

SUPPLEMENTAL TABLE 1. Characteristics of influenza case-patients and influenza control-patients with acute respiratory illness, by network and setting — four vaccine effectiveness networks, United States, 2024–25 influenza season

IVY						
Characteristics (col %)	Outpatient* setting			Hospitalization		
	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)
Overall	—	—	—	3,175	675	2,500
All encounters	—	—	—			
Vaccinated	—	—	—	1,084 (34)	211 (31)	873 (35)
Age group						
18–64 years	—	—	—	1,521 (48)	334 (49)	1,187 (47)
≥65 years	—	—	—	1,654 (52)	341 (51)	1,313 (53)
Female sex	—	—	—	1,647 (52)	353 (52)	1,294 (52)
Race and ethnicity						
Black or African American, NH	—	—	—	683 (22)	145 (21)	538 (22)
White, NH	—	—	—	1,775 (56)	363 (54)	1,412 (56)
Hispanic or Latino, any race	—	—	—	441 (14)	98 (15)	343 (14)
Other, NH [†]	—	—	—	176 (6)	42 (6)	134 (5)
Unknown [§]	—	—	—	100 (3)	27 (4)	73 (3)
Census regions						
Northeast	—	—	—	912 (29)	155 (23)	757 (30)
Midwest	—	—	—	736 (23)	190 (28)	546 (22)
South	—	—	—	535 (17)	68 (10)	467 (19)
West	—	—	—	992 (31)	262 (39)	730 (29)
Biweekly period of encounter						
10/1/2024 – 10/5/2024	—	—	—	75 (2)	2 (0.3)	73 (3)
10/6/2024 – 10/19/2024	—	—	—	258 (8)	9 (1)	249 (10)

10/20/2024 – 11/2/2024	—	—	—	267 (8)	7 (1)	260 (10)
11/3/2024 – 11/16/2024	—	—	—	272 (9)	13 (2)	259 (10)
11/17/2024 – 11/30/2024	—	—	—	297 (9)	30 (4)	267 (11)
12/1/2024 – 12/14/2024	—	—	—	472 (15)	80 (12)	392 (16)
12/15/2024 – 12/28/2024	—	—	—	398 (13)	123 (18)	275 (11)
12/29/2024 – 1/11/2025	—	—	—	525 (17)	163 (24)	362 (14)
1/12/2025 – 1/25/2025	—	—	—	464 (15)	171 (25)	293 (12)
1/26/2025 – 2/4/2025	—	—	—	147 (5)	77 (11)	70 (3)

NVSN[¶]

Characteristics (col %)		Outpatient setting		Hospitalization		
	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)
Overall	2,969	482	2,487	1,642	119	1,523
Vaccinated	955 (32)	100 (21)	855 (34)	641 (39)	28 (24)	613 (40)
Age group						
6-23 months	798 (27)	92 (19)	706 (28)	565 (34)	22 (18)	543 (36)
2-8 years	1,478 (50)	303 (63)	1175 (47)	771 (47)	69 (58)	702 (46)
9-17 years	693 (23)	87 (18)	606 (24)	306 (19)	28 (24)	278 (18)
Sites						
Nashville, TN	356 (12)	71 (15)	285 (11)	168 (10)	17 (14)	151 (10)
Rochester, NY	195 (7)	22 (5)	173 (7)	150 (9)	17 (14)	133 (9)
Cincinnati, OH	88 (3)	17 (4)	71 (3)	26 (2)	5 (4)	21 (1)
Seattle, WA	769 (26)	110 (23)	659 (27)	503 (31)	37 (31)	466 (31)
Houston, TX	400 (13)	51 (11)	349 (14)	318 (19)	20 (17)	298 (20)
Kansas City, MO	599 (20)	136 (28)	463 (19)	78 (5)	5 (4)	73 (5)
Pittsburgh, PA	562 (19)	75 (16)	487 (20)	399 (24)	18 (15)	381 (25)
Month of encounter						
Oct-24	406 (14)	16 (3)	390 (16)	286 (17)	3 (3)	283 (19)
Nov-24	817 (28)	51 (11)	766 (31)	467 (28)	11 (9)	456 (30)

Dec-24	1,034 (35)	205 (43)	829 (33)	588 (36)	59 (50)	529 (35)
Jan-25	712 (24)	210 (44)	502 (20)	301 (18)	46 (39)	255 (17)

