

Comparing SARS-CoV-2 Vaccination Rates in a Suburban Pediatric Residency Clinic versus a Suburban Private Pediatric Clinic

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Introduction

- Vaccine hesitancy is a significant public health concern¹
- SARS-CoV-2 vaccination rates are low nationwide²
- Goal was to identify factors linked to lower vaccination rates
- This information is essential in addressing disparities and developing target strategies

Aims and Objectives

- Findings will provide understand of vaccination trends between the settings: private office vs residency clinic and the variables associated
- Results may encourage further research on variables affecting vaccine hesitancy in the outpatient pediatric setting
- Data was collected and analyzed to determine the vaccination rates between the two clinics and results were stratified based on collected variables

Methods

- Study consisted of patients between the ages of six months and five years of age who visited the private pediatric clinic and pediatric residency clinic between July 1, 2022 and October 31, 2022
- Data collected included patient's
 - Age
 - Sex assigned at birth
 - Insurance Type (Medicaid or Private)
 - SARS-CoV-2 vaccination status
 - Brand of SARS-CoV-2 vaccine received (Pfizer-BioNTech or Moderna)
- Vaccination rates were analyzed and compared between clinics and results were stratified by other collected variables

Results

Comparison of patient characteristics by site			
	Beaumont (N=33)	CHA (N=514)	P-value
Age at visit (years)			
N	33	514	0.0036
Mean (SD)	2.4 (1.3)	3.1 (1.3)	
Median	2.0	3.0	
Range	0.5, 4.0	0.6, 5.0	
Type of Insurance, n (%)			
medicaid	25 (75.8%)	0 (0.0%)	<.0001
private	8 (24.2%)	514 (100.0%)	
Sex, n (%)			
F	15 (45.5%)	227 (44.2%)	1.0000
M	18 (54.5%)	287 (55.8%)	
First Vaccination (y/n), n (%)			
Y	33 (100.0%)	514 (100.0%)	0.0144
Second Vaccination (y/n), n (%)			
N	23 (69.7%)	163 (31.7%)	<.0001
Y	10 (30.3%)	351 (68.3%)	
Third Vaccination (y/n), n (%)			
N	33 (100.0%)	323 (89.0%)	0.0365
Y	0 (0.0%)	40 (11.0%)	
Did the patient receive the recommended number of doses, n (%)			
No	33 (100.0%)	383 (74.5%)	0.0002
Yes	0 (0.0%)	131 (25.5%)	

¹Equal variance two sample t-test; ²Fisher Exact p-value;

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Comparison of Vaccine rates by site			
	Beaumont (N=33)	CHA (N=514)	P-value
Vaccine administered, n (%)			
No	606 (94.8%)	931 (64.4%)	<.0001 ¹
Yes	33 (5.2%)	514 (35.6%)	

¹Fisher's Exact p-value;

Conclusions

- SARS-CoV-2 vaccination rates differed significantly between the 2 clinics
 - Private clinic had higher rates of vaccination initiation and completion
- These findings may help inform future efforts to understand and reduce vaccine hesitancy in pediatric populations with different insurance and demographic profiles
- Future studies should explore whether these differences stem from resident training gaps or the populations they serve

References

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