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Costas T. Lambrew Research Retreat 2022

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### ACQUIRE'ingScholarly Activity During Residency: An Analysis of Resident Attitudes Towards Scholarship Before and After a Curricular Intervention

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# ACQUIRE, a curriculum designed to introduce residents to scholarship and support their work, results in improvement in resident perceptions towards scholarly activity at both individual and department levels.

## ACQUIRE'ing Scholarly Activity During Residency:

An Analysis of Resident Attitudes Towards Scholarship Before and After a Curricular Intervention

Thomas Q. Reynolds, DO, Sarah Gabrielson, MPH, BSN, RN Gina Trachimowicz, MD, Amy Buczkowski, MD, Anya Cutler, MS, MPH

### Introduction

- Understanding resident attitudes towards scholarship is critical to making successful interventions to improve scholarship
- We evaluated attitude changes related to a new longitudinal curriculum aimed to promote resident-led scholarship known as ACQUIRE (Advocacy/Community, Quality Improvement, Research, and Education).

### Methods

- A validated survey tool, the Research Capacity and Culture Tool, was distributed to all pediatric residents via e-mail
- Survey was completed prior to ACQUIRE and again after the 2<sup>nd</sup> and 3<sup>rd</sup> iterations

Appendix A: Maine Medical Center/Barbara Bush Children's Hospital Pediatric Residency Scholarly Activity Timeline

