TABLE 2. COVID-19 vaccine effectiveness among health care personnel case-patients and controls, by number of COVID-19 vaccine doses received before SARS-CoV-2 test date — 33 U.S. sites, January–March 2021

	No. (%)		Vaccine effectiveness†	
	Case-		% (95% CI)	
Interval from dose to test date	patients* (N = 623)	Controls* (N = 1,220)	Unadjusted	Adjusted [§]
Dose 1				
≥14 days	64 (10)	241 (20)		
Dose 2			82.2 (75.1–87.3)	81.7 (74.3–86.9)
≤2 days	5 (<1)	109 (9)		
3-6 days	16 (3)	85 (7)		
≥7 days	19 (3)	184 (15)	93.4 (86.4–96.8)	93.5 (86.5–96.9)

Abbreviations: CI = confidence interval; HCP = health care personnel; mOR = matched odds ratio; OR = odds ratio; PCR = polymerase chain reaction; VE = vaccine effectiveness.

^{*} Case-patients: HCP who received positive SARS-CoV-2 PCR or antigen-based test results and had one or more symptoms of COVID-19–like illness; controls: HCP who received negative SARS-CoV-2 PCR test results.

[†] VE (Pfizer-BioNTech and Moderna) was estimated using a conditional logistic regression model accounting for matching by site of enrollment and week of test date.

[§] OR used in conditional logistic regression model to calculate VE was adjusted for age, race, and presence of underlying conditions: $VE = 100\% \times (1-mOR)$.

/mathematically correct

p(infected | vaccinated) < p(infected | not vaccinated)