Teen Pregnancy in Alexandria: What Does the Data Tell Us?

Lina Zimmerman, MPH Alexandria Health Department





Presentation Overview

- Virginia Department of Health (VDH) Adolescent Pregnancy Data
 - Notes About the Data
 - Trends Over Time & Place
 - Trends by Race & Hispanic Ethnicity
- Teen Wellness Center (TWC) Data
- Alexandria Youth Risk Behavior Survey (YRBS) Data
 - Notes About the YRBS
 - Youth Risk Behaviors
 - Youth Perceptions of Risk
- Key Takeaways
- Questions



Alphabet Soup is Good for the Soul

	Acronym	Meaning
	TPR	Teen Pregnancy Rate # of Pregnancies per 1,000 females ages 10-19
	IUDs	Intrauterine Devices
	LARCs	Long-Acting Reversable Contraceptives (IUDs & implants)
	ACPS	Alexandria City Public Schools
	YRBS	Alexandria Youth Risk Behavior Survey
	VDH	Virginia Department of Health



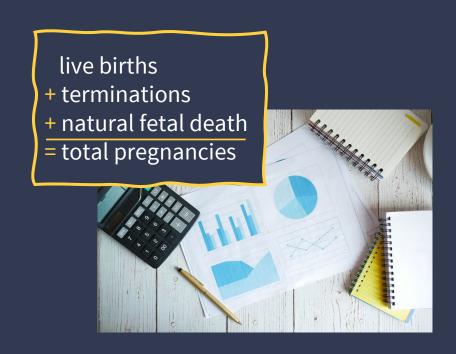


Adolescent Pregnancy Data



Numbers, Proportions, & Rates (Oh My!)

- Numbers (#)
 - Used to calculate proportions & rate
- Proportions
 - Expressed as a percentage (%) of the total
 - Help us *describe* our population
- Rates
 - Expressed as a number per 1,000 people
 - Help us control for population differences
 - Allow us to *compare* across time & space
 - VDH changed the population data used to calculate rates in 2018
 - Rates from 2018-2022 should **not** be compared to rates calculated prior to 2018



Alexandria's TPR Increased from 2021-2022

2021

- 56 teen pregnancies in Alexandria
- 9.4 pregnancies per 1,000 females ages 10 to 19

2022

- 74 teen pregnancies in Alexandria
- 12.4 pregnancies per 1,000 females ages 10 to 19



From 2021 to 2022 Alexandria's TPR increased **31.9%**This increase was *not* statistically significant



Alexandria's TBR Increased from 2021-2022

2021

- 36 teen births in Alexandria
- 6.0 births per 1,000 females ages 10 to 19

2022

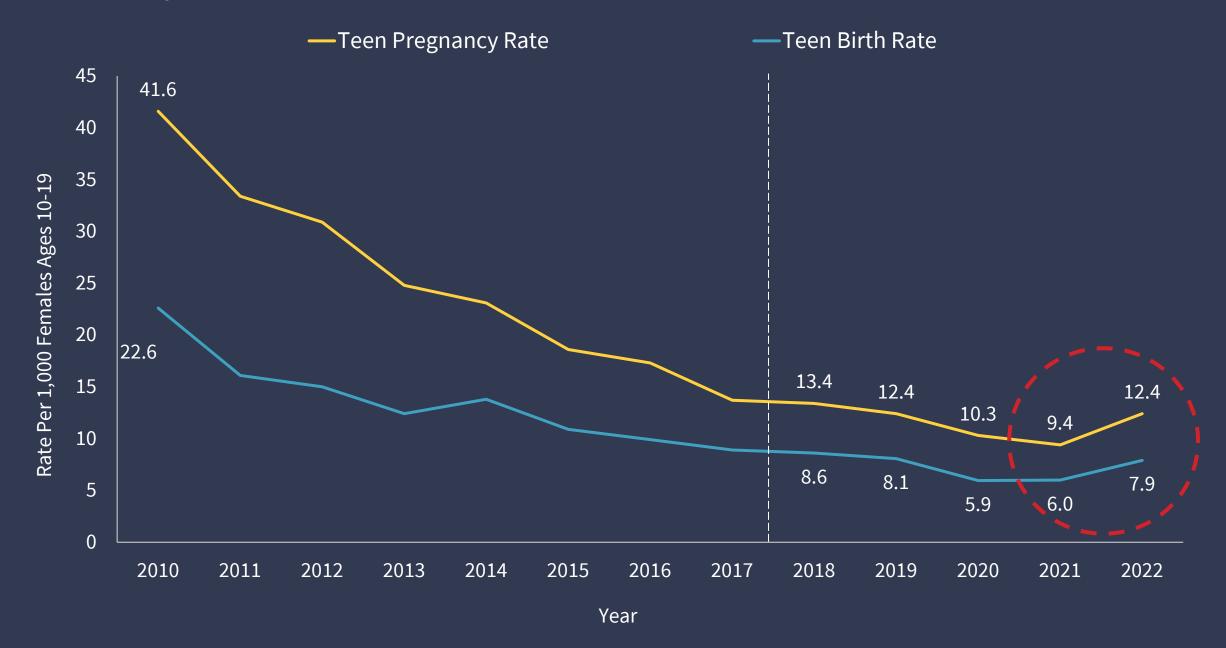
- 47 teen births in Alexandria
- 7.9 births per 1,000 females ages 10 to 19



