

COVID-19 Vaccine Hesitancy among Long-Term Care Staff in Kentucky, 2021

August 12, 2022

Prepared by

Mira Mirzaian (mira.mirzaian@uky.edu)
Patrick Maloney (patrick.maloney@uky.edu)

Released by

Kentucky Injury Prevention and Research Center (KIPRC)
333 Waller Avenue, Suite 242
Lexington, KY 40504
as bona fide agent for the Kentucky Department for Public Health

Suggested Citation

Mirzaian, M., Maloney, P. (2022). COVID-19 Vaccine Hesitancy among Long-Term Care Staff in Kentucky, 2021. Kentucky Injury Prevention and Research Center.

You may receive an email from KIPRC staff with a brief follow-up survey regarding this data report; thank you in advance for helping us to improve our services.



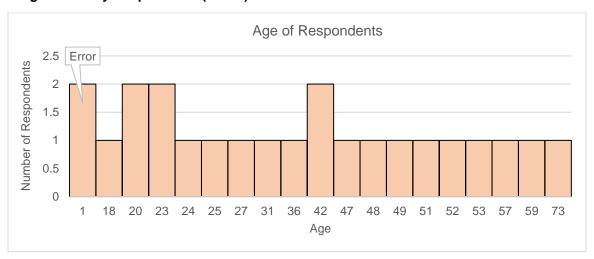


Demographics

Table 1. Age of Survey Respondents (n = 23)

Age	Number of	Respondents
	(n)	(%)
1	2	8.7
18	1	4.3
20	2	8.7
23	2	8.7
24	1	4.3
25	1	4.3
27	1	4.3
31	1	4.3
36	1	4.3
42	2	8.7
47	1	4.3
48	1	4.3
49	1	4.3
51	1	4.3
52	1	4.3
53	1	4.3
57	1	4.3
59	1	4.3
73	1	4.3

Figure 1. Age of Survey Respondents (n = 23)



Note:

Table 2. Sex: What sex were you assigned at birth, on your original birth certificate? (n = 24)

Sex	Number of Respondents		
	(n)	(%)	
Male	1	4.2	
Female	21	87.5	
I don't know	1	4.2	

Table 3. Gender: Do you currently describe yourself as male, female, or transgender? (n = 24)

Gender	Number of Respondents (n=24)	
	(n) (%)	
Male	1	4.2
Female	21	87.5
None of these	1	4.2

Table 4. Ethnicity: What is your ethnicity? (n = 23)

Number of Respondents	
(n)	(%)
1	4.3
20	87.0
2*	8.7
	(n) 1 20

^{*}Respondents did not specify ethnicity

Table 5. Race: What is your race (select all that apply)? (n = 23)

Race	Number of Respondents	
	(n)	(%)
American Indian or Alaska Native	0	0.0
Asian	0	0.0
Black or African American	0	0.0
Native Hawaiian or Other Pacific Islander	0	0.0
White	22	95.6
Something else	0	0.0
Don't want to say	1	4.3

Table 6. Language: How well do you speak English? (n = 23)

Language	Number of Respondents		
	(n) (%)		
Not at all	1	4.3	
Not well	0	0.0	
Well	0	0.0	
Very Well	22	95.6	
·			

Table 7. Language: What is your primary spoken language? (n = 21)

Primary Language	Number of Respondents		
	(n) (%)		
English	21	100.0	

Table 8. Geography: What is your zip code? (n = 21)

Zip Code	Number of Respondents		
	(n)	(%)	
40144	2	9.5	
40245	1	4.8	
40291	1	4.8	
40977	1	4.8	
41015	1	4.8	
41073	1	4.8	
41095	1	4.8	
42408	6	28.6	
42431	2	9.5	
42450	2	9.5	
42453	1	4.8	
42501	1	4.8	
42754	1	4.8	