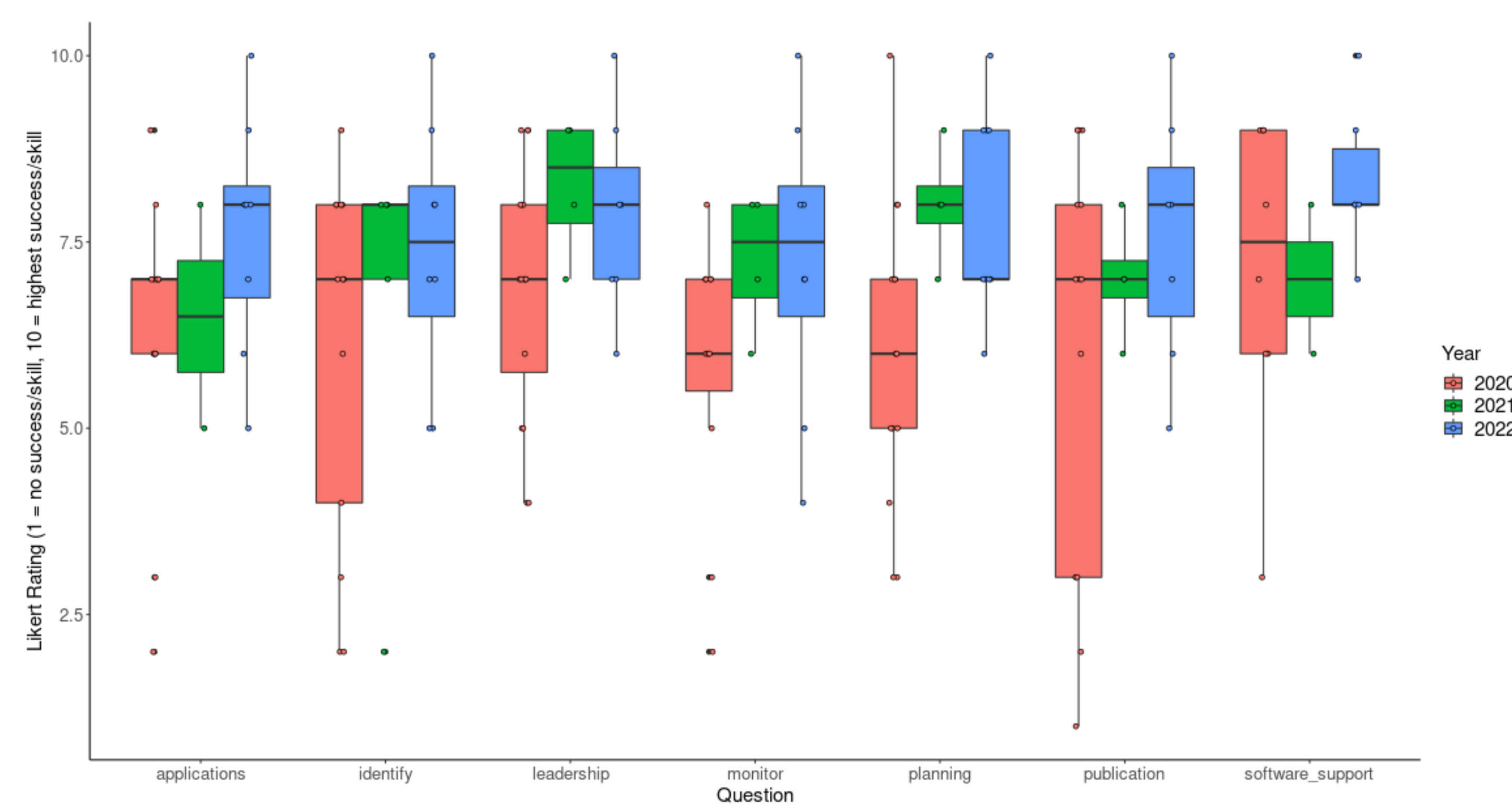
Scholarly Activity Options		Scholarship Oversight Committee (SOC)		Final Scholarly Presentations	
<ul style="list-style-type: none"> <li>Advocacy/Community</li> <li>Quality Improvement (QI)</li> <li>Research</li> <li>Education</li> </ul>		Bi-Annual Meetings in Spring and Fall: <ul style="list-style-type: none"> <li>Present the progress of your work</li> <li>Give and receive feedback on resident scholarly activities among a group of peers</li> </ul>		Objectives: <ul style="list-style-type: none"> <li>Learn and share new knowledge to improve clinical care</li> <li>Gain presentation skills and experience</li> </ul>	
Summer		Fall		Winter	
Year 1	<b>Introduction to Scholarly Activity</b> <ul style="list-style-type: none"> <li>Review Resources</li> <li>Review inventory of possible projects (including current Faculty-Resident Scholarship Program projects)</li> </ul>	Year 1	<b>Scholarly Activity Rotation</b> <ul style="list-style-type: none"> <li>Resources and trainings: CITI, IRBNet, IHI modules, library, REDCap, etc.</li> <li>Consider what scholarly activity options and topics interest you</li> <li>Develop Appendix B</li> </ul>	Year 1	<b>Develop Scholarly Activity Plan</b> <ul style="list-style-type: none"> <li>Identify/confirm potential faculty mentor(s)/collaborators</li> <li>Perform literature review</li> <li>Develop Appendix C/scholarly activity project proposal</li> </ul>
Year 2	<b>Develop Data Collection Plan</b> (REDCap database or otherwise) <b>Prepare IRB package</b> (Research Determination or Research Submission) from scholarly activity proposal	Year 2	<b>Data Collection and Synthesis</b> (as in Project Proposal) may include: <ul style="list-style-type: none"> <li>Request data through EPIC electronic health record</li> <li>Chart abstraction into REDCap</li> <li>Conduct interviews or focus groups</li> <li>Develop run charts and conduct quality improvement PDSA cycles</li> </ul> Present to SOC	Year 2	<b>Finalize Scholarly Activity Proposal</b> <ul style="list-style-type: none"> <li>Optional: Support Faculty application for Faculty-Resident Scholarship Program</li> </ul> Present to SOC
Year 3	<b>Develop plans for peer presentation/Grand Rounds</b> <ul style="list-style-type: none"> <li>Meet with Associate Program Director</li> </ul>	Year 3	<b>Finalize Pediatric Grand Rounds Presentation</b> <ul style="list-style-type: none"> <li>Optional: Draft abstract for other presentation(s) of work</li> </ul> Present to SOC	Year 3	<b>Present scholarship activity at MMC Pediatric Grand Rounds</b> <ul style="list-style-type: none"> <li>Optional presentation of work may include:                             <ul style="list-style-type: none"> <li>Draft manuscript for journal submission</li> <li>Present at local/regional/national meeting</li> </ul> </li> </ul>
				Draft abstract and poster for MMC <b>Lambrey Research Retreat</b>	Present at MMC <b>Lambrey Research Retreat</b>

### Results

- DEPARTMENT LEVEL:** Improvements were noted in perceptions of the following: leadership support and planning, monitoring of scholarly activity, identified experts, support of applications for scholarships and peer-reviewed publication, and software support.
- INDIVIDUAL LEVEL:** Improvements in literature review skills, how to collect data and use data management systems, submitting an IRB application and understanding the role of the IRB, and writing for peer-review were all noted.

