Department of Health

Ohio Youth Surveys

Jon Kraus, MPH

Ohio Department of Health

Bureau of Maternal, Child, & Family Health

Department of Health

Agenda

- Overview of the Ohio Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS).
- Accessing YRBS/YTS Results.
- Results from the 2023 YRBS/YTS.
- Question and Answer.

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Overview of the YRBS/YTS

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About the YRBS/YTS

- Administered by Ohio Department of Health through a cooperative agreement with the Centers for Disease Control and Prevention (CDC).
- Ohio has participated since 1993.
- Part of the nationwide Youth Risk Behavior Surveillance System (YRBSS).
- Collected in the fall of odd-numbered years.
- Began electronic administration in 2021.
- Parental consent is required for participation.
- YRBS/YTS participation is optional for schools and students.

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About the YRBS/YTS

- **Only reliable source of representative state-level, health behavior data for the teen population in Ohio.**

- In 2019, combined Ohio Youth Risk Behavior Survey (YRBS) And Ohio Youth Tobacco Survey (YTS).

- Sampling for Ohio:
  - CDC randomly selects around 88 public schools in Ohio.
  - ODH receives sample and contacts schools requesting their participation.
  - About 44 middle schools and ~44 high schools.
  - Using CDC guidelines, ODH randomly selects one to four classrooms to participate.

Department of Health
Ohio Youth Surveys

YRBS/YTS
Ohio Youth Risk Behavior Survey/
Youth Tobacco Survey

YRBS/YTS Sampling and Data Collection/Analysis

- Sample Selection:
  - Includes all regular public middle schools and high schools in Ohio.
  - Excludes: alternative, special education, schools operated by the US Department of Disabilities, schools with ≤40 students.
  - YRBSS surveys students in grades 9–12 in all U.S. states, DC, and a national survey.
  - Schools agree to participate and provide a list of classrooms, then classrooms are randomly selected (One to four per school, depending on size).

YRBS/YTS Sampling and Data Collection/Analysis

- To protect participant privacy and meet CDC standards, data is collected and reported only at the state level.

- CDC completes non-response bias analysis on the collected data to determine if the results can be generalizable to the entire state.
  - Analysis to ensure that non-responding schools do not differ from responding schools in a way that might bias the data.

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Questionnaire

- Separate high school and middle school surveys.

- Must meet specific CDC questionnaire guidelines.
  - Ninety-nine question maximum.
  - No more than seven response options.
  - Only one answer allowed per question.

- Before each administration year, a Questionnaire Development Workgroup meets to develop questionnaire.
  - Must then be submitted to CDC for their review.

- Examples of some topics covered on the YRBS/YTS are:
    - Physical Activity.
    - Drug/Alcohol Use.
    - Adverse Childhood Experiences.
    - Mental Health/Suicide.
    - Sexual Activity (high school only).

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YRBS/YTS	OHYES!
Centers for Disease Control Initiative.	Ohio Initiative.
Administered by Ohio Department of Health.	Administered by Ohio Department of Behavioral Health.
Representative statewide sample.	Local sample/census.
Randomly selected schools and classrooms. ~CDC randomly selects roughly 88 Ohio public schools each administration period.	All Ohio schools eligible. School Flexibility: Version, grades, classrooms.
Administered every two years (fall in ODD years).	Recruit every two years (fall in EVEN years). Available annually upon request.
State-wide results.	**Local results**. (All-OHYES, County, Board, District, School).
	About ½ items same as YRBS to allow state and national comparison.

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Accessing YRBS/YTS Data

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Accessing Results

cdc.gov/healthyyouth/data/yrbs/

1. **Youth Online Data Analysis Tool**
   YouthOnline.cdc.gov
2. **YRBS Explorer**
   yrbs-explorer.services.cdc.gov/#/
3. **YRBS Analysis Tool**
   yrbs-analysis.cdc.gov/

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Accessing Results

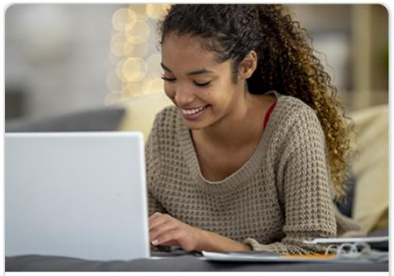
youthsurveys.ohio.gov – Reports and Insights Tab

Reports & Insights

The information found in these reports is the crucial output of what we do. Our goal is to elevate student voices, uncover their needs, and empower schools, families, and communities to better support them. By exploring this data, we can build an Ohio where every student can reach their full potential.

Before digging into the reports below, we recommend reviewing our guide to Interpreting and Using Data.

Featured in this section



OHYES! Reports

Gain insight into student wellness on a local level by reviewing OHYES! county, regional, and statewide reports.

YRBS/YTS Reports

View YRBS/YTS reports to uncover statewide trends in student wellness and compare local data to representative Ohio data.

School Health Profiles Survey Reports

Use Profiles reports to identify trends and gaps in Ohio's health education practices and how they've changed over time.

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How YRBS/YTS Data is Used

- The YRBS/YTS gives students an opportunity to share their voice, anonymously and voluntarily.
- Participation brings students' experiences to light so parents, districts, and schools can provide the appropriate resources for the challenges students may face.
- State organizations and school districts use YRBS/YTS data to set and track progress toward meeting school health and health promotion program goals, support modification of school health curricula or other programs, support public policies that promote health, and seek funding and other support for new initiatives.
- YRBS/YTS helps state and local agencies, school districts, and other organizations understand the behaviors that contribute to morbidity and mortality of Ohio middle school and high school students.
- Research and data analysis. Many universities, programs, state agencies, and students use YRBS/YTS data to inform research.
    - Example: ODH recently received a request for YRBS/YTS data from a graduate student conducting a study on the effects of school policy changes on student mental health and well-being.

Results from the 2023 YRBS/YTS

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Adverse Childhood Experiences (ACEs)

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ACEs

- There are 16 questions on the Ohio YRBS/YTS questionnaire that ask about ACEs.

- ACEs are potentially traumatic events that occur in childhood (0-17 years) such as neglect, experiencing or witnessing violence, and having a family member attempt or die by suicide.

- According to the CDC, adults who with four or more ACEs have a much higher prevalence of health risks such as alcoholism, drug use, depression, and suicide attempts.

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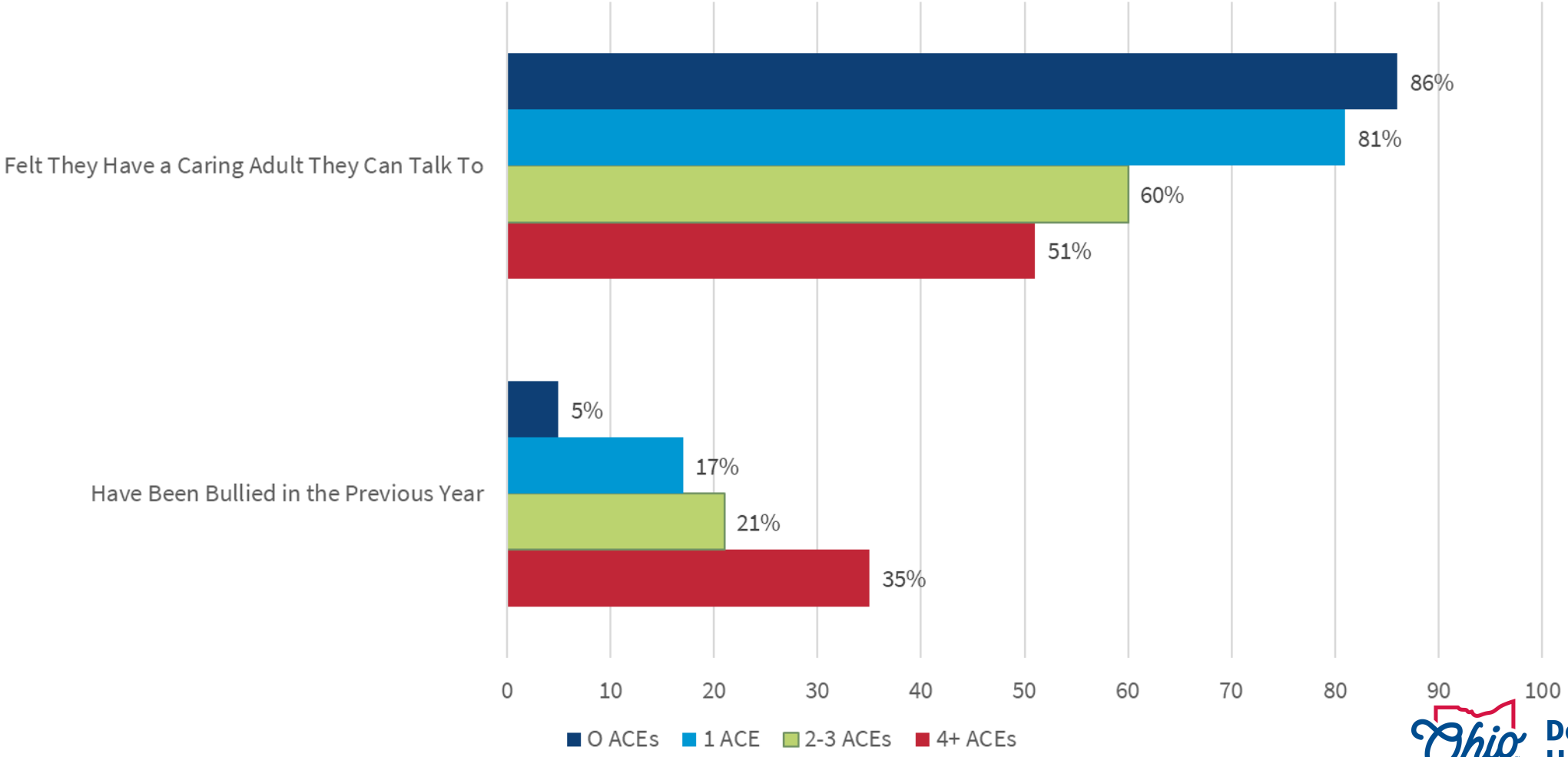
ACEs

Ohio high school students who have experienced **4 or more ACES** have lower rates of having a caring adult in their life, while having higher rates of being bullied on school property than those who have experienced fewer ACEs in the previous year.



