

**Annex1**

5/23/2020

Barriers and Facilitators of Medical Research in Cameroon

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Dear Mr/Mrs/Dr/Pr

You are invited to participate in a web-based online survey on the Barriers and Facilitators of Medical Research in Cameroon. This is a research project conducted by a collaborative of Cameroonian researchers. It should take approximately 8 minutes to complete.

Your participation in this survey is voluntary. You may refuse to take part in the research or exit the survey at any time without penalty. You are free to decline to answer any particular question you do not wish to answer for any reason.

You will receive no direct benefits from participating in this research study. However, your responses may help us learn more about the medical research needs of medical students and health professionals.

There are no foreseeable risks involved in participating in this study other than those encountered in day-to-day life.

Your survey answers will be collected on Google Forms and stored in a password protected electronic format. Google Forms does not collect identifying information such as your name, email address, or IP address. Therefore, your responses will remain anonymous. No one will be able to identify you or your answers, and no one will know whether or not you participated in the study.

By proceeding with this questionnaire you agree to participate in this study and confirm that

- You have read the above information

- You voluntarily agree to participate
- You are 18 years of age or older

\*Required

1. Email address \*

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Demographic data

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

2. Age

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3. Sex

*Mark only one oval.*

Female

Male

4. Region of residence

*Mark only one oval.*

Adamawa

Centre

East

Far North

Littoral

North

North West

South

South West

West

5. Profession

*Mark only one oval.*

Student *Skip to question 6*

Physician *Skip to question 8*

Student demographic

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

6. Academic level *Mark*

*only one oval.*

Student - First Year

Student - Second Year

Student - Third Year

Student - Fourth Year

Student - Fifth Year

Student - Sixth Year

Student - Seventh Year

7. Medical school

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Physician demographic

8. How long has it been since you graduated? (years)

9. Which of the following best describes your current status *Mark only*

*one oval.*

General practitioner

Resident

Specialist/Consultant/Attending

Professor

Research training and experience

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

10. Have you taken a biostatistics or statistics course during medical school? *Mark only one*

*oval.*

Yes

No

11. If you took the biostatistics or statistics course, did you find it easy to understand? *Mark only one*

*oval.*

Yes

No

12. If you took the biostatistics or statistics course, did you find it useful? *Mark only one*

*oval.*

Yes

No

13. Have you taken a research methodology course during medical school? *Mark only one*

*oval.*

Yes

No

14. If you took the research methodology course, did you find it useful? *Mark only one oval.*

Yes

No

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>



15. If you took the research methodology course, did you find it easy to understand? *Mark only one oval.*

Yes

No

16. Have you taken research courses online? *Mark only one oval.*

Yes

No

17. Do you have a degree other than your medical degree? *Mark only one oval.*

Yes

No

18. If you have a degree other than your medical degree, please specify

19. How many peer-reviewed publications do you have?

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20. If you have peer-reviewed publications, in how many of these publications were you the first author?

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<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

21. If you have peer-reviewed publications, how long has it been since you published your first article? (years)
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22. Do you have a research mentor? *Mark only one oval.*

Yes

No

23. If you have a mentor, has this mentor being helpful to you in carrying out research? *Mark only one oval.*

Yes

No

24. If yes, how was your mentor helpful

*Tick all that apply.*

Study conception

Study design

Study validation

Submission and publication in a journal

Grant application

Referee (Letters of recommendation)

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

25. Have you ever attended a national or an international conference? *Mark only one*

*oval.*

Yes

No

26. Have you ever presented an abstract at a national or an international conference? *Mark only one*

*oval.*

No

27. Have you ever applied for a research grant? *Mark*

*only one oval.*

Yes

No

28. If yes, did you receive the grant *Mark*

*only one oval.*

Yes

No

## Challenges

<https://docs.google.com/forms/d/1vRylcqa-m-S-18d8R3yntCQZ198xNUh-qR5X7Adk9a8/edit>

29. Non-research related (The following factors are barriers to conducting research)

*Mark only one oval per row.*

	Strongly <input type="radio"/>	Disagree <input type="radio"/>	Neutral <input type="radio"/>	Agree <input type="radio"/>	Strongly <input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Time constraints</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Workload</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Difficulties using software</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Lack of electricity</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Lack of internet access</b>					
<b>Getting ethical clearance</b>					
<b>Getting data collection authorizations</b>					
<b>Lack of financial motivation</b>					

30. Is obtaining approval from an institutional review board/hospital ethical committee/national ethical committee an easy task?

*Mark only one oval.*

Strongly disagree

Disagree

Neutral

Agree

Strongly agree

31. What is the average duration for the issue of research approval? (months)

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## 32. Research-related (The following factors are barriers to conducting research)

*Mark only one oval per row.*

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>English</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Limited access to scientific publications</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Limited access to statisticians</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Limited understanding of biostatistics</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Difficulties with the research design</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Limited access to patient files****(poor archiving)****Limited access to funds to****conduct research****High cost of publication****Lack of mentor**

## Lack of research team

33. What are some obstacles you perceive in applying for research grants?

*Tick all that apply.*

No training

Lacking an accredited institution under which I can submit my research grant proposal   
Fear to submit the grant proposal

Intrinsic facilitators

34. How important are the following factors to your decision of conducting research?

*Mark only one oval per row.*

	Not <input type="radio"/>	Less <input type="radio"/>	Neutral <input type="radio"/>	Important <input type="radio"/>	Very <input type="radio"/>
	important	important			important
<b>Potential to improve practice</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Study robustness</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Potential to be published in a prestigious journal</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Interest for the research**

**subject**

**Potential to obtain Grants**

**Scientific recognition**

**Career advancement**

Extrinsic facilitators

35. How important are the following factors to your decision of conducting research?

Mark only one oval per row.

	Not important	Less important	Neutral	Important	Very important
<b>Previous</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>experience</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mentorship</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Financial support</b>					

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