













A/Prof Katie Attwell, Ph.D, with Amy Morris, Leah Roberts



Acknowledgement of country

I'm privileged to be on Noongar land today.

Noongar people remain the spiritual and cultural custodians of their land, and continue to practise their values, languages, beliefs and knowledge.



Artist: Dr Richard Barry Walley OAM

Background and Aims









- Part of "Coronavax: Preparing Community and Government" qualitative interviews
- Refusal of COVID-19 vaccines posed risks to individuals, communities, and public health systems.
- Mandates seek to orient the hesitant towards vaccination, but risk polarising / radicalising refusers.
- Little is known globally about the attitudes and experiences of vaccine hesitant and refusing adults in contexts of mandatory COVID-19 vaccination.
- We wanted to understand the reasons for vaccine refusal in the WA community and the impact of mandates on compliance.
- Unique WA context: little community transmission for nearly 2 years; mandates as part of driving up coverage rates for border reopening instead.

Updated Vax Intentions and Status Model

COVID-19 vaccination Reason/s status No concerns about No concerns about No concerns about Accepted the vaccine Acceptor vaccine safety; and vaccine efficacy; that was offered, access; and when it was offered and **Cautious** May have some May have some May have some May have *preferred* Accepted what concerns about concerns about concerns about other vaccine brand, was offered. Acceptor vaccine safety; or vaccine efficacy; or but access; or Coerced/Hostile Concerns about Concerns about Did not want to vaccine safety; efficacy; and vaccinate, but was Acceptor and/or prompted to by mandates For more data on For more data on For easier access; or For other vaccine To feel at risk For the vaccines to **Wait Awhile** general vaccine brand perceived as from COVID-19 general vaccine be mandatory safer or more effective safety; or efficacy; or disease Refuser Concerns about Concerns about No concerns about vaccine safety; and efficacy; and access (as no intention to vaccinate)



'COVID Is Coming, and I'm Bloody Scared': How Adults with Co-Morbidities' Threat Perceptions of COVID-19 Shape Their Vaccination Decisions

Vaccine Refusing Cohort









20 October 2021 – mandatory COVID-19 vaccination announced for 75% of Western Australia's workforce						
Interview date	Pseudonym	Age	No. of vaccine doses	Employment		
14 December 2021	Anne	41	0 doses	Scheduler (Mining)		
15 December 2021	Lisa	57	0 doses	Underground truck driver (Mining)		
17 December 2021	Messi	53	0 doses, wait for Novavax	Operator (Mining)		
20 December 2021	Eden	37	0 doses	Teacher		
22 December	2021 – third COVID-	·19 dose ad	ded; 4 January 2022 –	third COVID-19 dose available		
18 January 2022	Gohan	31	2 doses, booster planned	Network engineer (Mining)		
24 January 2022	Grey	38	0 doses	Engineer (Mining)		
31 Jan	uary 2022 - Proof of	vaccination	requirements implen	nented for public spaces		
1 February 2022	Quinn	56	2 doses, booster planned	Administration officer		
2 February 2022	Sparticus	35	0 doses	Geologist (Mining)		
14 February 2022	Sophie *	43	0 doses	Nurse		
17 February 2022	Tony	41	0 doses	Operations director (Mining)		
22 February 2022	Kelly	36	2 doses, booster planned	Offshore		
28 February 2022	Alexis	25	0 doses	Urban planner		
4 March 2022	Trixie	51	3 doses	Government employee		
11 March 2022	Angela	31	0 doses	Teacher		
16 March 2022	Brooklyn	31	0 doses	Pilates instructor		
4 April 2022	Nicole	48	0 doses	Lab operator (Mining)		
8 April 2022	Charlie *	30	1 dose, only intending 2	Electrician (Mining)		

Theoretical Basis of Compliance









	VOLUNTARY PROGRAM	MANDATORY PROGRAM
COST OF CONSEQUENCES	No cost	Cost of non-compliance must be higher than what individual perceives as cost of compliance. Perceived cost draws from heuristics (non-rational) High perceived likelihood of detection and sanctions.
NORMATIVE OBLIGATION	Government possesses legitimacy; fulfils duties. Honest, competent, rule of law. Perceptions of legitimacy informed by social cues.	See LHS. Also, sanctions must not appear unfairly punitive.
SOCIAL PRESSURES	Behaviour of wider public and peers shapes compliance. Stigmatised groups or those with alternative views may construct counter-norms, including non-compliance.	See LHS.

Drivers of (non)compliance









	VOLUNTARY PROGRAM	MANDATORY PROGRAM		
COST OF CONSEQUENCES	No cost	Employment mandates successfully coerce some, others work around consq (sunk costs). Public space mandates seen as easier to circumvent.		
NORMATIVE OBLIGATION	Government and healthcare system illegitimate and dishonest; manipulating data etc. Vax don't prevent infection or transmission and are unsafe, incl causing death. Governments promoting vax against this backdrop are unscrupulous.	Sanctions appear unfairly punitive, esp public space mandates, not seen as effective for or designed for disease prevention. Concentration camps and kidneys: punitive and vengeful governments.		
SOCIAL PRESSURES	Some peers reinforce the above views or ostracise refusers, who orient to those who agree with them.	Peers clash about the effects of the mandates, refusers are further ostracised and form networks for mutual aid.		

