



# CURRICULAR APPROACHES TO TRANSGENDER HEALTH IN PA EDUCATION

#### AAPA 2021 RESEARCH IN ACTION

JOANNE ROLLS MEHP MPAS PA-C, JOHN DAVIS PHD MD, RICHARD BACKMAN, MD, TIM WOOD DHSC PA-C, TRENTON HONDA PHD MMS PA-C

## DISCLOSURES



- No relevant commercial relationships to disclose.
- No discussion of off-label medication use



#### LEARNING OBJECTIVES



- At the end of this session, participants should be able to:
  - Describe the current state of PA education as is relates to transgender health content
  - Recognize known barriers to curricular implementation of transgender health in order to improve PA training





## BACKGROUND: SEX & GENDER

- Sex: biologic variable, chromosomes, gene expression, hormones, anatomy
- Gender: social construct, heavily informed by biologic sex,
- Gender identity: internal sense of being masculine, feminine, both, neither
- Cisgender: sex assigned at birth concordant with gender
- Transgender: Sex assigned at birth not concordant with gender



#### BACKGROUND- STATS MATTER



- At least 1.4 Million US Adults
- Experience economic, health access and healthcare disparities at high rates
- Experience abuse and discrimination in a healthcare setting
- Structural and Provider-level barriers to care



#### **BACKGROUND - EDUCATION**



- Little formal medical education
- PA education?
- AAMC called for curricular and climate changes
- ARC-PA
- NCCPA



#### METHODS

- Survey selected by PAEA STAR Program
- Included in 2018 Program Survey
- # of hours, content, assessment, faculty, barriers, perceived quality and importance
- Data analysis: descriptive stats, histograms frequencies, proportions, Chi-square and Fisher's exact
- Categorized as "Teaches" = at least one hour of transgender content or "Does not teach"





#### RESEARCH

Meet Our Newest Cohort of STARs

BY NIKKI FRIAS // MARCH 14, 2018

Joanne Rolls (right) and Richard Backman (left) of the University of Utah.

A team of researchers studying transgender health curricula has been selected to receive this year's STAR award.

#### RESULTS – PROGRAMS TEACHING TRANS HEALTH





#### **RESULTS – HOURS DIDACTIC TEACHING REPORTED**



#### **RESULTS – COURSES WHERE CONTENT DELIVERED**





#### **RESULTS-TOPICS COVERED**

#### RESULTS- KNOWLEDGEABLE FACULTY?





#### BARRIERS TO CURRICULAR IMPLEMENTATION





#### **RESULTS - DESCRIPTION OF OVERALL COVERAGE**



	Total n (%)	Does Not Teach n (%)	Teaches n (%)	p-value
Total Respondents	236 (100)	34 (14.4)	202 (85.6)	
Region				p=0.01
Midwest	53 (22.5)	15 (44.1)	38 (18.8)	
Northeast	75 (31.8)	6 (17.9)	69 (34.2)	
South	78 (33.1)	8 (25.5)	70 (34.7)	
West	30 (12.7)	5 (14.7)	25 (12.4)	



	Total n (%)	Does Not Teach n (%)	Teaches n (%)	p-value
<u>How Important to</u> Include in PA Education				p<0.001
Not at all important	2 (0.9)	2 (5.9)	0 (0)	
Slightly Important	32 (13.6)	12 (35.3)	20 (9.9)	
Moderately Important	83 (36.2)	11 (32.4)	72 (35.6)	
Very Important	80 (33.9)	8 (23.5)	72 (35.6)	
Extremely important	39 (16.5)	1 (2.9)	38 (18.8)	



	Total n (%)	Does Not Teach n (%)	Teaches n (%)	p-value
<u>At least 1</u> <u>Knowledgeable</u> Faculty Member				p=0.01
Yes	132 (55.9)	12 (35.3)	120 (59.4)	
No	39 (16.5)	16 (47.1)	49 (24.3)	
Not Sure	65 (27.5)	6 (17.6)	33 (16.3)	



#### DISCUSSION

- Overall high number of programs teaching at least 1 hour of content
- Most common topics align with cultural competency and healthcare disparities, not medicine topics
- Despite 86% of programs "teaching" only 20% consider "good" or "very good"
- Reassuring
  - Institutional culture as a barrier only 7 programs
- Gap in education about adolescents and children
- Risk: high association between "teaching" and knowledgeable faculty





#### DISCUSSION – STRENGTHS AND WEAKNESSES

- 100% response rate
- Depth of questions
- Possible social desirability bias?
- Possible recall bias?
- Program directors completing survey
- Doesn't capture training in clinical year