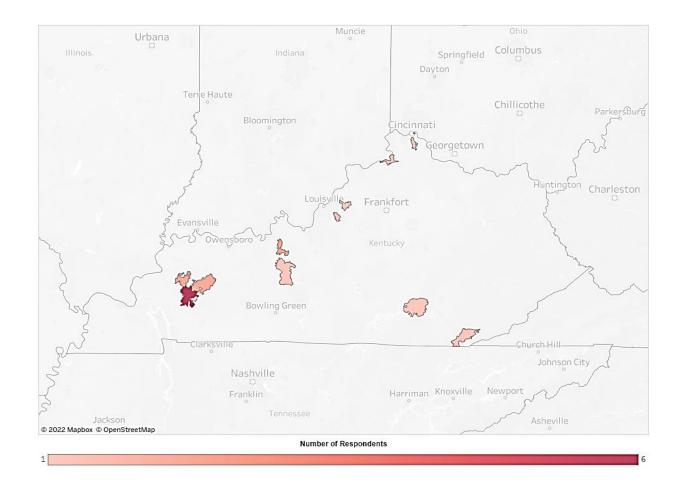


Table 9. Education: What is the highest level of education you completed? (n = 23)

Language	Number of Respondents	
	(n)	(%)
Less than High School	1	4.3
High School or equivalent	8	34.8
Some college, including associate degree or trade school	10	43.5
Bachelor's degree or higher	4	17.4

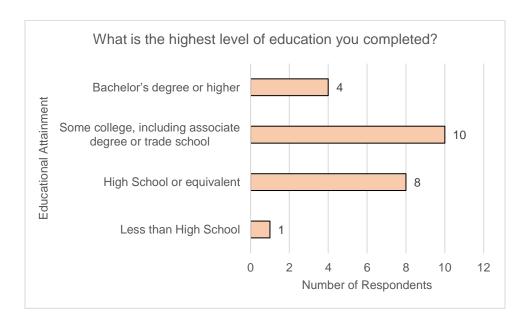
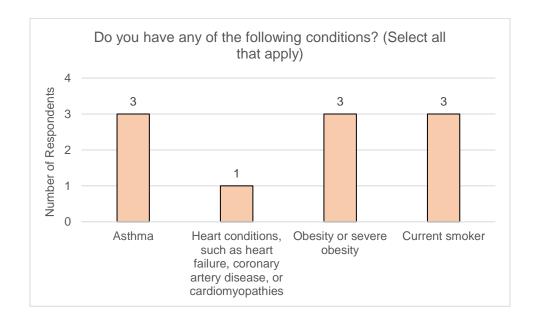


Table 10. Health, Comorbidities or Underlying Conditions: Do you have any of the following conditions? (Select all that apply) (n = 10)

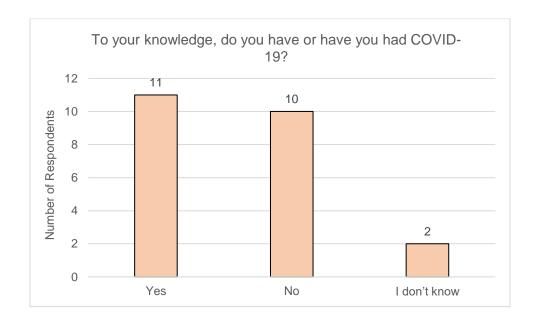
Health Comorbidities or Underlying Conditions		Number of Respondents	
	(n)	(%)	
Asthma	3	30.0	
Cancer	0	0.0	
Chronic kidney disease	0	0.0	
Chronic obstructive pulmonary disease (COPD)	0	0.0	
Heart conditions, such as heart failure, coronary artery disease, or cardiomyopathies	1	4.34	
Obesity or severe obesity	3	30.0	
Sickle cell disease	0	0.0	
Type 2 diabetes mellitus	0	0.0	
Immunocompromised due to solid organ transport	0	0.0	
Current smoker	3	30.0	



COVID Questions

Table 11. Previously Diagnosed: To your knowledge, do you have or have you had COVID-19? (n = 23)

Previously Diagnosed	Number of Respondents (n=23)	
	(n) (%)	
Yes	11	47.8
No	10	43.5
I don't know	2	8.7



Note:

Table 12. Diagnosis Method: If "Yes", how did you know you had COVID-19? (n = 9)

Diagnosis Method	Number of Respondents	
	(n)	(%)
At Home Test	0	0.0
Test at doctor's office, hospital, or pharmacy	9	100.0
Did not get tested	0	0.0
-		

Table 13. Level of Care: If "Yes", describe the level of care you received, or are receiving (n = 9)

Level of Care	Number of	Respondents
	(n)	(%)
Did not seek medical care	6	66.7
Received medical care but was not hospitalized	3	33.3
Was hospitalized	0	0.0

