26th April 2022

Rt Hon Jacinda Ardern Hon Chris Hipkins

Prime Minister Minister for COVID-19 Response

Hon Andrew Little cc Associate Ministers Verrall, Henare

Minister of Health and Sio

By email: j.ardern@ministers.govt.nz c.hipkins@ministers.govt.nz a.little@ministers.govt.nz

Tēnā koutou Prime Minister and Ministers Hipkins and Little,

Thank you for the Government's dedicated and evidenced-based response to the COVID-19 pandemic thus far. We request that you urgently consider the following recommendations for the implementation of a strengthened **Vaccines Plus** mitigation strategy.

### **Executive Summary of Recommendations**

- Implement and communicate a comprehensive **Vaccines Plus** mitigation strategy with the aim of maintaining low COVID-19 infection rates.
- Increase public education about airborne transmission.
- Recommend, and aid in the supply of N95-type masks for the public.
- Continue the school mask mandate over winter 2022.
- Supply CO2 monitoring and air filtration units to all school classrooms.
- Allow for alternative school learning arrangements during times of intense transmission.
- Produce updated expert ventilation and air quality guidelines for public indoor spaces.
- Continue to enable higher vaccination rates for children, and booster doses.

#### Vaccines Plus: to limit COVID-19 transmission

We the undersigned doctors and scientists, call on the New Zealand Government to adopt a comprehensive mitigation strategy, to minimise the negative health and economic effects of the COVID-19 pandemic. This goal is best achieved by maintaining low COVID-19 transmission and infection rates through implementation of an evidence-informed **Vaccines Plus** strategy, that combines high vaccination coverage with effective public health and social measures.

COVID-19 is a novel pathogen that can repeatedly infect, with infection resulting in an increased risk of many serious long-term health complications for people of all ages. It is evident that vaccination alone will not be enough to fully protect our communities from high rates of COVID infection and the resulting complications.

Relying on 'personal responsibility', without effective public health measures, will result in repeated waves of infection, an overloaded and dysfunctional healthcare system, and ongoing disruption to daily life. This scenario is currently playing out around the world. Instead, a collective approach is required that focuses on minimising transmission by means of public health policies. These measures should be viewed as protections rather than restrictions, and when combined with a high vaccination rate, would encompass a **Vaccines Plus** strategy.

A public health based, **Vaccines Plus** approach favours the safety of all, especially marginalised communities who may lack access to resources needed to protect themselves. Groups particularly at risk when community transmission is high include children, the elderly, Māori and Pasifika, and people who are medically vulnerable or disabled.

### Vaccines Plus: actions to take now

COVID-19 spreads predominantly by airborne transmission, therefore, to minimise infections public health policies must aim to provide clean air within indoor environments. The evidence for this conclusion is extensive.

To this end, we urge the New Zealand Government to implement the following, as part of a **Vaccines Plus** strategy:

- Define, and clearly communicate to the public, a coherent mitigation strategy with well-defined goals. It is essential that this strategy recognises that the best outcomes for individuals and society will be achieved by maintaining low infection rates.
- Increase public education on the nature and predominance of airborne transmission of COVID-19, including the factors that increase risk, and how to mitigate these risks.
- Identify appropriate high-quality masks for public use (currently N95/P2/KN95/KF94) and inform the public that these masks are greatly superior to surgical masks. Ensure procurement and funding to avoid inequity of supply, including to schools. **This policy must include the ongoing mandating of mask use in schools over the winter terms in 2022**.
- Strengthen school indoor air quality measures by supplying all classrooms with,
- 1. CO2 monitoring to objectively assess the adequacy of ventilation, and
- 2. Appropriately sized HEPA air filtration units in time for winter 2022, until such time as ventilation has been deemed adequate to prevent infection, by quantitative assessment.