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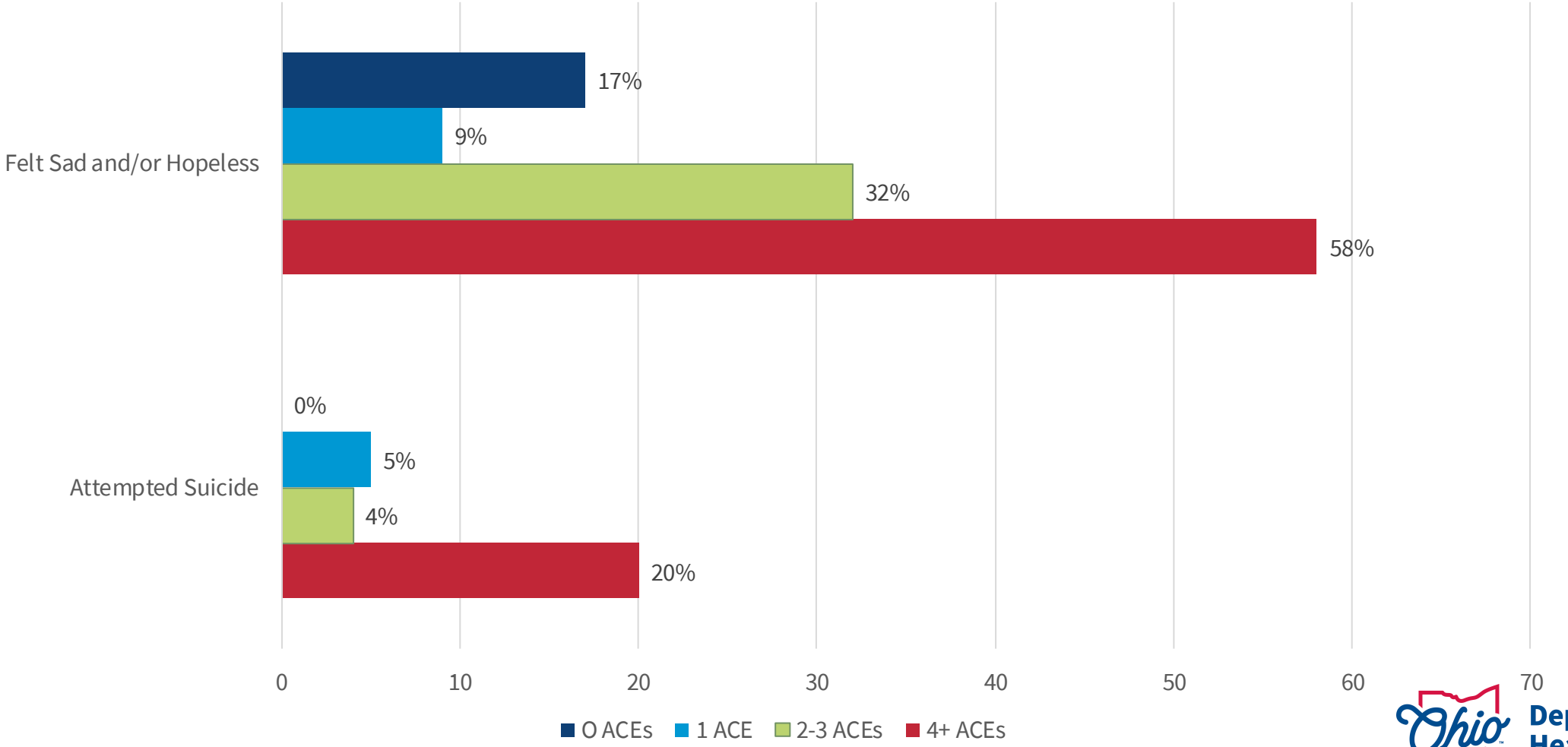
ACEs

Ohio high school students who have experienced **4 or more ACES** have higher rates of attempting suicide and feeling sad and/or hopeless than those who have experienced fewer ACEs in the previous year.



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Mental Health and Suicide

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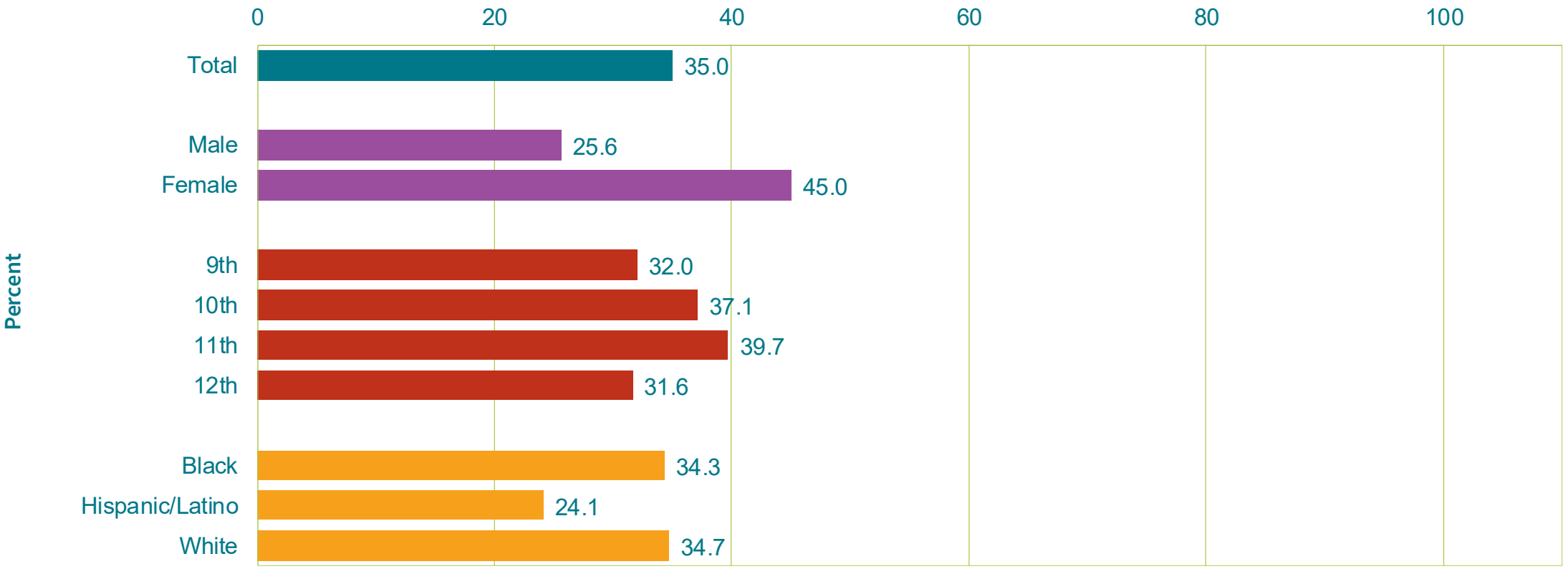
YRBS/YTS: Percentage of High School Students Who Felt Sad or Hopeless,* by Sex,† Grade, and Race/Ethnicity, 2023



*Almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey

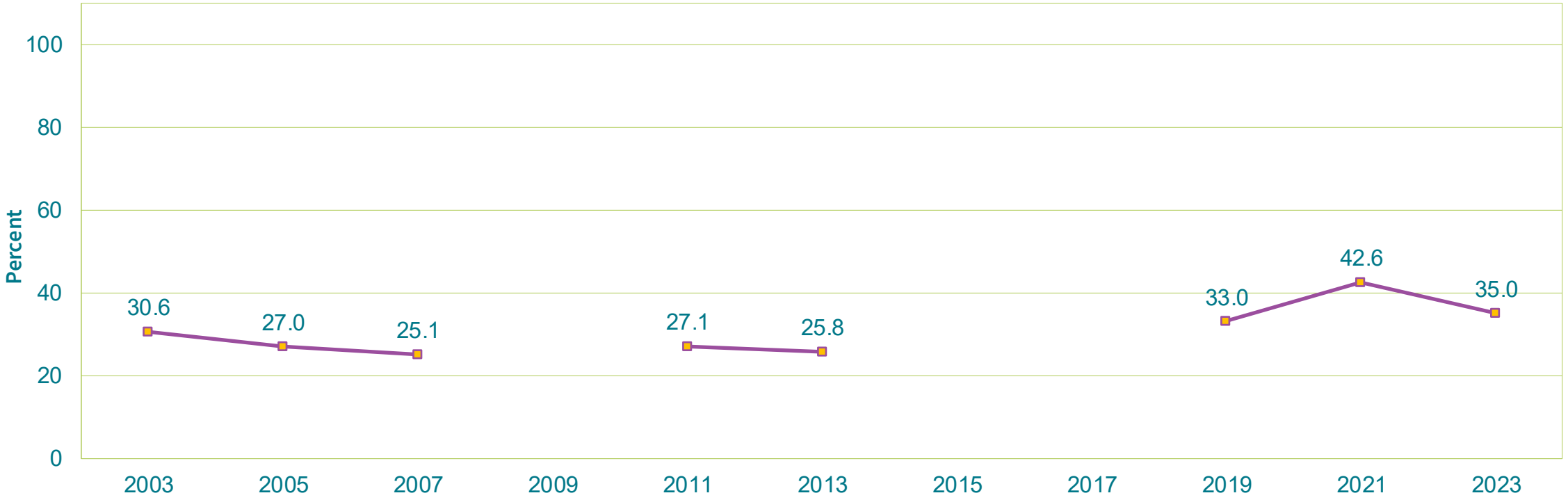
†F > M (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Department of Health

