

Analysis of Tenured Principal Investigators' Publications Profile

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Goal

- To respond to request from intramural senior investigators about the relationship between the impact factor of journals in which the investigators published and the investigators' prospects for tenure track positions.

Strategy

- Examined the publication and citation patterns for recently tenured Senior Investigators in the NIH Intramural Research Program (IRP).
- Examined the impact factors of journals in which these investigators published, and their *h*-indices, as calculated by Scopus
<http://www.scopus.com/home.url>

Data Collection

- Obtain the list of all recently tenured NIH investigators and their terminal degree
- Analyze citation profiles and obtain each author's *h*-index and the list of journals where all of their research articles are published using Scopus <http://www.scopus.com/home.url>
- Compare all authors profiles in terms of gender, and terminal degree

Findings-1

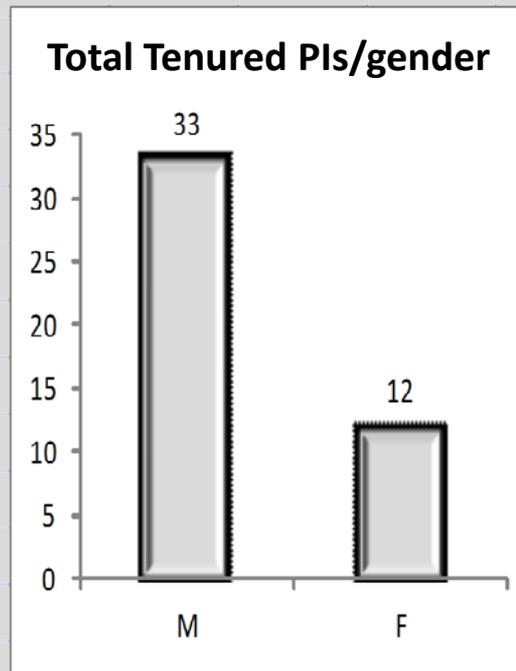
DATA SUMMARY

		# with Impact < 20						#Impact > than 20									
Males Stats	<i>h-Index</i>	Males totals	Ph.D	MD	MD/Ph.D	Ph.D	MD	MD/Ph.D	Females Stats	Females totals	Ph.D	MD	MD/Ph.D	Ph.D	MD	MD/Ph.D	
	<10	2	1	0	1	0	0	0		1	1	0	0	0	0	0	0
	10--30	21	4	0	1	12	2	2		8	2	1	0	4	1	0	
	> 30	10	3	0	2	3	1	1		3	0	0	0	2	1	0	
	Total	33	8	0	4	15	3	3		12	3	1	0	6	2	0	
		total	12			21				total	4			8			
	Male total		33							Females total		12					