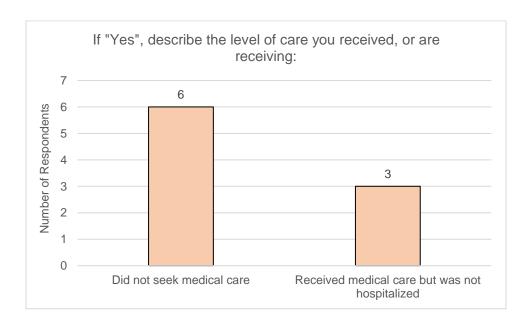
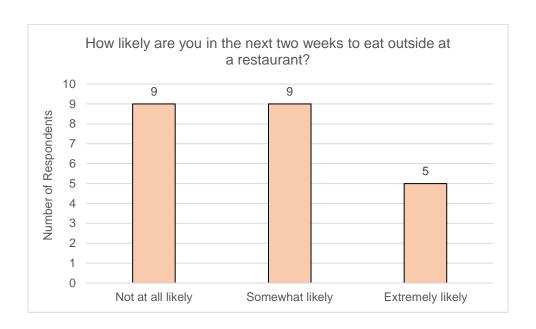


Table 14. Mitigation, Dining: How likely are you to do the following in the next two weeks?

a. Eat outside at a restaurant (n = 23)

Eat Outside at a restaurant	Number of Respondents	
	(n)	(%)
Not at all likely	9	39.1
Somewhat likely	9	39.1
Extremely likely	5	21.7



Note:

b. Eat inside at a restaurant (n = 23)

Eat Inside at a Restaurant	Number of Respondents	
	(n) (%)	
Not at all likely	4	17.4
Somewhat likely	7	30.4
Extremely likely	12	52.2
· ·		

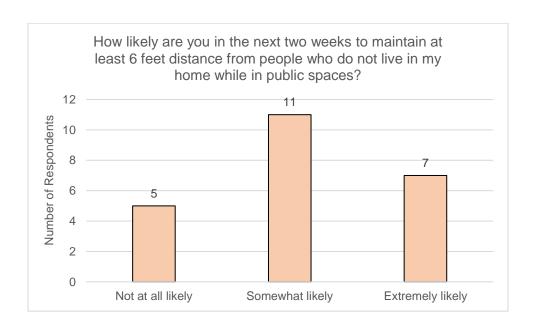


Note:

Table 15. Mitigation, Social Distancing: How likely are you to do the following in the next two weeks?

a. Maintain at least 6 feet distance from people who do not live in my home while in public spaces. (n = 23)

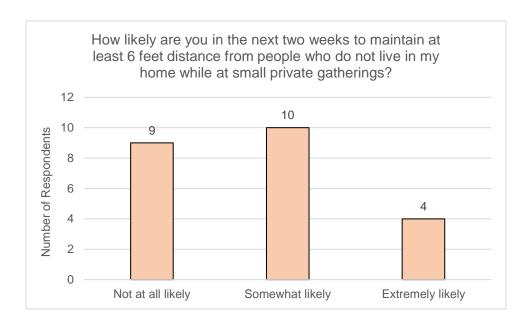
Social Distancing in Public Spaces	Number of	Respondents
	(n)	(%)
Not at all likely	5	21.7
Somewhat likely	11	47.8
Extremely likely	7	30.4



Note:

b. Maintain at least 6 feet distance from people who do not live in my home while at small private gatherings (n = 23)

Social Distancing in Private Gatherings	Number of	Respondents
	(n)	(%)
Not at all likely	9	39.1
Somewhat likely	10	43.5
Extremely likely	4	17.4
·		

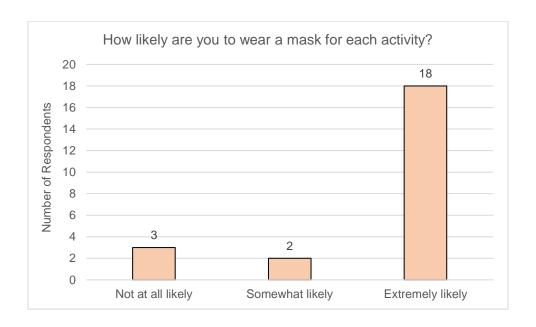


Note:

