

Ideation Factors for Vaccine Hesitancy

Regression Analysis Using NOI Polling Data



NOI Polls and 3Cs Model

A survey on vaccine hesitancy was collected in December 2021 by Breakthrough ACTION Nigeria through NOI Polls.

The findings from this research was later organized around the 3Cs Model to be used to prioritize the determinants that are most strongly correlated with vaccine hesitancy.

The 3Cs Model for Vaccine Hesitancy

The NOI Polls asked people about their intentions to get a COVID-19 Vaccination. The options were:

1. Already taken it
2. Will get immediately
3. Intend to get, but want to wait
4. Unsure, but leaning towards no
5. Definitely not.

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-
- The diagram uses blue lines to map the five poll options to three categories:
- A vertical line connects options 1 and 2 to the label "Ready or Already vaxxed".
 - A horizontal line connects options 2 and 3 to the label "Intenders".
 - A horizontal line connects options 4 and 5 to the label "Hesitators".

Analysing beliefs and attitudes behind vaccine hesitancy

We excluded the Hesitators from the analysis so we could focus on those who are more likely to get vaccinated.

An analysis was done to understand the importance of different ideational factors that influence decision making by comparing the “Already’s” vs the “Intenders”.

The analysis produces Odds Ratios that give the relative importance of the different attitudes/beliefs.

	Odds Ratio	Sig	
Confidence (trust in vaccine and the health system)			
Health care worker recommended the vaccine	0.90	0.76	
Aware that some people have mild side effects	0.23	0.01	*
Believes that potential side effects are important	0.41	0.16	
Believes the COVID-19 vaccine is safe to use	2.09	0.04	*
Believes the COVID-19 vaccine may affect health in future	0.41	0.01	*
Believes the country where the vaccine is made is important	0.29	0.01	*
Believes the global recognition of the vaccine is important	4.16	0.03	*
Believes the vaccine's effectiveness at limiting transmission is important	1.09	0.84	
Believes the vaccine's effectiveness at limiting hospitalization is important	1.21	0.76	
Believes the number of jabs is important	1.35	0.73	
Believes how long the vaccine has been used in Nigeria is important	1.14	0.82	
Complacency (risk/benefit and relative importance to other things)			
High practise of prevention behaviors	0.98	0.96	
Worried about the spread of COVID-19 in Nigeria	1.60	0.26	
Confident I can protect myself from COVID-19	1.96	0.29	
Very likely I or someone I know will get infected	1.19	0.63	
Vaccine will make you feel less worried about getting infected	0.55	0.34	
The COVID-19 vaccine will protect me and my family	3.45	0.02	*
Friends and family members have been vaccinated	3.35	0.00	*
Convenience (perceived accessibility and affordability)			
Perceived ease of access to the vaccine	1.63	0.19	



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* = $p \leq 0.05$



Is Convenience *not* Important?

Convenience did not appear to be statistically significant.

However, the model is comparing “Aldreadys” and “Intenders” - those who want to wait and see.

People who want to wait and see are not held back by convenience factors, *at the moment*.

It may become an issue when they decide they are ready.

Statistically Significant Beliefs and Attitudes about COVID-19 Vaccination

	OR	Sig	
Confidence (trust in vaccine and the health system)			
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Believes the COVID-19 vaccine is safe to use	2.09	0.04	*
Believes the COVID-19 vaccine may affect health in future	0.41	0.01	*
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Complacency (risk/benefit and relative importance to other things)			
The COVID-19 vaccine will protect me and my family	3.45	0.02	*
Friends and family members have been vaccinated	3.35	0.00	*

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Thank You



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