



Title of PhD project	Health and economic impact modelling of cervical cancer elimination strategies at the global and national levels	
Supervisor	Dr Kaja Abbas	LSHTM
Co-Supervisor	Prof Kim Mulholland	LSHTM
Brief description of project	<p>In 2020, the World Health Organization launched the global strategy to accelerate the elimination of cervical cancer as a public health problem. The global strategy has proposed 90-70-90 targets by the year 2030 towards achieving 90% coverage of HPV vaccination, 70% coverage of screening and 90% treatment of precancer lesions and cancer. This project will develop statistical and mathematical models to infer the health and economic impact of different cervical cancer prevention and control strategies and assist decision-making towards cervical cancer elimination at the global and national levels.</p>	
Skills we expect a student to develop/acquire whilst pursuing this project	<ul style="list-style-type: none"> • Mathematical modelling of infectious disease dynamics • Modelling and economic evaluation of vaccination programmes • Evidence-based research to inform policy and practice 	
Particular <u>prior</u> educational requirements for a student undertaking this project	MSc degree in quantitative sciences with a demonstrable understanding of infectious disease epidemiology, statistical analysis and computer programming.	
Project key words	Human papillomavirus vaccine Cervical cancer elimination Infectious disease modelling Cost-effectiveness analysis	
Possible under 1+4 route? Master's options identified.	No	
MRC Core Skills developed through this project	Quantitative skills	
MRC LID themes	Global Health Health Data Science Infectious Disease	

<p>Further reading</p>	<p><u>Effects of updated demography, disability weights, and cervical cancer burden on estimates of human papillomavirus vaccination impact at the global, regional, and national levels: a PRIME modelling study</u></p> <p><u>Australia's Role in Pneumococcal and Human Papillomavirus Vaccine Evaluation in Asia-Pacific</u></p>
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