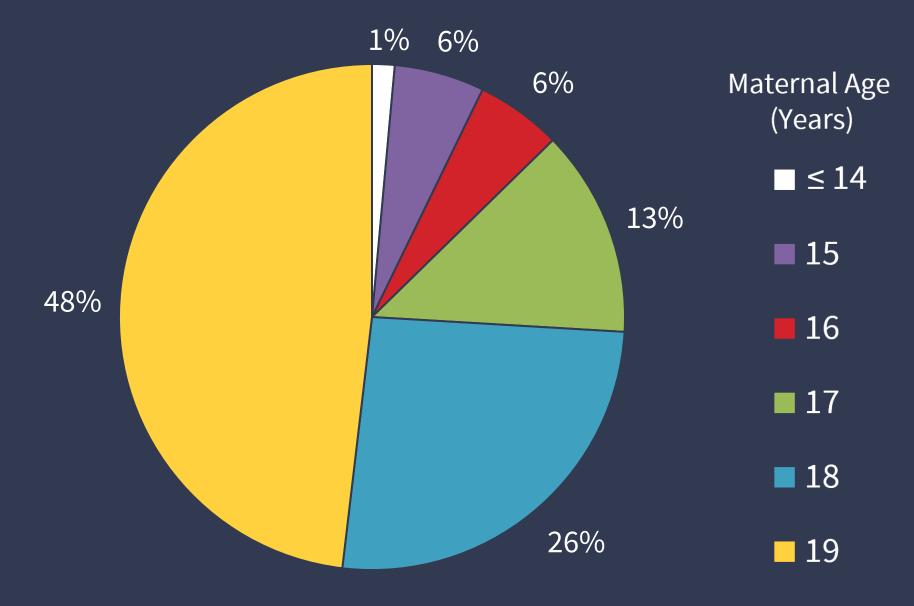
From 2021 to 2022 Alexandria's TBR increased **31.7%**This increase was *not* statistically significant



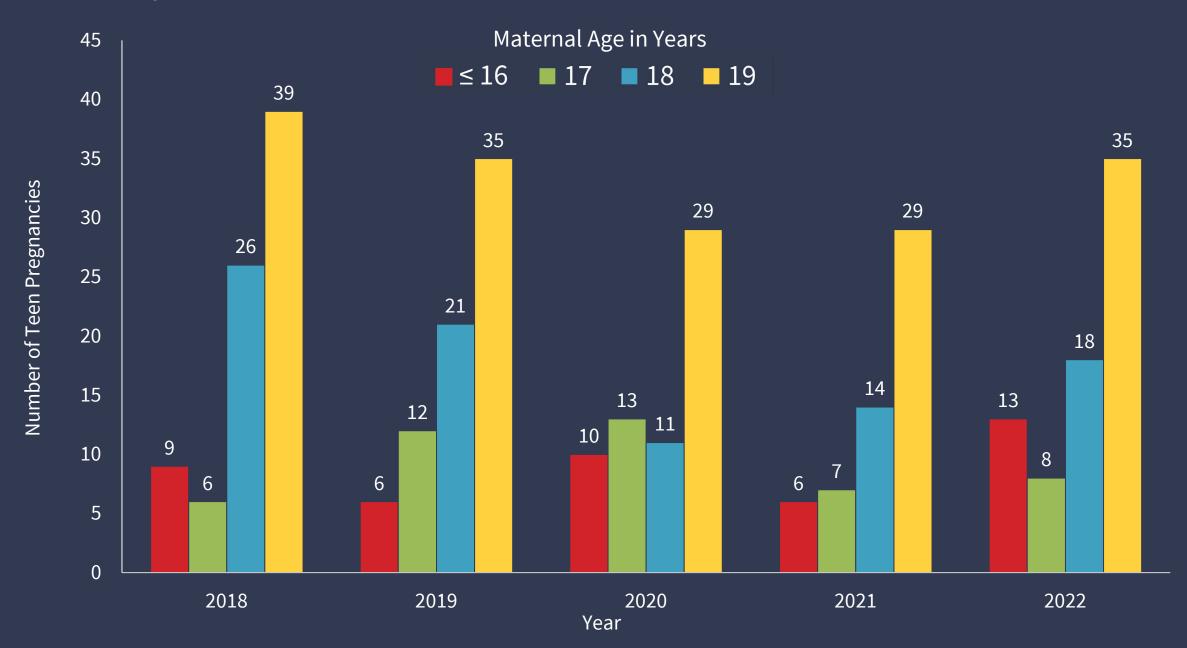
Alexandria's Teen Pregnancy Rate and Teen Birth Rate (2010-2022)