YRBS/YTS: Percentage of High School Students Who Felt Sad or Hopeless,* 2003-2023†



*Almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey

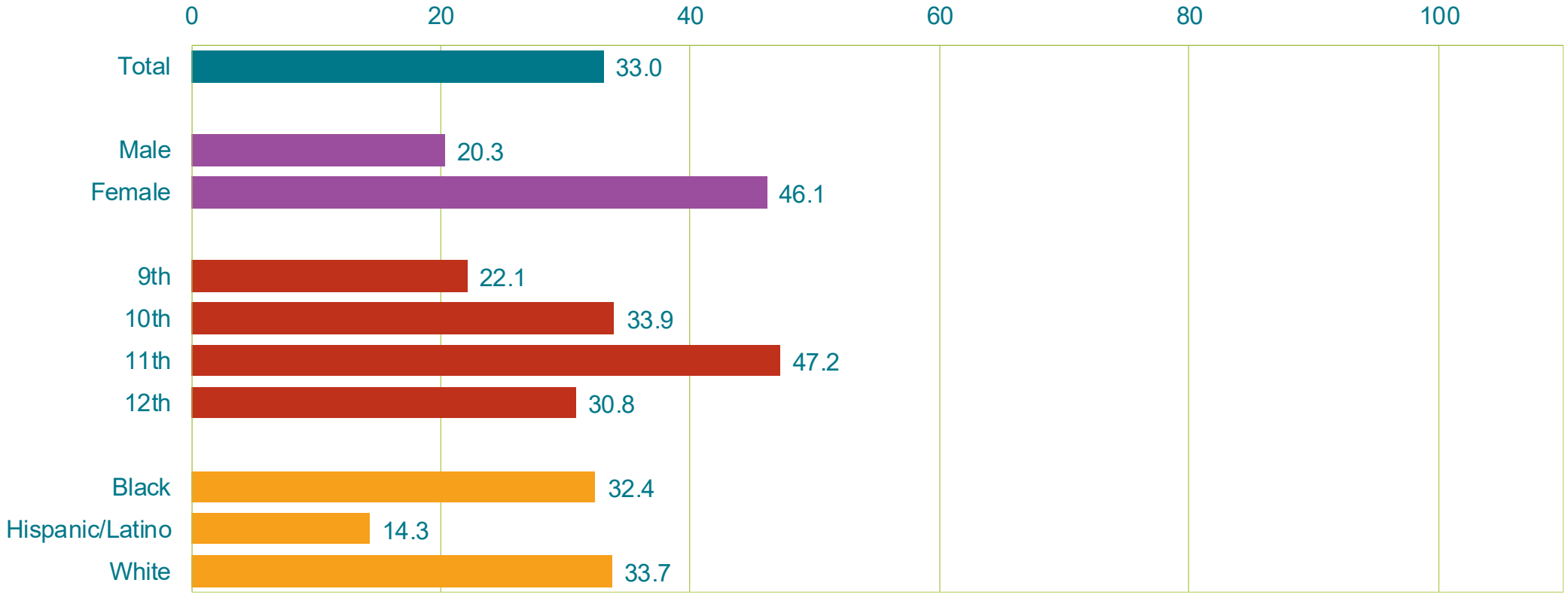
†Increased 2003-2023, no change 2003-2011, increased 2011-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2009, 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

YRBS/YTS: Percentage of High School Students Who Reported That Their Mental Health Was Most of the Time or Always Not Good,* by Sex,† Grade,† and Race/Ethnicity,† 2023



*Including stress, anxiety, and depression, during the 30 days before the survey
†F > M; 10th > 9th, 11th > 9th; W > H (Based on t-test analysis, $p < 0.05$.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
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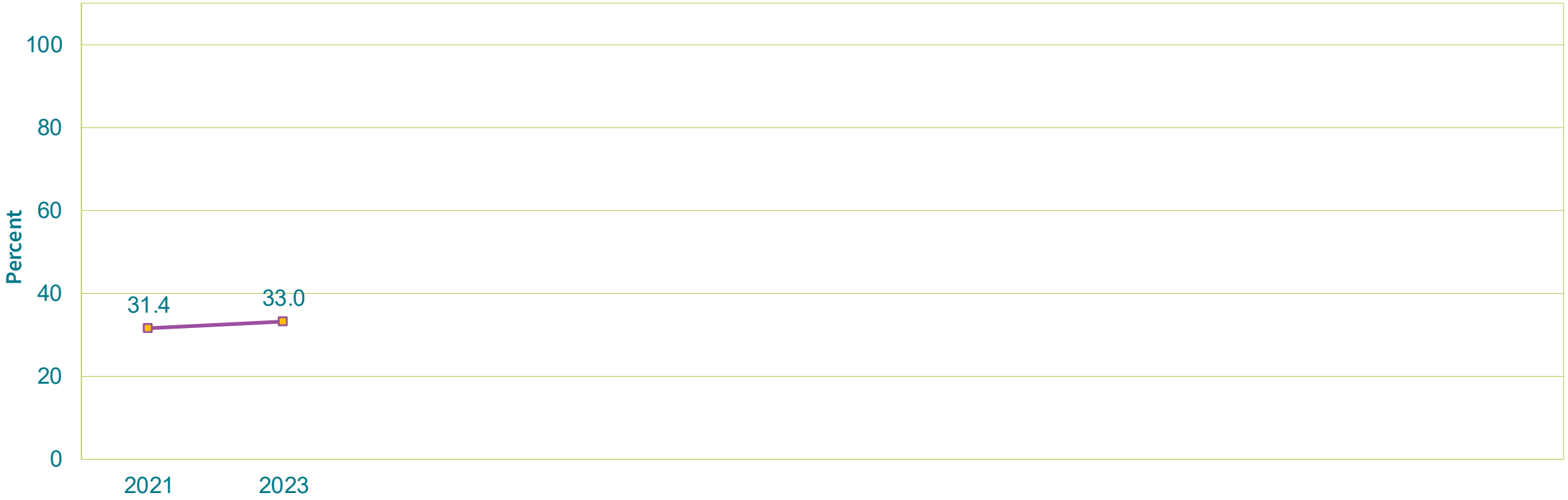
Ohio Department of Health

YRBS/YTS: Percentage of High School Students Who Reported That Their Mental Health Was Most of the Time or Always Not Good,* 2021-2023†



*Including stress, anxiety, and depression, during the 30 days before the survey

†No change 2021-2023 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]

This graph contains weighted results.

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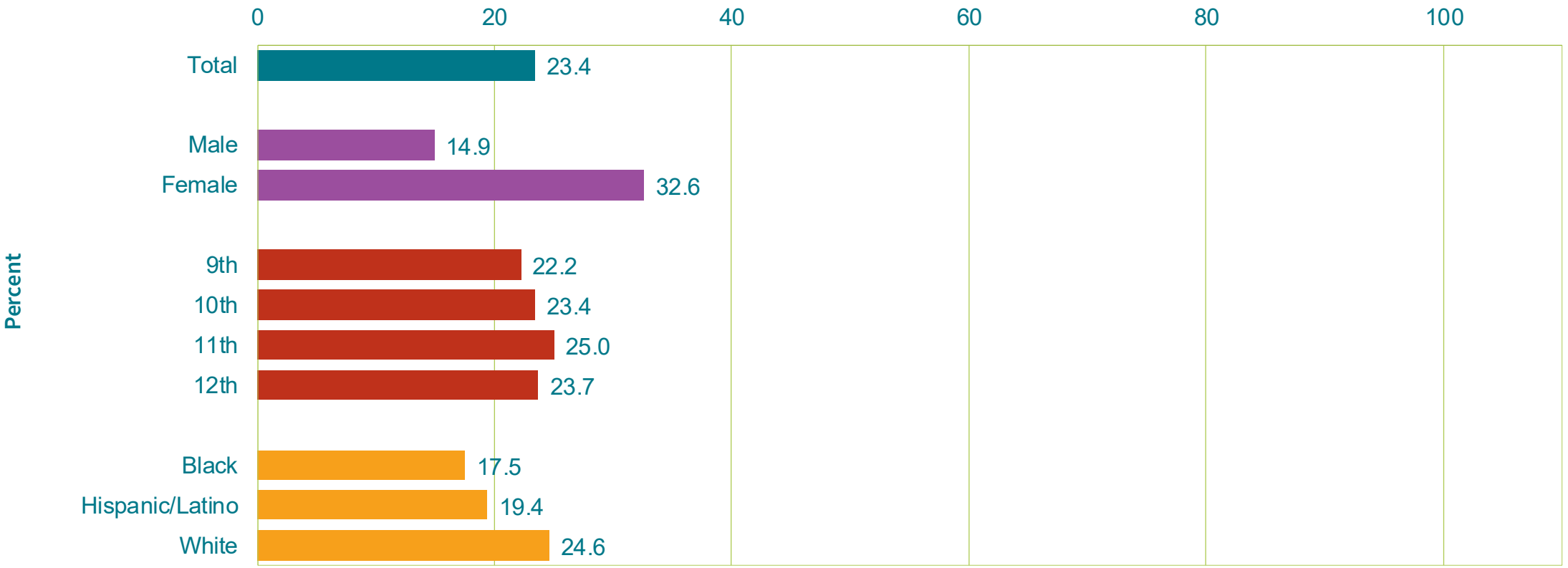
YRBS/YTS: Percentage of High School Students Who Did Something to Purposely Hurt Themselves Without Wanting to Die,* by Sex,† Grade, and Race/Ethnicity, 2023



