

Resident Research Program- Needs Assessment

Objective of the Questionnaire:

To obtain valuable information for the refinement and modification of the resident research curriculum that will ensure that residents receive comprehensive research training, and build confidence in their research skills, such that they are encouraged to critically appraise and potentially participate in research in their future careers.

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The Royal College of Physicians and Surgeons, Objectives of Training in Anesthesiology states: Anesthesiologist are able to...

Contribute to the development, dissemination, integration and translation of new knowledge and practices, which includes completing a scholarly project, understanding, applying and critically analyzing research contributions, ethics, and methodology.

The purpose of the department's Resident Research Program is to prepare the residents for RCPS exams, and to prepare the residents for their clinical careers.

Anesthesiology residents in our department are required to complete the Clinical Research Methodology (CLR800) course, and participate in the accompanying tutorials, obtain research ethics and SHA approvals, collect data, present at Resident Research Day and Journal Club, and disseminate results by submitting to an academic journal or presenting at a professional meeting or academic conference.

The Department of Anesthesiology aims to provide residents with opportunities to engage in research in areas in which they are interested, with the appropriate resources and supports to be successful in their exams and in research, and the skills to critically appraise and potentially pursue future independent research.

1. In what year of your Anesthesiology Residency are you, or in what year did you complete your Residency?

- | | |
|--------------------------|----------------------------|
| <input type="radio"/> R1 | <input type="radio"/> 2020 |
| <input type="radio"/> R2 | <input type="radio"/> 2019 |
| <input type="radio"/> R3 | <input type="radio"/> 2018 |
| <input type="radio"/> R4 | <input type="radio"/> 2017 |
| <input type="radio"/> R5 | |

2. In your opinion, how effective is the Department Research Program in supporting the residency objectives listed above?

- | | |
|---|--|
| <input type="radio"/> Extremely effective | <input type="radio"/> Neutral |
| <input type="radio"/> Effective | <input type="radio"/> Not effective |
| <input type="radio"/> Somewhat Effective | <input type="radio"/> Unsure/not enough information to comment |

3. In general, how positive do you feel about the Resident Research Program requirements as a whole (i.e. research project requirement, CLR800, tutorials, Journal Club presentations)?

- | | |
|-------------------------------------|--|
| <input type="radio"/> Very positive | <input type="radio"/> Negative |
| <input type="radio"/> Positive | <input type="radio"/> Very negative |
| <input type="radio"/> Neutral | <input type="radio"/> Unsure/not enough information to comment |

4. In general, how positive do you feel about the Resident Research Program supports as a whole (i.e. faculty supervisors, research staff, other supports)?

- | | |
|-------------------------------------|--|
| <input type="radio"/> Very positive | <input type="radio"/> Negative |
| <input type="radio"/> Positive | <input type="radio"/> Very negative |
| <input type="radio"/> Neutral | <input type="radio"/> Unsure/not enough information to comment |

5. In your opinion, how well does the Resident Research Program prepare you/residents for the **RCPSG Exam**?

- | | |
|---|--|
| <input type="radio"/> A great deal | <input type="radio"/> A little |
| <input type="radio"/> A lot | <input type="radio"/> None at all |
| <input type="radio"/> A moderate amount | <input type="radio"/> Unsure/not enough information to comment |

6. In your opinion, how well does the Resident Research Program prepare you/residents for **future clinical careers**?

- | | |
|---|--|
| <input type="radio"/> A great deal | <input type="radio"/> A little |
| <input type="radio"/> A lot | <input type="radio"/> None at all |
| <input type="radio"/> A moderate amount | <input type="radio"/> Unsure/not enough information to comment |

7. In your opinion, how well does the Resident Research Program prepare residents for **future academic careers** (one that includes research)?

- | | |
|---|-----------------------------------|
| <input type="radio"/> A great deal | <input type="radio"/> A little |
| <input type="radio"/> A lot | <input type="radio"/> None at all |
| <input type="radio"/> A moderate amount | |

8. How often do you receive **research related support** or offer of **research related support** (e.g. meeting, email, virtual call, documents and resources) from your supervisor, research support staff/faculty, or instructors?

