	0.4 (1.14, 1.05–1.24)	3.3 (0.59, 0.57–0.60)	0.3 (1.15, 1.05–1.26)	3.6 (0.99, 0.97–1.02)	4.4 (0.88, 0.86–0.90)
35–44	7.2 (3.17, 3.09–3.26)	0.9 (2.92, 2.71–3.15)	3.4 (0.68, 0.66–0.70)	0.7 (2.84, 2.62–3.08)	5.9(1.88, 1.84–1.93)	5.3 (1.28, 1.25–1.31)
45–54	13.4 (4.64, 4.52–4.76)	2.7 (6.83, 6.37–7.33)	6.9 (1.05,1.03–1.07)	1.8 (5.62, 5.21–6.07)	13.3 (3.31, 3.24–3.39)	8.3 (1.62, 1.59–1.66)
55–64	21.7 (5.17, 5.04–5.30)	5.9 (10.21, 9.52–10.94)	16.7(1.74,1.71–1.78)	4.2 (9.05, 8.39–9.76)	27.1 (4.62, 4.52–4.73)	11.4 (1.54, 1.50–1.57)
65–74	38.9 (5.28, 5.15–5.42)	13.5 (13.29,12.40–14.24)	42.5 (2.53, 2.49–2.58)	10.2 (12.41, 11.51–13.37)	62.5 (6.08, 5.95–6.21)	21.7 (1.65, 1.62–1.69)
75–84	59.2 (5.17, 4.99–5.25)	22.3 (14.15, 13.20–15.16)	65.9 (2.55, 2.50–2.59)	16.9 (13.18, 12.2–14.2)	122.6 (7.69, 7.52–7.86)	45.5 (2.17, 2.13–2.22)
85–94	85.2 (5.49, 5.35–5.64)	31.5 (15.18, 14.15–16.27)	69.9 (2.06,2.02–2.10)	22.5 (13.01,12.06–14.03)	190.4 (9.03, 8.83–9.23)	82.1 (2.87, 2.81–2.93)
≥95	95.7 (7.19,6.92–7.47)	32.2 (18.52, 17.02–20.16)	46.8 (1.65, 1.58–1.73)	20.4(13.70,12.43–15.10)	171.1 (9.61, 9.32–9.91)	85.0 (3.37, 3.25–3.49)

Technical Appendix Table 2. All-cause case-fatality rate per 100 population by organism and age (adjusted odds ratio, 95% CI),United States, 2002–2011

Age, y	<i>Pneumococcus</i>	<i>Klebsiella</i> spp.	<i>Pseudomonas</i> spp.	<i>Haemophilus influenzae</i>	<i>Staphylococcus aureus</i>	Influenza virus
18–24	1.7 (1)	10.0 (1)	3.6 (1)	1.3 (1)	4.0 (1)	1.6 (1)
25–34	2.4 (1.48, 1.19–1.85)	9.0 (0.88, 0.67–1.18)	5.3 (1.51, 1.34–1.69)	1.5 (1.12, 0.51–2.43)	6.6 (1.73, 1.52–1.96)	2.2 (1.41, 1.18–1.69)
35–44	3.5 (2.13, 1.74–2.61)	8.8 (0.88, 0.68–1.13)	7.3 (2.08, 1.87–2.32)	3.2 (2.54, 1.29–4.99)	8.1 (2.15, 1.91–2.42)	1.8 (1.13 ,0.95–1.35)
45–54	4.9 (3.04, 2.49–3.70)	11.2 (1.14, 0.90–1.45)	10.3 (3.06, 2.77–3.38)	3.3 (2.57, 1.33–4.96)	10.4 (2.82, 2.52–3.15)	2.8 (1.83 ,1.56–2.14)
55–64	5.5 (3.47, 2.85–4.22)	12.2 (1.25, 0.99–1.58)	11.6 (3.51, 3.19–3.86)	3.5 (2.75, 1.44–5.29)	13.0 (3.64, 3.26–4.07)	3.0 (1.94 ,1.66–2.27)
65–74	6.7 (4.28, 3.52–5.21)	13.4 (1.39, 1.10–1.75)	12.9 (3.94, 3.59–4.33)	4.0 (3.20, 1.67–6.13)	15.3 (4.40, 3.95–4.91)	3.2 (2.08 ,1.78–2.43)
75–84	8.2 (5.34, 4.40–6.49)	16.4 (1.75, 1.39–2.20)	13.9 (4.30, 3.92–4.71)	6.0 (4.93, 2.58–9.42)	18.5 (5.56, 4.99–6.20)	3.8 (2.53 ,2.17–2.94)
85–94	11.6 (7.85, 6.45–9.55)	18.7 (2.06, 1.64–2.60)	15.8 (5.06, 4.60–5.56)	8.2 (6.94, 3.63–13.28)	20.5 (6.36, 5.70–7.10)	5.9 (4.03 ,3.46–4.69)
≥95	15.4 (11.05, 8.96–13.64)	20.0 (2.32, 1.79–3.01)	17.8(5.90, 5.12–6.81)	5.8 (4.86, 2.41–9.80)	21.8 (7.05, 6.25–7.95)	8.9 (6.46, 5.38–7.75)