- Provide alternative learning arrangements and community-based support for schoolaged children when necessary, to protect them and their families during periods of intense transmission. New Zealand needs to adopt a whānau-centred approach that protects the well-being of children and their families in all settings.
- Engage engineers, aerosol scientists and other ventilation specialists to develop clear ventilation standards for indoor public spaces, including standards for air changes, airborne pathogen filtration and inactivation, and maximum acceptable CO2 levels.
- Continue to actively promote and enable high vaccination coverage for all groups of society, including children, who currently have low vaccination rates.

The implications of continuing to allow poorly-mitigated transmission of COVID-19 in New Zealand are too great to ignore. The burden of long term illness and disability on individuals, whānau, and our health system of Covid and Long COVID will include effects on the cardiovascular, respiratory, neurological, endocrine, and immune systems.

Recurrent waves of infection caused by waning immunity, new variants, and the premature removal of public health controls, would lead to an over-burdened healthcare system that would struggle to provide even standard services.

COVID-19 is a highly infectious disease, but transmission is preventable. As previously outlined, there are inexpensive and highly effective strategies for suppressing infection rates, that will work in the background to keep people safe as they go about their daily lives. We believe these measures can create a 'covid-hostile' environment in New Zealand that would protect us not only from new variants, but also from other airborne respiratory infections.

In the face of high uncertainty about the future course and long-term impacts of the SARS-CoV-2 pandemic, New Zealand can again be a world leader if we embrace a comprehensive public health based, **Vaccines Plus** strategy.

Ngā mihi nui

Dr Kelvin Ward MBChB FRNZCUC DipCEM PGCertCPU Urgent Care Physician

Professor Michael Baker MBChB DPH DObs FAFPHM FNZCPHM FRACMA University of Otago Dr Amanda Kvalsvig MBChB MRCPCH(London) PhD Epidemiologist University of Otago, Wellington

Dr Anna Brooks BCA BSc(Hons) PhD Immunologist, University of Auckland

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www.vaccinesplus.nz vaccinesplusnz@pm.me

Dr Sandhya Ramanathan BSc (Med) MBBS (Hons) DCH FRACGP FRNZCGP Specialist General Practitioner Dr Joel Rindelaub PhD Aerosol Chemist University of Auckland

Dr David Welch PhD Computational Biologist University of Auckland Dr Rawiri Keenan MBChB, FRNZCGP General Practitioner University of Waikato

Terry Taylor
BSc DipMLS MNZIMLS
Specialist Medical Laboratory Scientist
President NZIMLS

Dr David Gollogly MBChB FRNZCUC Urgent Care Physician

Name	Qualifications	Expertise	Institution
Authors			
Dr Kelvin Ward	MBChB FRNZCUC DipCEM PGCertCPU	Urgent Care Physician	
Dr Amanda Kvalsvig	MBChB MRCPCH(London) PhD	Epidemiologist	University of Otago
Professor Michael Baker	MBChB DPH DObs FAFPHM FNZCPHM FRACMA	Epidemiologist	University of Otago
Dr Sandhya Ramanathan	BSc (Med) MBBS (Hons) DCH FRACGP FRNZCGP	Specialist General Practitioner	
Dr Anna Brooks	BCA BSc(Hons) PhD	Immunologist	University of Auckland
Dr Joel Rindelaub	PhD	Aerosol Chemist	University of Auckland
Dr Rawiri Keenan	MBChB, FRNZCGP	General Practitioner	University of Waikato
Terry Taylor	BSc DipMLS MNZIMLS	Medical Laboratory Scientist	NZIMLS
Dr David Gollogly	MBChB FRNZCUC	Urgent Care Physician	
Dr David Welch	PhD	Computational Biologist	University of Auckland
<u>Signatories</u>			
Emeritus Professor Warren Tate	BSc MSc(Hons) PhD FRSNZ CNZM	Scientist-Biomedical	University of Otago
Professor Rod Jackson	BSc MBChB MMedSc DObs DCH PhD FNZCPHM	Epidemiologist Public Health Physician	University of Auckland
Professor Chris Bullen	MBChB DObst DCH MPH PhD FNZCPHM FAFPHM	Public Health Medicine	University of Auckland
Professor Nick Wilson	MBChB MPH	Professor of Public Health	University of Otago
Associate Professor Rhys Jones	MBChB MPH FNZCPHM	Public Health Medicine	University of Auckland

