#### **Analysis of Open Payment Database for** Physician Assistants: Demonstrating Gender Parity in General Payments

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#### Study Team

- Christine C Land MPAS PA-C
- Jacqueline M Jaramillo APRN
- Brooke J Fitzpatrick BA, MPH and PhD student
- Collin Dougherty BS
- Juan Santamaria-Barria MD



#### Disclosures

No funding No significant disclosures pertaining to this discussion

- Christine Land, Jacqueline Jaramillo, Brooke Fitzpatrick, and Collin Dougherty have no disclosures
- Juan Santamaria-Barria
- Food and beverage from Sientra, Axogen, Hologic, Agendia

#### Juan Antonio Santamaria



National Provider Identifier (NPI) - 1134474141

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#### Background

- Affordable Care Act 2010
- Changes to US healthcare system including need for transparency



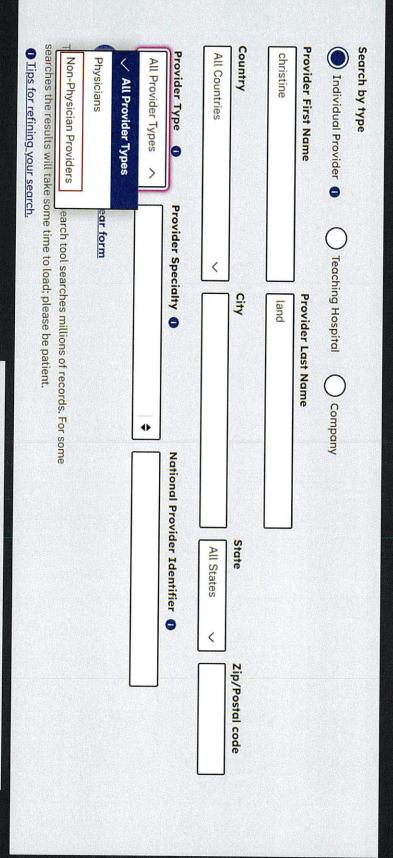
- Anything valued more than \$10 tracked and reported by industry GPO (group purchasing organization)
- CMS annually publishes data from year prior







#### Background:



OpenPaymentsData.CMS.gov



#### Background

- Inclusion of Non-Physician Providers added in 2021
- Physician Assistants/Associates
- Nurse Practitioners
- Clinical Nurse Specialist
- Certified Nurse Midwives
- CRNAs (Certified Registered Nurse Anesthetist)
- Anesthesiology Assistants



- Physician Reporting began 2013
- Types and Distribution of Payments from Industry to Physicians in 2015
- \$2.4 billion dollars in 2015 to physicians
- Higher payments to surgeons vs primary care
- Higher payments to men vs women

### Types and Distribution of Payments From Industry to Physicians in 2015

Kathryn R. Tringale, BS<sup>1</sup>; Deborah Marshall, MAS, MD<sup>2</sup>; Tim K. Mackey, PhD<sup>3</sup>; <u>et al</u>

Author Affiliations | Article Information

JAMA. 2017;317(17):1774-1784. doi:10.1001/jama.2017.3091

Tringale KR, Marshall D, Mackey TK, Connor M, Murphy JD, Hattangadi-Gluth JA. Types and Distribution of Payments From Industry to Physicians in 2015. *JAMA*. 2017;317(17):1774–1784. doi:10.1001/jama.2017.3091



- Comparison of Physician Payments and Advanced Practice Clinicians
- APPs majority from food and beverage; physicians wider variety of services

#### Comparison of Industry Payments **Practice Clinicians** to Physicians and Advanced

Audrey D. Zhang, MD<sup>1</sup>; Timothy S. Anderson, MD, MAS<sup>2</sup>

Zhang AD, Anderson TS. Comparison of Industry Payments to Physicians and Advanced Practice
Clinicians. *JAMA*. 2022;328(24):2452–2455. doi:10.1001/jama.2022.20794



- Evaluation of Industry Payments to US Advanced Practice Clinicians in 2021
- Higher value of payments in regions of lesser restrictions to APPs



Original Investigation | Health Policy

Evaluation of Industry Payments to US Advanced Practice Clinicians in 2021

Armaan Singh, BA; Max J. Hyman, BA; Parth K. Modi, MD, MS

Singh A, Hyman MJ, Modi PK. Evaluation of Industry Payments to US Advanced Practice Clinicians in 2021. *JAMA Netw Open.* 2022;5(11):e2242869.
doi:10.1001/jamanetworkopen.2022.42869