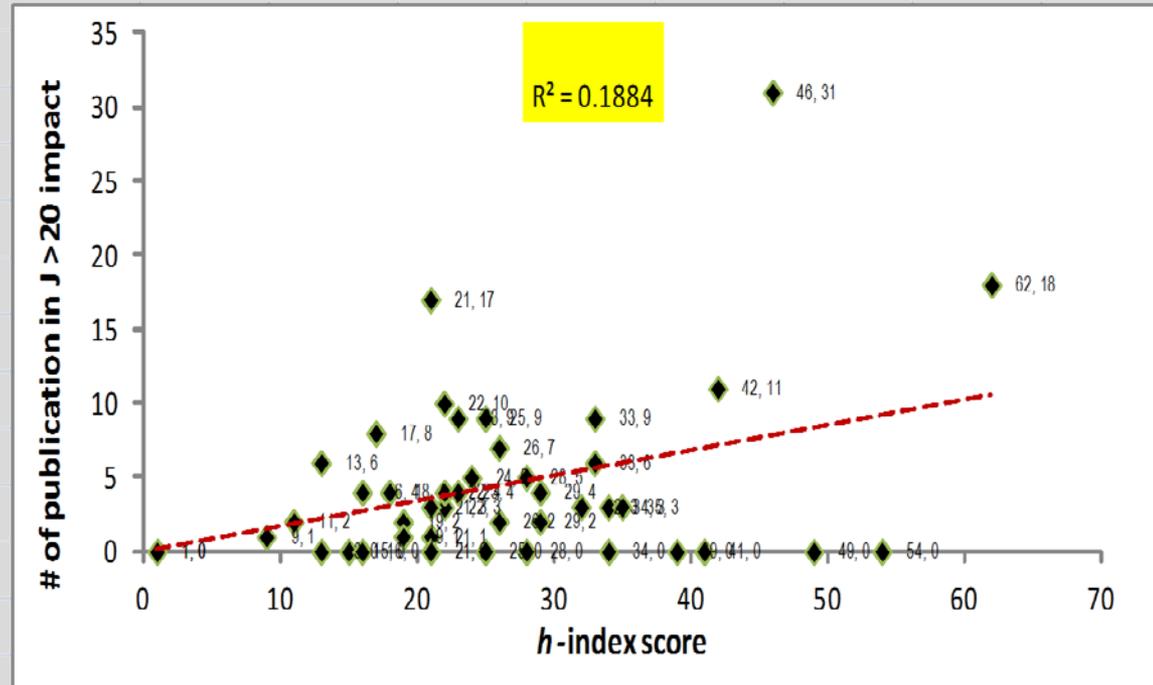
GRAND TOTAL OF PIs = 45

profile summary of all the tenured PIs, sorted by gender and degree

Findings-2

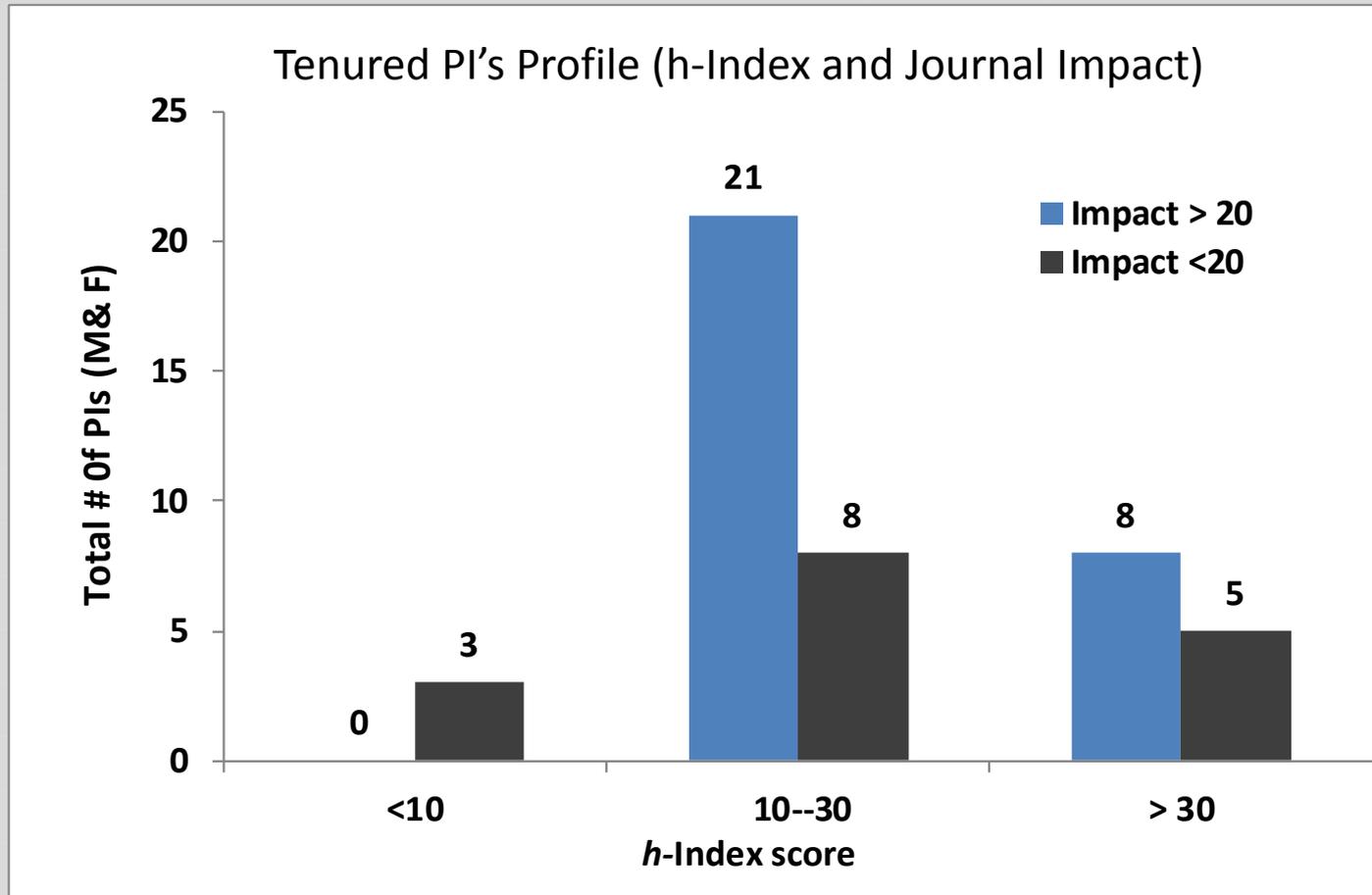


Total # PIs sorted by gender