Associate Professor Elana Curtis	MD MPH DipPH MBChB BHB FNZCPHM	Public Health Medicine	University of Auckland
Associate Professor Lance C. Jennings	QSO PhD FRCPath FFSc(RCPA)	Virology	University of Otago Christchurch
Emeritus Professor Phil Garnock-Jones	BSc(Hons) PhD	Biology	Victoria University of Wellington
Honorary Associate Professor Rob Siebers	PGCertPH FNZIMLS FRSB HonFNZAP	Scientist	University of Otago
Associate Professor Siouxsie Wiles	PhD	Microbiologist	University of Auckland
Professor Stuart Dalziel	MBChB FRACP PhD	Paediatric Emergency Physician	University of Auckland
Professor Virginia Braun	PhD	Psychology	University of Auckland
Professor Andrew Juli	RN MA(Applied) PhD	Nurse	College of Nursing Aotearoa
Professor Thomas Lumley	PhD FRSNZ.	Biostatistician	University of Auckland
Professor Richard Easther	PhD	Physics	University of Auckland
Associate Professor Jonathan Marshall	PhD	Statistician	Massey University
Professor Arindam Basu	PhD	Professor of Epidemiology	University of Canterbury
Dr Kelvin Walls	PhD	Engineer & Building Surveyor	
Dr Julie Bennett	PhD	Public Health	University of Otago
Dr Gary Payinda	MD MA DDU FACEP FACEM	Emergency Medicine Specialist	
Dr Michael Howard	MD FACEP FACEM	Emergency Consultant Microbiologist Immunologist	
Dr Rory Miller	MBChB FRNZCGP FDRHMNZ	Rural GP and Hospital Medicine	University of Otago
Dr Garry Nixon	MD FRNZCGP FDRHMNZ	Rural Health	University of Otago Dunstan Hospital Central Otago
Dr Sally Talbot	MBChB Dip Obst FRNZCGP	Specialist General Practitioner	
Dr Matire Harwood	MBChB PhD MRNZCGP	GP	University of Auckland and Papakura Marae
Dr Alison Leversha	BHB MBChB DipObs FRACP(Paeds) MPH PhD	Paediatrician	University of Auckland
Dr Ruth Sinclair	MBChB FRACP	Neonatal Paediatrician	
Dr Jin Russell	MBChB DipPaed FRACP	Community and Developmental Paediatrician	University of Auckland
Dr Alice Tait- Jamieson	MBChB FRNZCGP	General Practitioner	
Dr Catherine Hurd	BSc MD CCFP FRNZCGP	General Practitioner	

