Understanding Academic Rank Among Physician Assistants Practicing in Academic Medical Centers

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Presenter



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Disclosures

- Victoria S. Louwagie discloses she is a principle consultant and co-owner of Expanding Healthcare Solutions (EHS).
- EHS did not financially contribute or benefit from this study.

Learning Objectives

At the conclusion of this session, participants should be able to:

1. Have awareness of national PA academic rank trends and perceptions

2. Identify barriers towards seeking academic rank and promotion

3. Advocate for national, state and organizational involvement to foster PA academic rank and promotion

- Academic or clinical rank can signify advancement or achievement in a medical career.
- These ranks in academic centers, can have benefits including more money, more time to pursue research, eligibility for larger grant funding, and potentially more ability to influence the direction of your profession, department, and/or field.

VSL1 Physician Assistant Education Association, By the Numbers: Faculty Report 3: Data from the 2017 Faculty & Directors Survey. Washington, DC: PAEA; 2018. doi:10.17538/FR3.2018

Victoria S Louwagie, 2/5/2021

 Physicians who practice clinically in academic medical centers are often granted rank and expected to progress through the structure, yet little is known if this is similar in the PA profession.



Mayo Clinic PA Academic Rank



Instructor

Assistant Professor

- Associate Professor
- Professor

 Physician workforce literature shows there are discrepancies noted with academic rank and promotion in regards to women and underrepresented minority.

Hypotheses

- To better understand academic and/or clinical rank prevalence among practicing PAs. We specifically seek to understand the following questions:
 - How many PAs practicing clinically in the United States in University or Academic medical centers have academic rank?
 - Are there any differences based on age, sex, gender, or race?
 - How do PAs perceive or understand academic rank?
 - Are there geographic differences?

Research Gap

- This data could help PAs as a profession both grow and understand barriers to achieving academic rank and parity amongst clinical colleagues.
- This data could help advance and strengthen the PA profession.

What to do?

- We proposed a national evaluation of the prevalence, as well as attitudinal beliefs regarding academic or clinical rank among PAs practicing clinically.
- There is little known about this.

Literature Review

 A study completed by Mackey, et. al. in 2016, evaluated both PAs and NPs at Mayo Clinic across the Enterprise, demonstrated that 70% of respondents indicated that they did not have academic rank, while 74% felt that achieving rank was important. VSL2 Mackey, PA, Perez, ST, Frederixon, MA, Larson-Cain, TL, Jameson, KA, Cook, CB. Academic Rank Barriers for Physician Assistants and Nurse Practitioners. The Journal for Nurse Practitioners. 2016;12(5):E211-E218. Victoria S Louwagie, 2/5/2021

Literature Review

- Multiple publications have demonstrated differences in academic rank amongst female physicians compared to their male physician colleagues.
- Differences in academic rank in medicine, also have been noted for minorities particularly those that are Black, Indigenous and persons of color.

Methods and Data Collection

- Approved by the Mayo Clinic Institutional Review board (20-007534)
- Descriptive, correlational, cross sectional study
- Partnered with PA Observations through the AAPA
- REDCap and SAS JAM Pro 14.1.0

- 776 working emails out of an initial 800 PA provider sample population
- 178 respondents participated (RR=22.9%)
- On examination, the response group was representative of the whole sample population

		Respondent Population	Sample Population
Age	20-29	20 (11.3%)	NA
	30-39	66 (37.3%)	NA
	40-49	40 (22.6%)	NA
	50-59	31 (17.5%)	NA
	60-69	19 (10.7%)	NA
	70+	1 (0.6%)	NA
Gender	Male	53 (29.8%)	NA
	Female	125 (70.2%)	NA
Practice setting- Academic/University practice	Yes	105 (59.3%)	62%
	No	72 (40.7%)	38%
Time in Academic/University practice	0-5	49 (46.2%)	43.8%
	5-10	24 (22.6%)	23.2%
	11-15	17 (16.0%)	11.1%
	16-20	7 (6.6%)	10.0%
	21+	9 (8.5%)	11.7%
Race	White-Non Hispanic	141 (81.5%)	NA
	White-Hispanic	8 (4.5%)	NA
	African- American	4 (2.2%)	NA
	Black-Not African or Caribbean	2 (1.1%)	NA
	Asian	4 (2.2%)	NA
	Asian-Chinese	3 (1.7%)	NA
	Asian-Filipino	1 (0.6%)	NA
	Asian-Indian	2 (1.1%)	NA
	Other	4 (2.2%)	NA
	Choose not to disclose or unknown	5 (2.8%)	NA