Scatter plot to correlate between impact and h-index

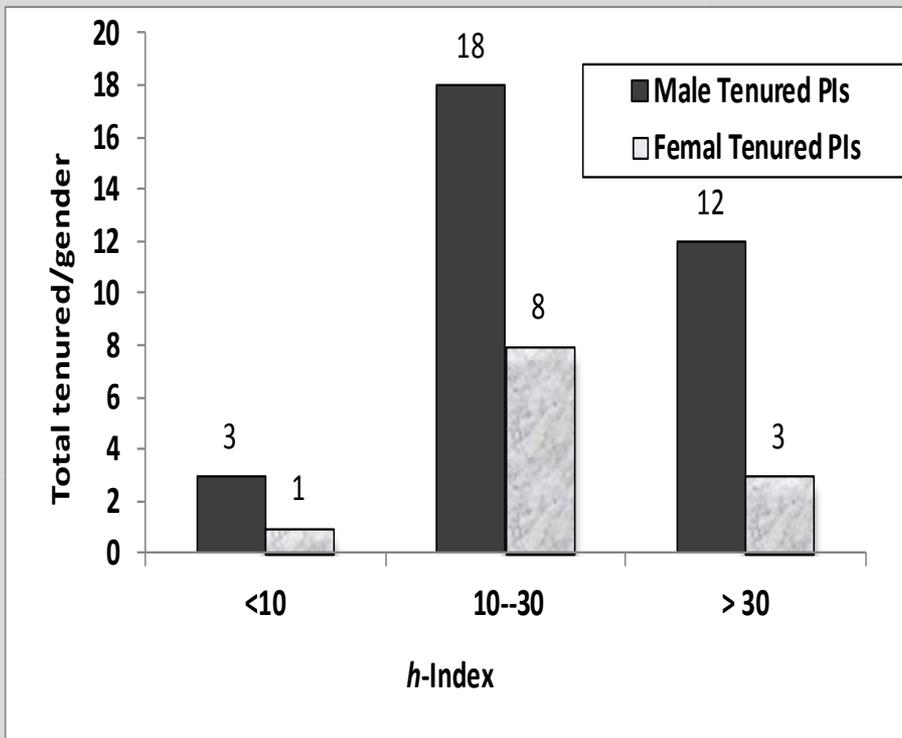
Findings-3



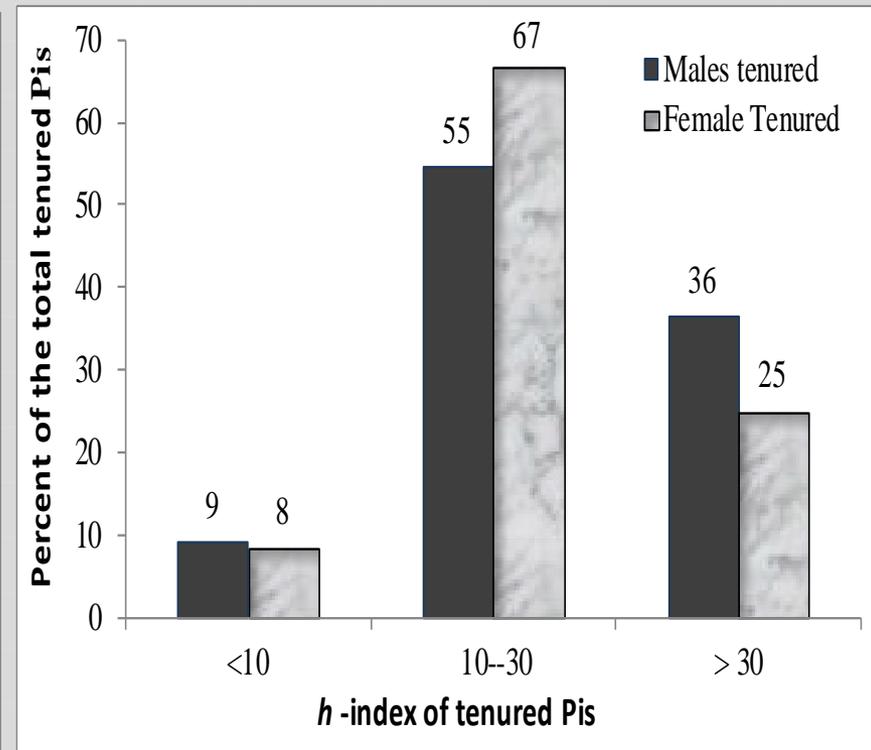
There were a total of 3 , 29, and 13 PIs in each category