- Advanced Practice Clinicians Geographic Distribution of General Industry Payments to
- Found payments to APPs were highly variable by state

Health Affairs Scholar, 2023, 1(1), 1–6 https://doi.org/10.1093/haschi/qxad011 Advance access publication: June 20, 2023 Research Article





Geographic distribution of general industry payments to advanced-practice clinicians

Qiwei Wilton Sun<sup>1</sup>, Joseph J. Cavallo<sup>2</sup>, Howard P. Forman<sup>2,3,4,\*</sup>

Volume 1, Issue 1, July 2023, qxad011, <u>https://doi.org/10.1093/haschl/qxad011</u> general industry payments to advanced-practice clinicians, Health Affairs Scholar, Qiwei Wilton Sun, Joseph J Cavallo, Howard P Forman, Geographic distribution of



# Statistics of Physician Assistants in 2022

- Total PAs in US 2022 168,318 per NCCPA annual report
- Top 5 states with highest number of PAs:
- New York
- California
- Florida
- Texas
- Pennsylvania



# Statistics of Physician Assistants in 2022

- Gender Distribution:
- Male 29.3%
- Female 70.3%



Statistical Profile of Board Certified PAs

**ANNUAL REPORT** 

NA	<0.1%	Prefer not to answer**
NA	<0.1%	Non-binary**
1.8%	70.6%	Female
-1.9%	29.3%	Male
Percent Change 2018-2022*	2022 Percent	Gender

<sup>\*</sup>Percent change reflects proportional change from 2018 to 2022.

www.nccpa.net



<sup>\*\*</sup>Gender identity choice first included in 2021.

### Study Objectives

- To understand the landscape of physician assistants companies during 2021 and 2022 receiving payments from drug and medical device
- To learn if gender payment parity exists between men and women physician assistants



#### Methods

- All payment data collected for PAs with NPI number for 2021 and 2022 reporting years
- Provider name
- NPI Number
- Location of practice
- Yearly amount collected from the open payments database
- (Gender not provided within this database)



# Landscape of Payments 2021/2022

1,867	Number of Recipients (Highly Paid >\$5k)
\$106.94	Mean Payment (Highly Paid >\$5k)
\$42,270,637	Total Payments (Highly Paid >\$5k)
90,410	Number of Recipients
\$38.09	Mean Payment
\$91,296,747	Total Payments
Assistants in 2021 and 2022	Landscape of Payments to Physician Assistants in 2021 an



### Nature of General Payments

- 1.Acquisition
  2.Charitable contribution
- Contribution for non-consulting services
- 4.Compensation for serving as faculty or speaker for medical educational program
- Consulting fees
- Current or prospective ownership or investment interest
- 7.Debt forgiveness
- 8.Education
- 9.Entertainment
- 10.Food and Beverage
- 11.Gift
- 12.Grant
- 13.Honoraria
- 14.Long term medical supply or device loan
- 15.Research
- 16.Royalty or license
- 17.Space rental or facility fees
- 18.Travel or lodging

Newly added in 2021

Considered as research dollars



### Methods: Highly Compensated

- Considered to be if individual PA had total of more than \$5,000 in a year
- This subset was reviewed further and gender was assigned to look at gender parity



### Methods: Gender Assignment

- Gender API
- Gives percentage for certainty of gender based off name
- Manual Online Search
- If certainty of gender from name was less than 75%

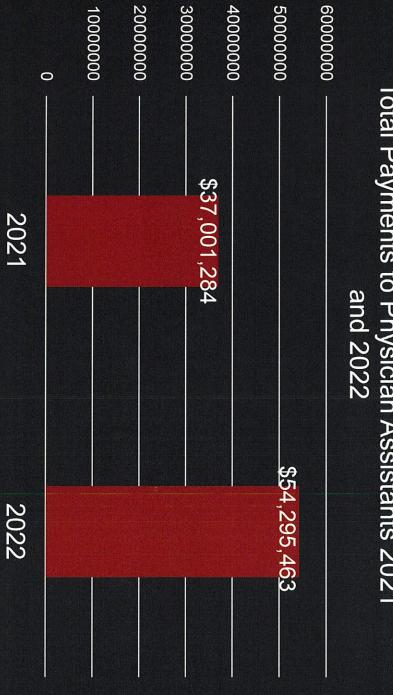
#### Gender API

Gender-API is AI powered and helps you to find out whether a first name is more likely be used by males or females.