*Such as cutting or burning themselves on purpose one or more times during the 12 months before the survey

†F > M (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

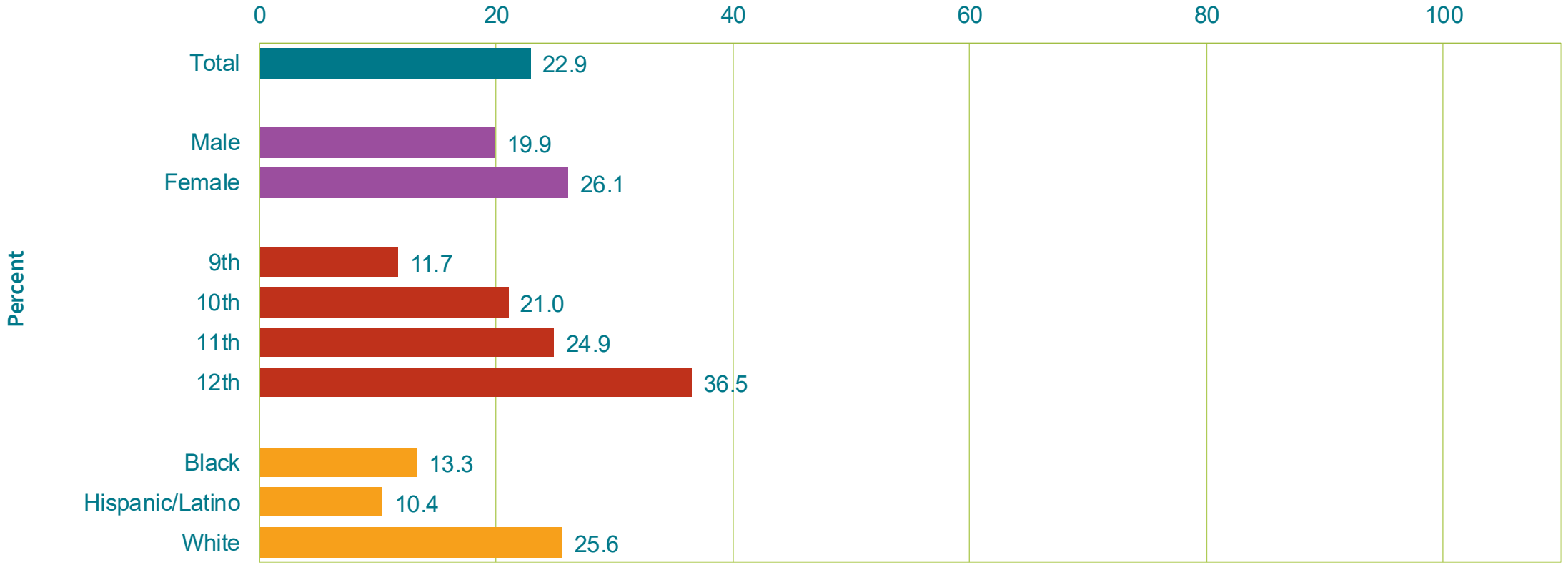
This graph contains weighted results.

Ohio Department of Health

Substance Use

Ohio Department of Health

Percentage of High School Students Who Currently Drank Alcohol,* by Sex,† Grade,† and Race/Ethnicity,† 2023



***At least one drink of alcohol, on at least 1 day during the 30 days before the survey**

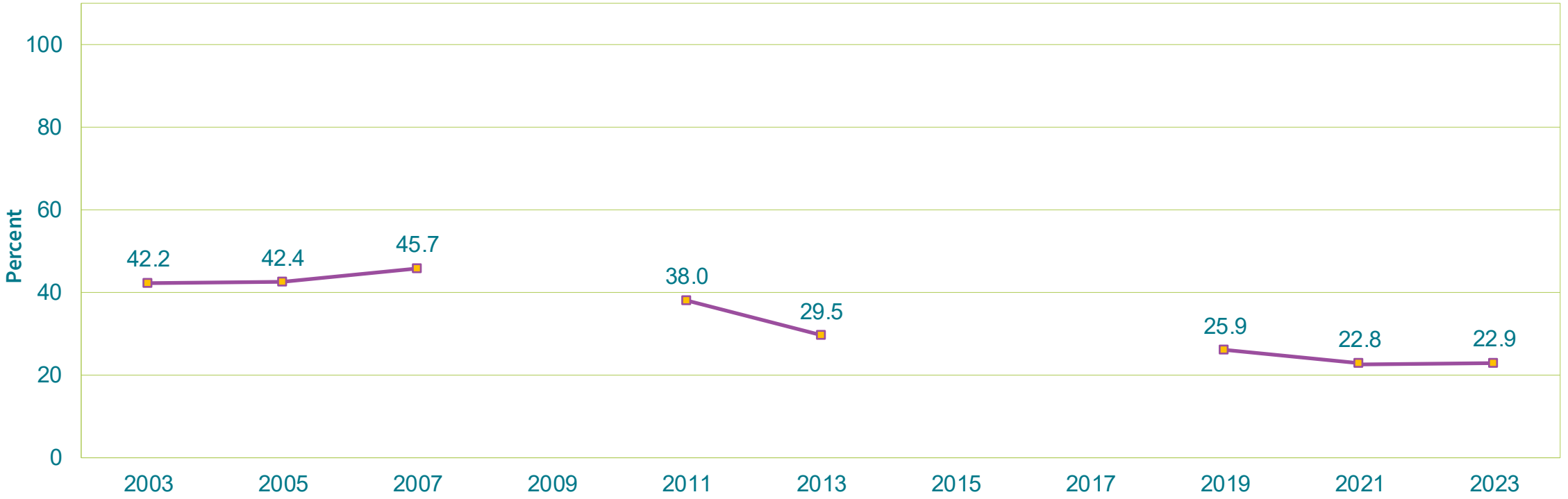
†F > M; 11th > 9th; W > H (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Currently Drank Alcohol,* 2003-2023†



***At least one drink of alcohol, on at least 1 day during the 30 days before the survey**

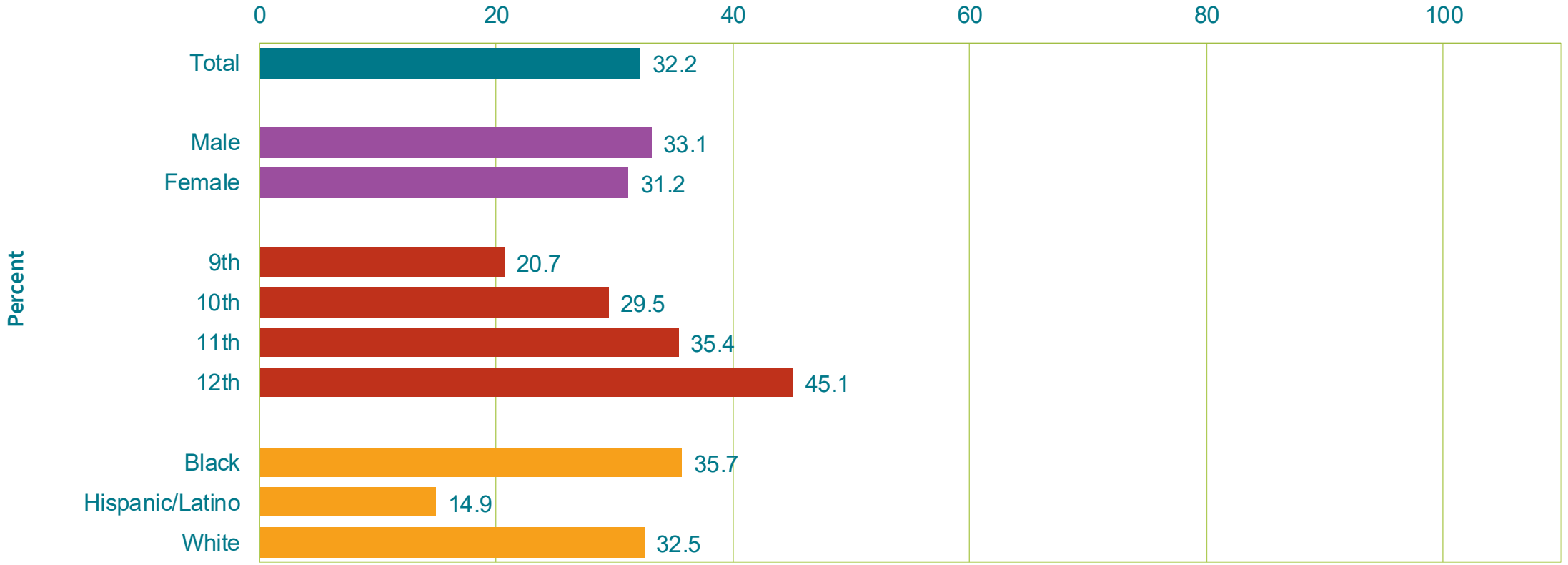
†Decreased 2003-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2009, 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