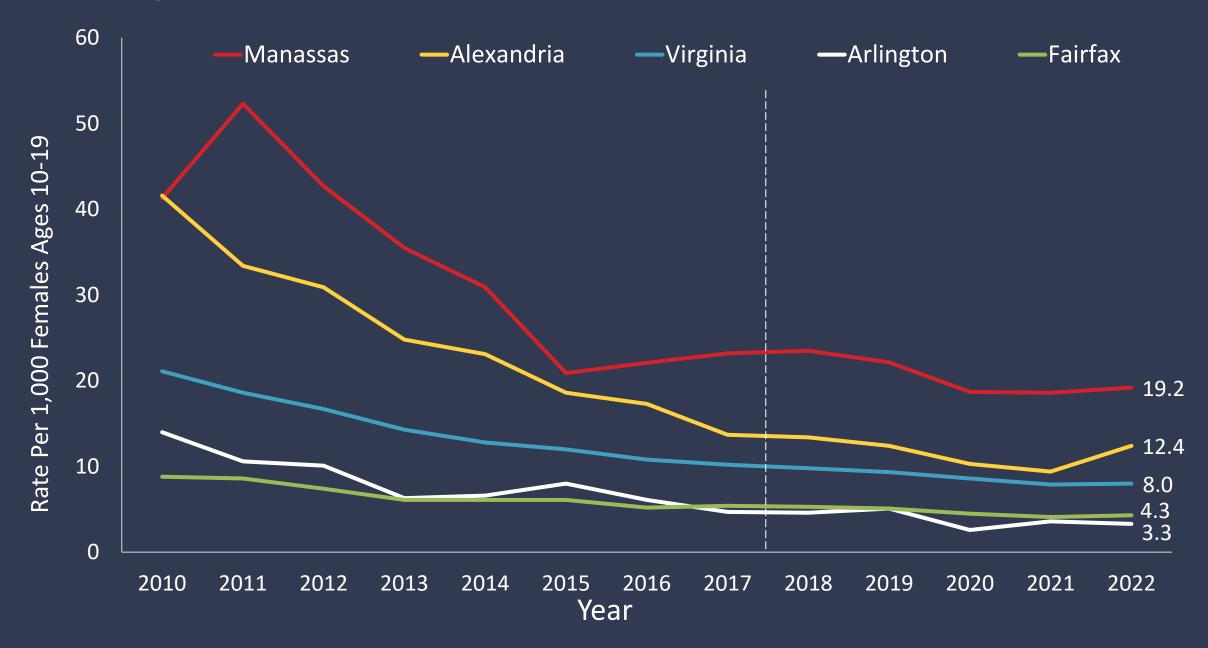
Alexandria Teen Pregnancy by Maternal Age (2018-2022)



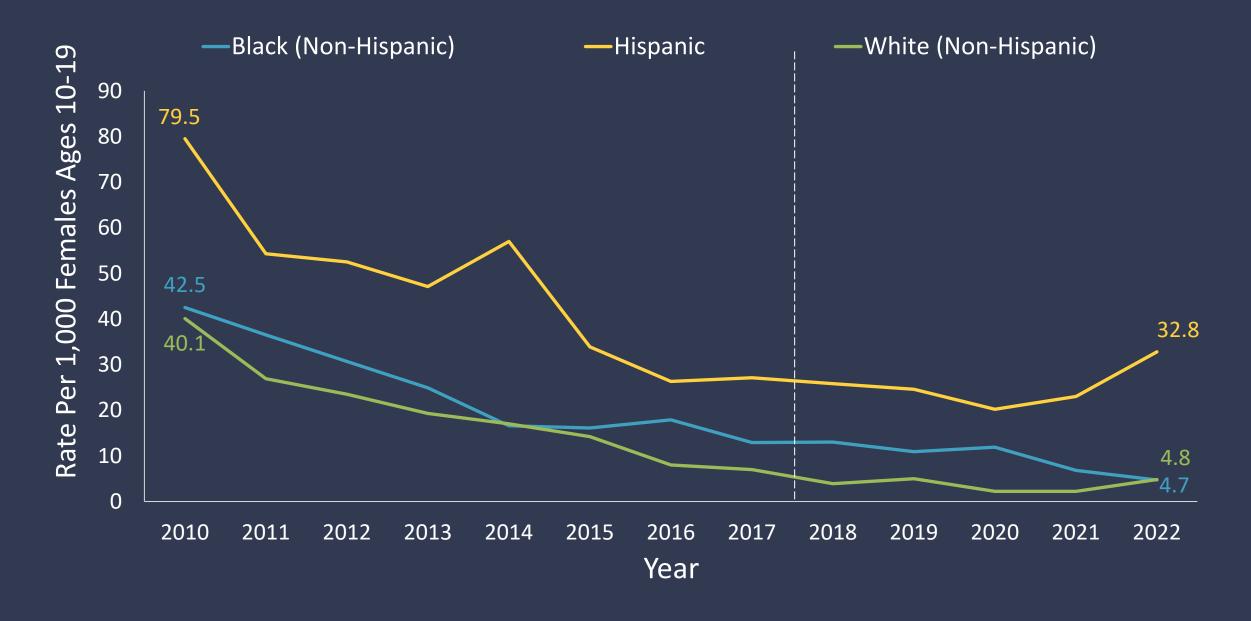
Alexandria Teen Pregnancy by Maternal Age (2018-2022)