	MDOLD FANZOA FEDMANZOA	Associate attat Data Maritaina	
Dr Pamela Eccles	MBChB FANZCA FFPMANZCA	Anaesthetist Pain Medicine Specialist	
Dr Indran Ramanathan	MBBS PhD FRACS	Cardiothoracic Surgeon	
Dr Miranda McEwan	BSc(Hons) MBChB PhD	General Practice	
Dr Cathy White	MBChB FRCGP	General Practitioner	
Dr Louise Kuegler	MBChB FRNZCGP	Specialist General Practitioner	
Dr Kim Williams	FRNZCGP MRCP(Lond) MRCGP	General Practitioner	
Dr Angela Glew	MA MB BChir MRCGP FRNZCGP	General Practitioner	
Dr Vivian Fu	MBChB PhD FRACP	Neurologist & General Physician	
Dr Danielle Gerrard	MBChB PGDip Paeds FRNZCGP	General Practitioner	
Dr Rebecca Randerson	MBChB FRNZCGP DipChildHealth	Specialist General Practitioner	
Dr Pauline Horrill	MBChB FRNZCGP	General Practitioner	
Dr Anna Skinner	MBChB FRNZCGP	General Practitioner	
Dr Caroline Ryan	MBChB (Otago) FRNZCGP	General Practitioner	
Dr Stephanie Taylor	BPhED (Hons) MBChB FRNZCGP	General Practitioner	University of Otago
Dr Grahame David Jelley	MBChB FRNZCGP	Specialist General Practitioner	
Dr Landi Cranstoun	MD Diplomate American Board of Family Medicine	General Practice	
Dr Laura McAulay	MBBS MRNZCGP PGcertWH	GP Registrar	
Dr Kiyomi Kitagawa	MB ChB	GP Registrar	
Dr Pam Olver	MBBCh FRNZCGP	General Practitioner	
Dr Victoria Jones	LLB BMBS FRNZCGP	General Practitioner	
Dr Brett Hyland	BHB MBChB FRNZCGP	Specialist GP	
Dr Lorna Archer	MB BS BSc	General Practitioner	
Dr Rebecca Stewart	MBChB FRNZCGP	General Practitioner	
Dr Jonathon Phillips	MBChB FRNZCGP	General Practitioner	
Dr Clare Fisher	MBChB FRCA FANZCA	Anaesthetist	
Dr Akanksha Bhargava	MBChB DCH FNZCGP	General Practitioner	
Dr Christina McLachlan	MBChB FRACP	Internal Medicine	
Dr Yu-Ching Yu	MB ChB DTM&H MPH	GP Registrar	
Dr Annick Depuydt	MBBS BA FANZCA	Anaesthetist	
Dr Tarun Sharma	FRNZCGP FRNZCUC	GP and Urgent Care Physician	
Dr Vicki Robertson	FRANZCOG	Gynaecologist	
Dr Dougal Thorburn	MBChB MPH FRNZCGP ANZCPHM	General Practitioner and Public Health Medicine	
Dr Prabani Wood	BMBCh Masters in Public Health BA FRCNZGP	General Practice	
Dr Gemma Poke	FRACP	Clinical Genetics	
		1	

Dr Pleayo Tovaranonte	MBChB LLM (Medical Law & Ethics) PGDipSpMed PGCertCAvMed PGDipHlthSrvMgmnt	General Practitioner	
Dr Andrew Wood	BM BCh PhD FRACS	ENT Surgeon	University of Auckland
Dr Sonja Bodley	MBChB FRNZCGP	General Practitioner	
Dr Raakhi Mistry	MBChB	General Practice	
Dr Prerna Sehgal	MBChB (Otago) PG Dip Paed (Auck) BPharm PG Cert Pharm (Otago)	Founding President PIHPSA	
Dr Karen McIlhone	MBChB DipPaed MPH	Public Health	
Dr Atalie Colman	MBChB FRNZCGP PhD	General Practitioner	
Dr Tina Chou	MBChB FRNZCGP PGCertCAvMed	General Practitioner	
Dr Karyn Schischka	MBChB FRNZCUC MRCEM DCH	Urgent Care Physician	
Dr David Davies- Payne	MBChB FRANZCR	Radiologist	
Dr Vivien Yong	MBChB FRACP	Internal Medicine	
Dr Robin Evison	MD FRNZCUC	Urgent Care Physician	
Dr Barbara Blok	MBChB FACEM FRNZCUC PGCertCPU PGDipTravMed	Emergency Physician Urgent Care Physician	
Dr Jasmine MacKay	BSc MBChB FRNZCUC	Urgent Care Physician	
Dr Kerry Thornbury	MBChB BSc FRNZCGP	General Practitioner	
Dr Cheryl Archer	MBChB FRNZCGP	Specialist General Practitioner	
Dr Nina Bevin	MBChB MPH MHSci DIH FRNZCGP	General Practitioner and Public Health	
Dr Jasmin Roman	MD	General Practitioner	
Dr Marama Renata	MBChB FRNZCGP	General Practitioner	
Dr Dave McKay	MBChB PGDipGP PGDipPalCare FRNZCGP	Palliative Doctor and GP	
Dr Charlotte Harris	MBchB(Hons) FRNZCGP	General Practitioner	
Dr Dasna Pallie	FRNZCGP MBCHB	General Practitioner	
Dr Brooke Vosper	MBChB MRNZCGP	General Practitioner	
Dr Lakhminder Sandhu	FRNZCGP	General Practitioner	
Dr Dilawar Singh	MBBS FRNZCGP FRNZCUC	General Practitioner and Urgent Care Physician	
Dr Clare Harford	MBChB FRNZCGP	General Practitioner	
Dr Vasanthi Bradley	MBChB	General Practitioner	
Dr Jocelyn Wood	M b B Chir MA (Cantab)FRNZCGP	General Practitioner	
Dr Joost Breuk	FRNZCGP	General Practitioner	
Dr Margaret Field Oakley	FRNZCGP	Specialist GP	
Dr Donna Lahood	MBChB FRNZCGP	General Practitioner	
Dr Jason Kohamutunga Tuhoe	MBChB FRNZCGP	General Practitioner	University of Auckland
Dr Sivanadiyan Nachiappan	MBBS FRNZCGP	General Practitioner	