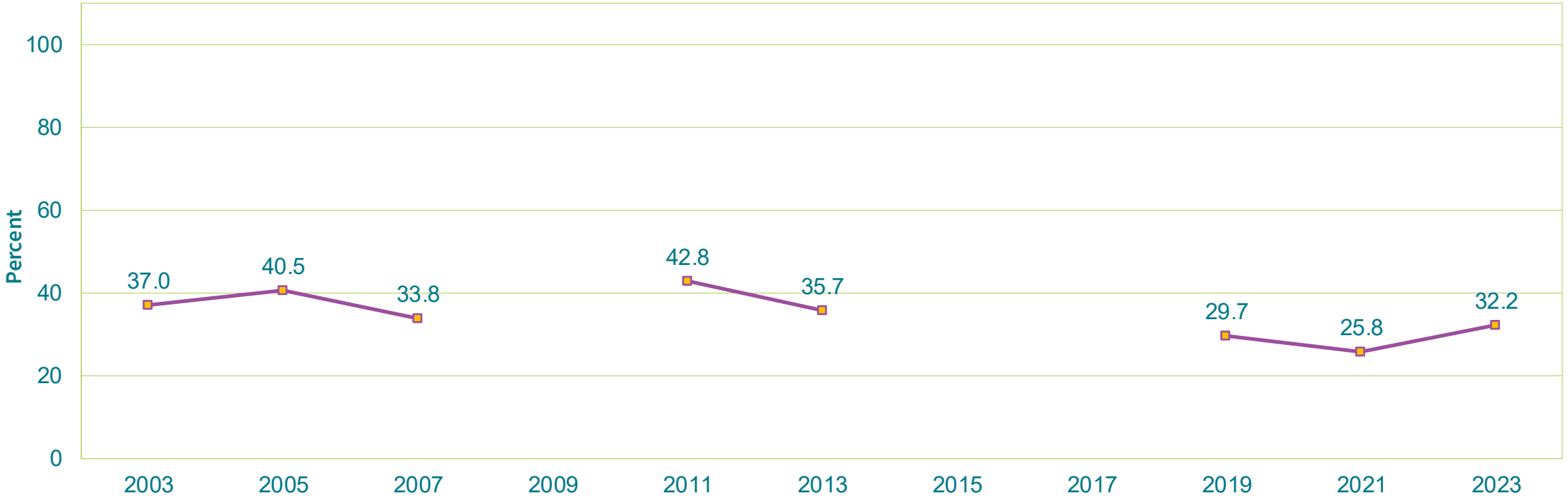
Percentage of High School Students Who Ever Used Marijuana,* by Sex, Grade,† and Race/Ethnicity,† 2023



*One or more times during their life
†11th > 9th, 12th > 9th; B > H, W > H (Based on t-test analysis, $p < 0.05$.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Ever Used Marijuana,* 2003-2023†



*One or more times during their life

†Decreased 2003-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2009, 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Saw Ads or Promotions for Cigarettes or Other Tobacco Products,* by Sex,† Grade, and Race/Ethnicity,† 2023

*One or more times, during the 30 days before the survey
†F > M; W > B, W > H (Based on t-test analysis, $p < 0.05$.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
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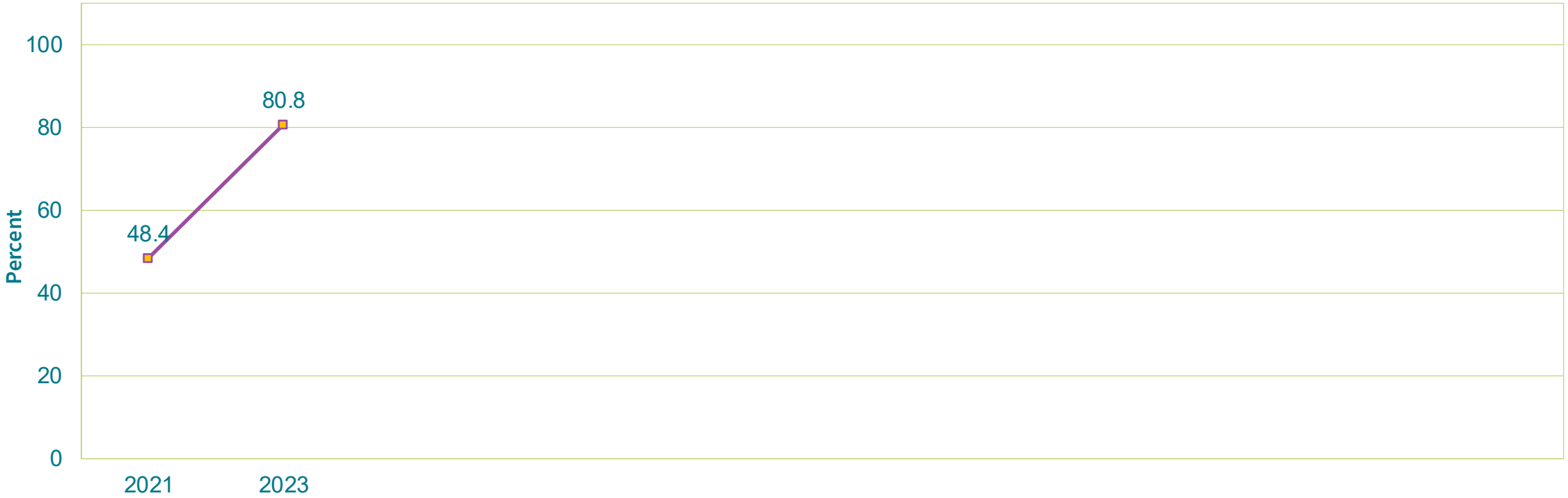
Ohio Department of Health

Percentage of High School Students Who Saw Ads or Promotions for Cigarettes or Other Tobacco Products,* 2021-2023†



*One or more times, during the 30 days before the survey
†Increased 2021-2023 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]
This graph contains weighted results.

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Safety and Violence

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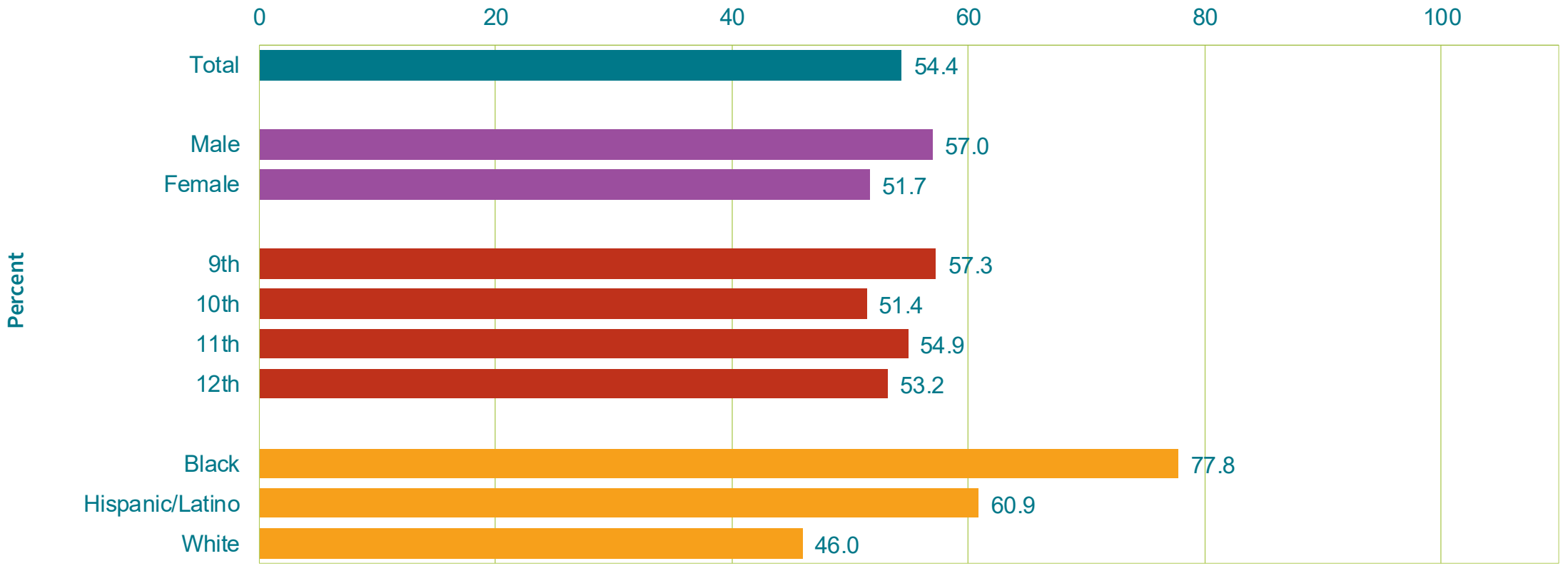
Percentage of High School Students Who Did Not Always Wear a Seat Belt,* by Sex, Grade, and Race/Ethnicity,† 2023



