

### 7<sup>th</sup> SOUTHERN CROSS AUSTRALASIAN TRAVEL AND TROPICAL MEDICINE CONFERENCE

#### Health beyond borders: advancing travel and tropical medicine

Sofitel, Brisbane September 27-29, 2024

### FRIDAY 27 SEPTEMBER, 2024

08:00 - 08:30	REGISTRATION & COFFEE			
08:30 - 08:45	OPENING SESSION TROPICAL MEDICINE  Conference Welcome:  Prof Colleen Lau, The University of Queensland (UQ), ACTM President  Prof Richard Franklin, James Cook University (JCU), ACTM President-Elect and Conference Chair  Acknowledgement of Country			
08:45 - 10:15	PLENARY: CHRONIC SEQUELAE OF INFECTIOUS DISEASES Chairs: Prof Colleen Lau, UQ, Brisbane; A/Prof Philip Britton, The Children's Hospital at Westmead, Sydney	08:45 – 10:15	WORKSHOP 1 (Session 1): GETTING STARTED IN TRAVEL MEDICINE Organiser: Tonia Buzzolini, Travelvax, Sunshine Coast	
08:45 - 09:15	2024 ACTM Ashdown Oration Tuberculosis (TB) and TB drugs Prof Anne McCarthy, University of Ottawa, Canada	08:45 – 09:15	First Steps in Travel Medicine: Navigating the Path to Practice Lisa Scotland (RN), Worldwise, New Zealand	
09:15 - 09:45	Leprosy elimination in the Pacific Islands <b>Prof Warwick Britton</b> , University of Sydney, Sydney	09:15 – 09:45	Team Dynamics in Travel Medicine: Unveiling the Roles of Doctors, Nurses, and Receptionists  Danielle Peel (NP), Travel Clinics Australia, Sydney	
09:45 – 10:15	Streptococcal infection and rheumatic heart disease in the Pacific Islands  Prof Satupaitea Viali, Oceania University of Medicine, Samoa	09:45 – 10:15	Staying Current in Travel Medicine: Tools and Techniques  Caroline Nash (RN), Aspen Medical, Canberra	

10:15 - 10:45	MORNING TEA & Poster Viewing		
10:45 – 12:15	INSIGHTS IN INFECTIOUS DISEASE PREVENTION, CONTROL AND OUTCOMES  Chairs: Prof Dennis Shanks, Australian Defence Force Malaria and Infectious Diseases Unit (ADF MIDI), Brisbane; Dr Sarah McGuinness, Monash University, Melbourne	10:45 – 12:15	WORKSHOP 1 (Session 2): GETTING STARTED IN TRAVEL MEDICINE
10:45 – 11:15	Plasmodium vivax malaria – challenges and opportunities in case management and elimination  Dr John Woodford, QIMR Berghofer (QIMR-B), Brisbane	10:45 – 11:15	The Travel Consult  Danielle Peel (NP), Travel Clinics Australia, Sydney Lisa Scotland (RN), Worldwise, New Zealand
11:15 – 12:15	<ul> <li>Free Communications:</li> <li>Long-term persistence of antibodies following Japanese encephalitis virus vaccination with Imojev in adults residing in a non-endemic setting</li> <li>Dr Deborah Mills, Dr Deb The Travel Doctor, Brisbane</li> <li>COVID-19 vaccine hesitancy and associated factors in the Dominican Republic in 2021: a national, multilevel analysis Dr Behzad Kiani, UQ, Brisbane</li> <li>A Bayesian network model for estimating risk of long COVID Jane Sinclair, UQ, Brisbane</li> <li>Undernutrition increases the risk of unsuccessful treatment outcomes of patients with tuberculosis in Ethiopia: a multicenter retrospective cohort study</li> <li>Fasil Shiferaw, Australian National University, Canberra</li> </ul>	11:15 – 12:15	Case study/small learning group & panel Tonia Buzzolini (RN), Travelvax, Sunshine Coast Lisa Scotland (RN), Worldwise, New Zealand Caroline Nash (RN), Aspen Medical, Canberra Danielle Peel (NP), Travel Clinics Australia, Sydney
12:15 – 13:15	LUNCH & Poster Viewing	LUNCH & Poste	r Viewing
		13:00 – 15:00	WORKSHOP 2 (Session 1): YELLOW FEVER
13:15 - 14:45	ADVANCES IN VECTOR-BORNE DISEASE SURVEILLANCE AND CONTROL Chairs: A/Prof Gregor Devine, QIMR-B, Brisbane; Dr Patrick Lammie, COR-NTD, USA Genomic surveillance of arboviruses in the Pacific Islands	13:00 – 15:00	Organisers / Speakers:  Dr Jennifer Sisson, Travel Doctor-TMVC, Canberra  Prof Marc Shaw, Worldwise, Auckland  Tonia Buzzolini, Travelvax, Sunshine Coast
13:15 – 13:45	Genomic surveillance of arboviruses in the Pacific Islands		What is yellow fever?

