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Background

- Over 6 million patients require treatment in intensive care units for life-threatening conditions every year in the US
- Since the start of the COVID-19 pandemic, critical care medicine providers have held an immense responsibility in providing care to critically ill patients
- Staff from across the hospital have been redeployed to work in critical care units
- Health crises such as the COVID-19 pandemic, particularly during surging infection rates, have exponentially increased demand for acute, emergent, and intensive care
- More research is needed in understanding the critical care medicine PA workforce demographic characteristics and practice patterns

Objective & Method

- The study's objective was to:
- describe the growth of PAs in psychiatry from 2016 to 2021 and
- explore key demographic and practice characteristics of PAs working in critical care medicine and compare to PAs practicing in all other specialties
- Data were derived from National Commission on Certification of Physician Assistants (NCCPA) PA Professional Profile
- Analysis of the data consisted of descriptive statistics and bivariate analyses (Chi-square tests and Mann-Whitney U tests) conducted using SPSS

Email questions to Kasey Puckett at kaseyk@nccpa.net



	PAs p Crit N
Race:	IV
White	
Asian	
African American	
Multiple Races	
Other	
Ethnicity:	
Non-Hispanic/Latino	
Hispanic/Latino	
Hours worked per week:	
Median	
Mean	
Patients seen per week:	
Median	
Mean	
On-call hours per week:	
None (I do not take calls)	
5 or less hours/week	
6-10 hours/week	
More than 10 hours/week	
Armed forces served:	
Yes	
Νο	
Speak language other than English:	
Yes	
Νο	
Intention to leave clinical position:	
Yes	
No	
Job Satisfaction:	
Satisfied	
Dissatisfied	
Burnout:	
No symptoms of burnout	
At least one symptom of burnout	

PAs in Critical Care Medicine

National Commission on Certification of Physician Assistants



The US regions and their percentage of PAs practicing in critical care medicine are as follows: Northeast (40.8%), South (35.3%), Midwest (15.3%), and West (8.6%).

Services provided in principal clinical position of PAs practicing in Critical Care Medicine vs. PAs practicing in all other disciplines			
	PAs practicing in Critical Care Medicine who indicated service provided for "Most Patients"	PAs practicing in all other disciplines who indicated service provided for "Most Patients"	P-value
Diagnosis, treatment, and management of acute illness	95.1%	76.5%	<0.001
Diagnosis, treatment, and management of chronic illness	64.3%	58.1%	<0.001
Conduct physical examinations and obtain medical histories	92.9%	89.6%	<0.001
Order, perform, and interpret lab tests, X-rays, EKGs, and other diagnostic studies	97.7%	80.6%	<0.001
Provide preventive care, including screening and immunizations	19.8%	39.8%	<0.001
Perform procedures	54.7%	33.8%	<0.001
Counsel and educate patients and families	73.8%	81.8%	<0.001
Provide care coordination	65.1%	51.6%	<0.001
Make referrals	40.5%	41.8%	<0.001

- p<0.001)

Key Findings and Conclusion

• The number of PAs in critical care medicine has grown by 67% between 2016 and 2021

• PAs in critical care medicine were significantly more likely to work in multiple clinical positions compared to PAs in all other specialties (19.8%) vs. 11.2%; p<0.001)

Despite PAs in critical care medicine vs. all other disciplines being more likely to report one or more burnout symptoms (37.9% vs. 30.5%; p<0.001), they were equally satisfied with their positions (86.5% vs. 85.2%; p=0.131)

PAs in critical care medicine provide indispensable services, including diagnosing, treating, and managing patients with acute conditions, conducting physical examinations, and obtaining medical histories, ordering,

performing, and interpreting lab tests and diagnostic studies, performing procedures, and providing care conditions

PAs in all other disciplines were significantly more likely to participate in telemedicine compared to those in critical care medicine (34.0% vs. 9.7%;

Knowing the characteristics of the PA critical care medicine workforce will contribute to quantifying their contribution to the overall critical care medicine workforce

References

Halpern NA, Goldman DA, Tan KS, et al. Trends in critical care beds and use among population groups and Medicare and Medicaid beneficiaries in the United States: 2000-2010. Crit Care Med. 2016;44:1490-1499.

National Commission on Certification of Physician Assistants, Inc. (2021). 2020 Statistical Profile of Certified Physician Assistants: An Annual Report of the National Commission on Certification of Physician Assistants. Retrieved from

http://www.nccpa.net/resources/nccpa-research/