Impact of Advanced Clinical and Translational Research Educational Programs on Oncology Specialties and Career Development

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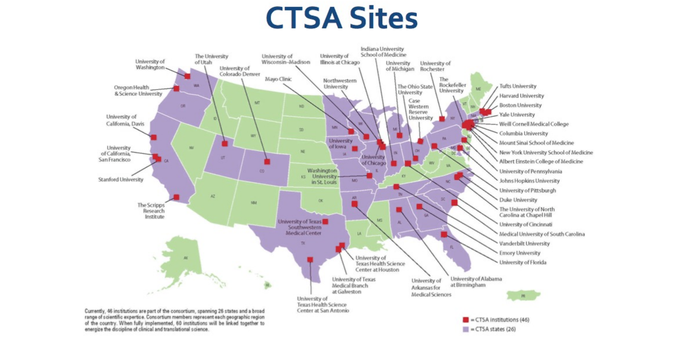
Background

- Clinical & Translational Science Award **(CTSA)** Programs (64 medical research institutions-US)[1]



- NIH's National Center for Advancing Translational Sciences (**NCATS**)
- AIMS: to **train**, **promote**, and **develop** translational researchers[2] (Advanced CTR Educational Programs---Master's and PhD)
- Average tuition cost 2-year Master's Program: **$45K – $65K**[3]
- Limited data on impact in career development (none reported for Oncology specialties)

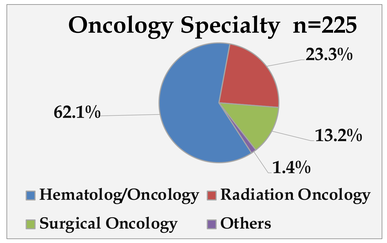
Study Objectives

To examine the **impact** of **advanced CTR training** on **career development**, **return-on-investment** and **research productivity** in Oncology specialties.

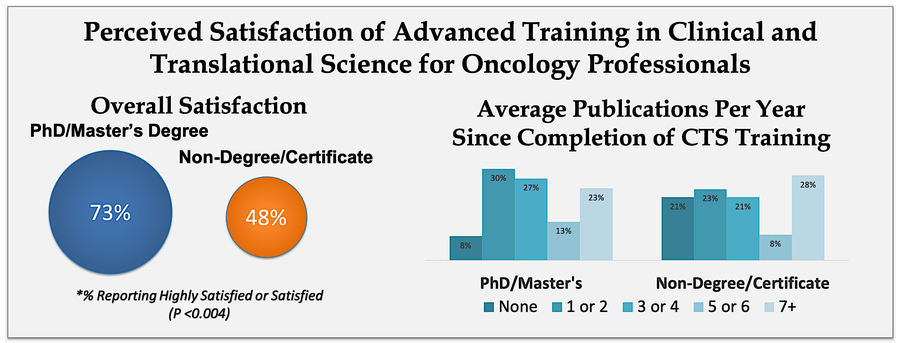
Methods

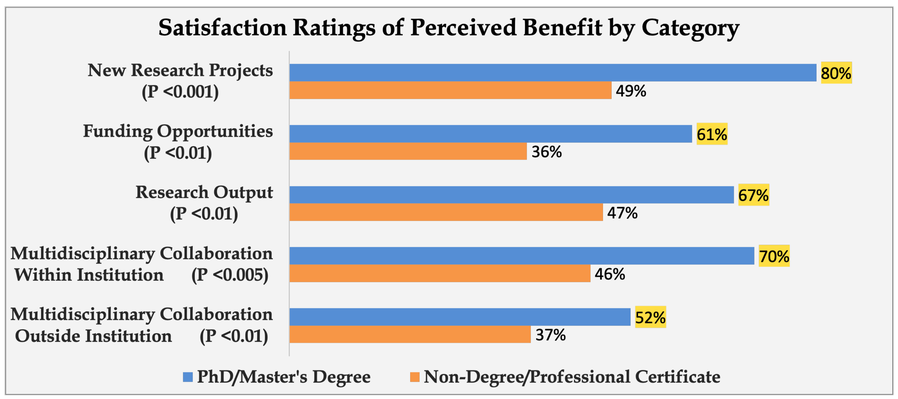
- **IRB Approval** through Oregon Health & Science University (**OHSU**) and **Mayo Clinic**
- Electronic survey designed using Research Electronic Data Capture (**REDCap**)
- Targeted US-board certified Oncology specialties; members of the American Society of Clinical Oncology (**ASCO**); with advance CTR training
- Data collected and anonymized through REDCap
- Data analyzed/compared using **Chi-square test**

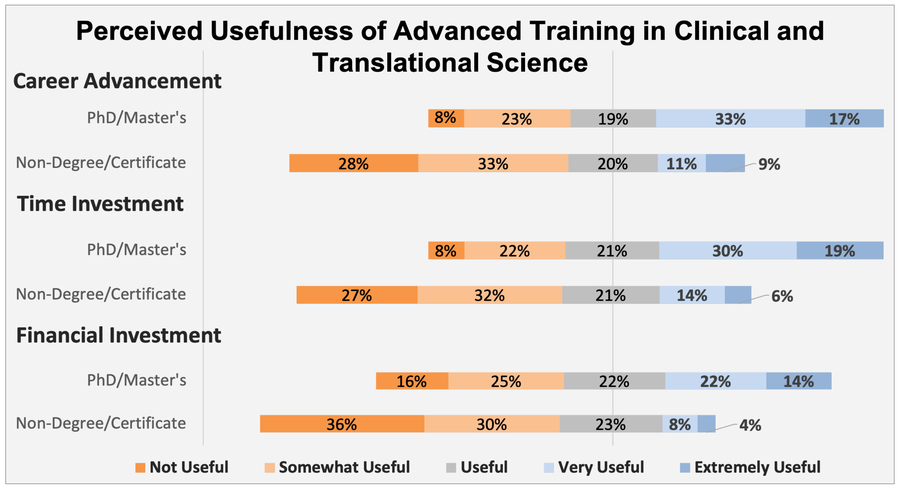
Results



Demographics	Master's/PhD N= 64	Certificate/Non-Degree N=161
Years Since Graduate Medical Education	Less than 15 years 70.3%	More than 15 years 72.3%
Academic Practice Setting	79.7%	57.5%
Institutional Support for Advanced Training	76.6%	37.3%







Limitations

- Two-week period for survey email recruitment release to survey response/return
- ASCO members primarily are medical oncologists (ASTRO - Radiation Oncologists; SSO – Surgical Oncologists)

Conclusions

- First to report satisfaction ratings for advanced degree CTR training among oncology specialties
- **Higher satisfaction** observed with advanced degree CTR training
- Oncology specialists report having advanced degree CTR training as being **more impactful** to **career advancement** and **research productivity**
- Evidence presented is **useful for informing career development** for oncology residents & fellows offered CTR degrees during training

References

1. Institute of Medicine. The CTSA Program at NIH: Opportunities for Advancing Clinical & Translational Research. Washington, DC: National Academies Press; 2013.
2. Selker HP. National common metrics for the NIH Clinical and Translational Science Award Institutions: A signal of the transformation of the American biomedical research enterprise. *J Clin Transl Sci*. 2019;4(1):1-2. Published 2019 Oct 8. doi:10.1017/cts.2019.430
3. U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment Survey" (IPEDS-EF:89-99), "Completions Survey" (IPEDS-C:90-99), and "Institutional Characteristics Survey" (IPEDS-IC:89-99); IPEDS Fall 2000 through Fall 2018, Institutional Characteristics component; IPEDS Spring 2001 through Spring 2019, Fall Enrollment component.

Acknowledgements

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