

**Aga Khan University- FHS-PhD Programme**  
**List of funded projects for potential PhD Candidates**

Population & Public Health Stream						
Sr. No.	Name, Email address and Department of Primary Supervisor	Supervisory Team	Title of Project/ Source of funding	Research Funding available	Funds available until	Key Objectives of research project
1	Dr Andrew Prendergast <a href="mailto:andrew.prendergast@aku.edu">andrew.prendergast@aku.edu</a> Visiting Faculty, Department of Peads	Drs Fyezah Jehan, Imran Nisar and Waqasuddin Khan	Nutritional support and prophylaxis of azithromycin for pregnant and lactating women to improve birth outcomes in peri-urban slums of Karachi, Pakistan (Mumta Pregnant Women and Lactating Women Trials)	USD 50,000	December 2026	<p>The key objectives are:</p> <ul style="list-style-type: none"> <li>• To investigate inflammatory biomarkers and immune dysregulation in malnourished mothers and their infants, examining their role in gut permeability, systemic inflammation, and growth outcomes.</li> <li>• 2. To characterize the relationship between malnutrition and infection by analyzing pathogen load, antimicrobial resistance patterns, and immune responses in pregnant and lactating women, and their infants.</li> <li>• 3. To explore disruptions in key nutrient absorption and metabolic pathways in malnutrition, assessing biomarkers of micronutrient status, intestinal function, and energy homeostasis</li> </ul>
<b>Pre-requisites of PhD candidate applicants (graduate qualification requirement):</b> <ul style="list-style-type: none"> <li>• Minimum two years relevant experience (Public Health)</li> <li>• Strong background with hands-on research on topics related to epidemiology, biostatistics, biological systems, community health, nutrition</li> <li>• Some experience in the following is preferred: stakeholder engagement, study design, data analysis, project management</li> </ul>						
2	Dr Zahra Hoodbhoy <a href="mailto:zahra.hoodbhoy@aku.edu">zahra.hoodbhoy@aku.edu</a> Associate Professor, Department of Peads	Drs Emily Smith, Imran Nisar and Fyezah Jehan	Pregnancy Risk, Infant Surveillance, and Measurement Alliance (PRISMA)	USD 3.6 million	Dec 2025 (There is an extension underway which will be finalized by June 2025)	<p>The key objectives are:</p> <ul style="list-style-type: none"> <li>• To improve the global understanding of key risk factors or vulnerabilities for morbidity and mortality among pregnant women and mother-infant pairs during antenatal care and postnatal care (up to one year).</li> <li>• To provide population-based baseline estimates of key maternal and child health outcomes. This may inform future interventions and randomized trial study designs.</li> <li>• To collect data to enable the application of novel analytical techniques (i.e., machine learning) to create risk prediction tools.</li> </ul>