***When riding in a car driven by someone else**

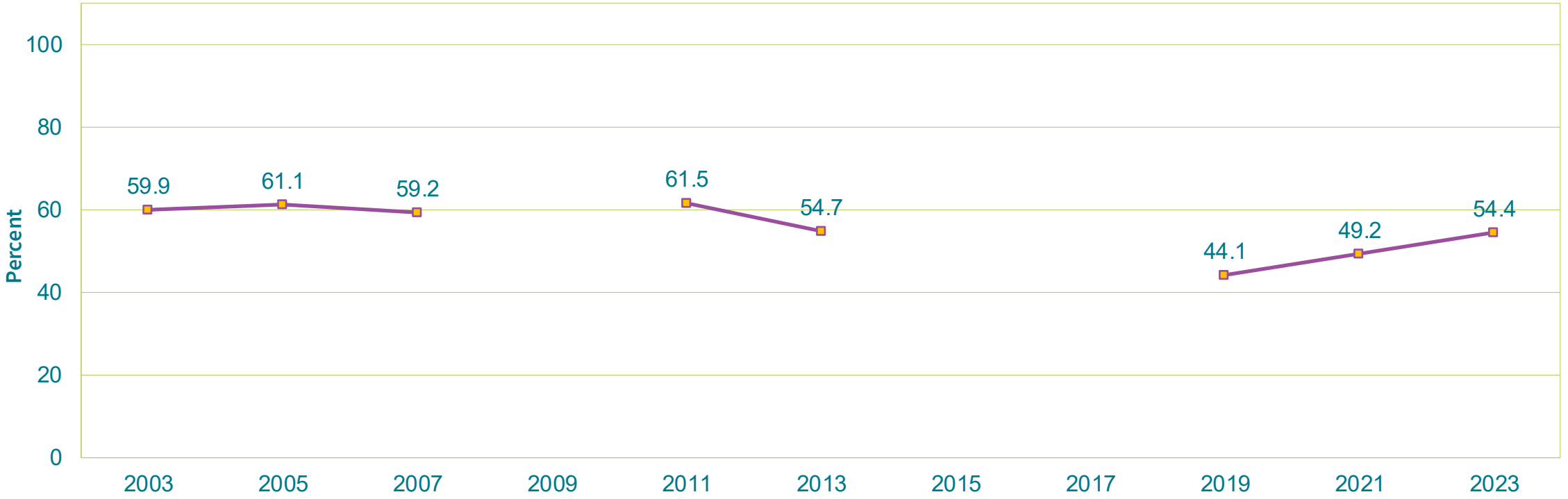
†B > H, B > W (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Did Not Always Wear a Seat Belt,* 2003-2023†



***When riding in a car driven by someone else**

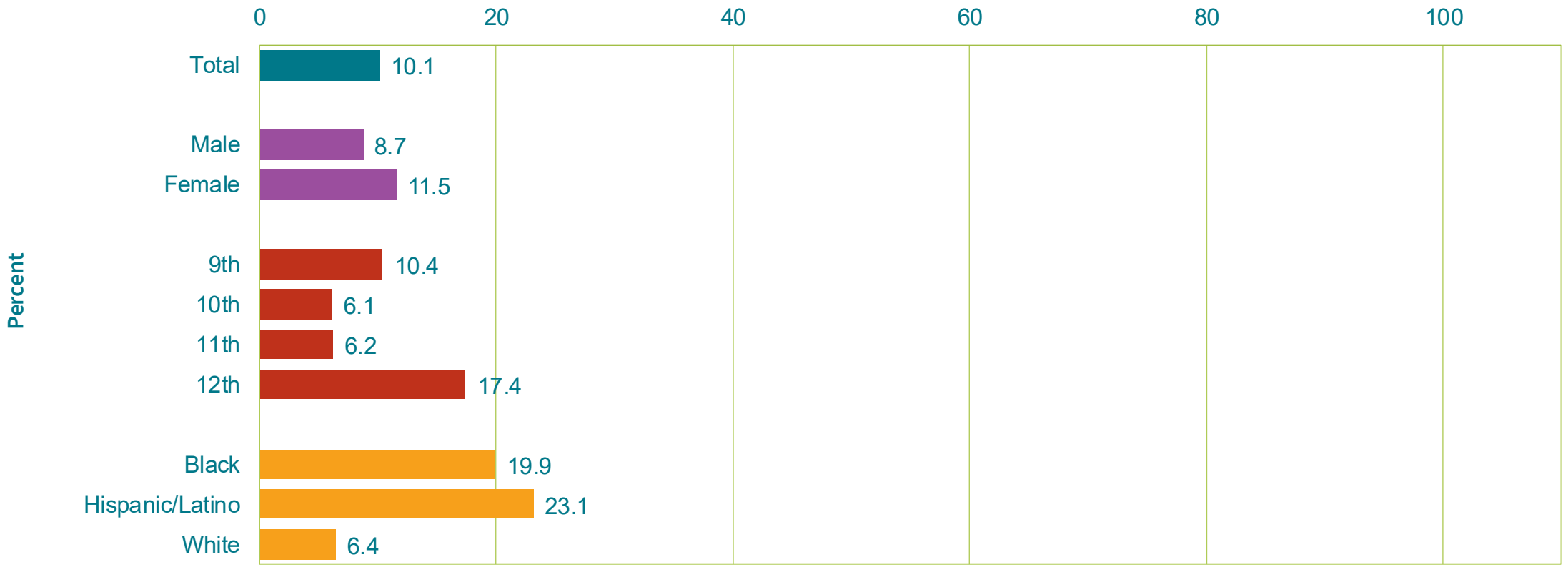
†Decreased 2003-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2009, 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Did Not Go to School Because They Felt Unsafe at School or on Their Way to or from School,* by Sex, Grade,† and Race/Ethnicity,† 2023



***On at least 1 day during the 30 days before the survey**

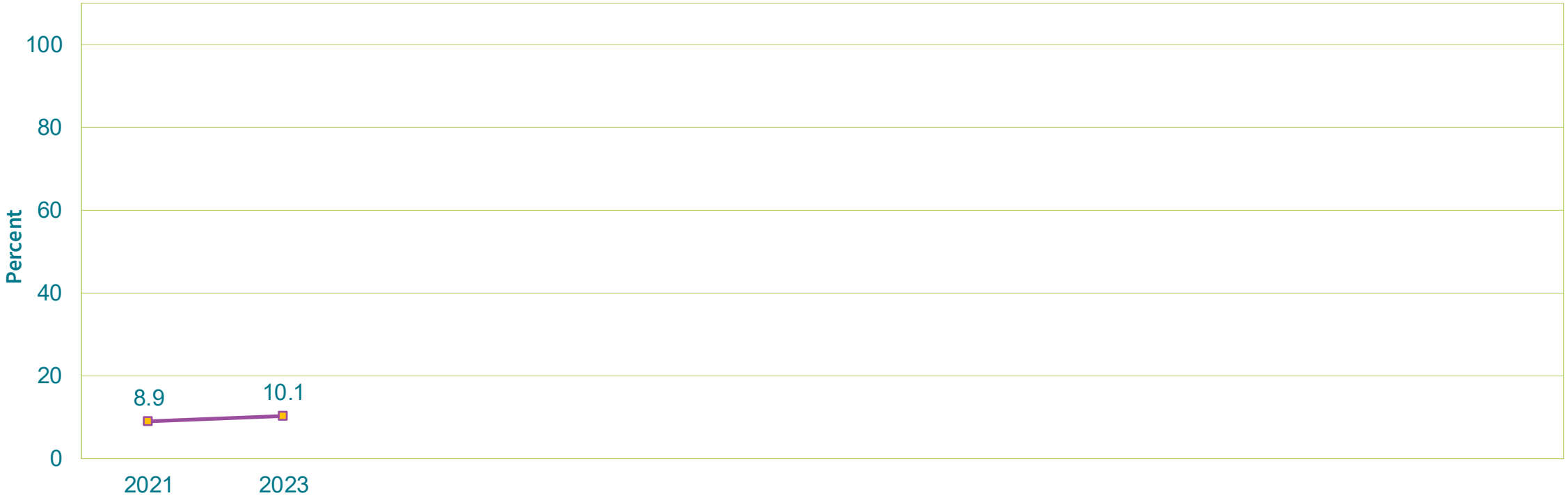
†12th > 10th, 12th > 11th; B > W, H > W (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Did Not Go to School Because They Felt Unsafe at School or on Their Way to or from School,* 2021-2023†



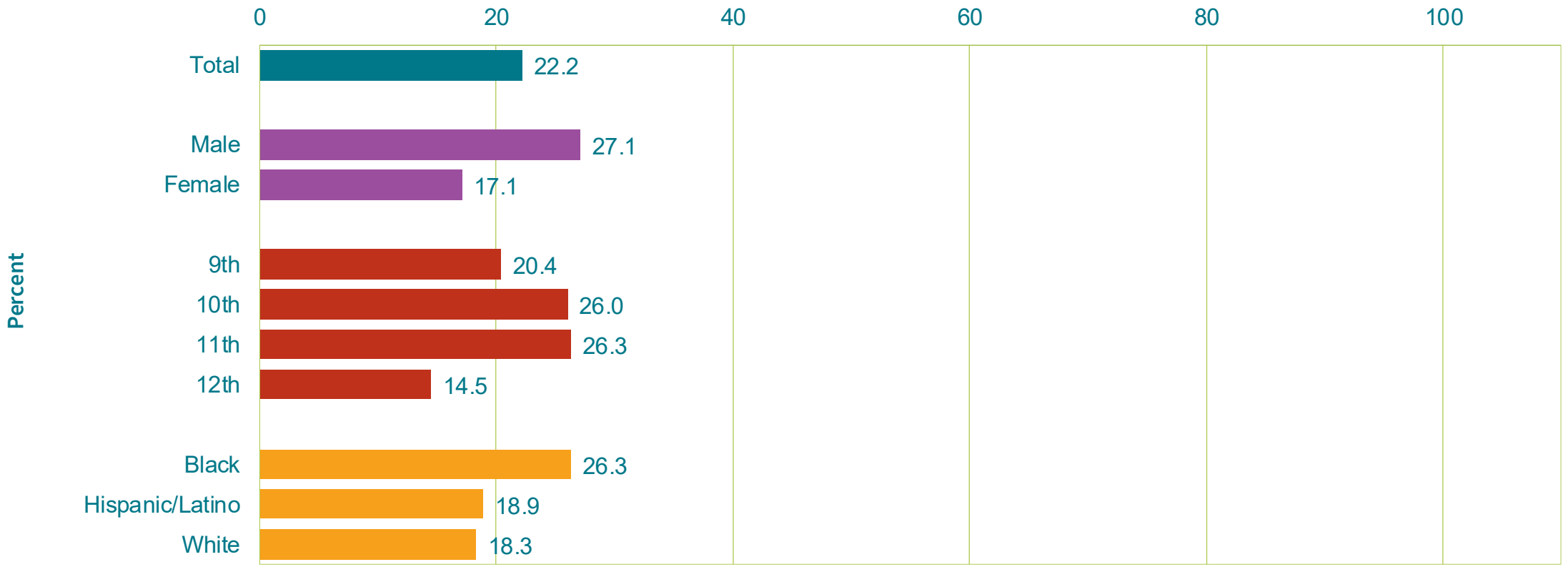
***On at least 1 day during the 30 days before the survey**

†No change 2021-2023 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]

This graph contains weighted results.

