



## **Supporting Information**

### **Supplementary methods and results**

**This appendix was part of the submitted manuscript and has been peer reviewed.  
It is posted as supplied by the authors.**

Appendix to: Spierings S, Oguoma VM, Shakeshaft A, et al. Knowledge about COVID-19 vaccines among Aboriginal and Torres Strait Islander people, and attitudes to and behaviours regarding COVID-19 and influenza vaccination: a survey. *Med J Aust* 2025; doi: 10.5694/mja2.52551.

# Yarning About COVID (YAC) survey questions

## Criteria for participating in the survey

**Do you identify as (tick below to specify):**

- Aboriginal
- Torres Strait Islander
- Aboriginal and Torres Strait Islander

**Are you aged 16 years or older?**

- Yes
- No

**Participant consent**

- I provide my consent and wish to proceed to the survey*

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## Please tell us about yourself

**1. How old are you? \_\_\_\_**

**2. What sex were you assigned at birth?**

- Male
- Female
- Other

**3. What type of area do you live in?**

- Major City
- Country Town
- Regional area
- Remote community

**4. What is the highest level of education you have completed?**

- None
- Primary School
- High School
- TAFE
- University

**5. In general, how would you rate your overall health?**

- Excellent
- Good
- Average
- Fair
- Poor

**6. Do you have a chronic health condition?**

- Yes
- No

**7. What are some of the symptoms of COVID-19? (Please select as many as apply)**

- Fever
- Cough
- Shortness of breath
- Sore throat
- Runny or stuffy nose
- Aches and pains
- Headaches
- Fatigue (tiredness)
- Diarrhea
- Sneezing
- Loss of taste and smell
- All the above
- None of these

**8. Have you searched for information about COVID-19?**

- Yes
- No

**9. Have you found relevant information about COVID-19 for Aboriginal and Torres Strait Islander people?**

- Yes
- Somewhat
- No

**9.1 If yes or somewhat to 9: Where did you find it? (OPTIONAL)**

**9.2 If yes or somewhat to 9: Have you seen information that was in language or used lingo relevant to your community?**

- Yes
- Somewhat
- No

**10. How easy or difficult has it been to find information about COVID-19?**

- Very easy
- Somewhat easy
- Not easy or difficult
- Somewhat difficult
- Very difficult

**11. Do you feel like you understand how to prevent the spread of COVID-19?**

- Yes
- Unsure
- No

**12. Do you follow recommendations on how to protect yourself from COVID-19?**

- Yes
- Sometimes
- No

**13. Would you get tested for COVID-19 if you had symptoms?**

- Yes
- Unsure
- No

**14. If you did get tested for COVID-19, would you self-isolate as per the instructions by health officials?**

- Yes
- Unsure
- No

**15. Do you think the following procedures are effective at protecting yourself and your community from COVID-19?**

	Extremely Effective	Very effective	Moderately effective	Slightly effective	Not effective
<b>Good hygiene</b> ( <i>Washing hands, covering coughs, and cleaning work and home</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Physical distancing</b> ( <i>Avoiding close contact with people at home, in public or in the community</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Avoid public gatherings</b> ( <i>Sports games, funerals, and ceremonies</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Wearing a mask</b> ( <i>Wearing a mask out in public</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Isolating from the community</b> ( <i>Isolating if you are sick with COVID-19 and not leaving home</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Quarantining</b> ( <i>Quarantine is when you are well but may have been in contact with someone with COVID-19</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**16. During the COVID-19 pandemic, how important are the following?**

	Extremely Important	Very important	Moderately important	Slightly important	Not important
<b>Registering your attendance at venue</b> ( <i>either by signing in or using a QR code</i> )	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Restricting international travel</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Restricting interstate travel</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Following orders to stay at home</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Restricting entry into remote Aboriginal and Torres Strait Islander Communities</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Cancelling/postponing public events</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Restricting people from attending funerals</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**17. How important is it to control and monitor people's movement during the COVID-19 pandemic?**