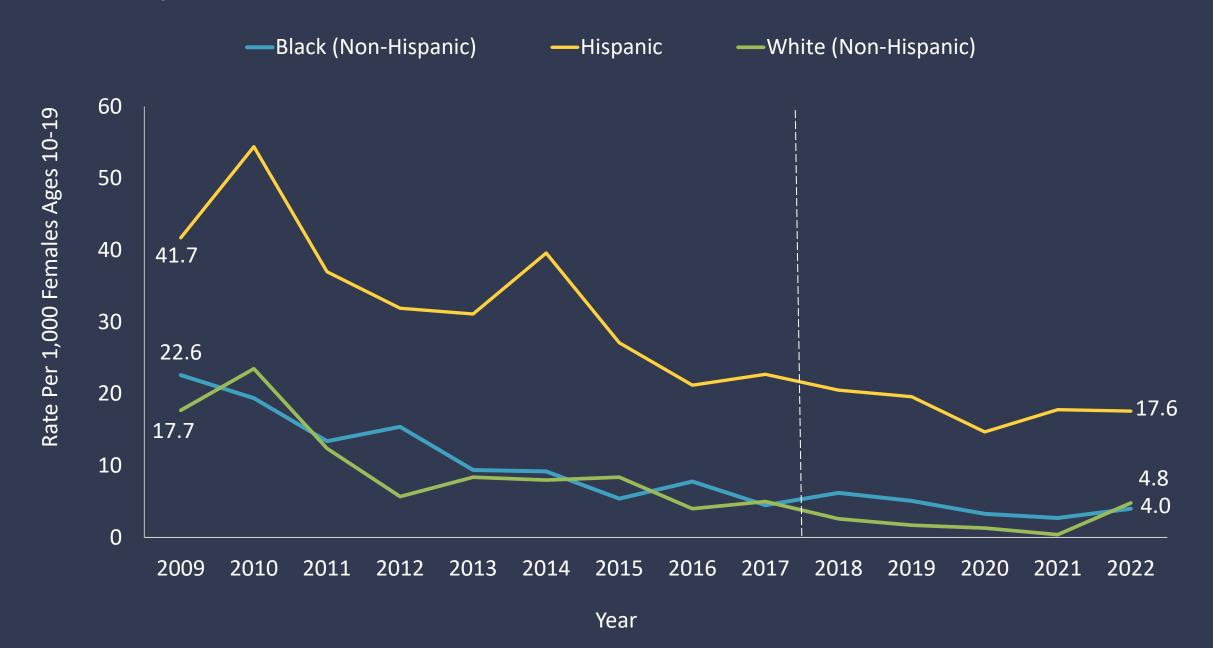
Alexandria's TPR Remains Higher than Virginia's TPR



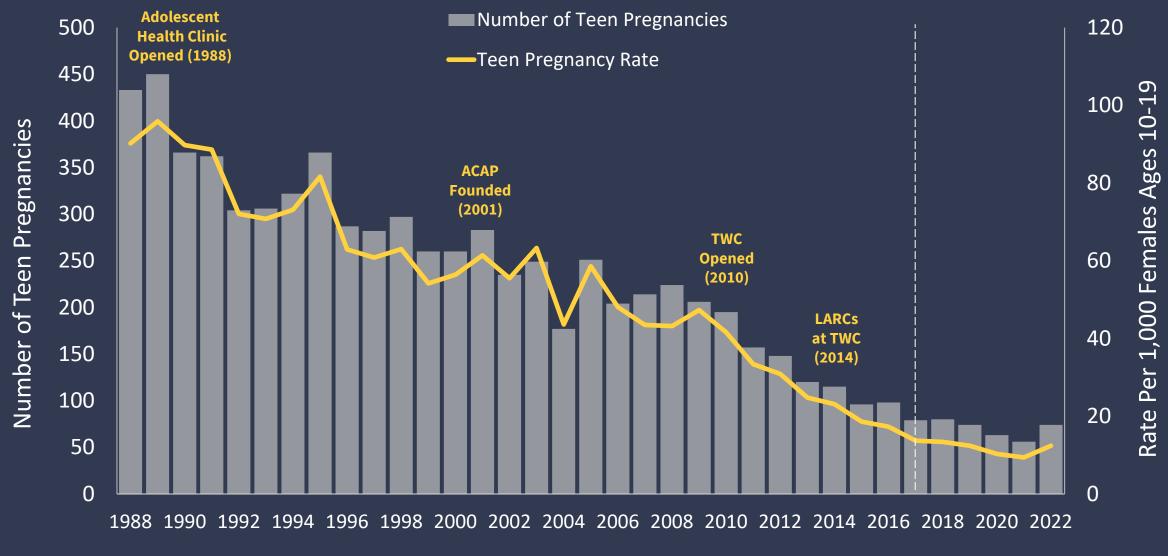
Alexandria's TPR by Race & Hispanic Ethnicity (2010-2022)



Alexandria's TBR by Race & Hispanic Ethnicity (2010-2022)



Alexandria's TPR & Major Milestones (1988-2022)



Teen Wellness Center Data



TLC from the TWC

- Located at Alexandria City High School
 - King Street & Minnie Howard
- Confidential sexual & reproductive health services including:
 - Testing for HIV & STIs
 - Contraception (including LARCs!)
- Other services require parental consent







Alexandria's TPR and LARCs Provided at TWC (2014-2022)

Data Sources: Teen Wellness Center & Virginia Department of Health



Alexandria Youth Risk Behavior Survey (YRBS) Data



About the YRBS

- Who: ACPS students in grades 8, 10, & 12
- What: An anonymous, voluntary, self-report survey based on a nationwide survey developed by the Centers for Disease Control and Prevention
- Where: Online through Clever, ACPS' single-sign-on platform
- When: Every three years
- Why: Community leaders and organizations use YRBS data to plan, develop, and evaluate policies and programs aimed at improving the health and wellbeing of Alexandria's youth.

