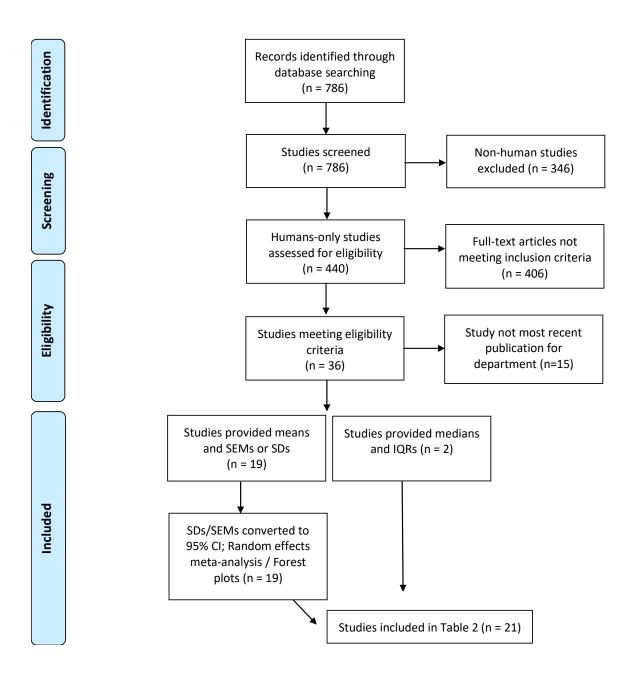
### **Supplementary Digital Appendix 1**

Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) Flow Diagram



"H-index" was searched on PubMed with a result of 786 studies. Of these, 440 humans-only studies were assessed for eligibility and 406 were excluded if they were retracted, not available online, did not include h-indices AND/OR total n values, and those that were review articles. The remaining 36 studies were analyzed and where multiple studies existed for the same department,

the most recent publication was used. If studies provided means, SEMs or SDs, they were converted to 95% confidence intervals and used in the meta-analysis. Studies that provided medians and interquartile ranges were included in data tables but not in the meta-analysis. Template from: Moher D, Liberati A, Tetzlaff J, Altman DG; PRISMA Group. Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA statement. PLoS Med. 20149;6:e1000097.

### **Supplementary Digital Appendix 2 MOOSE Checklist for Meta-analysis of Observational Studies in Epidemiology**

Item No	Recommendation	Reported in Section		
Reporting	of background			
1	Problem definition	Introduction		
2	Hypothesis statement	Introduction		
3	Description of study outcome(s)	Methods		
4	Type of exposure or intervention used	Methods		
5	Type of study designs used	Methods		
6	Study population	Methods		
Reporting	of search strategy should include			
7	Qualifications of searchers (e.g., librarians and investigators)	Methods		
8	Search strategy, including time period included in the synthesis and key words	Methods		
9	Effort to include all available studies, including contact with authors	Methods		
10	Databases and registries searched	Methods		
11	Search software used, name and version, including special features used (e.g., explosion)	Methods		
12	Use of hand searching (e.g., reference lists of obtained articles)	Methods		
13	List of citations located and those excluded, including justification	Methods, References		
14	Method of addressing articles published in languages other than English	Methods		
15	Method of handling abstracts and unpublished studies	Methods		
16	Description of any contact with authors	Methods		
Reporting	of methods should include			
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	Methods		
18	Rationale for the selection and coding of data (e.g., sound clinical principles or convenience)	Methods		
19	Documentation of how data were classified and coded (e.g., multiple raters, blinding and interrater reliability)	Methods		
20	Assessment of confounding (e.g., comparability of cases and controls in studies where appropriate)	NR		
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	Methods, Table 1		
22	Assessment of heterogeneity	Methods		
23	Description of statistical methods (e.g., complete description of fixed or random effects models, justification of whether the chosen models account for predictors of study results, dose-response models, or cumulative meta-analysis) in sufficient detail to be replicated	Methods		
24	Provision of appropriate tables and graphics	Results		

Reportin	g of results should include	
25	Graphic summarizing individual study estimates and overall estimate	Results
26	Table giving descriptive information for each study included	Results
27	Results of sensitivity testing (e.g., subgroup analysis)	Results
28	Indication of statistical uncertainty of findings	Discussion
Reportin	g of discussion should include	
29	Quantitative assessment of bias (e.g., publication bias)	Discussion
30	Justification for exclusion (e.g., exclusion of non-English language citations)	Methods
31	Assessment of quality of included studies	Results, Discussion
Reportin	g of conclusions should include	
32	Consideration of alternative explanations for observed results	Discussion
33	Generalization of the conclusions (i.e., appropriate for the data presented and within the domain of the literature review)	Discussion
34	Guidelines for future research	Discussion
35	Disclosure of funding source	Disclosures

### **Supplementary Digital Appendix 3 PICOS Inclusion Criteria for Population, Intervention, Control, Outcome, and Study Design**

Population Faculty in academic medicine with reported h-index.					
Intervention	None. Study must report h-index.				
Control	N/A				
	H-index, either as mean or median. Other publication metrics if available, including number of citations, number of publications, m-index.				
Study design	Observational studies.				

# Supplementary Digital Appendix 4

#### Mean Number of Publications by Academic Rank and Subspecialty

			Instru	ctor	tor Assis		Associate		Full		Chair			
		N total			Mean		Mean			n		n	Reference	
		faculty	-		publica		public		public		public			published
			ations		tions		ations		ations		ations			
Anesthesiology	Cardiothoracic	259	2	8	7	123	30	56	59	63	120	9	24	2011
Gastroenterology *	,	2043	3.25*	136	7.5*	817	31*	470	87.5*	620			31	2016
	Gastroenterology	80			5.4	28	34.4	25	109.8	27			12	2016
Pediatrics	General	116			4.7	29	30.3	29	85.7	28	111.9	30	12	2016
	Nephrology	80			8.7	28	32.1	25	83.9	27			12	2016
Radiology		538			17	212	41	128	128	198			1	2016
Radiation oncology		986			15.7	465	41.8	251	118.7	195	146.8		26	2017
Sports medicine		313			21	134	45	88	121	91			25	2016
Surgery	General	129			21.3	74	42	55					17	2017
Totals (with		4,544		144										
mean and median values)						1,910		1,127		1,249		114		

\*Asterisk denotes median values instead of mean values.

Within Number of Citations by Academic Nank and Subspecialty														
			Instructor		Assistant		Associate		Full		Chair			
		N total	Mean	n	Mean	n	Mean	n	Mean	n	Mean	n	Reference	Year
		faculty	citations		citations		citations		citations		citations			published
Anesthesiology	Cardiothoracic	259	26	8	117	123	422	56	1,040	63	2,925	9	24	2011
	Gastroenterology	80			78.5	28	505.3	25	2,126	27			12	2016
Pediatrics	General	116			41.4	29	429.3	29	2,097.5	28	3,436.6	30	12	2016
	Nephrology	80			82.3	28	513.8	25	2,073.3	27			12	2016
Psychiatry		1601			258.3	911	756.3	387	2,641.5	303			28	2017
Radiology		538			205	212	687	128	3,622	198			1	2016
Sports medicine		313			321	134	921	88	3,592	91			25	2016
Totals		2,987		8		1,465		738		737		39		

## Supplementary Digital Appendix 5

Mean Number of Citations by Academic Rank and Subspecialty