

Note: This is Online Appendix 1 of Ameh PO, McGuire CM, Van Waes A, et al. Research activity, facilitators and barriers amongst trainee and early-career family physicians in sub-Saharan Africa: A cross-sectional survey. Afr J Prm Health Care Fam Med. 2022;14(1), a3367.
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Appendix 1

Cross Sectional Survey: Research Activity, Facilitators, Barriers

RESEARCH INFORMATION

You are being asked to voluntarily participate in a research study. We are doing this study to better understand the research activity, facilitators and barriers among AfriWon Renaissance members and also to evaluate a pilot research training and mentorship program. If you agree, we will ask you to fill out this survey now, and also twice more over the coming year. You do not have to complete this survey and you can end your participation in this study at any time. The information you provide will have no impact on your membership in AfriWon Renaissance and will be kept confidential. If you have any questions about this study, please contact [authors]

Do you consent to participate in this survey?

Choices: **Yes / No**

Survey Logic > If answer Yes: Continue to survey

If answer No: Display text: “**Thank you for your consideration**” and stop the survey

Question	Code**:
<i>Please indicate select the single best choice or enter your answer in the space provided.</i>	
<p>1. How many active research projects* are you involved in right now? Response validation > only accept numeric value</p> <p><i>*Where active project means you are currently either developing, awaiting IRB approval for, conducting, analyzing, writing up, or revising the research project</i></p>	<p>0 = 0 points 1 = 1 point 2 = 2 points >2 = 2 points</p>
<p>2. In this past month, have you participated in any research meetings, forums, chats or discussion groups? Choices: Yes / No</p> <p><i>Note: this includes online or social media-based discussions (such as WhatsApp or Facebook groups) in addition to in-person research meetings.</i></p>	<p>Yes = 1 point No = 0 points</p>
<p>3. In this past month, approximately how many colleagues did you discuss your research projects or research interests with? Response validation > only accept numeric value</p>	<p>0 = 0 points 1 = 1 point 2 = 2 points >2 = 2 points</p>
<p>4. Do you have a research mentor? Choices: Yes / No</p> <p><i>Note: This can include having a peer research mentor</i></p>	<p>Yes = 1 point No = 0 points</p>
<p>5. Are you a research mentor to another person? Choices: Yes / No</p> <p><i>Note: This can include being a peer research mentor</i></p>	<p>Yes = 1 point No = 0 points</p>

<i>Each of these questions refers to lifetime totals for each activity:</i>	
6. How many research protocols have you had approved by an IRB? Response validation > only accept numeric value	
7. How many IRB-approved research projects have you completed? Response validation > only accept numeric value	
8. How many manuscripts have you had accepted by peer review for publication in a journal? Response validation > only accept numeric value	
9. How many times have you submitted a research abstract to present at a regional, national, or international medical conference? Response validation > only accept numeric value	
10. How many times have you presented your research locally (ie. within your department or training program, your hospital, or at a local health committee meeting)? Response validation > only accept numeric value	
11. How likely are you to include research activity as part of your family medicine career? Choices: Extremely unlikely / Unlikely / Neither likely nor unlikely / Likely / Extremely likely	

<i>For the following questions, please indicate your degree of agreement with each of these statement about research facilitators and barriers on the scale provided: Strongly agree (1), Agree (2), Neither agree nor disagree (3), Disagree (4), Strongly disagree (5)</i>	
13. Research is undertaken by most clinicians where I work. __	No predetermined coding
14. I have access to a research ethics committee or institutional review board (IRB). __	
15. I have access to databases with which to conduct a literature search. __	
16. I have access to software to aid in research data analysis. __	
17. There is a deliberate pairing of novice and experienced researchers where I work. __	
18. I have flexible work arrangements to ensure sufficient time for carrying out research. __	
19. I am confident in literature search and evaluation. __	

20. I am confident in developing a research ethics (IRB) application. ___	
21. I am confident in research data analysis. ___	
22. Please use the space below to provide comments on other important facilitators or barriers to your research activity and provide examples if possible. _____	No predetermined coding; will be analyzed via thematic analysis
<p><i>*The following questions are not coded as they only collect descriptive information.</i></p> <p>1. Are you currently enrolled in a family medicine training program? Choices: Yes / No</p> <p>If yes > What year of training are you in? Response validation > only accept numeric value with a max value of 5</p> <p>If no > What year did you graduate from your family medicine training program? Response validation > only accept numeric value with 4 digits</p> <p>2. How would you characterize your primary place of employment? Choices: Urban / Semi Rural / Rural / Other:</p> <p>3. What is your age? Response validation > only accept numeric value</p> <p>4. Which best describes your gender? Choices: Male / Female / Other:</p> <p>5. What country were you born in?</p> <p>6. What country do you currently live in?</p> <p>7. Which best describes your marital status? Choices: Single / Married / Widowed / Divorced / Separated / Other:</p> <p>8. Email address</p>	

**Note survey code may change depending on the initial descriptive analysis of data distribution including range and outliers.