

Data Brief 402. Emergency Department Visits for Influenza and Pneumonia: United States, 2016–2018

Data table for Figure 1. Emergency department visit rates for patients with influenza and pneumonia: United States, 2016–2018

Diagnosis	Visit rate per 1,000 persons (standard error)	95% confidence interval
Influenza	4.4 (0.5)	3.4–5.4
Pneumonia	7.9 (0.5)	7.0–8.9
Influenza and pneumonia	12.2 (0.8)	10.6–13.8

NOTES: Based on a sample of 1,532 emergency department (ED) visits made by patients with a diagnosis of influenza or pneumonia (ICD–10–CM, J09–J18), representing an annual average of approximately 3.9 million ED visits (2.8% of all ED visits). The influenza category and the pneumonia category are not mutually exclusive; influenza visits include visits with diagnoses of influenza due to identified novel influenza A virus with pneumonia (ICD–10–CM, J09.X1), influenza due to other identified virus with pneumonia (ICD–10–CM, J10.0), and influenza due to unidentified influenza virus with pneumonia (ICD–10–CM, J11.0). Visit rates use sets of estimates of the U.S. civilian noninstitutionalized population developed by the U.S. Census Bureau and reflect the population as of July 1 of each year during 2016–2018.

SOURCE: National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey, 2016–2018.

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Data table for Figure 2. Emergency department visit rates for patients with influenza and pneumonia, by age group: United States, 2016–2018

Age group (years)	Visit rate per 1,000 persons (standard error)	95% confidence interval
Under 5	34.7 (5.5)	24.0–45.5
5–17	10.7 (1.4)	7.9–13.6
18–44	7.1 (0.7)	5.7–8.4
45–64	9.4 (0.9)	7.6–11.2
65–74	15.3 (1.7)	11.8–18.7
75–84	24.5 (3.2)	18.2–30.8
85 and over	45.6 (5.9)	34.0–57.3

NOTES: Based on a sample of 1,532 emergency department (ED) visits made by patients with a diagnosis of influenza or pneumonia (ICD–10–CM, J09–J18), representing an annual average of approximately 3.9 million ED visits (2.8% of all ED visits). Visit rates use sets of estimates of the U.S. civilian noninstitutionalized population developed by the U.S. Census Bureau and reflect the population as of July 1 of each year during 2016–2018.

SOURCE: National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey, 2016–2018.

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Data table for Figure 3. Emergency department visit rates for patients with influenza and pneumonia, by race and ethnicity: United States, 2016–2018

Race and ethnicity	Visit rate per 1,000 persons (standard error)	95% confidence interval
Non-Hispanic white	11.8 (0.9)	10.1–13.5
Non-Hispanic black	21.9 (2.1)	17.7–26.1
Hispanic	9.8 (1.2)	7.4–12.2
Non-Hispanic other	6.6 (1.7)	3.2–10.0

NOTES: Based on a sample of 1,532 emergency department (ED) visits made by patients with a diagnosis of influenza or pneumonia (ICD–10–CM, J09–J18), representing an annual average of approximately 3.9 million ED visits (2.8% of all ED visits). Visit rates use sets of estimates of the U.S. civilian noninstitutionalized population developed by the U.S. Census Bureau and reflect the population as of July 1 of each year during 2016–2018. The category non-Hispanic other includes Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native, and two or more races. For 2016–2018, race data were missing for 17.0% (weighted) and ethnicity data were missing for 19.3% (weighted) of all ED visits.

SOURCE: National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey, 2016–2018.

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Data table for Figure 4. Emergency department visit rates for patients with influenza and pneumonia, by primary expected source of payment: United States, 2016–2018

Primary expected source of payment	Visit rate per 1,000 persons (standard error)	95% confidence interval
Private insurance	5.0 (0.5)	4.0–6.0
Medicare	19.9 (1.7)	16.6–23.2
Medicaid	26.2 (2.7)	20.8–31.5
Uninsured	7.0 (1.5)	4.0–9.9

NOTES: Based on a sample of 1,532 emergency department (ED) visits made by patients with a diagnosis of influenza or pneumonia (ICD–10–CM, J09–J18), representing an annual average of approximately 3.9 million ED visits (2.8% of all ED visits). Visit rates are based on patient's primary expected source of payment (a recoded variable based on a hierarchical model which accounts for the possibility of multiple payment sources being reported) and proportional insurance data from the 2016–2018 National Health Interview Survey Person Files, obtained from: <https://www.cdc.gov/nchs/nhis/1997-2018.htm>. Unknown or blank responses for expected source of payment occurred in 10.1% of visits and were excluded. A residual expected source of payment category for sources other than those shown does not meet National Center for Health Statistics (NCHS) standards of reliability and is not shown in the figure.

SOURCE: NCHS, National Hospital Ambulatory Medical Care Survey, 2016–2018.