Youth Voices Matter





YRBS Methodology





- Highly incomplete survey responses are removed from the dataset
- Weighting
 - Data is weighted based on ACPS' enrollment data



- Tells us if the observed difference due to chance alone
- Indicated with asterisks
- Statistical Significance ≠ Public Health Significance



Suppression

- Responses with only 1, 2, 3, or 4 students are hidden
- Indicated with an "x"





All Survey Data has Limitations

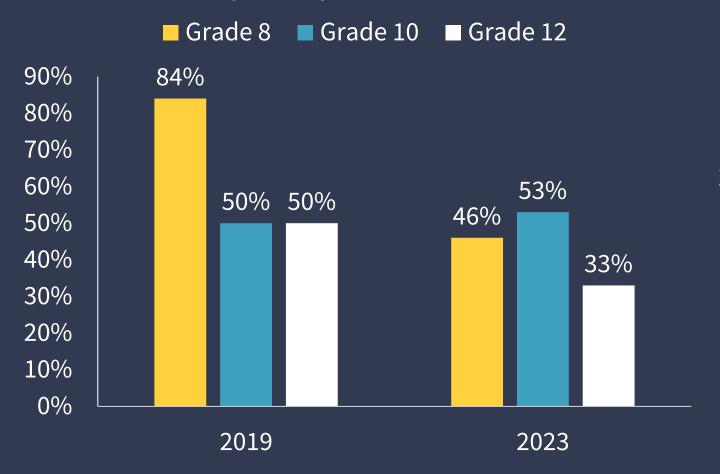
- Non-response bias
 - Unable to capture underlying differences between students who choose to complete the YRBS and those who opt-out
- Response bias
 - Accuracy of responses





Who took the YRBS in 2019 & 2023?

YRBS Completion by Grade Level (2019 & 2023)



Response rates for eight graders & twelfth graders were notably lower in 2023 with less than half of eight graders and only one third of twelfth graders completing the survey

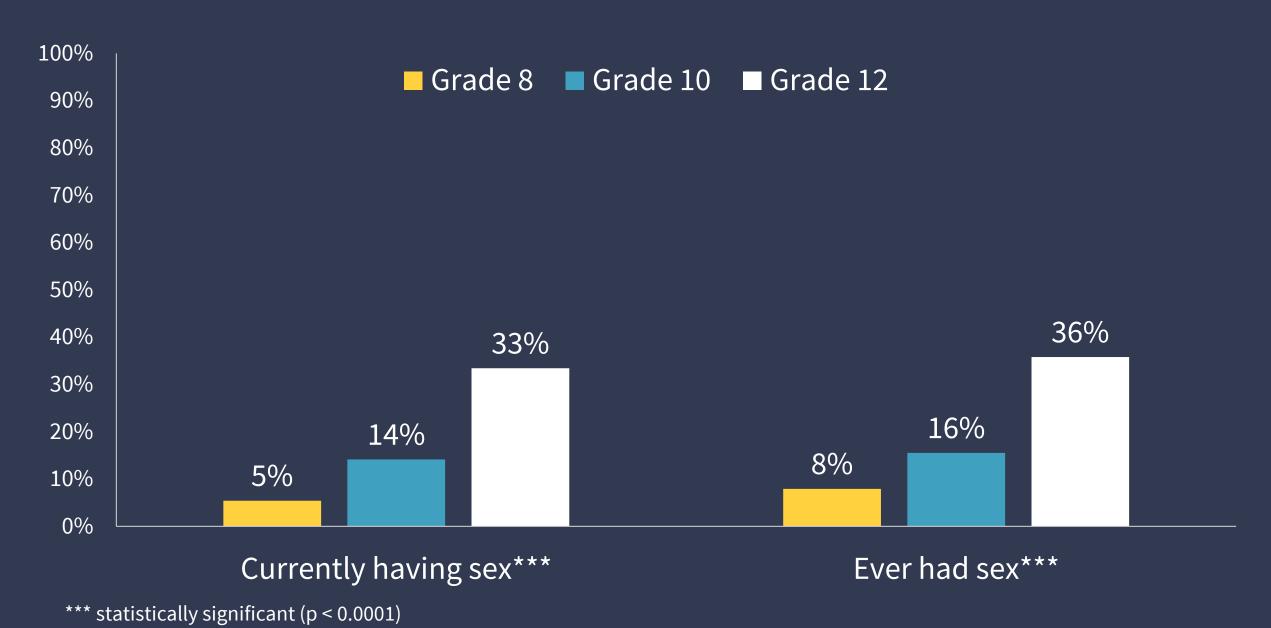


Trends in Sexual Behavior (2011-2023)

