Supplemental Digital Appendix 1

Survey of Scholarly Activity Requirements Administered to 105 Pediatric Residency Programs, 2012

The Accreditation Council for Graduate Medical Education requires residents to "participate in scholarly activity." However, there is little guidance on how to effectively integrate scholarly activity into residency programs. Members of the APPD Research and Scholarship Task Force have therefore designed this survey to assess factors associated with effective scholarly activity training for categorical pediatric residents and barriers to achieving these goals.

This survey is being administered to all pediatric residency program directors across the country. Participation in this survey should take approximately 10 minutes, and is voluntary. Participants may skip any questions they do not feel comfortable answering. All data will be kept anonymous, with published results being presented only in aggregate. If you have any questions about your rights as a research participant, contact Erika Abramson, MD MS at err9009@med.cornell.edu or 212-746-3929. You can also contact the Weill Cornell Medical College IRB at 646-962-8290.

Program Characteristics

1. How many total categorical pediatric residents are currently in your program (include PGY-1, PGY-2, and PGY-3 residents)?

2. How many pediatric fellowship programs exist in your institution?

3. How would you describe your residency program setting? (Please check all that apply)

- University-affiliated
- Community-based
- Military

Other (please describe)

4. In what region of the country is your program located?

Northeast (ME, NH, MA, CT, VT, RI, PA, NY, NJ)

) Midwest (WI, MI, IL, IN, OH, MO, ND, SD, NE, KS, MN, IA)

) South (TX, OK, LA, AR, MS, AL, TN, KY, WV, VA, NC, SC, GA, FL, MD, DE, DC)

) West (ID, MT, UT, AZ, WY, CO, NM, CA, NV, OR, WA, HI, AK)

Pediatric Resident Participation in Scholarly Activity

5. In your opinion, how important are each of the following goals for scholarly activity for pediatric residency?

	Extremely	Very	Somewhat	Slightly	Not at all
To teach residents the process of scientific inquiry	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To teach residents problem- solving skills	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To expose residents to research	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To train residents how to conduct research/scholarship	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To give all residents the experience of submitting an institutional review board (IRB) application	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To have all residents present their scholarly project locally	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To have all residents submit their work for presentation at a regional/national conference	\bigcirc	0	\bigcirc	\bigcirc	\bigcirc
To have all residents submit their work to a peer- reviewed journal	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To encourage residents to pursue careers in academic medicine	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To encourage residents to pursue subspecialty fellowship	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
To prepare residents for subspecialty fellowship	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Other (please specify)					

i. Ho	w does your program define scholarly activity? (Please check all that apply)
0	riginal research studies (basic, clinical, health services, education, etc)
Sy	ystematic literature review or meta-analysis
Ca	ase reports or case series (with references)
Во	pok chapter
Q	uality improvement projects
Ad	dvocacy projects
Cı	urriculum development
Lc	ocal conference/workshop presentation to residents and/or medical students
G	rand Rounds presentation
Re	egional or national workshop presentation
Other (p	please specify)

7. Is participation in scholarly activity a requirement for graduation?

Yes

8. Does your residency program link annual resident promotions to progress on their
scholarly project?
Yes
No
9. What are the minimum requirements for scholarly activity in your program? (Please
check all that apply.)
Participation in a scholarly project
Submission of a written report to the residency program
Submission of an institutional review board (IRB) application
Local presentation
Regional presentation
National presentation
Submission of a manuscript to a journal
Other (please specify)

Infrastructure to Support Scholarly Activity

10. What funding is available to support residents in their scholarly activity in your program?

	Full funding for all residents	Partial funding for all residents	Competitive full funding	Competitive partial funding	No funding
Funding for residents to present their work at conferences	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Funding for residents to complete their scholarly activity	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

11. How many months of protected time do residents have to do scholarly activity in their 3 years of residency?

Number of months of	
required time	
Maximum number of	
months of additional	

elective time

12. What resources are available to support residents in their scholarly activity in your program? (Please check all that apply.)

A scholarship review committee
A research director
A statistician
Funding for faculty to support resident scholarly activity
Protected time for faculty to support resident scholarly activity
Sufficient number of faculty mentors for scholarly activity
A research track within your program
A special training pathway such an Accelerated Research Pathway or Integrated Research Pathway
A research curriculum
Chairman Support
Opportunity for residents to present their work-in-progress
A Research Day or other venue for residents to present their work
Awarding of a prize for resident scholarly accomplishments
Other (please specify)

Barriers to Resident Scholarly Activity

13. Please tell us how much of a barrier each of the following is to supporting resident scholarly activity in your program:

	Major Barrier	Minor Barrier	Not a Barrier
Lack of a scholarship review committee	\bigcirc	\bigcirc	\bigcirc
Lack of a research director	\bigcirc	\bigcirc	\bigcirc
Lack of time for residents to conduct scholarly activity	\bigcirc	\bigcirc	\bigcirc
Lack of time for faculty to mentor residents	\bigcirc	\bigcirc	\bigcirc
Lack of faculty experienced in conducting scholarly activity	\bigcirc	\bigcirc	\bigcirc
Lack of statistical support for residents' scholarly activity	\bigcirc	\bigcirc	\bigcirc
Lack of funding to support residents conducting scholarly activity	\bigcirc	\bigcirc	\bigcirc
Lack of funding to support residents in presenting their research	\bigcirc	\bigcirc	\bigcirc
Lack of a research track	\bigcirc	\bigcirc	\bigcirc
Lack of a research curriculum	\bigcirc	\bigcirc	\bigcirc
Resident attitudes toward conducting scholarly activity	\bigcirc	\bigcirc	\bigcirc
Lack of Chairman Support	\bigcirc	\bigcirc	\bigcirc
Other (please specify)			

Outcomes

14. In the past 3 years, what percentage of categorical pediatric residents from your program did the following?

Presented their scholarly activity at a regional conference

Presented their scholarly activity at a national/international conference

Published their scholarly activity in a peer-reviewed journal

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Scholarly activity can be defined in many different ways. For the purpose of the remaining questions in the survey, we will consider scholarly activity to include only original research studies (basic science, clinical, health services, education, etc), systematic literature reviews or metaanalyses, and case reports or case series with references.

15. According to the definition above, what percentage of your categorical pediatric residents participate in scholarly activity during residency?

16. As a program director, how satisfied are you with...

	Extremely	Very	Somewhat	Slightly	Not at all
the percentage of residents from your program engaged in scholarly activity?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
the quality of scholarly activity by residents in your program?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
the quality of your program to train residents to produce scholarly activity?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

17. Approximately how many faculty members are there in the Department of Pediatrics at your institution?

18. For the following questions, please estimate what percentage of pediatric faculty in your institution...

	0%	1-24%	25-49%	50-74%	75-100%
participate in scholarly activity?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
mentored residents in their scholarly activities in the last 3 years?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
published at least one peer-reviewed paper in the last 3 years?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
presented posters or podium presentations at a conference in the last 3 years?	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

19. In your most recent ACGME resident survey, how satisfied were your residents with the opportunities your program provides for them to participate in research or scholarly activities? (On Resident Survey report: Educational Content: Item 3: Satisfied with scholarly activities)

20. In the last 3 years, how many papers have you published?

This completes the survey. Thank you for your participation!