Dr Claire Russell	MBBS FRNZCGP FRNZCUC	Urgent Care Clinician	CD WDHB COVID Directorate
Dr Susanna Kent	MBChB FRNZCGP Dip Forensic Med Dip Obs Dip Clin Nutrition	GP and Forensic Physician	
Dr Kirsten Tucker	MBChB FRNZCGP	General Practitioner	
Dr Kerry Macaskill-Smith	MBChB FRNZCGP DEEM DipPaeds	General Practitioner	
Dr Rhondda Turner	MBChB Dip Obs FRNZCGP	General Practitioner	
Dr Michael Loten	MBChB FRNZCGP	General Practitioner	
Dr Claire Coddington	MRCP MRCGP FRNZCGP	General Practitioner	
Dr Helen Fulcher	MBChB DipPaed PGCertHsc (Sports Med) FRNZCGP	General Practitioner	
Dr Ruth Cameron	MBChB FRNZCGP	General Practitioner	
Dr Rozanna Latif	MBChB	GP	
Dr Katrina Kirikino	MBCHB FRNZCGP Dip Obs Dip Peads	General Practitioner	
Dr Leanne Ashley	MBChB FRNZCGP NZSCM	GP and Cosmetic Medicine Doctor	
Dr Lucy Telfar Barnard	MA(Hons) PhD	Epidemiologist	University of Otago Wellington
Dr Kim Burgess	MBChB DPH FRNZCGP	General Practitioner	
Dr Jessie Anderson	MBChB FRNZCGP	General Practitioner	
Dr Jennifer Summers	PhD AKC DHMSA PGDPH PGCap BSc CStat FHEA MRSNZ	Epidemiologist	University of Otago Wellington
Dr Dermot Coffey	FRNZCGP	General Practitioner	
Dr Geraldine Tennent	FRNZCGP	General Practitioner	
Dr Anita Mudaliar	MRCGP FRNZCGP	General Practitioner	
Dr Herman van Kradenburg	MBCHB Dip Occ Med (cum laude) FRNZCGP	Consultant Specialist GP	
Dr Neilenuo Nelly Rentta	MBBS Diplomate of the National Board (DNB) General Surgery DPH	Public Health	
Dr Sarah McArthur	MBChB PGDip Child Health	General Practice	
Dr Shona Roberts	MBBS FRNZCGP	General Practitioner	
Dr Gillian Yardley	BSc MbChB FRNZCGP	General Practitioner	
Dr Naera Waters	MBChB FRACP	Medical Oncologist	
Dr Janet Hayward	MBChB FRNZCGP	General Practitioner	
Dr Maaike Mewe	FRNZCGP	Specialist GP	
Dr Helen Wood	MBChB FRNZCGP	Specialist General Practitioner	
Dr Liz Humm	MBChB FRNZCGP	General Practitioner	
Dr Beth McDonald	MBChB	General Practice	
Dr Vicki Shaw	MBChB	Youth Health	
Dr Holly Pittar	MBChB DCH	House Officer	
Dr May Ching Soh	MBChB FRACP PhD	Rheumatologist & Obstetric Physician	University of Auckland
Dr Caroline	PhD (Medicine)	Wellington Asthma Research	University of