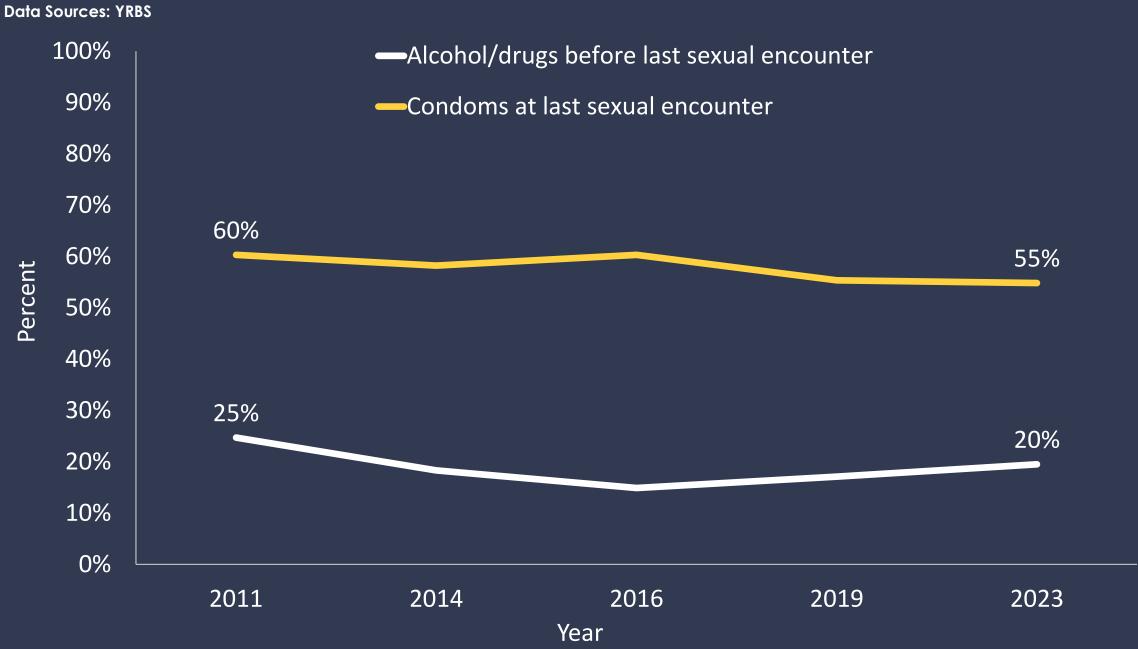
Data Sources: YRBS

100% •Currently having sex (10&12) **—**Ever had sex (10&12) 90% —Had sex prior to age 13 (10&12) 80% - Currently having sex (8) 70% - Ever had sex (8) 60% 50% 50% • Percent 40% 35% 30% 25% 23% 20% 17% 10% 10% 0% 2011 2013 2014 2016 2019 2023 Year

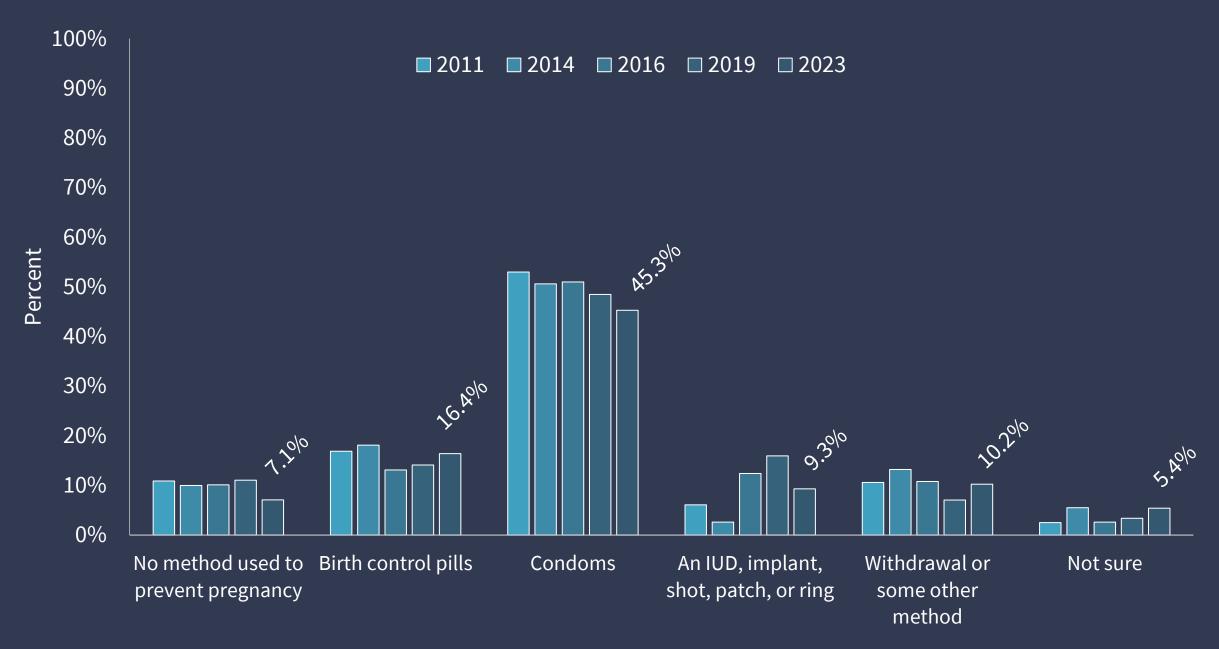
Sexual Behavior by Grade (2023)



