Bibliometric Analysis of General Surgery Residents Entering into Minimally Invasive Surgery

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Background

- Research productivity is an important component of fellowship application for minimally invasive surgery (MIS) and is a criterion identified by program directors as important in the fellowship match
- Though studies identify that most MIS applicants complete research, there is limited data on factors relating to this experience corresponding to a successful match.

Objectives

- Where do most MIS fellows train and what is the **structure of programs?**
- What **type and quantity** of research are fellowship matriculants pursuing?
- What **characteristics of programs** facilitate improved scholarly activity?
- How can surgery residents **use research to improve their application?**

Methods

106 advanced GI/bariatric MIS fellowships surveyed → 65 met inclusion criteria (fellows displayed on website) → Analysis of bibliometric variables via Google Scholar/Scopus/Research Gate

- Total Publications
- Number of MIS Publications
- Number of Citations Upon Matriculation

Results

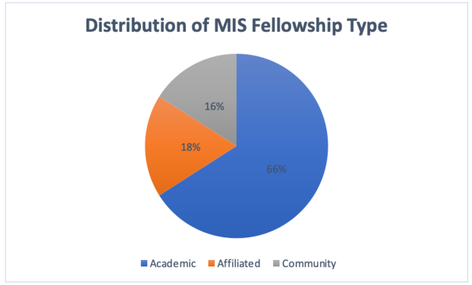


Figure 1: Percentage of MIS Fellowships by Affiliation

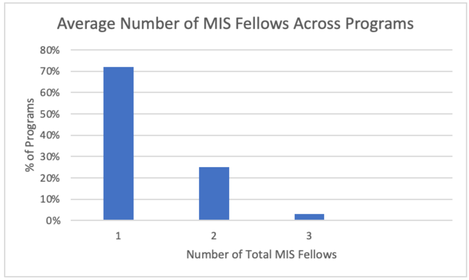


Figure 2: Distribution of MIS Fellows Across Programs

~ 1 publications within MIS journals	~ 3 publications across all journals
~ 14 total citations across publications	Majority of publications had 1 or more citations

Figure 3: Bibliometric Analysis of MIS Fellows

Conclusions

1. Most MIS fellowships are at **academic training centers**
2. On average there is **1 fellow**
3. MIS publications account for **~33% of general surgery resident's research** prior to matriculation
4. **Academic fellowships** may attract candidates with greater scholarly activity

Future Directions

- Investigate the topics of MIS fellow publications
- Identify factors that assist academic programs in facilitating scholarly output among fellows

References

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