Dr Olivia Hill	MBChB	1-	
Dr Jonathan Kennedy	FRNZCGP MBChB DPH DCH Dip Obs BSc	General Practitioner	University of Otago
Dr Phillipa Dodds	MBChB	General Practitioner	
Dr Julie-Anne Bell	MBBS MRCP FRCPath	Haematologist	
Dr Aimee Rondel	MBChB FRNZCGP	General Practitioner	
Nora Parore	BPharm PGCertClinPharm PGDipClinPharm Doctoral Candidate	Pharmacist / Kaupapa Māori Health Researcher	
Dr Heather Powell	MBBS Bsc Trop Dip	Rural Hospital / GP	
Dr Ashleigh Jensen	MBChB BSc PGDip Surg Anat.	Radiology Trainee	
Dr Rowena Woodhams	MBChB DCH	General Practice Registrar	
Lesley Gray	FFPH MPH MSc	Public Health	University of Otago Wellington
Dr Myrto Kenny	MBChB MRNZCGP	GP	
Dr Catherine Chan	MBChB FRNZCGP	General Practitioner	
Dr Katherine Bloomfield	BSc MBChB FRACP	Geriatrician	University of Auckland
Dr Keith Colvine	MBChB FRACP	Rheumatologist and General Physician	
Dr Dalilah Restrepo		Infectious Diseases Specialist	MidCentral DHB
Dr Monika Pradhan	MBBS MS DOMS FCPS MRCOphth	Ophthalmology	
Dr Sharon Gardiner	PhD	Antimicrobial Stewardship Pharmacist	
Dr Alicia Didsbury	PhD	Immunologist	University of Auckland
Dr Olivia Tan	FRNZCGP MBChB	General Practitioner	
Dr Thomas Wong	MBChB	Infectious Diseases and Geriatrics	
Dr Tim Cunningham	MBChB DipObst FRNZCGP	General Practitioner	
Dr Anna Cherry	MBBCh FRNZCGP	General Practitioner	
Dr Danuta Amelung	BHB MBChB FRNZCGP	Specialist General Practitioner	
Dr Maritza Farrant	MBChB MPH FRACP	Endocrine Fellow	ADHB
Dr James Lello	MBChB DCH MMedSci FRNZCGP	Medical Educator Senior Lecturer	University of Auckland
Dr Tracy Ball	MBChB MRCGP FRNZCGP	General Practitioner	
Dr Joyce Chan	FRNZCGP MBChB Dip Paeds	General Practitioner	
Dr Stephen Streat	FRACP	Intensivist	
Dr Heather Murray	MBChB Dip Child Health FRNZCGP	General Practitioner	
Dr Greg White	MBChB	GP	
Dr Katherine Stevens	PhD	Health Economics. Measuring and valuing child health.	Honorary contract at The University of Auckland
Dr Andrew Dickson	PhD BSc	Health Sociologist	Massey University