Table 16. Mitigation, Mask Wearing: Suppose you had to do the following things in the next two weeks. How likely are you to wear a mask for each activity?

a. Work in a setting outside the home (n = 23)

Work in a Setting Outside the Home	Number of	Respondents
	(n)	(%)
Not at all likely	3	13.0
Somewhat likely	2	8.7
Extremely likely	18	78.3
· ·		



Note:

b. Go for a walk in your neighborhood (n = 23)

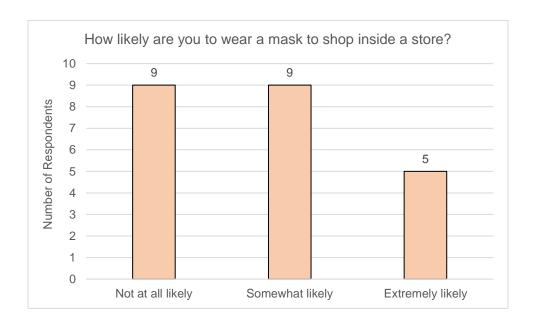
Go for a Walk in your Neighborhood	Number of	Respondents
	(n)	(%)
Not at all likely	22	95.7
Somewhat likely	1	4.3
Extremely likely	0	0.0



Note:

c. Shop inside a store (n = 23)

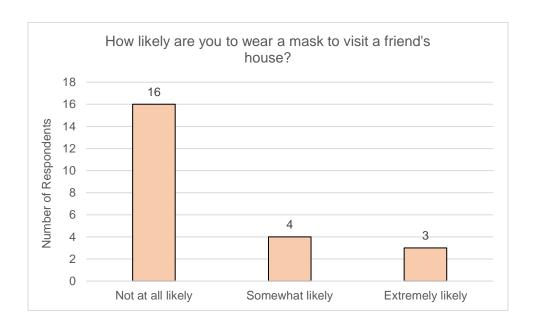
Shop Inside a Store	Number of	Respondents
	(n)	(%)
Not at all likely	9	39.1
Somewhat likely	9	39.1
Extremely likely	5	21.7
•		



Note:

d. Visit a friend's house (n = 23)

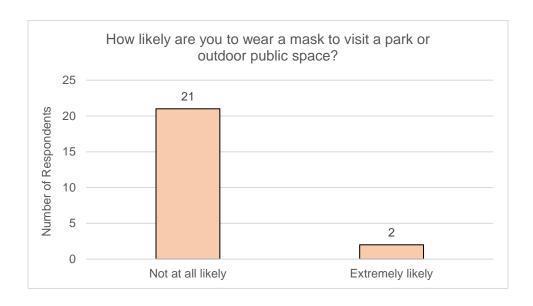
Visit a Friend's House	Number of Respondents	
	(n)	(%)
Not at all likely	16	69.6
Somewhat likely	4	17.4
Extremely likely	3	13.0



Note:

e. Visit a park or outdoor public space (n = 23)

Visit a Park or Outdoor Public Space	Number of	Respondents
	(n)	(%)
Not at all likely	21	91.3
Somewhat likely	0	0.0
Extremely likely	2	8.7

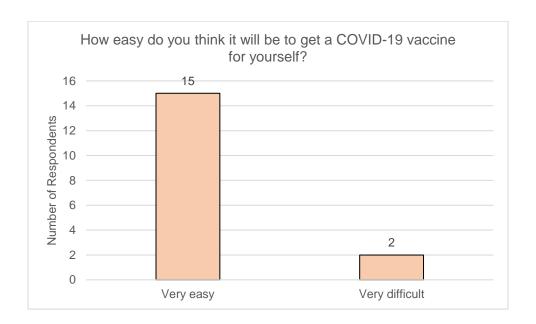


Note:

Vaccine

Table 17. How easy do you think it will be to get a COVID-19 vaccine for yourself? Would you say... (n = 17)

How easy is vaccine?	Number of Respondents		
	(n)	(%)	
Very easy	15	88.2	
Somewhat easy	0	0.0	
Somewhat difficult	0	0.0	
Very difficult	2	11.8	
Not sure	0	0.0	



Note:

Table 18. What makes it difficult for you to get a COVID-19 vaccine? (Select all that apply) (n = 16)

