

# A Qualitative and Quantitative Summary of the Content of Publications Supported by the National CTSA Program from 2006-2017: Diversity, Scope, and Inter-disciplinarity

Nicole Llewellyn PhD<sup>1</sup>, Dorothy Carter PhD<sup>2</sup>, Latrice Rollins PhD<sup>3</sup>, & Eric Nehl PhD<sup>1</sup>  
<sup>1</sup>Emory University, <sup>2</sup>University of Georgia, <sup>3</sup>Morehouse School of Medicine

## INTRODUCTION

The Clinical and Translational Science Awards (CTSA) program is intended to support a broad, disease-agnostic array of innovative, collaborative research endeavors. We used several complementary approaches to assess the diversity, scope, and inter-disciplinarity of publications supported by CTSA resources.

This study characterizes the CTSA program's contributions to various disciplines in the clinical and translational science and identifies content areas of strength and growth.

## METHOD

- Queried PubMed for articles citing any of the 64 CTSA hub grants
- Collected data on Web of Science-designated research areas and corresponding categorizations across translational phases
- Integrated data on journal-level and article-level relative citation impact

## CONTACT

Contact: Nicole.Llewellyn@emory.edu



## RESULTS, PART 1

From 2006-2017, the CTSA program has supported:

Over **76,700** publications

Published in almost **5,000** journals

Covering **189** Web of Science Research Areas

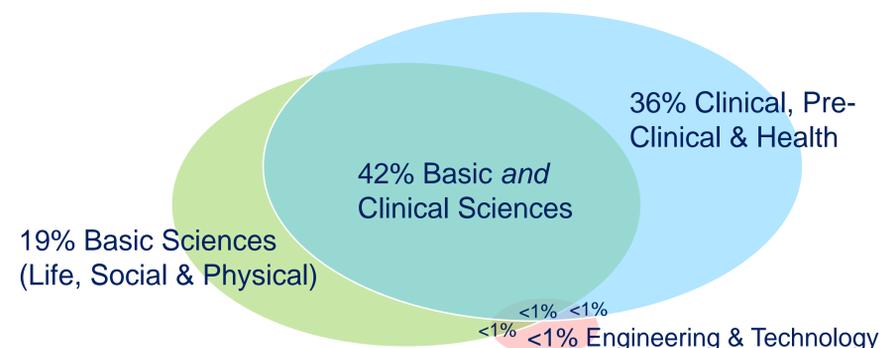
Rank	Top Journals	# Articles	JIF Percentile
1	PLoS One	2,115	77.34
2	The Journal of Clinical Endocrinology & Metabolism	661	85.87
3	Diabetes Care	639	96.74
4	Journal of Pediatrics	630	94.63
5	Pediatrics	562	97.93
6	Clinical and Translational Science Journal of Allergy and Clinical Immunology	547	11.33
7	Immunology	542	97.22
8	Proceedings of the National Academy of Sciences	454	94.53
9	Clinical Journal of the American Society of Nephrology	405	88.96
10	Journal of Acquired Immune Deficiency Syndromes	403	73.33

Rank	Top Web of Science Research Areas	# Articles	# Citations	Mean CNCI Citation Impact Score	Mean RCR Citation Impact Score
1	Neurosciences	4,646	115,516	1.82	2.15
2	Oncology	4,157	115,487	1.98	1.95
3	Clinical Neurology	4,066	98,066	1.90	2.15
4	Endocrinology & Metabolism	4,022	101,283	1.80	2.09
5	Immunology	3,983	108,657	1.89	1.98
6	Public, Environ. & Occup. Health	3,624	46,407	1.56	1.49
7	Pediatrics	3,568	55,471	1.90	1.66
8	Psychiatry	2,989	70,143	1.91	2.16
9	Biochemistry & Mol. Biology	2,975	86,003	2.03	2.07
10	Cardiac & Cardiovascular Syst.	2,835	71,519	2.04	2.17

Heterogeneity indices indicate significant diversity of disciplines represented: Blau's Heterogeneity Index= .99 Shannon Index = 4.17

## RESULTS, PART 2

Inter-disciplinary distribution of Web of Science Research Areas within & across **Translational Phases**: % of Articles



## CONCLUSION

Findings of these analysis inform our understanding of:

- the significant **breadth of subject matter** and audiences reached by CTSA-supported efforts, without concentration in any small areas
- the **range of influence** across top disciplines
- the **inter-disciplinarity** of the portfolio, especially that found between basic and clinical sciences