#### DISCUSSION

- What drives curricular change?
  - 2019 PANCE content blueprint changes
  - 2019 ARC-PA diversity standard
- Next Steps
  - Time-efficient, easy to adopt curriculum using Vanderbilt iterative change model
  - Faculty Development
  - Additional Research





#### TAKE HOME POINTS

- Transgender folks are an underserved group who deserve high-quality, safe, and accessible care
- Patients, students, accrediting bodies, will drive the demand for better provider education
- Even before new requirements 84% of programs were teaching this content
- Significant gap in education about children and adolescents
- As there is this high association between
  "teaching" and knowledgeable faculty, need curriculum not dependent on a single faculty





#### ACKNOWLEDGMENTS



- Johns Hopkins University MEHP Program
- Dr. Marjorie Jenkins
- PAEA STAR Award and Research Team
- Academic Medicine
  - You can find the full published study here: https://journals.lww.com/academicmedicine/fulltext/2020/10000/curricular\_ approaches\_to\_transgender\_health\_in.35.aspx



#### REFERENCES

1. Flores A, Herman J, Gates G, Brown T. The Williams Institute. How many adults identify as transgender in the United States? 2016. Los Angeles, CA. 2. Winter S, Diamond M, Green J, Karasic D, Reed T, Whittle S, & Wylie K. Transgender people; Health at the margins of society. *The Lancet*. 2016; (338)390-400.

3. Buchholz L. Transgender care moves into the mainstream. JAMA, 2014, October 14, E1-E3.

4. Roberts TK, Fantz CR. Barriers to quality health care for the transgender population. *Clin Biochem*. 2014 July;47(10-11):983-7

5. Reisner SL, Deutsch MB, Bhasin S, et al. Advancing methods for U.S. transgender health research. Curr Opin Endocrinol Diabetes Obes. 2016 April; 23(2):198-207. doi:10.1097/MED. 00000000000229.

6. Association of American Medical Colleges. Implementing Curricular and Institutional Climate Changes to Improve Health Care for Individuals Who Are LGBT, Gender Nonconforming, or Born with DSD. Washington, DC: Association of American Medical Colleges; 2014.

7. Liang JL, Gardner IH, Walker JA, Safer JD. Observed deficiencies in medical student knowledge of transgender and intersex health. *Endocrine Practice*. 2017;23(8). 897-906. DOI:10.4158/EP17158.OR

8. Obedin-Maliver J, Goldsmith ES, Stewart L, et al. Lesbian, gay, bisexual, and transgender–related content in undergraduate medical education. JAMA, 2011;306(9), 971-977

9. Seaborne LA, Prince RJ, Kushner DM. Sexual health education in U.S. physician assistant programs. J Sex Med, 2015;12:1158-1164

10. Coplan B, Cawley J, & Stoehr J. Physician assistants in primary care: Trends and characteristics. Annals of Family Medicine, 2013. 11(1), 75–79. http://doi.org/10.1370/afm.1432

11. Physician Assistant Education Association. (2018). Support to Advance Research (STAR) Program. Retrieved from <a href="http://paeaonline.org/research/star-program/">http://paeaonline.org/research/star-program/</a>

12. Physician Assistant Education Association. (2018) PAEA Program Directory. Retrieved from <a href="http://directory.paeaonline.org/?\_ga=2.181884772.2136700387.1527562156-1860917774.1501453008">http://directory.paeaonline.org/?\_ga=2.181884772.2136700387.1527562156-1860917774.1501453008</a>

13. SAS Institute Inc. SAS version 9.4. Copyright 2019.

14. Toomey RB, Syvertsen AK, Shramko M. Transgender adolescent suicide behavior. *Pediatrics*, 2018; 142(4): e2017218 DOI: <a href="https://doi.org/10.1542/peds.2017-4218">https://doi.org/10.1542/peds.2017-4218</a>

15. Content blueprint for the Physician Assistant National Certifying Examination (PANCE) (effective beginning January 2019 for all PANC administration). NCCPA. Retrieved from <a href="https://prodcmsstoragesa.blob.core.windows.net/uploads/files/PANCEBlueprint.pdf">https://prodcmsstoragesa.blob.core.windows.net/uploads/files/PANCEBlueprint.pdf</a> from <a href="https://www.nccpa.net/pance-content-blueprint">https://prodcmsstoragesa.blob.core.windows.net/uploads/files/PANCEBlueprint.pdf</a>

16. Association of American Medical Colleges. "Integrating LGBT Health into Medical Education." (May, 2015). AAMC Videos Washington, DC: Association of American Medical Colleges. Available online at: https://www.aamc.ora/initiatives/diversity/431600/integrationvideo.html





©UNIVERSITY



# Questions?

#### Email: joanne.rolls@hsc.utah.edu