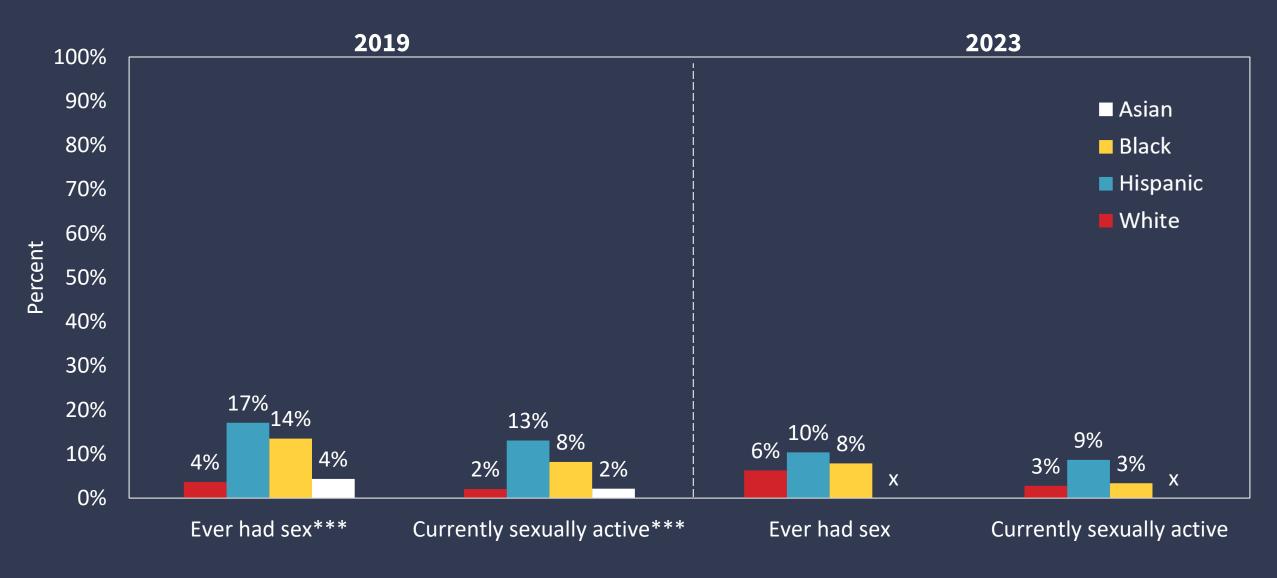
Grades 10 & 12: Safety & Sexual Behavior (2011-2023)



Grades 10 & 12: Method Used at Last Sexual Encounter to Prevent Pregnancy (2011-2023)



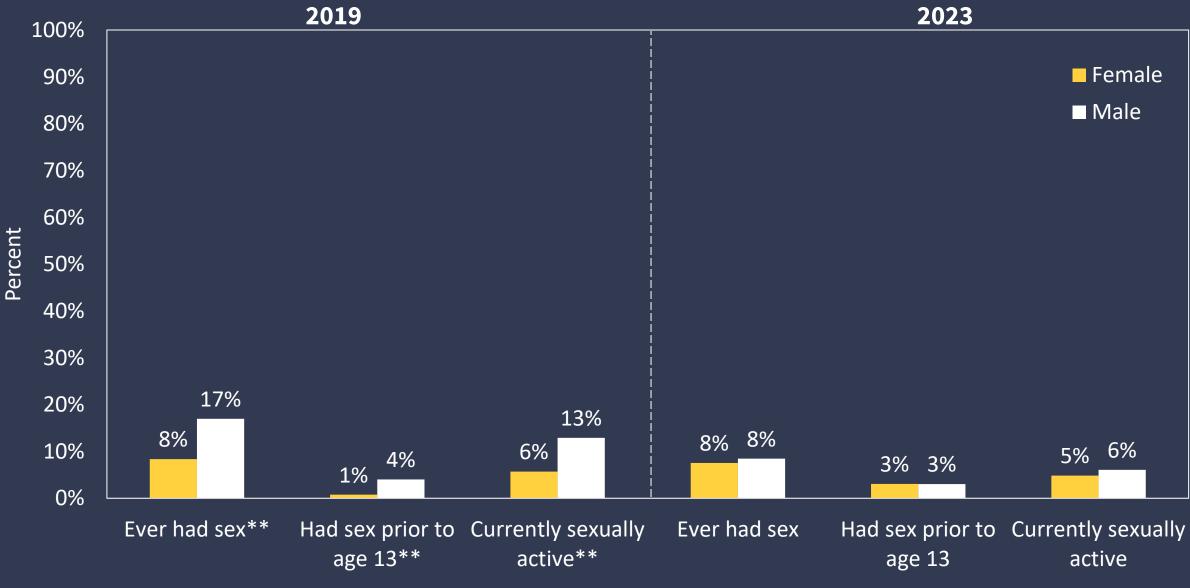
Grade 8: Sexual Activity by Race & Ethnicity (2019 & 2023)



^{***} statistically significant (p ≤ 0.0001)

