# #PlanA: Through Education and Advocacy Empower Students to Practice Safe Sex Behaviors

**District IV NABP/AACP Grant Award to Pharmacy Students** 

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## **Unintended Pregnancies in the United States**

**41.6%** of all pregnancies<sup>1</sup>

51.5% of pregnancies in women 20-24 years<sup>1</sup>

65% higher college dropout rate<sup>2</sup>

Insufficient
education on
reproductive
health in grade
and high school<sup>3</sup>



# **#PlanA Project Partners**

- Representatives Kara Hope and Stephanie Young, Michigan legislators
- Eric Roath, PharmD, Director of Government Affairs,
   Michigan Pharmacists Association
- Students for Reproductive Justice, Wayne State University
- Planned Parenthood of Michigan



# **#PlanA Project Purpose and Interventions**

- Decrease reproductive health knowledge gaps among college students
- Empower students to practice safe sex behaviors to prevent unintended pregnancies

#1

#2

#3

**Train student pharmacists** to become competent reproductive health educators

Provide **reproductive health trivia events** across Wayne State's campus

Give interactive, comprehensive reproductive health seminars to WSU students on the main and health campuses



#### **Intervention #1: Train Student Pharmacists**

#### **Training**

- Review reproductive health pharmacotherapy module
- Attend 1 hour #PlanA training session
- Complete pre- and post-knowledge surveys
  - ≥ 90% post-survey score to participate

#### **Student pharmacist outcomes**

44 second to fourth year student pharmacists





#### Intervention #2: #PlanA Trivia Events



Michigan Pharmacists Association Annual Meeting - Wayne Alumni Reception



#### **Intervention #2: #PlanA Trivia Events**

#### **Events**

- 14 investigator-developed trivia items
- 23 sessions across campus
- Candy and/or condoms for answering questions
- Birth Control Pharmacist contraception product kit



#### Intervention #2: #PlanA Trivia Outcomes

#### **Participants**

- 634 students
  - 64% female, 35% male, 1% other (transgender, nonbinary)
  - 60% freshman and sophomores, 32% junior and seniors, and 8% graduate

student (PhD, MS, post doc, medical student)

#### **Outcomes**

- Questions answered: 3 per student (range 1-14)
  - Correct answers: 1.8 questions (range 0-8)
- Time spent at table: 2.5 minutes (range 1-13)
- Education value: 9.2 (range 2-10)