- Extremely important
- Very important
- Moderately important
- Slightly important
- Not important

**18. Where do you get information about COVID-19?**

*(Please select as many that apply)*

- Media** *(TV/Newspapers/Radio)*
- Health workers** *(Nurse/Doctors/Aboriginal health workers)*
- Social media** *(Facebook/Instagram/Twitter etc)*
- Internet** *(Google search/National COVID-19 information website)*
- Community** *(Elders/family/friends)*
- Church**
- Government** *(State or Federal Departments of Health)*
- COVID-19 Hotlines**
- Health services** *(Aboriginal Medical Service/Hospital/clinic)*

**19. How trustworthy is information about COVID-19 from these sources?**

	Extremely trustworthy	Very trustworthy	Moderately trustworthy	Slightly trustworthy	Not trustworthy
<b>Media</b> <i>(TV/Newspapers/Radio)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Health workers</b> <i>(Nurse/Doctors/Aboriginal health workers)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Social media</b> <i>(Facebook/Instagram/Twitter etc)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Internet</b> <i>(Google search/National COVID-19 information website)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Community</b> <i>(Elders/family/friends)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Church</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Government</b> <i>(State or Federal Departments of Health)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>COVID-19 Hotlines</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Health services</b> <i>(Aboriginal Medical Service/Hospital/clinic)</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**20. How dangerous do you think COVID-19 is to your community?**

- Not dangerous at all
- Not very dangerous
- Dangerous
- Very dangerous
- Extremely dangerous

**21. Is your community prepared if there is a COVID-19 outbreak?**

- Yes
- Unsure
- No

**22. Is COVID-19 a threat to your community?**

- Yes
- Unsure
- No

**23. Do you normally get the flu shot each year?**

- Yes
- Sometimes
- No

**24. Will you get the flu shot this year?**

- Yes (*tick yes if you have already received the flu shot*)
- Unsure
- No

**25. Do you think COVID-19 vaccines can slow the spread of COVID-19?**

- Yes
- Unsure
- No

**26. How trustworthy are COVID-19 vaccines?**

- Extremely trustworthy
- Very trustworthy
- Moderately trustworthy
- Slightly trustworthy
- Not trustworthy

**27. How effective are COVID-19 vaccines?**

- Extremely effective
- Very effective
- Moderately effective
- Slightly effective
- Not effective

**28. Do you think Aboriginal and Torres Strait Islander people should be a priority group for the COVID-19 vaccine?**

- Yes
- Unsure
- No

**29. Is there a COVID-19 vaccine available to you now?**

- Yes
- Unsure
- No

**30. Which is your preferred COVID-19 vaccine?**

- AstraZeneca
- Moderna
- Pfizer

**31. Have you received the COVID-19 vaccine?**

- Yes
- No



**31.1** If yes to 31: Where did you get your vaccine?

- Indigenous health service
- Non-Indigenous health service
- Other

**31.2** If yes to 31: Which vaccine did you receive?

- AstraZeneca
- Moderna
- Pfizer

**32.** Do you intend to get fully vaccinated with the COVID-19 vaccine?

- Yes
- Unsure
- No

**33.** Are you prepared to have a COVID-19 vaccine booster each year?

- Yes
- Unsure
- No

**34.** Who do you think should get the COVID-19 vaccine?

- Children
- Teenagers
- Adults
- Elders
- Everyone
- Nobody

**35.** How important do you think the COVID-19 vaccine is to protect your community?

- Extremely important
- Very important
- Moderately important
- Slightly important
- Not important

**36.** Should people who are vaccinated with the COVID-19 vaccine be able to travel more freely than people who have not been vaccinated?

