
The Peter Doherty Institute for Infection and Immunity *and* National Centre for Immunisation Research and Surveillance (NCIRS) *present*

A course in vaccinology and immunisation science

Who is this course for?

This practical online course is for people relatively new to the area and for those wanting to broaden and update their understanding of vaccines, vaccine development and the principles underpinning the introduction and running of immunisation programs.

This includes, but is not limited to, practitioners, academics and researchers, such as primary healthcare and specialist doctors, community and immunisation nurses, those working in public health, government (all levels) and health policy, pharmaceutical industry, regulators, aged care workers, journalists and ethics committee members.

How much does this course cost?

The course in 2022, comprises 10 modules and the registration fee is A\$200 (standard), A\$100 (full-time students) or A\$100 for 6 or fewer modules. Registrants will also have access to a 'Primer' module in vaccines and immunisation which was presented, free, in 2021.

Full fee remission scholarships are available for those from selected regional countries.

Instructions on applying for scholarships will be available with registration for Module 2 onwards.

Visit [our website](#) for more information and to register for the course.

How will the course run?

Sessions will be run via Zoom, facilitated by Australian and international experts in their field. Sessions will include principles and case studies with opportunities for learner questions and contributions. The indicative schedule of modules is on the following page.

Access to course materials will only be provided to registrants. Course completion certificates for each module attended will also be provided.

Course schedule

Topic	Date and time
A primer in vaccines and immunisation: History, key epidemiologic and immunologic principles, introduction to vaccine programs and safety. Lessons from COVID-19 for future vaccines.	November 2021 – Video available here
Vaccine immunology: The immune response, innate and adaptive features, including immune memory, modern vaccine technologies and platforms.	Wednesday February 9th 2022 7pm – 9.30pm AEDT (Recording available for registrants)
Vaccine design: More on advances in vaccine and immunisation technologies, intended and non-intended effects of vaccines, adjuvant mechanisms and safety.	Wednesday February 23rd 2022 7pm – 9.30pm AEDT
Clinical trials: Clinical trial design – Phase I-IV, evolution of clinical trial processes, adaptive and cluster designs, volunteer recruitment, how results are analysed, vaccine immunogenicity, efficacy and safety for licensure.	Wednesday March 2nd 2022 7pm – 9.30pm AEDT
The value of vaccines: Health economics for vaccine policy, disease burden and the public health impact of vaccines, vaccine funding frameworks, measuring vaccine cost effectiveness, equity and value.	Wednesday 16th March 2022 7pm – 9.30pm AEDT
Vaccine manufacture and regulation: Licensure process, emergency use authorisation and good manufacturing practice, post-marketing commitments, IP sharing, technology transfer and global equity, interactions between pharmaceutical industry and governments.	Wednesday 6th April 2022 7 pm start
Vaccination programs: Introducing vaccines into immunisation programs, importance and role of expert advisory bodies, vaccine delivery approaches, maternal immunisation, program communications and vaccine promotion, role of GAVI (the Vaccine Alliance), UNICEF and WHO.	Wednesday 20th April 2022 7 pm start
Surveillance and evaluation of vaccination programs: Immunisation program surveillance infrastructure, measuring vaccine coverage, measuring effectiveness and public health impact on disease control, implementation.	Wednesday 27th April 2022 7 pm start
Vaccine safety: Pharmacovigilance and models for monitoring vaccine safety and adverse events, assessing, preventing and mitigating adverse events, causality assessments, risk benefit framing and managing uncertainty.	TBC: Wednesday 11th May 2022 7 pm start
Social and behavioural dimensions of vaccination: Social and behavioural drivers of vaccine uptake, influences on vaccine confidence, evidence-based interventions for increasing vaccine uptake, vaccine access, addressing vaccine hesitancy in the clinic and community.	TBC: Wednesday 25th May 2022 7 pm start
Current and future vaccine preventable disease challenges: Planning for emerging infections and pandemic responses, accelerated pathways for new vaccines, the role of CEPI, technology transfer and increasing independence of LMIC, innovations in vaccine delivery and future vaccination programs.	TBC: Wednesday 8th June 2022 7 pm start

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