What makes it difficult for you to get a COVID-19 vaccine?		mber of condents	Inputted Response
vaccine?		_	inputted Response
	(<i>n</i>)	(%)	
1 16	^	0.0	
I can't go on my own (physical limitation)	0	0.0	
It's too far away	0	0.0	
I don't know where to go to get vaccinated	0	0.0	
I'm not eligible to get a COVID-19 vaccine	0	0.0	
I have a medical reason that makes me ineligible			
to get vaccinated (e.g., I have had a severe			
allergy to vaccines in the past)	3	18.8	
I don't have transportation	0	0.0	
The hours of operation are inconvenient	0	0.0	
The waiting time is too long	0	0.0	
It is difficult to find or make an appointment	0	0.0	
I am too busy to get vaccinated	0	0.0	
It was difficult to find or make an appointment	0	0.0	
I am too busy to get vaccinated	0	0.0	
It was difficult to arrange for childcare	0	0.0	
I don't have time off work	0	0.0	
I'm trying to start a family or currently pregnant	0	0.0	
I have a religious reason for not getting			
vaccinated	3	18.8	
Other	6	37.5	
3 11751		0.10	"Had COVID in the past 90 days"
			"I am a healthy, active, informed critical
			thinker. I trust my God given body and
			immunity to protect me"
			"I choose not to"
			"I'm not comfortable with getting the
			vaccine at this time"
			"Vaccine at this time "Vaccinated already"
Not sure	4	25.0	vaccinated alleady
NOT OUT	7	20.0	

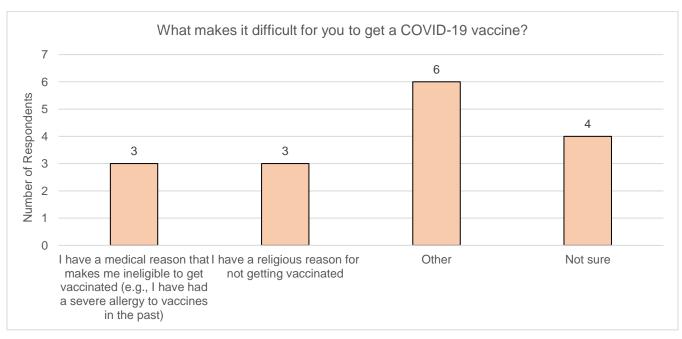


Table 19. How concerned are you about getting COVID-19? (n = 17)

Level of Concern	Number of	Respondents
	(n)	(%)
Not at all concerned	5	29.4
A little concerned	5	29.4
Moderately concerned	5	29.4
Very concerned	2	11.8
·		

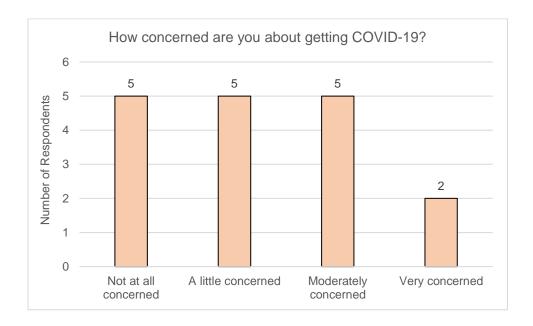


Table 20. How safe do you think a COVID-19 vaccine will be for you? Would you say... (n = 16)

Perception of Safety	Number of	Respondents
	(n)	(%)
Not at all safe	6	37.5
A little safe	6	37.5
Moderately safe	5	31.3
Very safe	0	0.0

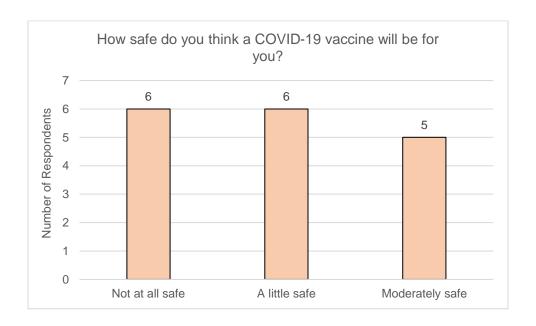


Table 21. If a COVID-19 vaccine were available to you, would you get it? (n = 16)

Vaccine Availability	Number of Re	espondents (n=16)
	(n)	(%)
Yes, would get it as soon as possible	8	50.0
Yes, but plan to wait to get it	2	12.5
No	1	6.3
Not sure	6	37.5

