

## Attachment 11: Research Questions

Primary question	Sub-questions
a. Have FIC funded research training programs contributed to any of the following? If yes, through what mechanisms and to what extent?	
1.The achievement of a <b>critical mass</b> of researchers in LMIC countries	1.1 Perception of existence of critical mass of researchers
	1.2 Increased number of internal collaborations
	1.3 percent time spent on research
	1.4 Number of doctoral and masters level researchers supported by FIC
	1.5 Increase in number of research grants and increase in the number of FIC grants (particularly directly funded ones) won by the University
	1.6 Increase in number of first-authored publications,
	1.7 Increase in percent of faculty serving as principal investigators
2.The <b>organizational development</b> of LMIC universities	2.1 Development of relevant and high quality curricula and postgraduate teaching programs
	2.2 Strengthening of research management systems eg. grants management units, bureaucratic efficiency, ethical review boards
	2.3 Availability of appropriate resource infrastructure IT, library resources and other research support infrastructure
3.The development of a <b>research enabling organizational culture</b>	3.1 University leadership demonstrate commitment to research (e.g. through providing protected time for research, appropriate rewards for research achievement)
	3.2 Establishment of career development pathways for researchers, mentorship relationships
	3.3 Researcher job satisfaction and motivation to stay in research
4. The development of research and policy <b>networks</b>	4.1 the presence and intensity of linkages between researchers in-country,
	4.2 the presence and intensity of linkages between researchers inside and outside the country
	4.3 Intensity of interactions between researchers and policy makers
	4.4 the development of new professional organizations or NGOs
	4.5 the development of regional collaborations and networks
5. <b>Inform health policy</b> development in country, and potential health impacts	5.1 Impact of research findings on health policy development and practice
	5.2 The policy relevance and quality of research conducted
b. How have FIC investments at these institutions interacted with each other and with investments made by others over the long term?	
6. The interactions between FIC programs	6.1 To what extent have different FIC research training programs reinforced each other (for example has training in bioethics helped establish IRBs that in turn has facilitated other forms of research)?

	6.2 To what extent have FIC research trainees been successful in securing NIH research grants?
7. Interactions between FIC programs and other research training programs	7.1 To what extent have programs of support to research capacity development (eg. Wellcome Trust, IDRC etc) reinforced, or undermined, FIC investments?
Additional questions that must be addressed in order to fully answer the study questions	
8. What has been the nature of the research training support provided by Fogarty and what have been its proximal effects (on individual learning and performance)?	8.1 What types of individual training was supported by FIC (such as short term training, long term training, mentoring) and how did this change over time? 8.2 What forms of organizational support were provided (such as curriculum development, research re-entry grants, strengthened collaborations, support to research infrastructure such as ethical review committees or access to information) and how did this change over time?
9. What are the relevant features of the organizational and national context in which Fogarty investments were taking place?	9.1 To what extent, at the initiation of FIC support, was there an organizational culture that was supportive of research, and how has this changed over time? 9.2 To what extent, at the initiation of FIC support, were there effective systems of research management and how has this changed over time? 9.3 To what extent, at the initiation of FIC support, was there an appropriate research infrastructure, and how has this changed over time? 9.4 To what extent, at the initiation of FIC support, did the broader environment support the use of evidence in policy and decision making and how has this changed over time? 9.5 To what extent was the case study organization, at the initiation of FIC support, part of regional and international networks, and how has this changed over time?
10. What support did the organization receive from other funders for research capacity development?	10.1 Which other funders have supported research capacity development at the case study organization; what type of support did they provide and over what period?

