

PD32-10

Setting the Standards: Examining Research Productivity Amongst Academic Urologists in the United States and Canada in 2019

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Disclosures

- Authors have no disclosures

Introduction

- Research productivity amongst academic urologists is strongly encouraged
 - Little data is available on productivity metrics
- Hirsch or h-index¹
 - h number of papers with $> h$ citations each
 - Helps remove statistical outliers
- Previous study using h-index looked at top 20 programs²

1. Hirsch JE. An index to quantify an individual's scientific research output. *Proc Natl Acad Sci U S A*. 2005 Nov 15;102(46):16569-72.

2. Benway BM, Kalidas P, Cabello JM, Bhayani SB. Does citation analysis reveal association between h-index and academic rank in urology? *Urology*. 2009 Jul;74(1):30-3.

Objective

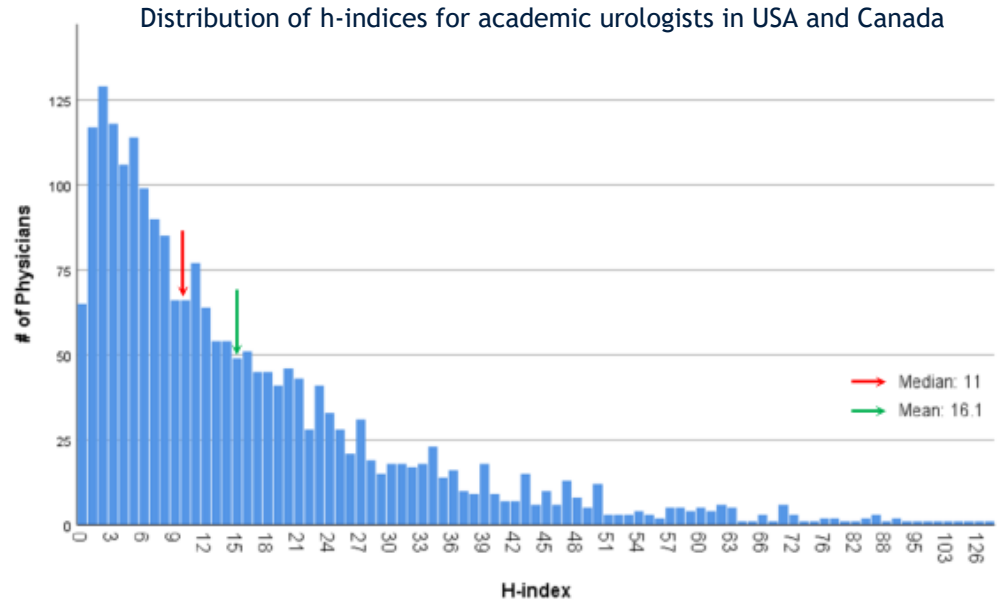
- Provide the first comprehensive assessment of research productivity amongst academic urologists in the USA and Canada

Methods

- Used ACGME, CaRMS, and individual program websites
- Identified all active accredited urology faculty
- Data collected for each individual:
 - AUA section
 - Title
 - Gender
 - Fellowship training
 - Scopus H-index
 - Citations
- Comprehensive searches completed during March-May 2019

Results

- 2214 academic urology faculty
 - 2015 USA, 199 Canada
 - 1894 male, 320 female
 - 1614 fellowship trained
- Median H-index: 11
- Mean H-index: 16.1
- By rank, median H-index:
 - Clinical Instructors: 5
 - Assistant Professors: 6
 - Associate Professors: 13
 - Professors: 29



Results

- Higher h-index
 - AUA section
 - North Central
 - Western
 - Fellowship-trained
 - Higher Academic Rank
- Lower h-index
 - Female physicians

Multivariate logistic regression analysis identifying predictors of h-index greater than the median (h-index > 11)

Variable		Odds Ratio (OR)	95% Confidence Interval	p-value
AUA Section	Mid-Atlantic	REFERENT		
	New England	1.68	0.99-2.83	0.05
	New York	1.40	0.86-2.26	0.17
	North Central	1.75	1.15-2.67	<0.01
	Northeastern	1.15	0.64-2.07	0.64
	South Central	0.89	0.53-1.47	0.64
	South Eastern	1.11	0.72-1.70	0.64
	Western	1.56	1.02-2.40	0.04
Country	United States	REFERENT		
	Canada	1.33	0.76-2.32	0.32
Gender	Male	REFERENT		
	Female	0.34	0.24-0.48	<0.01
Fellowship Trained	No	REFERENT		
	Yes	3.44	2.56-4.63	<0.01
Title	Clinical Instructor	REFERENT		
	Assistant Professor	1.02	0.48-2.14	0.96
	Associate Professor	4.59	2.17-9.68	<0.01
	Professor	30.17	13.88-65.54	<0.01

Conclusions

- Confirmed previous study on a larger scale
 - Strong association between academic rank and higher h-index
- Provides key benchmarks for trainees and practicing physicians
- Evolution with utilization of social media (i.e. Twitter)
- Future directions include further exploration of the demonstrated gender discrepancy within urologic academic productivity

Thank You!

Questions or Comments?

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