Findings-4

4-A Un-Normalized



4-B-Normalized



Findings -5

Fig 5A- Distribution by terminal degrees for impact > 20

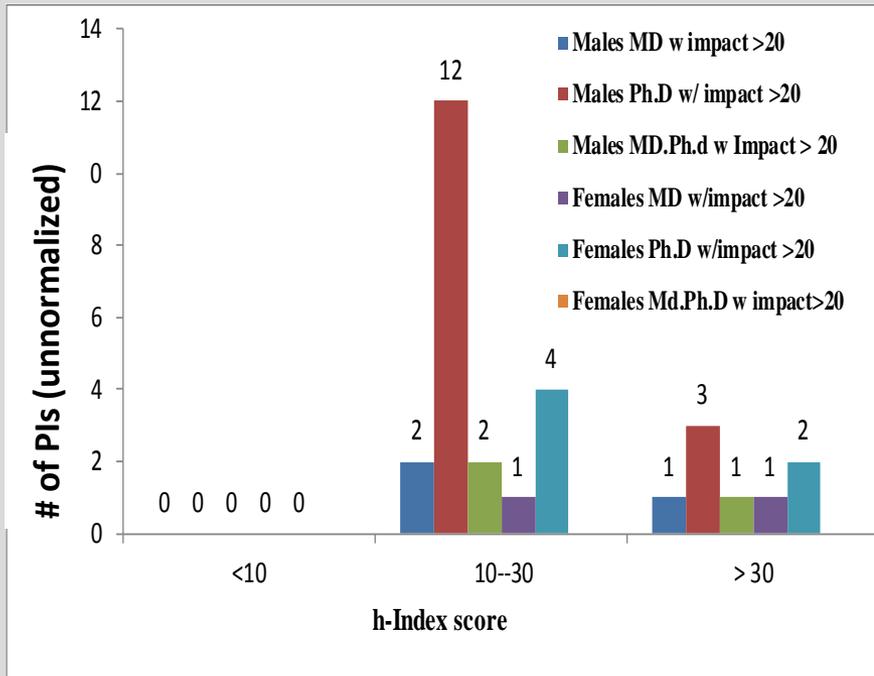
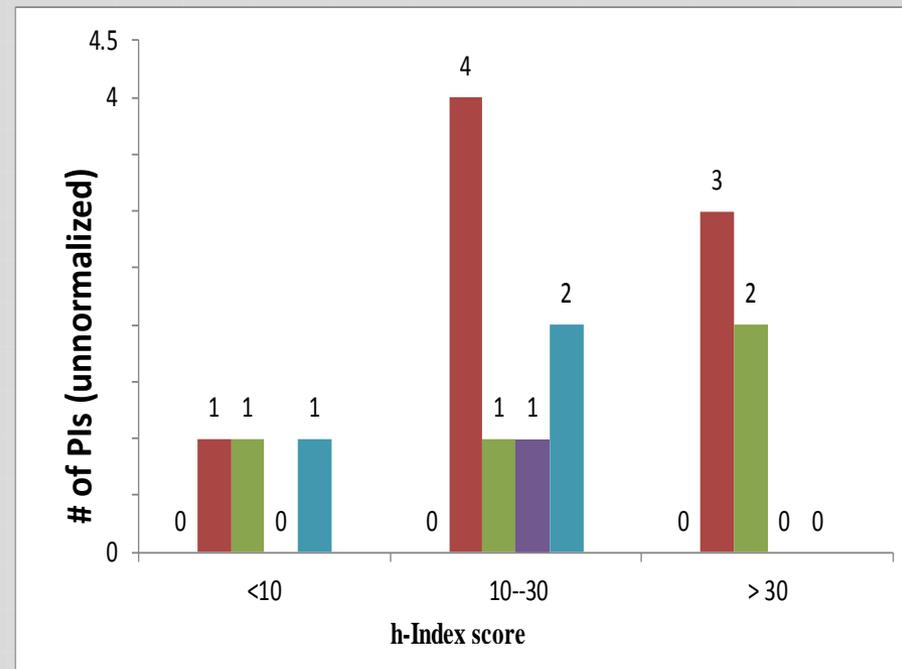


Fig 5B- Distribution by terminal degrees for impact < 20



Note: there are no female MD, PhD's with impact greater than 20

Conclusion

- We found no correlation between the *h*-index and the number of papers in journals with impact factors even with a factor greater than 20
- We noted problems with the accuracy of calculations of the *h*-indices especially for those PIs published prior to 1996; also PIs who are not consistent with the use of their middle initials or for many women a change of last name or hyphenation