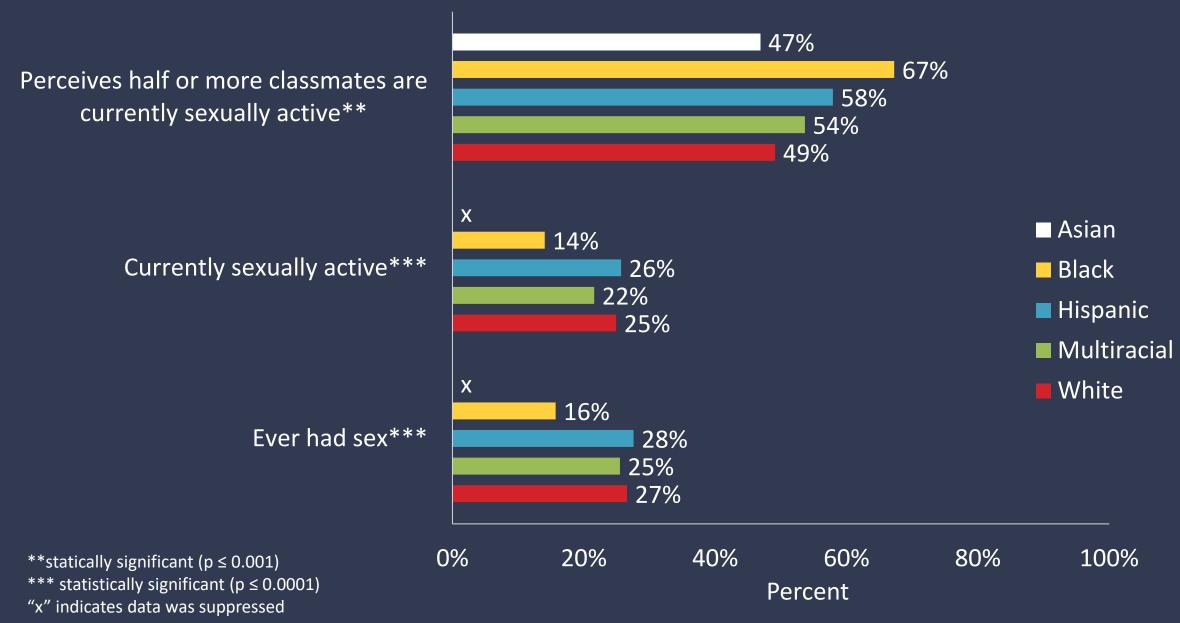
[&]quot;x" indicates data was suppressed

Grade 8: Sexual Activity by Sex at Birth (2019 & 2023)

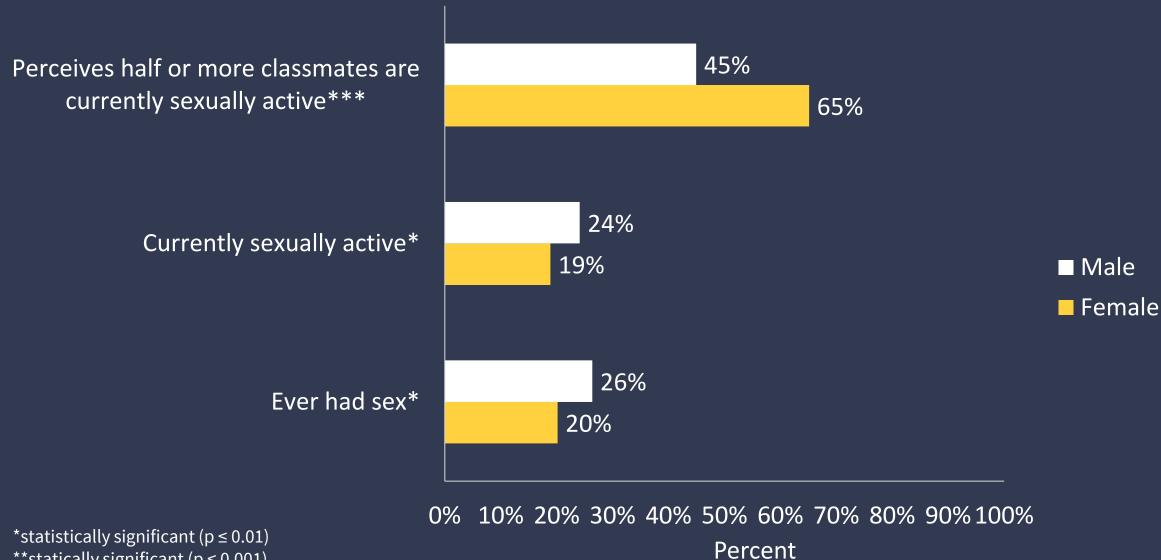


^{**}statically significant (p ≤ 0.001)

Grades 10 & 12: Sexual Activity by Race & Ethnicity: Perception vs. Reality (2023)



Grades 10 & 12: Sexual Activity by Sex at Birth: Perception vs. Reality (2023)



^{**}statically significant (p ≤ 0.001)

^{***} statistically significant (p ≤ 0.0001)

Key Takeaways



Key Takeaways from VDH's Data

- Alexandria's TPR increased by over 30% from 2021 to 2022
- Disparities by race *decreased* from 2020 to 2022
- Disparities by Hispanic ethnicity *increased* from 2020 to 2022



Key Takeaways from the YRBS

- A *higher* percentage of high school students reported having sex prior to age 13 in 2023 compared to 2016
- The percentage of students who reported ever having sex and currently having sex increased from 2016 to 2019 then decreased from 2019 to 2023
- Perception ≠ Reality
 - Perception: More than half of classmates are currently having sex.
 - Reality: 23% of 10th & 12th graders reported currently having sex.



Data Sources & Acknowledgements

Data Sources:

- Adolescent pregnancy data & rates were provided by the VDH, Division of Health Statistics on November 28, 2023
- TWC data was obtained from clinical administrative records on December 5, 2023
- YRBS data was obtained from the 2019–2023 report, published on December 15, 2023. The full report and data tables are available here.

Acknowledgements:

- Evelyn Jones, MPH
- Lauren Romero, RN, MPH
- YRBS Partners:
 - Alexandria City Public Schools (ACPS)
 - Alexandria Department of Community and Human Services (DCHS)
 - Substance Abuse Prevention Coalition of Alexandria (SAPCA)