## Results: Total Payments to PAs

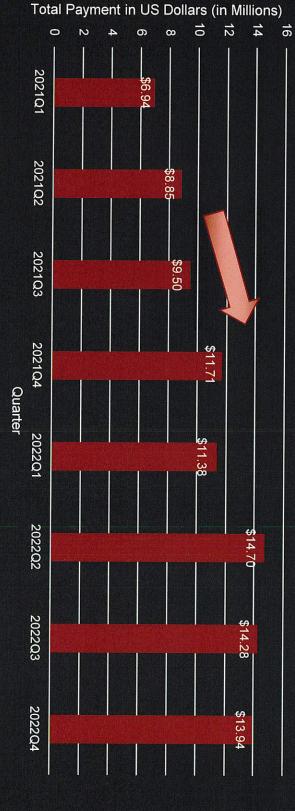
Total Payments to Physician Assistants 2021





## Results: Payments per Quarter

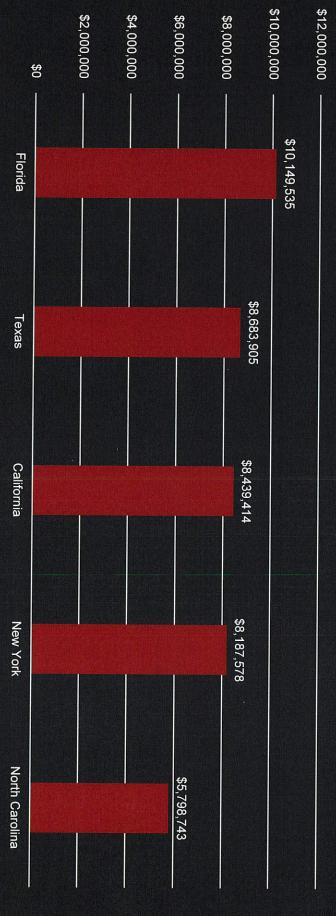






### Results: By State

US States with Highest Paid Dollars to PAs 2021/2022





## Results: Top Paying Companies

Top 5 Companies with Industry Payments to PAs





## Results: Top Paying Companies

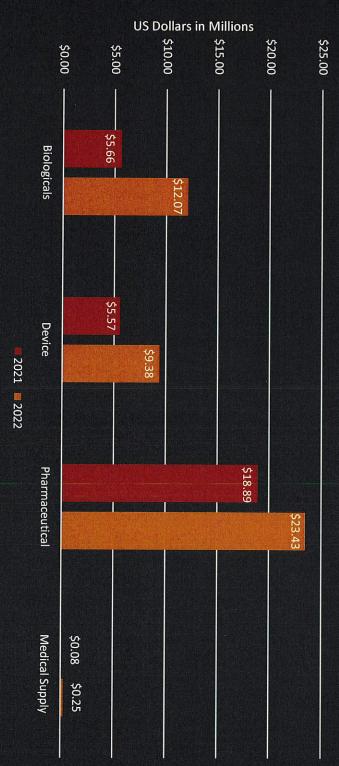
- AbbVie Immunology, Oncology, Eye, Aesthetics
- Allergan (now part of AbbVie) Aesthetics
- Galderma Dermatology (Botox, etc)
- Janssen Biotech (now part of J&J)





## Results: Device, Drug, Biological

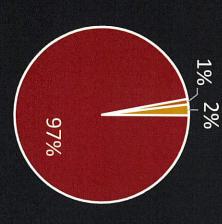
Nature of Payments to PAs in 2021/2022



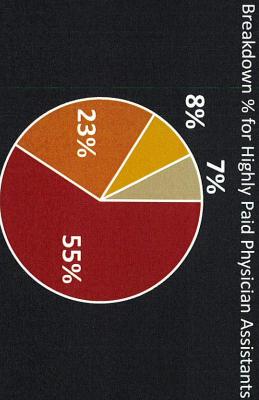


### Results: Breakdown Nature of Payments in General Payments and Highly Paid PAs

Breakdown % in General Payments



- Food and Beverage
- Travel and Lodging
- Other (all other categories)