13:45 – 14:45	<ul> <li>Dr Van-Mai Cao-Lormeau, Louis Malarde Institute, French Polynesia</li> <li>Free Communications:         <ul> <li>What dengue vector sampling methods perform best in the Pacific Islands? A multi-country Latin square study Dr Adam Craig, UQ, Brisbane</li> <li>Accelerating elimination of lymphatic filariasis in the South Pacific using genomics Dr Shannon Hedtke, La Trobe University, Melbourne</li> <li>Molecular xenomonitoring for lymphatic filariasis surveillance in Samoa, 2018-2023</li></ul></li></ul>		<ul> <li>Legal requirements and accreditation</li> <li>Indications, contraindications and adverse events</li> </ul>
14:45 – 15:15	AFTERNOON TEA		
15:15 – 16:45	INNOVATIVE APPROACHES TO CONTROL AND ELIMINATION OF NEGLECTED TROPICAL DISEASES Chairs: Prof Patricia Graves, JCU, Townsville; Prof John Kaldor, UNSW Kirby Institute, Sydney	15:15 – 16:45	WORKSHOP 2 (Session 2): YELLOW FEVER
15:15 – 15:45	Mass Drug Administration for LF and Yaws Elimination in PNG Prof Christopher King, Case Western Reserve University, USA	15:15 – 16:45	Organisers / Speakers: <b>Dr Jennifer Sisson</b> , Travel Doctor-TMVC, Canberra
15:45 – 16:45	<ul> <li>Free Communications:</li> <li>Impact of triple-drug mass drug administration on lymphatic filariasis in Samoa         Dr Helen Mayfield, UQ, Brisbane     </li> <li>Integrated serological surveillance for multiple infectious diseases in Vanuatu         Dr Mohamad Assoum, UNSW Kirby Institute, Sydney     </li> <li>Methodological approach to post-validation surveillance of lymphatic filariasis in Tonga, 2024         Dr Harriet Lawford, UQ, Brisbane     </li> <li>Mapping risk prediction for hookworm and Strongyloides in adolescents and adults in Dak Lak province, Vietnam</li> </ul>		Prof Marc Shaw, Worldwise, Auckland Tonia Buzzolini, Travelvax, Sunshine Coast  Special travellers (e.g. immunocompromised)  Case studies Short MCQ paper

	Dr Adam Bartlett, UNSW Kirby Institute, Sydney
16:45 – 17:30	CLOSING SESSION
	Chair: <b>Prof Richard Franklin</b> , JCU, Townsville
16:45 – 17:15	Inaugural Prof Peter Leggat AM Oration
	Innovation in travel medicine
	Prof Gerard Flaherty, University of Galway, Ireland
17:15 – 17:30	Tributes to Peter Leggat – Past ACTM Presidents
17:30 – 18:00	Launch of Don McManus Tropical Health Research Centre
	Prof Darren Gray, QIMR-B, Brisbane
18:00 – 19:30	Welcome drinks and canapes (all delegates welcome)