# Intervention #3: #PlanA Reproductive Health Seminars

Jan

Presentation creation and student pharmacist training

Jan

Pre-, post- and follow-up survey creation

Jan -Aug

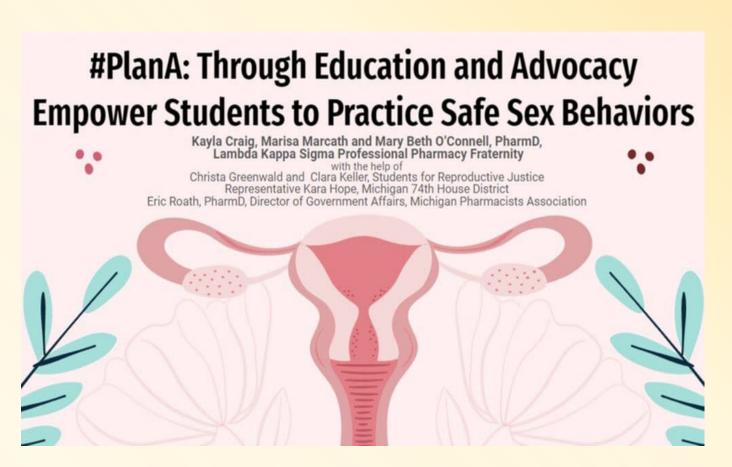
Attendee recruitment

Feb -Aug

Seminars and surveys

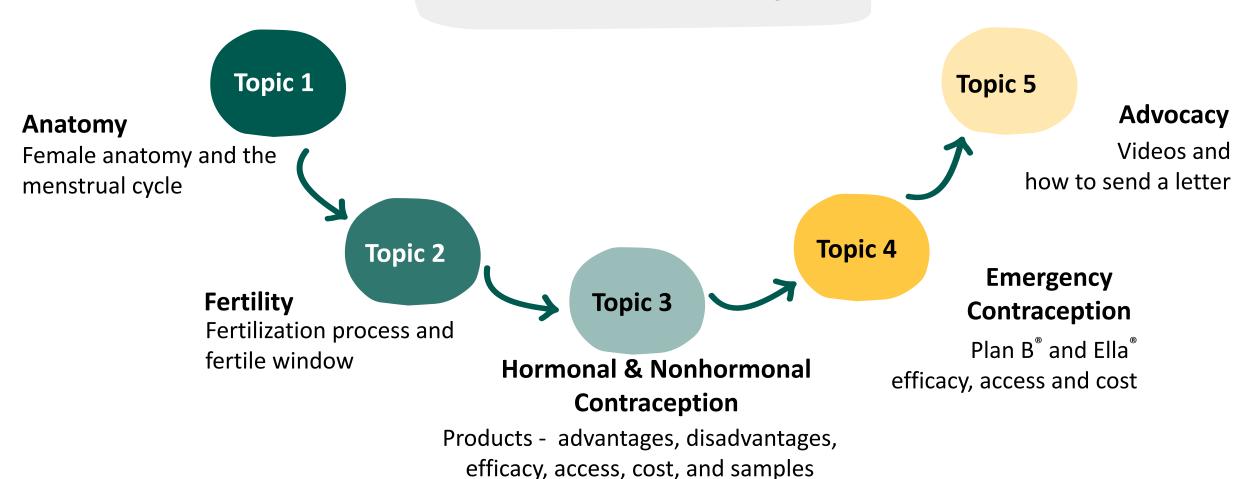
April - Oct

2-month follow-up surveys sent





# **#PlanA Seminar Topics**





# **Seminar Surveys**

- Anonymous codes
- **10-item** pre- and post-Qualtrics surveys \$5 gift card
  - o Pre-survey + 6 demographic items
  - o Post-survey + 13 program evaluation items
- 15-item follow-up survey two months after their seminar \$10 gift card

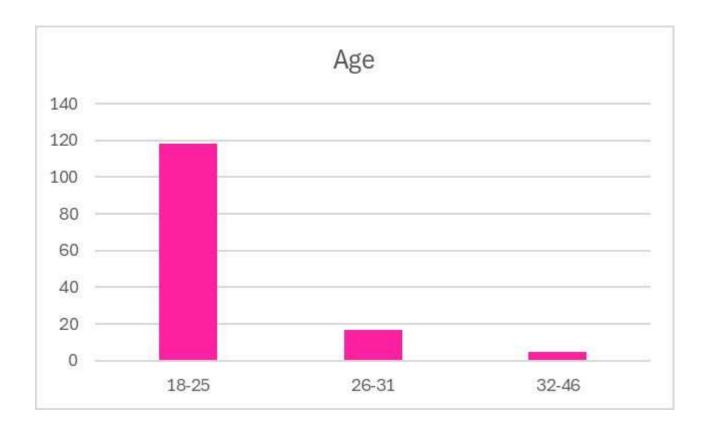
# **#PlanA Seminars**



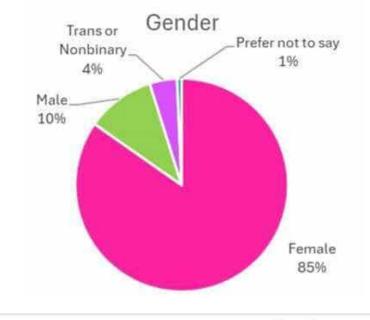


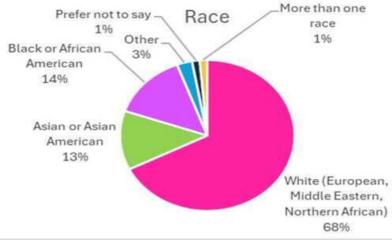


## **Seminar Attendee Demographics**



Age N = 140





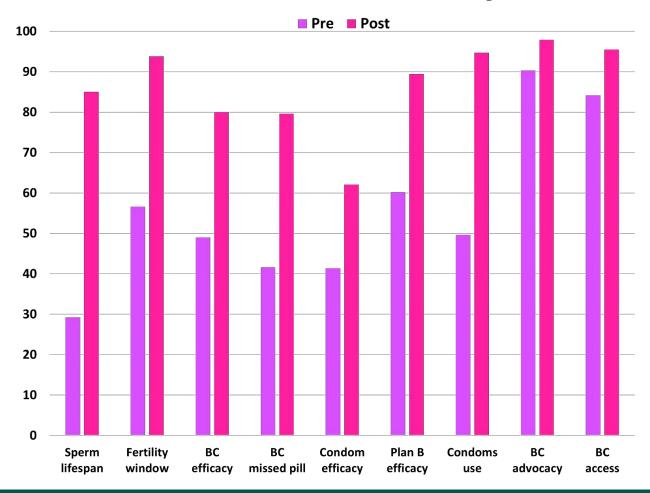
Gender and Race N = 144



## **Seminar Survey Outcomes**

- **175** students
  - 153 survey-eligible students
  - 145 completing both surveys (94.8% response rate).
- Post-survey total knowledge scores were significantly higher than pre-survey total scores (84% v. 56%, respectively, p = <.001).</li>
- Nine of the ten content questions were statistically significant documenting knowledge improvement.