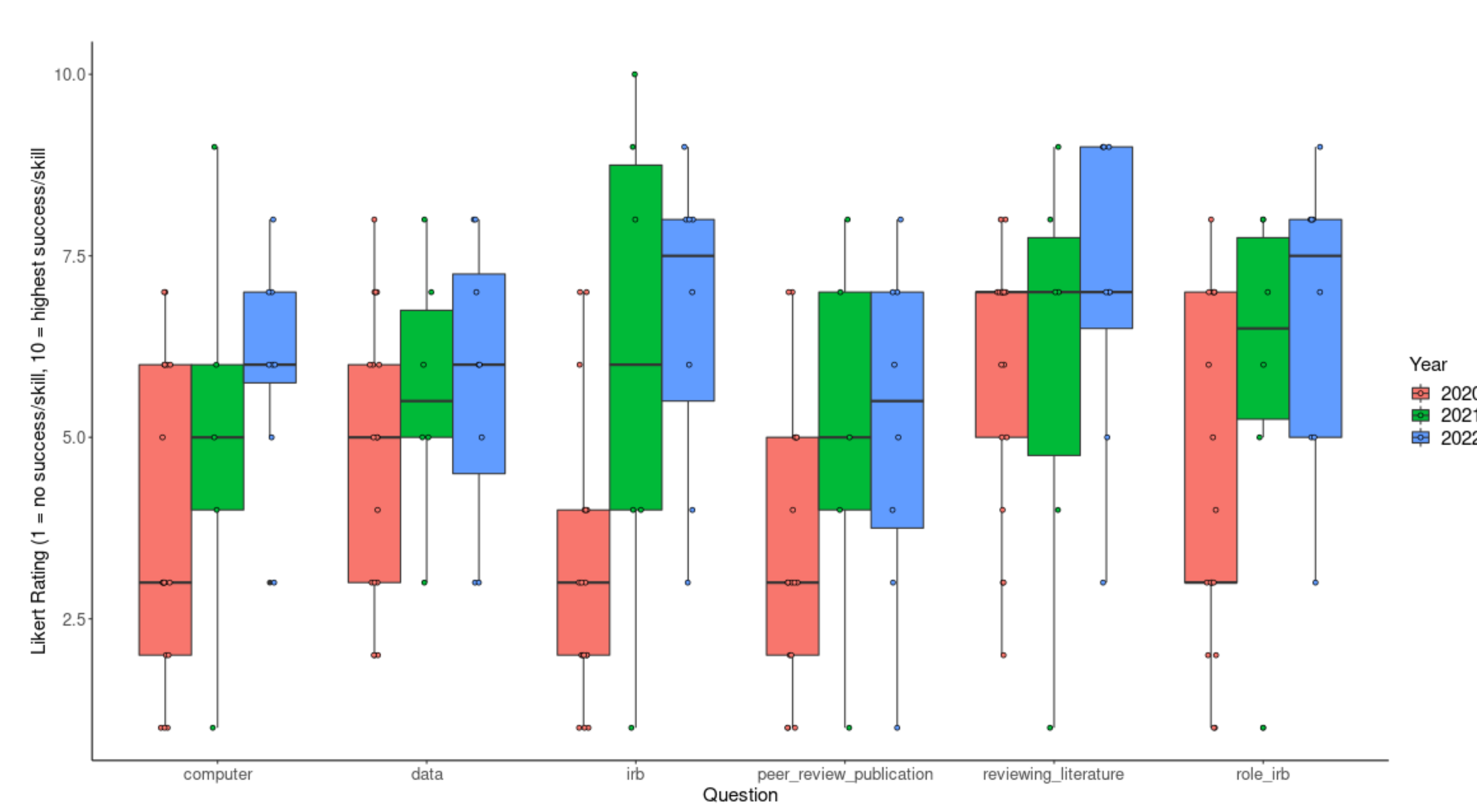
### Discussion

- ACQUIRE leads to improvements in both departmental and individual level perceptions of scholarly activity in a small residency at an independent academic medical center
- Ongoing opportunities for improvement were identified and will inform further interventions to improve scholarship
- Further studies of this curricular intervention could involve quantitative assessment of completed scholarly activity
- This curriculum may be valuable in other small pediatric residencies or at independent academic medical centers



Department

Improvements



Individual



Take a picture to download the full curriculum and RCC Tool

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