# SATURDAY, 28 SEPTEMBER 2024

08:00 - 08:50	REGISTRATION						
08:50 - 09:00	OPENING SESSION TRAVEL MEDICINE						
09:00 – 10:30	Opening by College President:  VACCINES: WHAT'S ON THE HORIZON  Chairs: A/Prof Michael Nissen, UQ, Brisbane; Dr  Stephen Muhi, University of Melbourne,  Melbourne	09:00 -10:30	WORKSHOP 3:  MATHEMATICAL MODELLING  Organiser: Prof Emma McBryde, JCU, Townsville				
09:00 – 09:30	Needle-Free Vaccination: Advances in Patch- Based Vaccine Delivery Systems  Mr Ben Baker, Vaxxas, Brisbane	09:00 – 09:30	Modelling tuberculosis for optimal disease control  Prof Emma McBryde, JCU, Townsville				
09:30 – 10:00	New and Upcoming Vaccines and their Applicability to Travellers <b>Dr Archana Koirala</b> , NCIRS, Sydney	09:30 – 10:00	Modelling the impact of vaccine on COVID-19 attack rate <b>Dr Michael Meehan</b> , JCU, Townsville				
10:00 – 10:30	New and alternative schedules for rabies, Japanese encephalitis and other diseases <b>Dr Deb Mills</b> , Dr Deb The Travel Doctor, Brisbane	10:00 – 10:30	Forecasting vector-borne diseases using mechanistic models  Mr Alec Henderson, JCU, Townsville				
10:30 - 11:00	MORNING TEA & Poster Viewing						
11:00 – 12:30	CASE STUDIES: DISRUPTED JOURNEYS  Moderator: Dr Sarah Chu, Turbot Street Medical Centre	11:00 – 12:30	WORKSHOP 4: SPATIAL EPIDEMIOLOGY Organiser: Dr Behzad Kiani, UQ				
11:00 – 12:30	Panellists: • Prof Gerard Flaherty, University of Galway,	11:00 – 11:15	Welcome and brief overview on spatial epidemiology <b>Dr Behzad Kiani</b> , UQ, Brisbane				
	<ul> <li>Ireland</li> <li>Prof Anne McCarthy, University of Ottawa, Canada</li> <li>Prof Richard Franklin, JCU, Townsville</li> </ul>	11:15 – 11:35	Application of spatial epidemiology to enhance surveillance and support lymphatic filariasis elimination programmes <b>Dr Beatris Martin</b> , UQ, Brisbane				
	<ul> <li>Prof Marc Shaw, Worldwise, Auckland</li> <li>Prof Nick Zwar, Bond University, Gold Coast</li> </ul>	11:35 – 11:55	Human footprint is associated with shifts in the assemblages of major vector-borne diseases				

				Dr Eloise Skinner, U	JQ, Brisbane
		risk in Dak Lak provir		ethods to predict soil-transmitted helminth nce, Vietnam INSW Kirby Institute, Sydney	
		12:15 – 12:30	· · · · · · · · · · · · · · · · · · ·		
12:30 - 13:30	LUNCH & Poster Viewing				ccine-preventable diseases :45 – 13:30 (see details below)
13:30 – 15:00	HEALTHY JOURNEYS Chairs: Prof Richard Franklin, JCU; Dr Luis Furuya-Kanamori, UQ	13:30 – 15:00	WORKSHOP 5: ONE HEALTH: STRO Organiser: Prof Dai		WORKSHOP 6:  MOLECULAR XENOMONITORING (MX)  Organiser: A/Prof Gregor Devine, QIMR- B
13:30 – 14:00	Travel and thrombosis <b>Dr Michelle Spanevello</b> , Royal  Brisbane and Women's Hospital,  Brisbane	13:30 – 15:00		U, Townsville diatric infection	Molecular xenodiagnostics – why, where and what?  Lt Col Brady McPherson, ADF MIDI, Brisbane  MX as a potential surveillance tool for LF surveillance in Samoa
14:00 – 14:30	Sexual health and travel <b>Dr Ken Koh</b> , Gladstone Road  Medical Centre, Brisbane		Sydney  Life stages of <i>S. ster</i> diagnostics  A/Prof Richard Bra Townsville	rcoralis in clinical	MX metabarcoding workflows for pathogens, vectors, vertebrates  Dr Brian Johnson, QIMR-B, Brisbane  MVEV and JEV surveillance in Victoria

14:30 – 15:00	Dental health and travel  Dr Mohammed Shorab, JCU,  Townsville		CRISPR-based diagnostics for strongyloidiasis  Dr Hong You, QIMR-B, Brisbane  Moxidectin for the treatment of strongyloidiasis  Dr Vito Colella	Jana Batovska, Agriculture Victoria, Melbourne  Xenosurveillance for zoonotic arboviruses in Papua New Guinea Dr David Williams, CSIRO, Geelong
15:00 – 15:30	AFTERNOON TEA & Poster Viewi	ng		
15:30 – 17:00	CASE STUDIES: TRAVELLING WITH CHILDREN AND FAMILIES Moderator: Dr Sarah McGuinness, Monash University, Melbourne	15:30 – 17:00	WORKSHOP 5: ONE HEALTH: STRONGYLOIDES	WORKSHOP 6: MOLECULAR XENOMONITORING (MX)
15:30 – 17:00	<ul> <li>A/Prof Philip Britton, The Children's Hospital at Westmead, Sydney</li> <li>Dr Sarah Chu, Turbot Street Medical Centre, Brisbane</li> <li>Dr Deb Mills, Dr Deb The Travel Doctor, Brisbane</li> <li>Mrs Lisa Scotland, Worldwise, New Zealand</li> <li>Dr Robyn Silcock, Queensland Children's Hospital, Brisbane</li> </ul>	15:30 – 17:00	Working with community for disease control  Dr Ros Beadle, University of Melbourne, Melbourne  Barefoot in the bush  Mr Michael Spry, NT Health, Darwin  Clinical overview of strongyloidiasis  Dr Wendy Page, JCU, Townsville  Panel discussion with Q&A:  WHO guidelines for control and a One Health approach to elimination  Prof Darren Gray, QIMR-B, Brisbane  Dr Bronwyn Rossingh, Miwatj Health Aboriginal Corporation, Darwin  Prof Alex Loukas, JCU, Townsville	Sero-surveys of RRV vertebrate reservoirs using mosquito blood meals  Prof Greg Devine, QIMR-B, Brisbane  Mycobacterium ulcerans: MX and vector/reservoir incrimination  Peter Mee, Agriculture Victoria, Melbourne  Statistical considerations and practical tools for the design and analysis of MX surveys  Dr Angus McLure, Australian National University, Canberra
17:00 – 17:15	Meet the sponsors			