# **Seminar Pre- and Post-Survey Outcomes**



# **Seminar Post-Survey Program Evaluation**

98.2% Agreed\*

My knowledge about reproductive health and safe sex behaviors greatly increased as a function of attending this seminar.

97.2% Agreed

The information presented today will help me prevent an unintended pregnancy.

97.1% Agreed

I would recommend #PlanA seminars to other students.

95.3% Agreed Being able to obtain contraception from a pharmacist would help decrease unintended pregnancies.

# **Two-Month Follow-Up Survey Findings**

Statement	Strongly Agree/Agree Responses	Neutral/Disagree Responses
The #PlanA seminar was very helpful to me to prevent future unintended pregnancies.	97 (98.0%)	2 (2.0%)
After attending the seminar, I am more confident in making the correct birth control and reproductive health decisions for myself to prevent unintended pregnancies.	98 (99.0%)	1 (1.0%)
After attending the seminar, I am more confident in incorporating safe sex behaviors into my relationships.	97 (98%)	2 (2.0%)
After attending the seminar, I am <b>more informed</b> about the availability and correct use of <b>emergency contraception</b> .	88 (97.8%)	2 (2.0%)
Have you emailed your Michigan House of Representatives legislator a letter to support pharmacists prescribing birth control?		
Yes	18 (18.2%)	
No, I will do so now.	26 (26.3%)	
No, I will do later.	40 (40.4%)	
No, I do not plan on emailing.	15 (15.2%)	



## Discussion... A Learning Experience

#### Trivia

- Student recruitment
- Timing

#### Seminar

- Greater seminar attendance
  - Signing up, not showing up
  - Public vs student organization seminars
  - Men and LGBTQ+
- Quality control how are sessions being run?





#### **Conclusions**

- Providing students with a brief presentation on critical reproductive health information and safe sex behaviors decreased their knowledge gap on these topics and changed some health behaviors among college-aged students.
- The positive student responses to our program highlight the critical need for sexual health programs available to college-aged students to fill gaps in grade and high school programs.
- Potentially, this type of reproductive health education program might decrease the high unintended pregnancy rate among college-aged students.



# **Next Steps for #PlanA Research and Programs**

Two posters at the 2024 ACCP Annual Meeting – Finalist for Best Student Poster

Trivia paper to

Am J Col Health

Seminar paper to Pharmacy journal Trivia and seminars with APhA-ASP's Operation Reproductive Health



# Thank you to District IV NABP/AACP for supporting us!



# Questions?



WAYNE STATE

Eugene Applebaum College of Pharmacy and Health Sciences

#### References

- Rossen LM, Hamilton BE, Abma JC, Gregory ECW, Beresovsky V, Resendez AV, et al. Updated methodology to estimate overall and unintended pregnancy rates in the United States. National Center for Health Statistics. Vital Health Stat 2(201). 2023. DOI: <a href="https://dx.doi.org/10.15620/cdc:124395">https://dx.doi.org/10.15620/cdc:124395</a>.
- 2. Prentice M, Storin C, Robinson G. Make it personal: How pregnancy planning and prevention help students complete college. Washington, DC: American Association of Community Colleges. 2012. Available from:

  <a href="https://powertodecide.org/what-we-do/information/resource-library/make-it-personal.">https://powertodecide.org/what-we-do/information/resource-library/make-it-personal.</a> Accessed May 5, 2024.
- 3. Kaye K, Suellentrop K, Sloup C. The Fog Zone: How misperceptions, magical thinking, and ambivalence put young adults at risk for unplanned pregnancy. Washington, DC: The National Campaign to Prevent Teen and Unplanned Pregnancy. 2009. Available from: <a href="https://powertodecide.org/what-we-do/information/resource-library/fog-zone-summary.">https://powertodecide.org/what-we-do/information/resource-library/fog-zone-summary.</a> Accessed May 5, 2024.

