

# Impact of Neurosurgery Research and Education Foundation Vascular Course on Academic and Career Outcomes

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## Introduction

- Over the last decade, the Neurosurgery Research and Education Foundation (NREF) has offered an Endovascular and Vascular Techniques course for senior residents to familiarize themselves with the basics of endovascular and cerebrovascular surgery.
- In the current work, the impact of this course on the careers of previous attendees was evaluated.

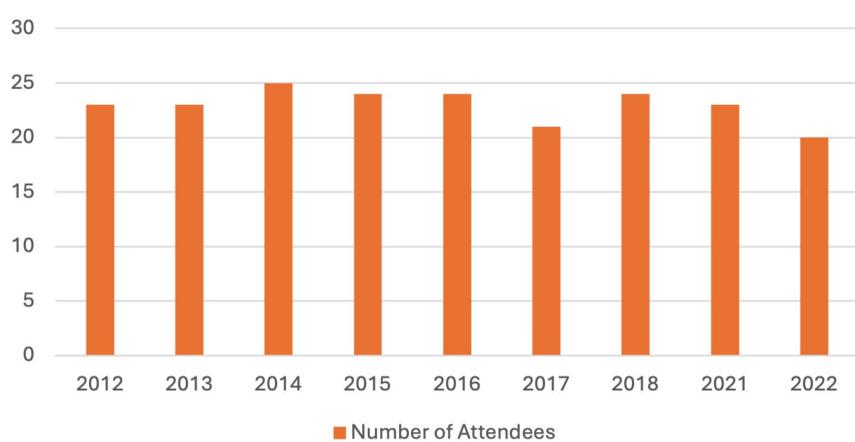
## Methods

- A list of attendees between 2012 and 2022 from the NREF Endovascular and Vascular Techniques course was obtained, and data regarding each attendee including demographic information, career progression, and academic output were determined.
- Outcomes included matriculation into a career in cerebrovascular or endovascular neurosurgery, clinical practice setting, and academic productivity measured via publication count and h-index.

## Results

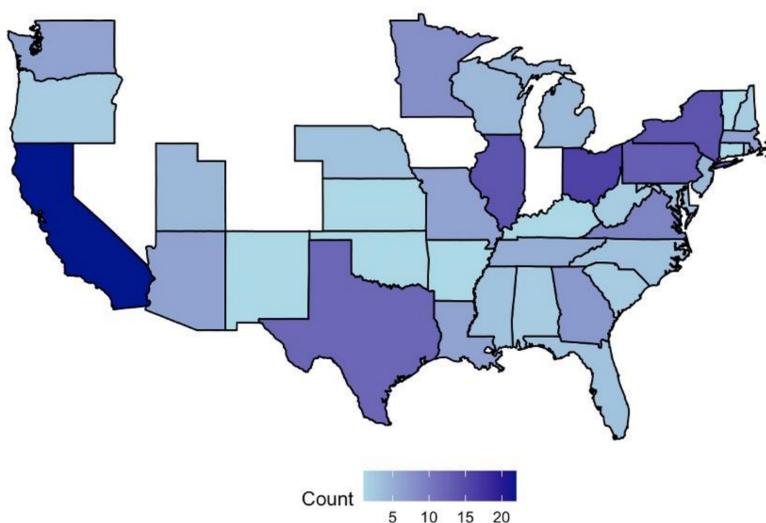
- From 2012 to 2022, 207 US neurosurgery residents attended the NREF Endovascular and Vascular Techniques course.

Number of Attendees per Year



- There was a wide geographic representation of all attendees.

Resident Count per State

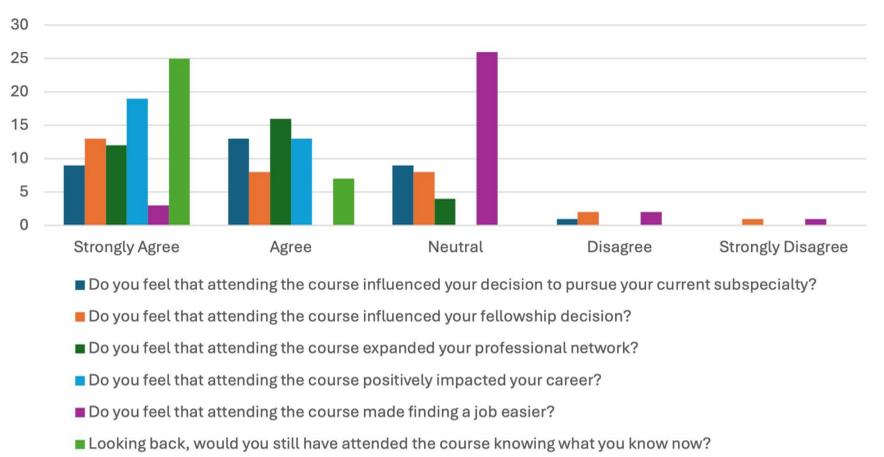


- Of all attendees, 184 have graduated from residency with a significantly higher number (133, 72.3%) of these pursuing careers in vascular neurosurgery than not ( $p = 0.00039$ ).
- Of the 172 who are currently in practice, 94 (54.7%) work in academic neurosurgery.

## Results (cont.)

- The mean  $\pm$  SD number of publications after the course and total h-index were  $22.1 \pm 36.0$  and  $9.1 \pm 8.2$ , respectively.
- The mean  $\pm$  SD number of citations after the course was  $348 \pm 730$ , and the mean  $\pm$  SD number of cerebrovascular publications after the course was  $30 \pm 53$ .
- Almost half of all papers published by previous attendees after the course (47.8%) were determined to be cerebrovascular publications
- A majority of previous attendees rated the course favorably in terms career impact.

Survey Results



## Conclusions

- Young neurosurgeons who attended the NREF Endovascular and Vascular Techniques have found significant success pursuing vascular neurosurgery across the United States, both clinically and academically.

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