Additional File 1. Extended pathogen panel investigated in RACSMEI

This table presents the extended panel of pathogens investigated as secondary or exploratory outcomes in RACSMEI, including vaccine-preventable, elimination-targeted, emerging, and environmentally mediated pathogens. These analyses leverage the multiplex serological platform and molecular assays to inform long-term surveillance priorities and policy planning.

Pathogen category	Pathogen	Host / matrix	Laboratory methods
Vaccine-preventable diseases	Measles virus	Humans	Serology
	Mumps virus	Humans	Serology
	Rubella virus	Humans	Serology
	Diphtheria (Corynebacterium diphtheriae)	Humans	Serology
	Tetanus (Clostridium tetani)	Humans	Serology
	Pertussis (Bordetella pertussis)	Humans	Serology
	Poliovirus	Humans	Serology
	Varicella-zoster virus	Humans	Serology
	Human papillomavirus (HPV)	Humans	Serology
	Rotavirus	Humans	Serology
	Streptococcus pneumoniae	Humans	Serology
	Neisseria meningitidis (serogroup A)	Humans	Serology
	Yellow fever virus	Humans	Serology
Emerging and under-documented viruses	Usutu virus	Humans	Serology
	Mayaro virus	Humans	Serology
	Oropouche virus	Humans	Serology
	Rift Valley fever virus	Humans, livestock	Serology
	Hepatitis A virus	Humans	Serology
Enteric and environmentally mediated pathogens	Hepatitis E virus	Humans, pigs	Serology; RT-qPCR
	Norovirus	Humans	Serology
	Enteroviruses (EV71, D68)	Humans	Serology
	Adenoviruses	Humans	Serology
	Salmonella Typhi	Humans	Serology
	Vibrio cholerae	Humans, water	RT-qPCR; metagenomics
	Legionella pneumophila	Water, air	RT-qPCR; metagenomics
	Mycoplasma pneumoniae	Humans	Serology
	Chlamydia pneumoniae	Humans	Serology
	Lymphatic filariasis	Humans	Serology
Neglected tropical and parasitic diseases	Toxoplasma gondii	Humans	Serology
	Giardia intestinalis	Humans	Serology
	Entamoeba histolytica	Humans	Serology
	Strongyloides stercoralis	Humans	Serology
	Soil-transmitted helminths (Ascaris, Trichuris)	Humans	Serology
	Liver flukes (Opisthorchis viverrini, Clonorchis sinensis)	Humans	Serology
	Schistosoma spp.	Humans	Serology

Abbreviations: RT-qPCR = reverse transcription quantitative polymerase chain reaction. Full assay validation procedures are described in the Methods section.