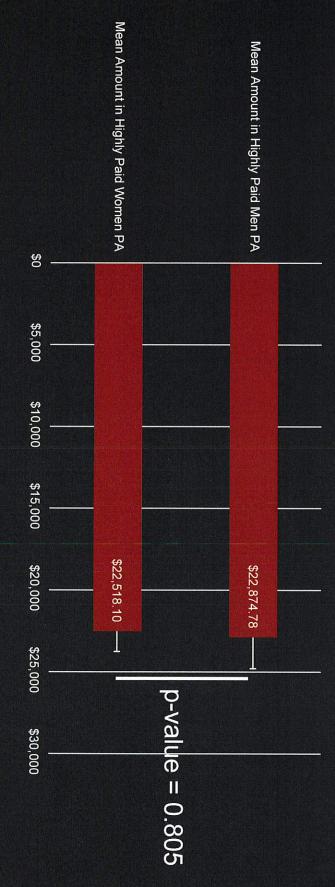


- Food and Beverage
- Services other than consulting
- Consulting
- Travel and Lodging



# Results: Gender Comparison of Highly Paid PAs

Mean Total Dollars Between Highly Paid Women and Men PAs





#### Limitations

- hospital/clinic website Gender – online searches to include online sources like LinkedIn Bios, workplace bios, and pronoun usages on
- Gender self-assigned and is a limitation when WE be highly accurate needed to assign; however, we believe Gender API to
- Highly paid \$5k+ amount was set by us
- Anytime looking at Open Payment Data there is an assumption of compliance for reporting



#### Discussion

- There is a substantial amount of money paid to PAs from industry
- Non-research nearing \$100 million between 2021 and 2022 to just PAs
- Majority of individual payments were for food and but much wider variety in payments for highly paid PAs beverage in general payments and also in highly paid PAs



## Discussion: Gender Breakdown

- Payments in highly paid PAs there is parity in gender ratio
- 1,867 PAs that received over \$5,000 from industry
- 1,224 were women (66%)
- 643 were men (34%)
- Mean average of payments between men and women
- \$22,518 for women
- \$22,875 for men



## Discussion: Gender Breakdown

- Gender parity between male and female PAs in 2021 and 2022
- Not seen in physician counterparts
- Santamaria-Barria, Juan A. MD; Nelson, Hannah BS; Jiang, Heng MBBS; Dougherty, Collin E. BS; Jadhav, Snehal BS‡; Watanabe-Galloway, Shinobu PhD‡; Mammen, Joshua M.V. MD, PhD; Mercer, David W. MD⁵. Open Payments Data Analysis of General and Fellowship-trained Surgeons Receiving Industry General Payments From 2016 to 2020: Payment Disparities and COVID-19 Pandemic Impact. Annals of Surgery 278(3):p 396-407, September 2023. | DOI: 10.1097/SLA.0000000000005951
- Meredith G Moore, Kyle W Singerman, William J Kitzmiller, Ryan M Gobble, Gender Disparity in 2013-2018 Industry Payments to Plastic Surgeons, *Aesthetic Surgery Journal*, Volume 41, Issue 11, November 2021, Pages 1316– 1320, <a href="https://doi.org/10.1093/asj/sjaa367">https://doi.org/10.1093/asj/sjaa367</a>



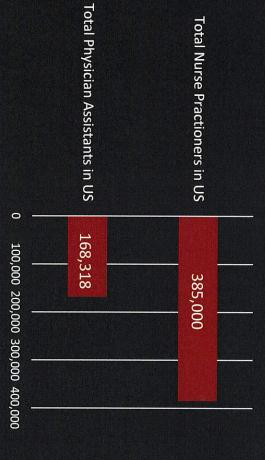
### Provider Groups Discussion: Comparison Between

- According to OPD Database:
- Total US Dollars in 2022 \$12.58 billion
- Payments to physicians in 2022 \$2.46 billion
- Payments to non-physician providers in 2022 \$168.46 million

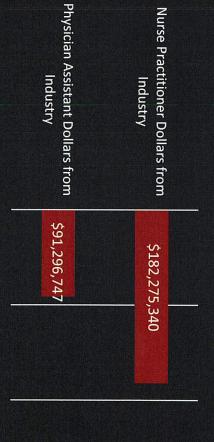


### 2021 and 2022 Discussion: Comparison PAs and NPs in

### Comparison Total PAs and NPs



### Comparison Dollars from Industry to PA and NPs







100,000,000 200,000,000

## Discussion: What to Look to Next

- Continuing to watch trends for Physicians, PAs and NPs
- Ethics of PAs receiving industry dollars
- Trends in payments depending on changing laws of autonomy for APPs
- Looking into race difference of payments to APPs



### Questions?

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