		Respondent Population	Sample Population
Geographic Region	Northeast (CT,	49 (27.8)	24.8%
	ME, MA, NH,		
	RI, VT, NJ, NY,		
	PA)		
	Midwest (IL, IN,	46 (26.1%)	22.1%
	MI, OH, WI, IA,		
	KS, MN, MO,		
	NE, ND, SD)		
	West (AZ, CO,	29 (16.5%)	19.1%
	ID, MT, NV,		
	NM, UT, WY,		
	AK, CA, HI,OR,		
	WA)		
	South (DE, FL,	52 (29.5%)	33.2%
	GA, MD, NC,		
	SC, VA, DC,		
	WV, AL, KT,		
	MI, TN, AR, LA,		
	OK, TX)		

		Respondent Population	Sample Population
Current Specialty	Primary Care	24 (13.9%)	12.6%
	(Family		
	Medicine,		
	Internal		
	Medicine,		
	Pediatrics)		
	Medical	53 (30.6%)	30.8%
	Specialty		
	(Outpatient)		
	Medical	43 (24.9%)	24.7%
	Specialty		
	(Inpatient- such		
	as Hospital		
	Medicine/ICU)		
	Surgical	53 (30.6%)	31.9%
	Specialty		
Highest Degree Held	Associates	2 (1.1%)	NA
	Bachelors	13 (7.3%)	NA
	Masters	147 (83.1%)	NA
	Doctorate	15 (8.5%)	NA

Eligibility to attain Academic and/or Clinical Rank



Current Academic Rank

Instructor	6 (3.4%)	
Clinical Instructor	11 (6.2%)	
Assistant Professor	5 (2.8%)	
Clinical Assistant Professor	1 (0.6%)	
Associate Professor	3 (1.7%)	
Clinical Associate Professor	5 (2.8%)	
Professor	0 (0.0%)	
Clinical Professor	1 (0.6%)	
I do not currently hold rank	145 (81.9%)	

Association of positive correlations between Demographics and importance/desire for rank. (Positive correlations are bolded with a notation of the positive finding)

Demographic	Achieve or Advance	Desire for Academic	Importance of
	Rank	or Clinical Rank	Academic or Clinical
			Rank
Age	P=0.8732	P=0.4915	P=0.4000
Gender	P=0.9748	P=0.7619	P=0.1408
Practice Setting	P=0.2899	P=0.0566	P=0.0164 (Academic or
			Hospital Setting)
Time in Setting	P=0.3557	P=0.5671	P=0.2204
Race	P=0.6328	P=0.3227	P=0.0124 (African
			American and Asian
			Indian)
Geographic Region	P=0.6450	P=0.0321 (Southern	P=0.0906
		Region)	
Specialty	P=0.2571	P=0.3060	P=0.3080
Education	P=0.0743	P=0.0165 (Doctoral	P=0.0373 (Doctoral
		Degree)	Degree)
Current Rank	P=0.4294	P=0.4556	P=0.0001 (Having
			current Rank)
Eligibility	P=0.0720	P=0.1093	P=0.0283 (Being
D 0			eligible for Rank)

Perceptions of outcomes of achieving Academic and/or Clinical Rank





Perceptions of barriers to achieving Academic and/or Clinical Rank

Limitations

- Novel and first of its kind
- Relatively low response rate
- Limited number of professional and demographic characteristics
- COVID-19 pandemic
- Major strengths include a national sample of PAs with the majority practicing in multiple specialties

Discussion

- PA providers would not only pursue rank opportunities when available but also have a strong desire to do so.
- Unfortunately, many of the PAs noted that academic/ clinical rank was not available for them at their institutions
- This creates a unique tension and possible career dissatisfier.

Discussion

- PAs noted that a lack of mentorship or an emphasis on achieving rank in formal PA educational training, among their departmental/divisional leadership, institutional PA leadership and/or state or local academy involvement all created barriers to the ability to pursue academic clinical rank.
- There are numerous publications that highlight quality academic/ career mentor ship significantly and substantially positively impact academic progress, productivity, retention and job satisfaction.

Discussion

- As the profession sees and expansion of DMSc programs targeted at clinically practicing PAs, we may see an increase in a desire for academic or clinical rank among these providers and they may intentionally seek out employment at centers that allowed them to pursue these goals.
- These PAs with doctorates may have the most career mobility for promotion and professional impact.

Conclusion

- This is a first of its kind, novel study of clinically practicing PAs across the country examining perceptions, believes and prevalence of academic/clinical rank.
- We would suggest that the findings indicate that PA leadership in academic or teaching hospitals work hard with individual department individual leadership, academic promotion committees and try to developed a mentor should program to help developed and advance this part of practicing PAs careers.

Conclusion

- Additionally we encourage state academies and the AAPA to work to support clinical PAs who pursue or wish to pursue academic clinical rank opportunities.
- Finally, we welcome PA programs to discuss rank, and encourage graduates to pursue it when and if possible.

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Questions

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