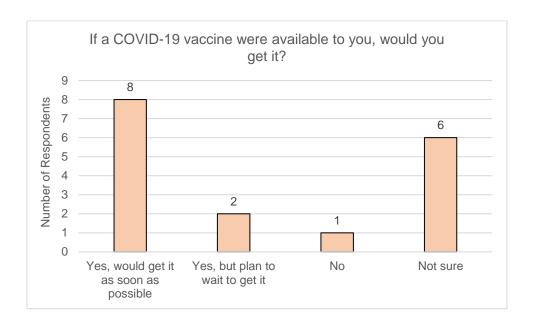


Table 22. If you have a choice, at what kind of place would you prefer to get the COVID-19 vaccine? (n = 11)

Preferred Location of Vaccination		nber of condents	Inputted Response
	(n)	(%)	_
At my workplace	0	0.0	
Family physician or other physician's office	5	45.5	
Health department clinic	1	9.1	
Other clinic, health center, or other medically related place,			
specify	0	0.0	
Hospital	0	0.0	
Church	0	0.0	
Free-standing retail pharmacy or drug store (e.g., Walgreens or			
CVS store)	1	9.1	
In-store pharmacy (e.g., CVS inside Target store, Publix			
pharmacy)	0	0.0	
Other	3	27.3	
			<mark>"None of the</mark> above"
Not sure	1	9.1	

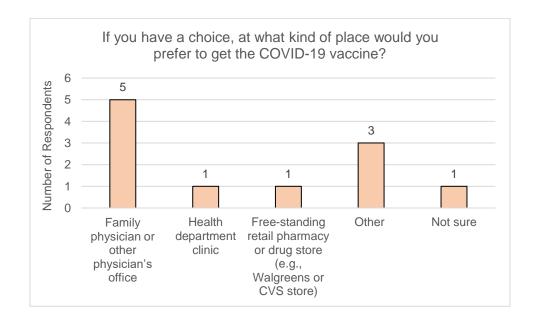


Table 23. What would motivate you to get vaccinated? (Select all that apply) (n = 16)

Vaccine Motivation	Number of	Respondents
	(n)	(%)
Protect my health	1	6.3
Protect health of family/friends	2	12.5
Protect health of co-workers	0	0.0
Protect health of patients	0	0.0
Protect health of community	0	0.0
To get back to work/school	0	0.0
To resume social activities	1	6.3
To resume travel	0	0.0
Because others encouraged me to get vaccinated	5	31.3
Required by Employer	2	12.5
Other	0	0.0
Not sure	5	31.3

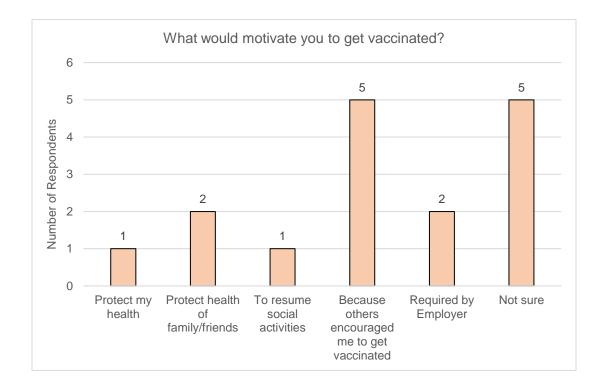


Table 24. Do you think most of the people at your work or school will get a COVID-19 vaccine, if it is recommended for them? (n = 17)

Work Vaccine Uptake	Number of	Respondents
	(n)	(%)
Yes	10	58.8
No	2	11.8
Not sure	5	29.4

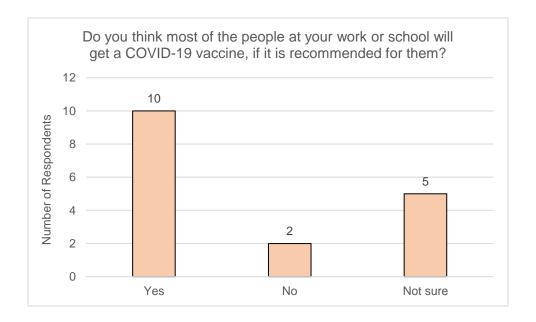


Table 25. Do you think most of your friends and family will get a COVID-19 vaccine, if it is recommended for them? (n = 17)