- | | |
|--|---|
| <input type="radio"/> More often than I need | <input type="radio"/> Not nearly enough |
| <input type="radio"/> Just the right amount | <input type="radio"/> Never |
| <input type="radio"/> Not quite enough | |

9. My faculty supervisor checks in with me on my research progress...

- | | |
|--|---|
| <input type="radio"/> More often than I need | <input type="radio"/> Not nearly enough |
| <input type="radio"/> Just the right amount | <input type="radio"/> Never |
| <input type="radio"/> Not quite enough | |

10. How often do you receive **research related support** or an offer of **research related support** (e.g. meeting, email, virtual call, documents and resources) from your supervisor?

- | | |
|---|---|
| <input type="radio"/> About once a week | <input type="radio"/> Once a year |
| <input type="radio"/> A few times a month | <input type="radio"/> Less than once a year |
| <input type="radio"/> Once a month | <input type="radio"/> Never |
| <input type="radio"/> Once every couple of months | |

11. The research support staff (coordinator, associate, assistant) checks in with me on my research progress...

- | | |
|--|---|
| <input type="radio"/> More often than I need | <input type="radio"/> Not nearly enough |
| <input type="radio"/> Just the right amount | <input type="radio"/> Never |
| <input type="radio"/> Not quite enough | |

12. How many times in a year do you receive **research related support** or an offer of **research related support** (e.g. meeting, email, virtual call, documents and resources) from research support staff (coordinator, associate, assistant)?

- | | |
|---|---|
| <input type="radio"/> About once a week | <input type="radio"/> Once a year |
| <input type="radio"/> A few times a month | <input type="radio"/> Less than once a year |
| <input type="radio"/> Once a month | <input type="radio"/> Never |
| <input type="radio"/> Once every couple of months | |

13. With regards to my research project, my biannual progress check-in with PGME occur...

- More often than I need
- Just the right amount
- Not quite enough
- Not nearly enough

14. Which supports and resources do you feel are most important for Resident Research success? Choose as many as you like.

- CLR800 Course (Modules and assignments)
- CLR800 (Module and other material) Tutorials
- Research Coordinator, Associate, Assistant support
- Supervisor support and mentorship
- None of the above

Other (please specify)

15. I feel that the department of Anesthesiology has the resources and supports available to ensure that I become and capable and confident independent researcher.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

16. Provide an example of a time when you felt most prepared, informed, or capable in research? Did anyone assist you in reaching that place?

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Research Skills

17. I believe that the research training I received/am receiving during my residency, provided/will provide me with adequate skills to be proficient in:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

18. The CLR800 Curriculum I received/am receiving during my residency provided/will provide me with adequate skills to be proficient in:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

19. I would benefit/could have benefited from additional training and practice from the CLR800 curriculum in areas relating to:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

20. My supervisor and the department faculty provided/provide me with adequate training and mentorship:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

21. I would benefit/could have benefited from additional training and mentorship from my supervisor and the department faculty relating to:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

22. The Department research staff provided/provide me with adequate training and mentorship and CLR800 tutorials in the areas of:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

23. I would benefit/could have benefited from additional training and mentorship and CLR800 tutorials from the Department research staff in the areas of:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

24. To be a proficient researcher in my future career, I would benefit/ could have benefitted from more training in:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

25. I am confident in my abilities to independently conduct research in:

- Study Design
- Database Management
- Budget
- Writing Grant Proposals
- Statistics
- Ethics in Research
- Managing a Research Team
- Manuscript Preparation
- None of the above

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Additional Comments

26. If you have any additional comments, things to share, suggestions or ideas to improve the program, please share them with us.

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27. Please rate the following items on a 5-point Likert scale as to what extent you perceive them to be challenges, with 1 being 'not at all' to 5 being 'tremendous'.

	Not at all				Tremendous
Inadequate administrative support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate funding for resident scholarly activity projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate access to biostatistical consultants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate access to methodological consultants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate access to research assistants for consent, data collection, and related tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate number of supervisors with appropriate skill set for supervision of resident scholarly activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate number of supervisors with active research or QI programs into which residents' scholarly activity projects can be incorporated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inadequate number of supervisors willing to supervise resident scholarly activity projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty finding appropriately sized projects for residency that are small enough to complete yet still important enough to justify their execution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Departmental leadership inadequately	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

promotes the value of research and resident scholarly activity

Departmental faculty inadequately promote the value of research and resident scholarly activity

Residents undervalue the importance of research and resident scholarly activity

Residents, in general, struggle to balance the demands of a resident scholarly activity project with other clinical and non-clinical responsibilities

Particular residents struggling to achieve clinical competence can't afford to take on the additional responsibility of a resident scholarly activity project