Dr David Eccles	BBmedSc(Hons) BSc PhD	Genetics / Nanopore Sequencing	Malaghan Institute of Medical Research
Dr Cayley Ingham	MBChB DCH MPH	Public Health	NZCPHM
Dr Neil Gemmell	PhD	Genetics	University of Otago
Dr Julianna Lees	MBChB MPH FNZCPHM	Public Health Physician	
Dr Tamsin Braisher	PhD	Molecular Ecology	University of Otago
Dr Eng Ann Toh	MB ChB PhD DPH MPH	Public Health Medicine Trainee	
Dr Heather Battles	PhD	Biological Anthropologist	The University of Auckland
Dr Joep de Ligt	PhD	Genomics	ESR
Gustavo Olivares	MSc	Air quality scientist	
Dr Murray Cadzow	PhD	Genomics	University of Otago
Dr Rochelle Phipps	MBChB FRNZCGP DCH MBA	General Practitioner	
Dr June Leung	MBBS MPH MD	Public Health Researcher	Massey University
Dr Anna Santure	PhD	Genetics	University of Auckland
Dr Natasha Grimsey	PhD	Pharmacology	University of Auckland
Leanne Te Karu	MHSc, PGDipClinPharm, PGCertPrescribing, PGCertHerbalMeds, PhDCandidate		University of Auckland Department of General Practice
Dr Mike Foss	BSc Dip Sc MBChB FANZCA FFPMANZCA	Anaesthesia and pain medicine	
Dr Jennifer Keys	FDRHM	Rural Hospital Medicine	
Dr Kyle Eggleton	MBChB MMedSci MPH PhD FRNZCGP(Dist)	General Practitioner	University of Auckland
Dr Sarah Clarke	FRNZCUC FRHMNZ	Rural Medicine	
Dr Ramon Pink	MBChB MPH FAFPHM FNZCPHM	Public Health	MZCPHM
Dr Anna Stevenson	MBChB, Dip Paeds, DipEpi, MPH	Public Health Medicine	NZCPHM
Dr Rosemary Bruce	MBChB FRNZCGP	Specialist General Practicioner Rural Health	
Dr Ian Ternouth	FRCP FRACP FCSANZ	Physician Cardiologist	Taranaki DHB
Dr Linda Pirrit	FRNZCGP	Specialist General Practitioner	
Dr Alastair Mark	MBChB FANZCA	Anaesthetist	
Dr Rall Koen	MBChB FRNZCGP FRNZCUC	General Practitioner	
Dr Campbell White	MBChB FRACP	Consultant Physician Internal Medicine	
Dr Ricardo Jurawan	MBBs FRACP	Internal Medicine and Gastroenterology	
Prof. A.W. Peet	PhD	Theoretical Physics	University of Toronto
Dr Lisa Bundy	MBChB BSc MRCP FRCA FACEM	Emergency Medicine Consultant.	
Dr Mahmoud Amer	MBChB FRACP	Nephrology	