Friends Vaccine Uptake	Number of	Respondents
	(n)	(%)
Yes	13	76.5
No	2	11.8
Not sure	2	11.8

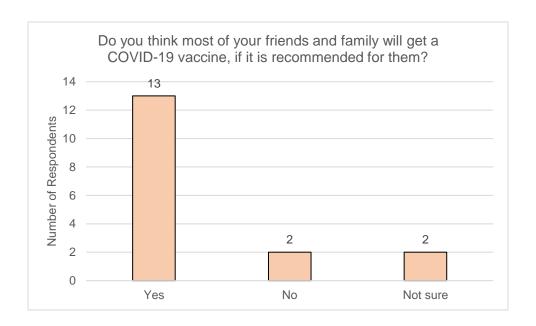


Table 26. How much do you trust the public health agencies that recommend you get a COVID-19 vaccine? Would you say you trust them? (n = 17)

PH Trust	Number of	Respondents
	(n)	(%)
		_
Not at all	8	47.1
A little	7	41.2
Moderately	1	5.9
Very Much	1	5.9

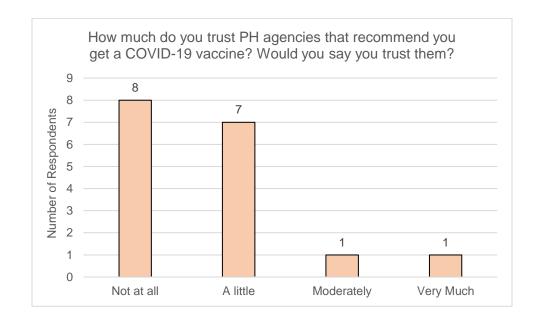


Table 27. Have you seen or heard any information about COVID-19 vaccines (e.g., on the news, on social media, or friends and family) that you could not determine were true or false? (n = 16)

Information about COVID-19	Number of	Respondents
	(n)	(%)
Yes	4	25.0
No	11	68.8
Not sure	1	6.3

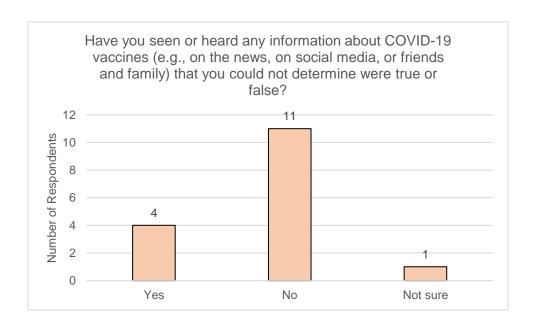


Table 28. How do you feel about the amount of information on COVID-19 vaccines that you are getting? (n = 17)

(%)
23.5
29.4
47.1

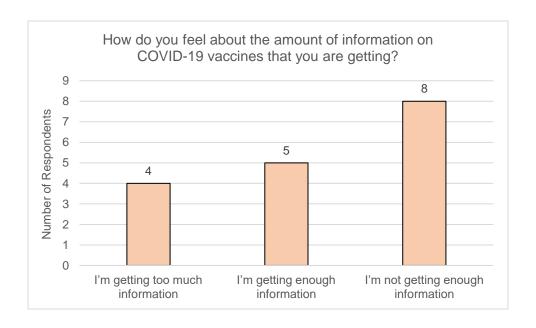


Table 29. Do you know where to get accurate, timely information about COVID-19 vaccines? (n = 17)

Accurate Information	Number of Respondents	
	(n)	(%)
Yes	1	5.9
No	12	70.6
Not sure	4	23.5