Mandate s Work

https://www.health.gov.au/i nitiatives-andprograms/covid-19vaccines/numbersstatistics#jurisdictional-data

Jurisdiction 🕏	People with at least one dose	% People with at least one dose	People with two doses	% People with two doses	People \$ with three dose	% People eligible with three doses	People \$ with four doses	% People eligible with four doses (aged 30+)
National	20,066,657	97.3%	19,783,927	95.9%	14,295,016	72.3%	5,219,681	43.1%
NSW	6,311,279	97.0%	6,228,836	95.8%	4,379,667	70.4%	1,665,483	44.6%
VIC	5,166,547	97.9%	5,105,908	96.7%	3,796,032	74.4%	1,297,173	40.8%
QLD	3,869,672	93.0%	3,813,250	91,6%	2,488,234	65.3%	997,933	46.2%
WA	2,099,679	96.1%	2,073,717	94.9%	1,730,423	83.5%	534,556	37.4%
SA	1,374,157	93.4%	1,348,963	91.7%	1,026,068	76.2%	412,259	47.1%
TAS	442,989	95.2%	435,352	93.5%	324,797	74.7%	139,646	49.7%
ACT	353,135	96.8%	348,216	95.5%	281,035	80.8%	113,438	48.9%
NT	171,177	88.6%	167,307	86.6%	133,187	79.7%	27,474	25.9%

Data as at:

23 November 2022

Conclusions / Recommendations









- Mandates work: changed the behaviour of 5/17 holdouts
- Compliance doesn't last WA's lower 4th dose coverage (voluntary)
- When governments lose people's trust with mandates, we may lose them for a long time and for existing or new vaccines / other health engagement.
- Work to regain trust for all vaccines
- Long road to rebuild social cohesion and social trust.
- Where did these people (and those like them) end up?

Coronavax team

CORONAVAX







Investigators

- University of Western Australia
 - A/Prof Katie Attwell
 - Dr Lara McKenzie
 - Dr Tauel Harper
 - A/Prof Marco Rizzi
 - Dr Jordan Tchilingirian
 - Dr Sian Tomkinson
 - Ms Leah Roberts
 - Dr Barbara Nattabi
 - Prof Lisa Wood
 - Mr Jake Turvey
 - Dr Michael Deml

Funders

- WCVID Catalyst Research Grant
- CDCD WA Department of Health
- FHRI COVID-19 Focus Grant
 - Talethon Kids Institute



"MandEval" MRFF 2022

Stream 2; MCR; \$4.75m; 4 years



MandEval: Evaluating COVID-19 Vaccine Mandates





Aim

This mixed methods research project aims to:

- 1) Analyse the **impact of vaccine mandates for COVID-19 vaccines** on vax uptake, attitudes, politics
- 2) Ascertain lessons learnt for ongoing or future vaccine mandates

Led by A/Prof Katie Attwell, MandEval partners with most State Health Departments.

Chief Investigator team is made up of EMCRs from Australia, the US, France and Italy. It includes:

- Chris Blyth (UWA / TKI)
- Mesfin Genie
- Jess Kaufman
- Jeremy Ward
- Jane Williams
- Huong Le
- Marco Rizzi (UWA / TKI)
- Annette Regan
- Uwana Evers

Associate investigators: Margie Danchin, Francesco Paolucci, Frank Beard, Bette Liu, Julie Leask, Teresa Gavaruzzi, and Hannah Moore.

MandEval: 5 Studies





<u>Study one</u> analyses data from the Australian Immunisation Register, the Australian Bureau of Statistics and the Australian Tax Office, as linked by the new Multi-Agency Data Integration Project (MADIP). Our multidisciplinary team will assess the impacts of policy announcements regarding the introduction and removal of vaccine mandates for COVID-19 in different Australian states amongst key population groups. Australian data will be directly compared with international comparators (CA, Italy and France). We will also analyse relevant state government datasets relating to vaccine mandate exemptions.

<u>Study two</u> consists of quantitative surveys of specific population groups affected by either employment mandates or public space mandates. We will ascertain how the public understands, thinks, and feels about these mandates and how they have motivated vaccine uptake. We will also address mandate removal. These studies will be conducted in relevant Australian states with comparative work in Italy and France.

Study three addresses the same broad questions as Study Two using qualitative methods. It focuses in on key groups including the hesitant/refusers and those who have to manage their hesitancy in implementing mandates (e.g. immunisers; medical exemption seekers).

<u>Study four</u> is a key informant analysis in which CI Attwell will speak to elected officials as well as technical experts working for government in Australian states and Italy and France. We will examine the circumstances in which mandates were introduced and removed in these jurisdictions, and how and why decisions were made regarding timing and design of policies, and their targets, goals, and purposes, as well as implementation issues (e.g exemption processes, vaccination fraud, etc)

<u>Study five</u> consists of a thorough legal analysis of the policy instruments utilised in vaccine mandates in Australian states as well as comparators in France and Italy. We will analyse legal cases that are in progress wherein claimants are seeking to overturn or otherwise resist vaccine mandates and build an online observatory so that the public and policymakers can follow the development of these cases during the three-year study period.