	MPOLE EDUZGOE	0 15	
Dr Katherine Lovell	MBChB FRNZCGP	General Practitioner	
Dr Helen Nelson	MB ChB FRANZCP	Psychiatrist	
Dr Kathryn Day	MBChB MA Physiological Sciences (Oxford) FDRHMNZ	Rural Hospital Specialist	
Dr Mariam Parwaiz	MBChB MPH (Hons) FNZCPHM	Public Health Physician	
Dr Rebekah Jaung	MBChB PhD MPH	Public Health	
Puja Singh	BEng PostGradDipSci BA MA	Evolutionary Psychology	University of Auckland University of Aberystwyth
Dr Mavis Duncanson	MB ChB MPH PhD FAFPHM FNZCPHM	Public Health Physician	
Dr Stuart Ekdahl	MBChB FRNZCUC	Urgent Care	
Dr Ingrid Crawford	MBChB PHCertWHIth FRNZCGP	Specialist General Practitione	
Dr Kevin Sum	MBBS FRACP	Internal Medicine Respiratory Medicine	
Dr Malcolm Scott	MBChB FRNZCGP	Family medicine	
Dr Ana Rakonjac	PhD	Physics	Measurement Standards Laboratory
Amanda Rouse	RN, RM, Master of Healthcare		
Dr Rajesh Kumar	MBBS FRACP	Internal Medicine	
Justine Paterson	DipNursing, BSc (Nursing)	Public Health Nurse	
Dr. Matthew Rowe	PhD	Cell and Molecular Biology	SciLifeLab
Dr Mona Jeffreys	PhD	Epidemiologist	VUW
Dr Tony Oldham	Psychology, EBP, Methodology		AUT
Dr Sharon McHardy	MBChB FRNZCGP FRNZCUC	Urgent Care Physician, Specialist General Practitioner	
Dr Susan Genner	MBChB Dip Obs MRNZCGP	Consultant General Practitioner	
Dr Sarah Redfern	MBChB FRNZCGP	General Practitioner/ GPSI Skin Cancer	
Dr Bevan Weir	PhD	Microbiology	Manaaki Whenua - Landcare Research
Dr Jo Scott-Jones	FRNZCGP MMSc	General Practitioner	
Dr Matthew Reid	BMedSci (Bioethics) MBChB DCH MPH FNZCPHM	Public Health Medicine	
Dr Bridget Wilson	MBChB MPH NZCPHM	Public Health Medicine Specialist	
Dr Al Donoghue	MBChB MBA FRANZCOG	Obstetrician and Gynaecologist	
Dr John Shepherd	MBChB FRACP	Geriatrician	
Dr Tanya Wilton	MBChB FACEM	Emergency Medicine	
Lou Wickham	Bachelor Chemical Engineering, Master Environmental Law		
Elizabeth Oliphant	BPharm PGDipPharmPrac PhD candidate	Paediatric Pharmacist & Doctoral Candidate in Paediatrics	University of Auckland
Dr Amanda Hunt	BHB, MPhil(EnvSc)Hons	Public Health	BOPDHB
Dr Gerda Kuschel	PhD BE	Senior Air Quality Specialist	Emission Impossible Ltd

## www.vaccinesplus.nz vaccinesplusnz@pm.me

Professor Nigel French	BVSc MSc(Epidemiology) PhD	Epidemiology	Massey University
Dr Ruth Large	MBChB FACEM FDRHM	Emergency Medicine, Telehealth	
Dr Bruce King	PhD	Elementary Particle Physics	Columbia University in the City of New York
Dr Katarina Gray- Sharp	PhD	Anthropogenic mass extinction/Kaupapa Māori researcher	Massey University
Dr Abdulmumuni Samuel Aliyu	MPhil MCH	Infectious diseases	University of Cape Town, South Africa
Libby Grant	МРН	Public Health researcher	University of Otago
Dr David Keegan	MD CCFP(EM) FCFP	Family Physician, Professor of Family Medicine	Cumming School of Medicine, University of Calgary
Dr Rachel Nicholls	PhD, MPH	Public Health	NZCS
Dr Frances Moon	MBChB FRNZCGP	General Practitioner	
Dr Bernard Cammack	MBChB FRNZCGP	General Practitioner	
Dr Ann Evans	MBChB FRNZCGP	General Practitioner	
Dr R Scott Springford Metcalfe	MBChB DComH FAFPHM(RACP) FNZCPHM FNZMA	Public Health Physician	
Dr Kristin Smith	FRANZCR	Radiologist	
Dr Rosemary Anne Kingham	MBChB FANZCA	Retired anaesthetist	
Dr Jennifer HY Lin	BPharm RegPharmNZ MPhil PhD	Medicinal & computational chemistry/Data science	
Dr Bradley Case	PhD	Ecology	AUT
Dr Alison Blaiklock	MPHTM FNZCPHM	Public Health Physician	
Dr Sharon Kletchko	FRACP	Quality and Risk, Governance and Compliance	