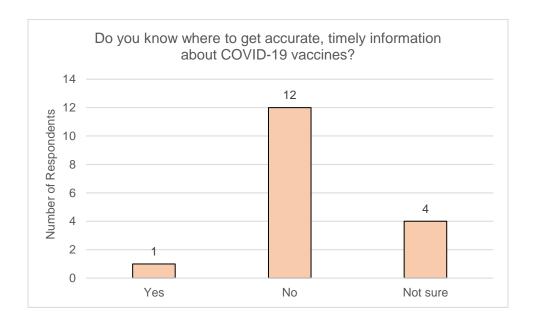
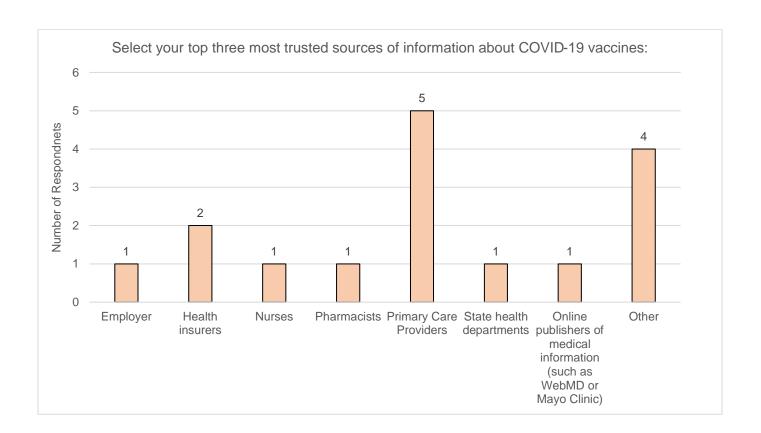


Table 30. Select your top 3 most trusted sources of information about COVID-19 vaccines (n = 16)

Trusted Sources of Information		ber of onses	Inputted Response
momation	(n)	(%)	inputtou reopense
Centers for Disease	(11)	(70)	
Control and Prevention			
	0	0.0	
(CDC)	0	0.0	
Employer	1	6.3	
Family and friends	0	0.0	
Food and Drug			
Administration (FDA)	0	0.0	
Health insurers	2	12.5	
Hospital system websites			
(e.g. Kaiser Permanente)	0	0.0	
Local health officials	0	0.0	
News sources (e.g.,			
television, internet, and			
radio)	0	0.0	
Nurses	1	6.3	
Pharmacists	1	6.3	
	-	31.3	
Primary Care Providers	5	31.3	
Professional	•	0.0	
organization(s)	0	0.0	
Religious leader(s)	0	0.0	
State health departments	1	6.3	
Online publishers of			
medical information (such			
as WebMD or Mayo			
Clinic)	1	6.3	
Social media (such as			
Facebook, Twitter,			
Instagram, WhatsApp,			
LinkedIn, or TikTok)	0	0.0	
Other	4	25	
Other		20	"Doing private research by looking at multiple studies that have
			been done. I have taken the first two doses as I have felt a moral
			obligation to do so related to my job duties. I also feel it is immoral
			to have a vaccine that aborted fetal tissue was used in research to
			develop. Since I no longer have the same job duties I do not feel
			the obligation to receive the booster shot and will only do so if I am
			given no choice. I will take it but I will consider the organization
			and/or government that requires me to do so responsible for any
			repercussions I may experience whether it be physical or
			psychological."
			"Frontline Doctors and Nurses"
			"The scientist that made the vaccine. There is so much different
			things going around and no one really knows. RNA has never been
			in any other vaccines so there is no history on long-term effects of
			this particular vaccine."
			The particular reconner



Definitions

Nonfatal drug overdoses include events with any diagnostic code of T36-T50. Drug overdose deaths include events with an underlying cause of death code of X40–X44, X60–X64, X85, or Y10-Y14.

Overdoses involving specific drug types were identified by the presence of the following ICD-10 codes in any diagnostic or supplemental cause of death field.

Drug Type	ICD-10 Code
Opioids	T40.0-T40.4 or
•	T40.6

For nonfatal drug overdoses, counts represent the number of visits and may be greater than the number of patients treated.

Data Sources

Emergency department visits: Kentucky Outpatient Services Database, Office of Health Data and Analytics, Cabinet for Health and Family Services

Inpatient hospitalizations: Kentucky Inpatient Hospitalization Claims Files, Office of Health Data and Analytics, Cabinet for Health and Family Services

Deaths: Kentucky Death Certificate Database, Kentucky Office of Vital Statistics, Cabinet for Health and Family Services

Disclaimers

Data are provisional and subject to change. Counts greater than zero but less than five are suppressed in accordance with state data management policy.

Produced by the Kentucky Injury Prevention and Research Center as bona fide agent for the Kentucky Department for Public Health, Month Year. This report was supported by Cooperative Agreement Number NU17CE924971-02-01, funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the U.S. Department of Health and Human Services.