Department of Health

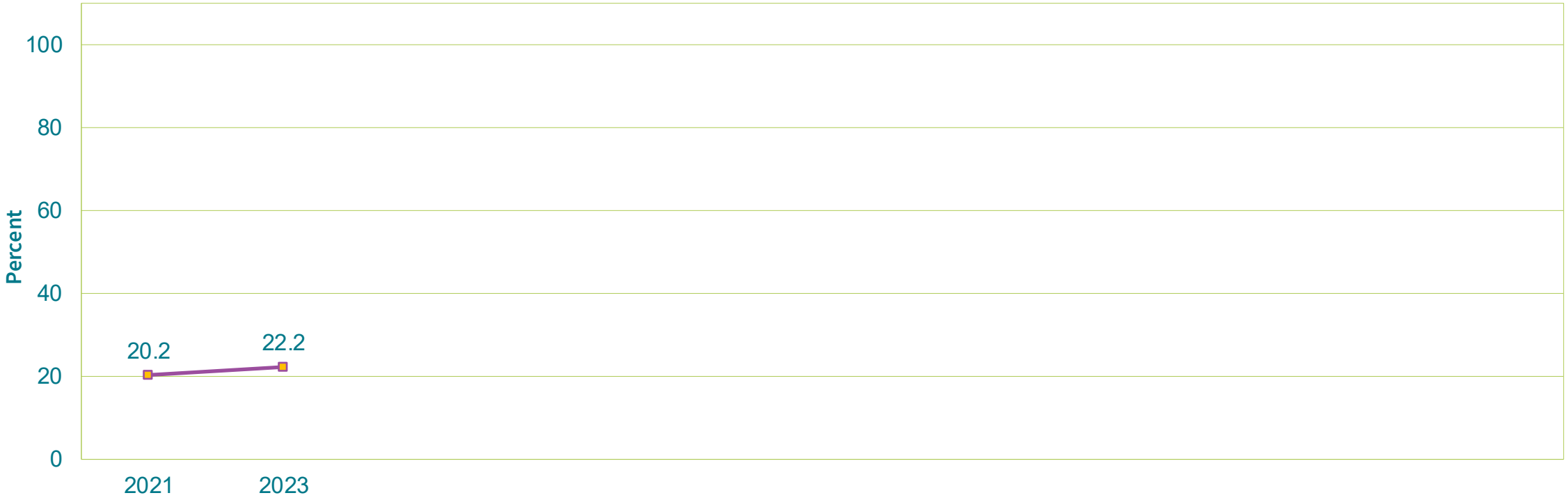
Percentage of High School Students Who Ever Saw Someone Get Physically Attacked, Beaten, Stabbed, or Shot in Their Neighborhood, by Sex, Grade,* and Race/Ethnicity, 2023



*10th > 12th, 11th > 12th (Based on t-test analysis, $p < 0.05$.)
All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.
This graph contains weighted results.

Ohio Department of Health

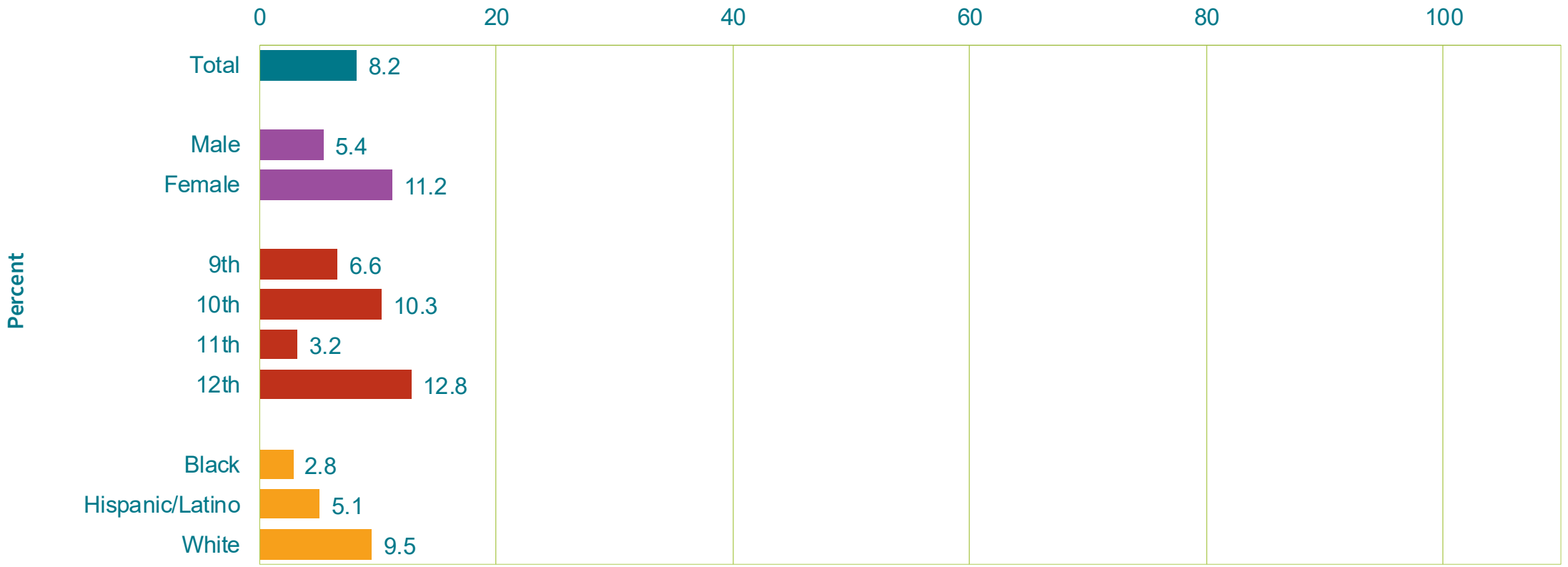
Percentage of High School Students Who Ever Saw Someone Get Physically Attacked, Beaten, Stabbed, or Shot in Their Neighborhood, 2021-2023*



*No change 2021-2023 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]
This graph contains weighted results.

Department of Health

Percentage of High School Students Who Experienced Sexual Violence,* by Sex,† Grade, and Race/Ethnicity,† 2023



***Being forced by anyone to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to, one or more times during the 12 months before the survey**

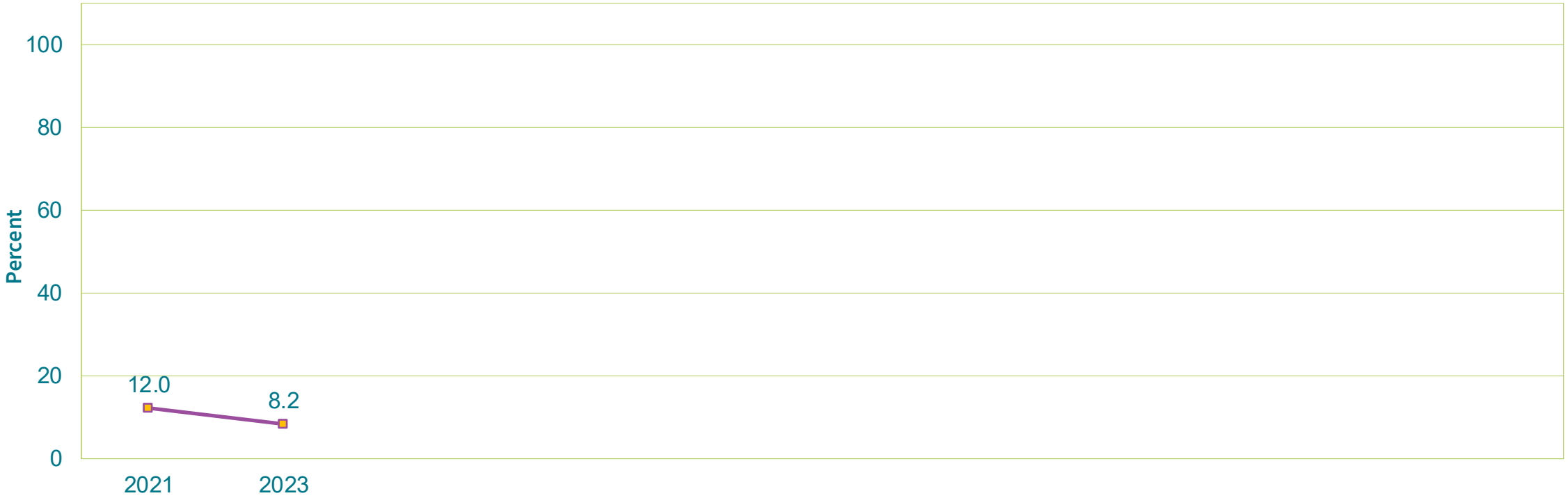
†F > M; W > B (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Experienced Sexual Violence,* 2021-2023†



