

Charting the Publication and Citation Impact of the NIH CTSA Program from 2006 Through 2016

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INTRODUCTION

We evaluated publication and citation patterns for articles supported by all Clinical and Translational Science Awards (CTSA) hubs over the first 10 years of the program.

We aimed to provide an account of how time, hub maturity, and hub attributes were related to productivity and influence in the academic literature, a pivotal step in the translational process.

METHOD

- Collected bibliometric data from PubMed, Web of Science InCites, and NIH iCite for articles citing any of the 64 CTSA hub grants.
- Aggregated raw publication and citation data, and indices of relative citation impact by funding year cohort
- Collected information on multi- versus single-institutional hub structure and monetary award amounts from NIH RePORTER.

CITATION

Article published online ahead of print:

Llewellyn N, Carter DR, Rollins L, Nehl EJ. Charting the Publication and Citation Impact of the NIH Clinical and Translational Science Awards (CTSA) Program From 2006 Through 2016. *Academic medicine : journal of the Association of American Medical Colleges*. 2018.



RESULTS, PART 1

From 2006–2016, CTSA hubs supported the research behind:

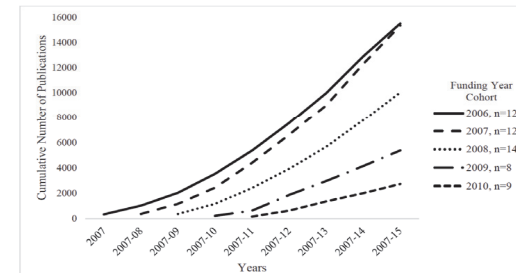
Over **66,000** publications



Cited over **1.2 million** times

Publication rates **accelerated** as hubs matured:

Figure 1. Cumulative number of publications accrued over time, summed within each CTSA funding year cohort from 2006 to 2010



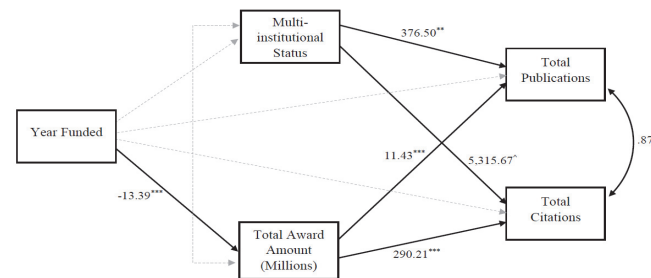
CTSA-supported publications were **cited more than twice as often** as expected for articles of their publication years and disciplines, according to relative citation impact scores:

Mean CNCI score= **2.08**

Mean RCR score= **2.16**

RESULTS, PART 2

Multi-institutional hubs and those awarded **higher grant award sums** exhibited significantly **higher publication and citation activity**, adjusting for years since funding:



CONCLUSION

- The CTSA program is yielding a robust, growing body of influential research findings with consistently high relative citation impact.
- Preliminary evidence suggests that multi-institutional collaborations and monetary resources are associated with elevated bibliometric activity, and thus, may be worthy investments.

CONTACT

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