17:15 – 17:30	Prizes for best abstract presentations by early/mid-career researchers and students
17:30 – 18:00	ACTM Annual General Meeting (ACTM Members, face to face and Zoom)
From 19:00	Networking dinner for Early Career Researchers and Students

## **SUNDAY, 29 SEPTEMBER, 2024**

08:30 - 09:00	REGISTRATION				
09:00 – 10:30	The 'WISEwords' Talks Chair: Prof Marc Shaw, Worldwise, Auckland	POSTER TOURS (see below for details)			
09:00 – 10:30	Health benefits of travel – <b>Prof Gerard Flaherty</b> , University of Galway, Ireland A misplaced humanitarian aid project – <b>Prof Marc Shaw</b> , Worldwise, Auckland Preparing for global health activities – <b>Prof Anne McCarthy</b> , University of Ottawa, Canada Risky photo ops: selfies and injury – <b>Prof Richard Franklin</b> , JCU, Townsville Deaths in travellers – <b>Dr Luis Furuya-Kanamori</b> , UQ, Brisbane Ten Takeaways from APTHC – <b>Dr Sarah McGuinness</b> , Monash University, Melbourne	POSTER TOUR 2: Vector-borne & zoonotic diseases  Tour leader: A/Prof Gregor Devine, 09:00-09:40  POSTER TOUR 3: Neglected tropical diseases - surveillance  Tour leader: Dr Patrick Lammie, 09:50-10:30			
10:30 - 11:00	MORNING TEA				
11:00 – 12:30	TRAVEL-RELATED CHALLENGES  Chairs: A/Prof Philip Britton, The Children's Hospital at Westmead, Sydney; Dr  Deborah Mills, Dr Deb the Travel Doctor, Brisbane	POSTER TOURS (see below for details)			
11:00 – 11:30	Malaria prevention and diagnosis  Prof Anne McCarthy, University of Ottawa, Canada	POSTER TOUR 4: Neglected tropical diseases – innovative approaches			
11:30 – 12:00	Parasitic infections: overlooked and underdiagnosed  Dr Richard Bradbury, James Cook University, Townsville	Tour leader: <b>Prof Patricia Graves</b> , 11:00-11:45			
12:00 – 12:30	Travellers with obesity  Prof Gerard Flaherty, University of Galway, Ireland				
12:30 – 12:50	Travel and Tropical Medicine Quiz  Hosts: Dr Stephen Muhi, University of Melbourne, Melbourne; Prof Anne McCarthy, University of Melbourne, Mel	Jniversity of Ottawa, Canada			
12:50 – 13:00	CLOSING REMARKS  Dr Sarah McGuinness, Monash University, Melbourne, Chair of Scientific Programme Committee  Prof Richard Franklin, James Cook University, Townsville, new ACTM President and Conference Chair				

**Please Note:** There may be slight changes to the program to accommodate the requests and needs of the presenters and participants.

### **POSTER PRESENTATIONS**

**Poster display:** All posters will be displayed during the whole conference.

**Poster tours:** Some posters have been selected for poster tours, which will be led by an international expert in the field. At each poster, there will be a 3-minute presentation followed by a 5-minute discussion. All welcome.