US Flu VE

Characteristics (col %)	Outpatient setting			Hospitalization		
	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)
Overall	3,344	692	2,652	—	—	—
Vaccinated	1,014 (30)	166 (24)	848 (32)	—	—	—
Age group						
6 months–8 years	817 (24)	153 (22)	664 (25)	—	—	—
9–17 years	317 (9)	64 (9)	253 (10)	—	—	—
18–49 years	1,354 (40)	327 (47)	1,027 (39)	—	—	—
50–64 years	468 (14)	92 (13)	376 (14)	—	—	—
≥65 years	388 (12)	56 (8)	332 (13)	—	—	—
Female sex	1923 (58)	382 (55)	1,541 (58)			
Race/Ethnicity**						
White	1,472 (44)	271 (39)	1,201 (45)	—	—	—
Black	1,109 (33)	204 (29)	905 (34)	—	—	—
Other race	468 (14)	72 (10)	202 (8)	—	—	—
Hispanic	388 (12)	56 (8)	332 (13)	—	—	—
Study site						
Arizona	440 (13)	177 (26)	263 (10)	—	—	—
Michigan	49 (1)	10 (1)	39 (1)	—	—	—
Missouri	780 (23)	97 (14)	683 (26)	—	—	—
Ohio	635 (19)	115 (17)	520 (20)	—	—	—
Pennsylvania	545 (16)	125 (18)	420 (16)	—	—	—
Texas	546 (16)	97 (14)	449 (17)	—	—	—
Washington	349 (10)	71 (10)	278 (10)	—	—	—
Month of encounter						
Oct-24	391 (12)	14 (2)	377 (14)	—	—	—

Nov-24	1,015 (30)	80 (12)	935 (35)	—	—	—
Dec-24	1,154 (35)	313 (45)	841 (32)	—	—	—
Jan-25	784 (23)	285 (41)	499 (19)	—	—	—

VISION (aged <18 years)

Characteristics (col %)		Outpatient setting		Hospitalization		
	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)
Overall	36,919	9,563	27,356	1,638	157	1,481
Vaccinated	7,265 (20)	1,322 (14)	5,943 (22)	422 (26)	16 (10)	406 (27)
Age group						
6 mos–4 yrs	16,747 (45)	3,172 (33)	13,575 (50)	854 (52)	49 (31)	805 (54)
5–17 yrs	20,172 (55)	6,391 (67)	13,781 (50)	784 (48)	108 (69)	676 (46)
Female sex	17,130 (46)	4,590 (48)	12,540 (46)	750 (46)	62 (39)	688 (46)
Race and ethnicity						
Black or African American, NH	4,129 (11)	1,043 (11)	3,086 (11)	153 (9)	13 (8)	140 (9)
White, NH	11,911 (32)	2,362 (25)	9,549 (35)	662 (40)	47 (30)	615 (42)
Hispanic or Latino, any race	12,199 (33)	3,907 (41)	8,292 (30)	462 (28)	65 (41)	397 (27)
Other, NH ^{††}	4,110 (11)	1,218 (13)	2,892 (11)	171 (10)	16 (10)	155 (10)
Unknown ^{§§}	4,570 (12)	1,033 (11)	3,537 (13)	190 (12)	16 (10)	174 (12)
Site						
A	12,047 (33)	4,146 (43)	7,901 (29)	507 (31)	65 (41)	442 (30)
B	2,276 (6)	522 (5)	1,754 (6)	11 (1)	2 (1)	9 (1)
C	729 (2)	178 (2)	551 (2)	87 (5)	7 (4)	80 (5)
D	10,283 (28)	2,780 (29)	7,503 (27)	443 (27)	52 (33)	391 (26)
E	1,122 (3)	504 (5)	618 (2)	30 (2)	1 (1)	29 (2)
F	7,366 (20)	1,030 (11)	6,336 (23)	500 (31)	27 (17)	473 (32)
G	3,096 (8)	403 (4)	2,693 (10)	60 (4)	3 (2)	57 (4)
Month of encounter						

Oct-24	6,684 (18)	143 (1)	6,541 (24)	353 (22)	3 (2)	350 (24)
Nov-24	8,640 (23)	845 (9)	7,795 (28)	471 (29)	21 (13)	450 (30)
Dec-24	16,722 (45)	6,468 (68)	10,254 (37)	682 (42)	106 (68)	576 (39)
Jan-25	4,873 (13)	2,107 (22)	2,766 (10)	132 (8)	27 (17)	105 (7)

VISION (aged ≥ 18 years)