- Yes
- Unsure
- No

**Table 1. Univariable robust Poisson regression showing the relationship between COVID-19 vaccination, intention to receive full and booster COVID-19 vaccine and socio-demographic factors**

Characteristic	COVID-19 vaccination		Intention to be fully vaccinated for COVID-19		Intention to receive COVID-19 booster vaccines	
	Number	Crude prevalence ratio (95%CI)	Number	Crude prevalence ratio (95%CI)	Number	Crude prevalence ratio (95%CI)
Respondents*	452/480 (94%)		366/478 (77%)		336/478 (70%)	
Sex						
Men	263 (58%)	1	219 (60%)	1	212 (63%)	1
Women	189 (42%)	0.99 (0.94–1.04)	147 (40%)	0.92 (0.83–1.02)	124 (37%)	<b>0.80 (0.70–0.91)</b>
Location						
Urban	221 (49%)	1	202 (55%)	1	185 (55%)	1
Regional or remote	231 (51%)	<b>0.95 (0.91–0.99)</b>	164 (45%)	<b>0.74 (0.67–0.82)</b>	151 (45%)	<b>0.74 (0.66–0.84)</b>
Age group (years)						
16–29	264 (58%)	1	208 (57%)	1	185 (55%)	1
30–39	86 (19%)	1.01 (0.97–1.06)	74 (20%)	<b>1.12 (1.00–1.25)</b>	71 (21%)	<b>1.21 (1.06–1.38)</b>
40–49	52 (12%)	1.01 (0.95–1.07)	38 (10%)	0.95 (0.80–1.15)	37 (11%)	1.05 (0.86–1.27)
50–59	32 (7%)	0.93 (0.83–1.05)	28 (8%)	1.04 (0.86–1.25)	27 (8%)	1.12 (0.91–1.38)
60 or older	18 (4%)	<b>0.79 (0.62–0.99)</b>	18 (5%)	1.00 (0.78–1.27)	16 (5%)	1.00 (0.74–1.34)
Educational qualification						
None	14 (3%)	0.94 (0.77–1.15)	8 (2%)	0.76 (0.45–1.28)	8 (2%)	0.88 (0.51–1.50)
Primary school	52 (12%)	1	37 (10%)	1	32 (10%)	1
High school	113 (25%)	1.03 (0.95–1.12)	76 (21%)	0.99 (0.79–1.25)	72 (21%)	1.09 (0.83–1.42)
Technical and further education	81 (18%)	1.03 (0.94–1.12)	62 (17%)	1.10 (0.88–1.39)	58 (17%)	1.19 (0.91–1.56)
University	192 (42%)	1.01 (0.93–1.09)	183 (50%)	<b>1.35 (1.11–1.64)</b>	166 (49%)	<b>1.42 (1.12–1.80)</b>
General health						
Poor to fair	24 (5%)	0.88 (0.74–1.04)	19 (5%)	0.81 (0.62–1.06)	17 (5%)	0.80 (0.58–1.09)
Average	99 (22%)	1.02 (0.97–1.06)	67 (18%)	<b>0.80 (0.69–0.93)</b>	65 (19%)	0.86 (0.73–1.01)
Good to excellent	329 (73%)	1	280 (77%)	1	254 (76%)	1
Chronic health condition						
Yes	189 (42%)	1.01 (0.96–1.05)	140 (38%)	<b>0.87 (0.78–0.97)</b>	126 (38%)	<b>0.84 (0.74–0.95)</b>
No	263 (58%)	1	226 (62%)	1	210 (62%)	1
Will you get the flu shot this year?						
No or unsure	104 (23%)	1	67 (18%)	1	58 (17%)	1
Yes	348 (77%)	<b>1.18 (1.09–1.28)</b>	299 (82%)	<b>1.56 (1.32–1.85)</b>	278 (83%)	<b>1.68 (1.38–2.04)</b>

CI = confidence interval, COVID-19 = coronavirus disease 2019. \* Denominator: number of respondents to question; numerator: number who responded yes. Bold: Statistically significant (confidence interval does not include 1).