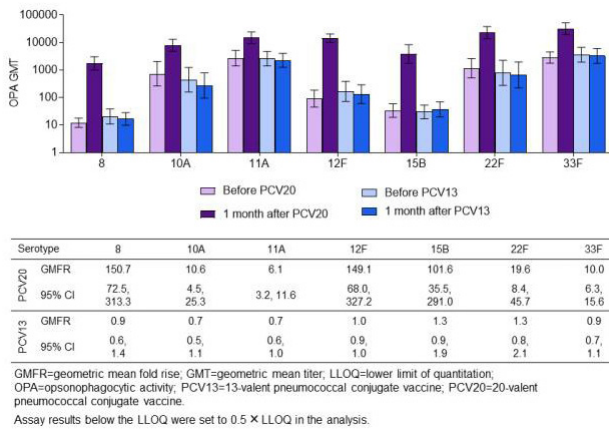


Figure 3



Conclusion: PCV20 was well tolerated and induced serotype-specific functional OPA immune responses that are anticipated to be associated with protection in Japanese adults. ClinicalTrials.gov: NCT03642847. Funding: Pfizer Inc.

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17. Assessment of Recombinant Zoster Vaccine Second Dose Completion in the United States

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Session: P-2. Adult Vaccines

Background: Recombinant Zoster Vaccine (RZV) was licensed in the United States (US) in October 2017 for the prevention of herpes zoster in adults ≥ 50 years of age (YOA). The vaccine is administered in a two-dose sequence with a 2- to 6-month interval; however, the Center for Disease Control & Prevention has advised against restarting a series after the prescribed window. This study describes an assessment of 2nd dose completion and compliance of RZV in the US.

Methods: Primary analysis was conducted on a cohort ≥ 50 YOA who received an initial RZV dose between October 2017 and September 2018 as indicated in the IQVIA longitudinal prescription claims or medical claims databases. Subjects were required to have ≥ 1 year of observable time post initial dose. A sensitivity analysis was conducted using all eligible subjects regardless of observable time post initial dose. Endpoints of analyses were monthly and cumulative 2nd dose label-compliant proportions at 6 months and completers by 12-month intervals and time to completion from initial RZV vaccine administration with stratifications by age, sex, claim source and payer type.

Results: The primary sample included 1,225,088 subjects, while the sensitivity analysis included 7,097,441 (Table 1). Overall, 2nd RZV dose completion was 70.4% within 6 months and 81.8% within 12 months. Minimal variation for 12-month completion was demonstrated across age (77.2–84.5%), sex (81.7–81.9%), and Commercial vs. Medicare (80.9–83.0%). However, larger variations were seen across claim sources and other payer type, with medical claims (64.9%), Medicaid patients (72.8%) and Cash patients (74.7%) having lower rates at 12 months (Table 2). Overall, the average time to completion was around 4 months regardless of stratification except by claims source, with medical claims taking 5 months on average to complete. The sensitivity analysis of the variable follow-up cohort demonstrated findings consistent with that of the primary sample.

Table 1. Subject Demographics

Characteristic	Primary Sample (n = 1,225,088)		Sensitivity Analysis Sample (n = 7,097,441)	
	n	%	n	%
Age group (years)				
50-59	172,668	14.09%	1,164,962	16.41%
60-64	204,183	16.67%	1,259,672	17.75%
65-69	237,523	19.39%	1,476,553	20.80%
70-79	424,023	34.61%	2,292,433	32.30%
80+	186,691	15.24%	903,821	12.73%
Sex				
Male	501,612	40.94%	2,989,561	42.12%
Female	723,476	59.06%	4,107,880	57.88%
Payer type				
Medicare	611,700	49.93%	3,369,348	47.47%
Commercial	589,488	48.12%	3,553,487	50.07%
Cash	20,594	1.68%	146,680	2.07%
Medicaid	3,306	0.27%	27,926	0.39%
Claim Source				
Pharmacy claims	1,082,468	88.36%	6,503,532	91.63%
Medical claims	142,620	11.64%	593,909	8.37%

Table 2. Primary Analysis RZV Completion by 6 and 12 Months Post Initial Vaccination

Stratification	n	6-month Completion Rate (95%CI)	12-month Completion Rate (95%CI)
Overall	1,225,088	70.41% (70.26%-70.56%)	81.80% (81.64%-81.96%)
Age group (years)			
50-59	172,668	64.76% (64.38%-65.14%)	77.15% (76.74%-77.57%)
60-64	204,183	68.03% (67.67%-68.39%)	80.06% (79.67%-80.45%)
65-69	237,523	71.02% (70.68%-71.36%)	82.28% (81.92%-82.65%)
70-79	424,023	73.51% (73.25%-73.77%)	84.45% (84.17%-84.72%)
80+	186,691	70.40% (70.02%-70.78%)	81.35% (80.95%-81.76%)
Sex			
Male	501,612	70.43% (70.20%-70.66%)	81.70% (81.45%-81.95%)
Female	723,476	70.39% (70.20%-70.58%)	81.86% (81.65%-82.07%)
Payer type			
Medicare	611,700	72.13% (71.92%-72.34%)	82.99% (82.76%-83.21%)
Commercial	589,488	68.91% (68.69%-69.12%)	80.86% (80.63%-81.09%)
Cash	20,594	63.73% (62.65%-64.83%)	74.66% (73.49%-75.85%)
Medicaid	3,306	61.07% (58.46%-63.79%)	72.75% (69.90%-75.71%)
Claim Source			
Pharmacy claims	1,082,468	73.23% (73.07%-73.39%)	84.02% (83.85%-84.19%)
Medical claims	142,620	48.98% (48.62%-49.35%)	64.90% (64.48%-65.32%)

Conclusion: Assessment of RZV suggests high levels of completion across age, sex, payer type and claim sources. More effort is needed to understand barriers to completion rates in Medicaid patients and settings where vaccination claims are processed outside of the vaccine recipient's pharmacy benefit.

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18. Association Between State-level Voting Patterns and Prior Receipt of the HPV Vaccine, an Analysis Using Data from the Behavioral Risk Factor Surveillance System 2016 – 2018

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Session: P-2. Adult Vaccines

Background: Human papillomavirus (HPV) is the main cause of cervical, anal and oro-pharyngeal cancer worldwide. The HPV vaccine can prevent over 90% of HPV-related malignancies but vaccination rates in the United States (US) vary significantly by region. In this study, we assessed whether state-level politics is associated with receipt of HPV vaccination in the US, and if the association is modified by sex and age.