Characteristics (col %)		Outpatient setting		Hospitalization		
	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)	Total, no. (%)	Influenza case-patients, no. (%)	Influenza control-patients, no. (%)
Overall	102,639	26,011	76,628	31,033	2,959	28,074
Vaccinated[†]	31,473 (31)	5,631 (22)	25,842 (34)	11,774 (38)	905 (31)	10,869 (39)
Age group, yrs						
18–64	69,383 (68)	20,280 (78)	49,103 (64)	9,865 (32)	1,062 (36)	8,803 (31)
≥65	33,256 (32)	5,731 (22)	27,525 (36)	21,168 (68)	1,897 (64)	19,271 (69)
Female sex	61,379 (60)	15,144 (58)	46,235 (60)	16,529 (53)	1,640 (55)	14,889 (53)
Race and ethnicity						
Black or African American, NH	11,000 (11)	2,652 (10)	8,348 (11)	3,271 (11)	318 (11)	2,953 (11)
White, NH	49,694 (48)	9,946 (38)	39,748 (52)	19,995 (64)	1,703 (58)	18,292 (65)
Hispanic or Latino, any race	26,563 (26)	8,909 (34)	17,654 (23)	4,296 (14)	549 (19)	3,747 (13)
Other, NH	11,137 (11)	3,023 (12)	8,114 (11)	2,782 (9)	316 (11)	2,466 (9)
Unknown	4,245 (4)	1,481 (6)	2,764 (4)	689 (2)	73 (2)	616 (2)
Site						
A	29,480 (29)	9,639 (37)	19,841 (26)	5,230 (17)	639 (22)	4,591 (16)
B	6,590 (6)	1,351 (5)	5,239 (7)	1,517 (5)	132 (4)	1,385 (5)
C	12,911 (13)	3,856 (15)	9,055 (12)	3,050 (10)	415 (14)	2,635 (9)
D	29,246 (28)	7,269 (28)	21,977 (29)	8,706 (28)	856 (29)	7,850 (28)
E	3,729 (4)	1,204 (5)	2,525 (3)	867 (3)	135 (5)	732 (3)
F	13,610 (13)	1,804 (7)	11,806 (15)	9,354 (30)	657 (22)	8,697 (31)
G	7,073 (7)	888 (3)	6,185 (8)	2,309 (7)	125 (4)	2,184 (8)

Month of encounter							
Oct-24	17,529 (17)	437 (2)	17,092 (22)	7,526 (24)	50 (2)	7,476 (27)	
Nov-24	21,995 (21)	1,853 (7)	20,142 (26)	8,573 (28)	226 (8)	8,347 (30)	
Dec-24	44,403 (43)	15,959 (61)	28,444 (37)	12,023 (39)	2,012 (68)	10,011 (36)	
Jan-25	18,712 (18)	7,762 (30)	10,950 (14)	2,911 (9)	671 (23)	2,240 (8)	

Abbreviations: IVY = The Investigating Respiratory Viruses in the Acutely Ill Network; NH = non-Hispanic; NVSN = New Vaccine Surveillance Network; OR = odds ratio; U.S. Flu VE = U.S. Flu Vaccine Effectiveness Network; VE = vaccine effectiveness; VISION = Virtual SARS-CoV-2, Influenza, and Other respiratory viruses Network.

* Outpatient = outpatient clinics, urgent care, and emergency departments (NVSN and U.S. Flu VE); urgent care and emergency departments (VISION).

[†]For IVY, “Other, non-Hispanic” race persons reported non-Hispanic ethnicity and any of the following for race: Asian (20), Native American or Alaskan (28), Native Hawaiian or Other Pacific Islander (0), or Other (0). Because of small numbers, these categories were combined.

[§]For IVY, “Unknown” comprises persons with missing race or ethnicity.

[¶]Patients enrolled as outpatients in NVSN might have progressed to a more acute level of care; those data might not be reflected in this analysis.

**For US Flu VE, patients were categorized into one of four mutually exclusive racial/ethnic populations: white, black, other race, and Hispanic. Persons identifying as Hispanic might have been of any race. Persons identifying as white, black, or other race were non-Hispanic. Race/ethnicity was missing for 8 patients.

^{††}For VISION, “Other, non-Hispanic” race includes persons with either missing or non-Hispanic ethnicity and any of the following for race: American Indian or Alaska Native, Asian, Native Hawaiian or other Pacific Islander, Middle Eastern or North African, other races not listed, or multiple races. Because of small numbers, these categories were combined.

^{§§}For VISION, “Unknown” includes persons with missing race and any of the following for ethnicity: missing or non-Hispanic.