Poster tour topics	Tour leaders	Date and time	Meet at
Travel medicine & vaccine- preventable diseases	Dr Luis Furuya-Kanamori	Saturday, 12:45pm-1:30pm (lunch available in poster room)	Poster TMV1
Vector-borne diseases	A/Prof Gregor Devine	Sunday, 9:00am-9:40am	Poster VBD1
Neglected tropical diseases – surveillance	Dr Patrick Lammie	Sunday, 9:50am-10:30am	Poster NTD1
Neglected tropical diseases – innovative approaches	Prof Patricia Graves	Sunday, 11:00am-11:45am	Poster NTD5

Category	Poster ID	Presenter	Title	Poster Tour #
Travel medicine & vaccine- preventable diseases	TMV1	Siobhan Carroll	Incidence and risk factors for travellers' diarrhoea among short-term international adult travellers from high-income countries: a systematic review with meta-analysis of cohort studies	1
Travel medicine & vaccine- preventable diseases	TMV2	Hongen Lu	Travel network analysis for infectious disease transmission in Pacific Island countries	1
Travel medicine & vaccine- preventable diseases	TMV3	Susan Heydon	Implementing the global smallpox programme in Nepal: why did it succeed?	1
Travel medicine & vaccine- preventable diseases	TMV4	Wondimeneh Shiferaw	Exploring the burden of sexually transmissible infections and blood-borne viruses in refugees and asylum seekers: Insights to inform policy and practice	1
Travel medicine & vaccine- preventable diseases	TMV5	Yan Zhu	Malaria chemoprophylaxis among travel medicine practitioners in China	1
Travel medicine & vaccine- preventable diseases	TMV6	Mikaela Seymour, Queensland Health	Prevalence of sexually transmitted infections and positive treponemal serology in Solomon Islands guest workers in Australia	1
Vector-borne diseases	VBD1	Eloise Skinner	Unpredictable times doesn't mean unpredictable diseases; cumulative human pressures are an important predictor for the occurrence of major vector-borne diseases.	2
Vector-borne diseases	VBD2	Kien Quoc Do	Risk assessment to identify Dengue hot spots for early intervention	2
Vector-borne diseases	VBD4	Beatris Mario Martin	Exploring spatial variation in environmental and sociodemographic drivers of leptospirosis in the Dominican Republic using a geographically weighted regression	2

Neglected tropical diseases –	NTD1	Alison Jaworski	Is Australia on track to eliminate trachoma as a public health problem by	3
surveillance			2025? An analysis of latest prevalence data	
Neglected tropical diseases –	NTD2	Harriet Lawford	Seroprevalence of the lymphatic filariasis antibody Bm14 six-months following	3
surveillance			mass drug administration in Samoa	
Neglected tropical diseases –	NTD3	Adam Bartlett	Integrated surveys and mass drug administration for the control of neglected	3
surveillance			tropical diseases in Vanuatu	
Neglected tropical diseases –	NTD4	Marta Palmeirim	Onchocerciasis Seroprevalence In Bié Province, Angola: A Cross-Sectional	3
surveillance			Survey To Guide Efforts Towards Elimination	
Neglected tropical diseases –	NTD5	Mary Lorraine	"The Magic Glasses Philippines", an educational cartoon: from science to scale	4
innovative approaches		Mationg		
Neglected tropical diseases –	NTD6	Raffy Deray	Developing a multi disease elimination plan in the Philippines, an integrated	4
innovative approaches			approach to health system strengthening to accelerate elimination of malaria	
			and neglected tropical diseases.	
Neglected tropical diseases –	NTD7	Catherine Gordon	A comprehensive elimination program for <i>S. mekongi</i> elimination in Cambodia	4
innovative approaches			and Laos	
Neglected tropical diseases –	NTD8	Alison Jaworski	South-east Asian and Pacific NTD programs' responses to the COVID-19	4
innovative approaches			pandemic	
Neglected tropical diseases	NTD9	Liuyi Chen	Seroprevalence of Antibodies to Neglected Tropical Diseases, leptospirosis,	
			and arboviruses in the Western Pacific Region	
Neglected tropical diseases	NTD10	Selina Ward	Integrated serosurveillance of infectious diseases using multiplex bead assays:	
			A systematic review.	
Neglected tropical diseases	NTD11	Huan Zhao	Feline strongyloidiasis: global prevalence and cross-species transmission	
Neglected tropical diseases	NTD12	Beatris Mario Martin	Infectious Diseases in the Samoan Islands: A Systematic Review of the	
			prevalence of Neglected Tropical Diseases, Vector-Borne Diseases, Vaccine-	
			Preventable Diseases, Blood-Borne Viruses, and Zoonotic Pathogens	
Neglected tropical diseases	NTD13	Behzad Kiani	Gentrification and infectious diseases in urban neighbourhoods: an	
			interdisciplinary narrative review	
Neglected tropical diseases	NTD14	Suji O'Connor	Acceptability and impact of a cartoon-based helminth education package for	
			schoolchildren in the Lower Mekong Basin	
Neglected tropical diseases	NTD15	Susana Vaz Nery	Acceptability of integrated neglected tropical diseases surveys and mass drug	
			administration in Vanuatu	