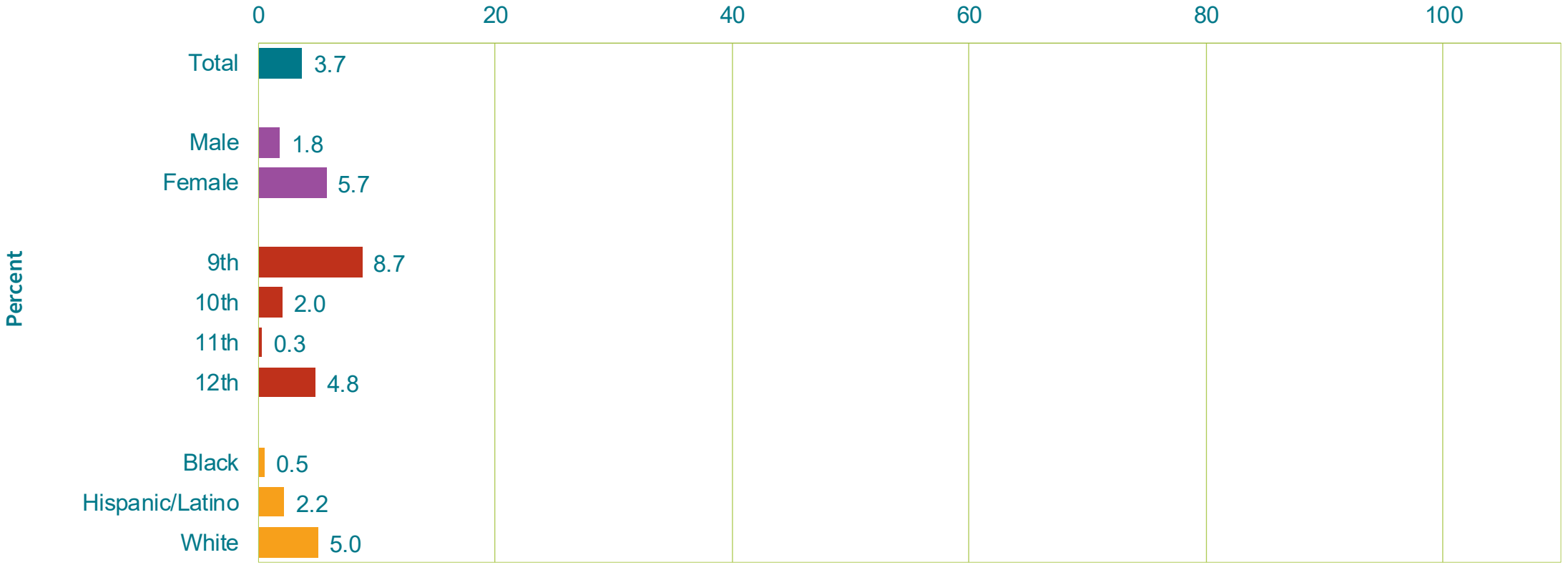
***Being forced by anyone to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to, one or more times during the 12 months before the survey**

†No change 2021-2023 [Based on linear trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$).]

This graph contains weighted results.

Department of Health

Percentage of High School Students Who Experienced Sexual Dating Violence,* by Sex,† Grade, and Race/Ethnicity, 2023



***Being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey**

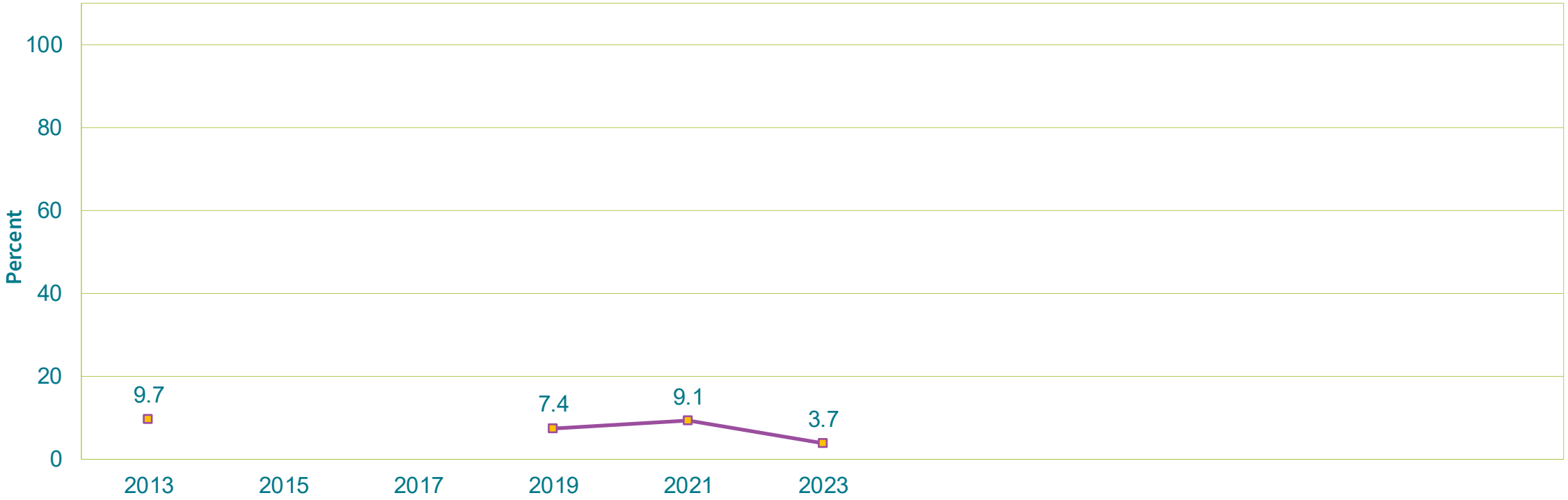
†F > M (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Experienced Sexual Dating Violence,* 2013-2023†



***Being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey**

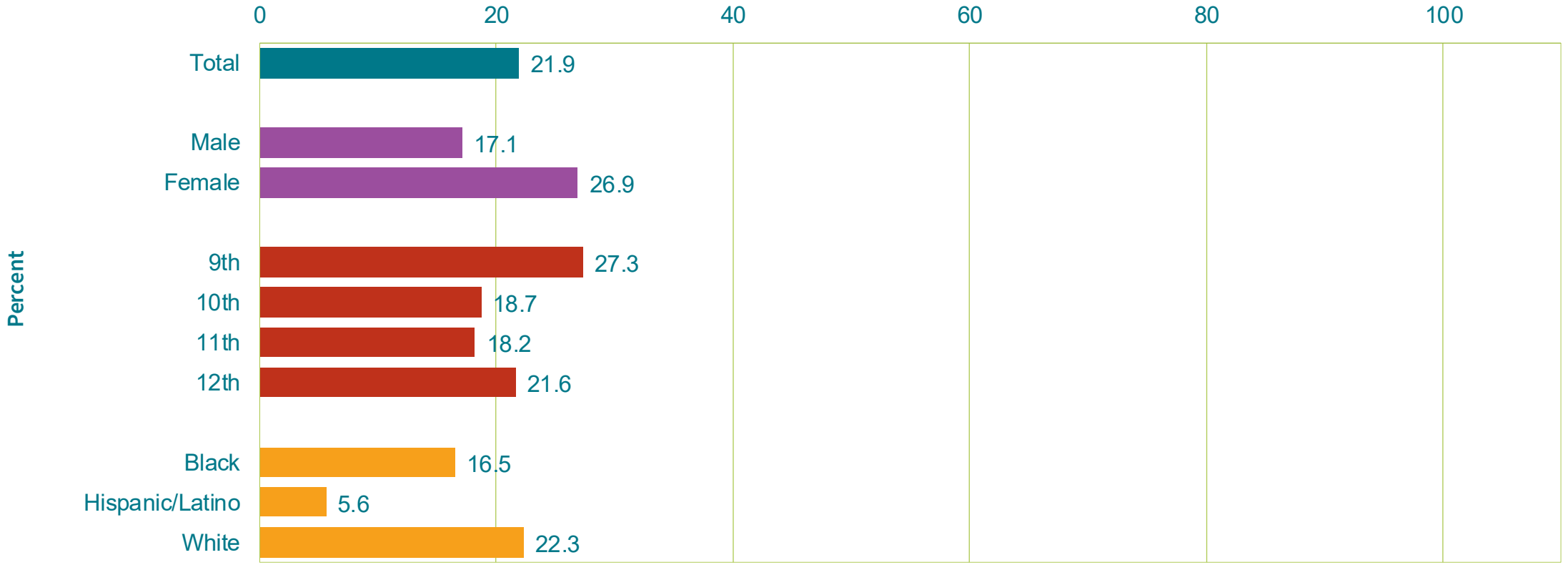
†Decreased 2013-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Were Bullied on School Property,* by Sex,† Grade, and Race/Ethnicity,† 2023



***Ever during the 12 months before the survey**

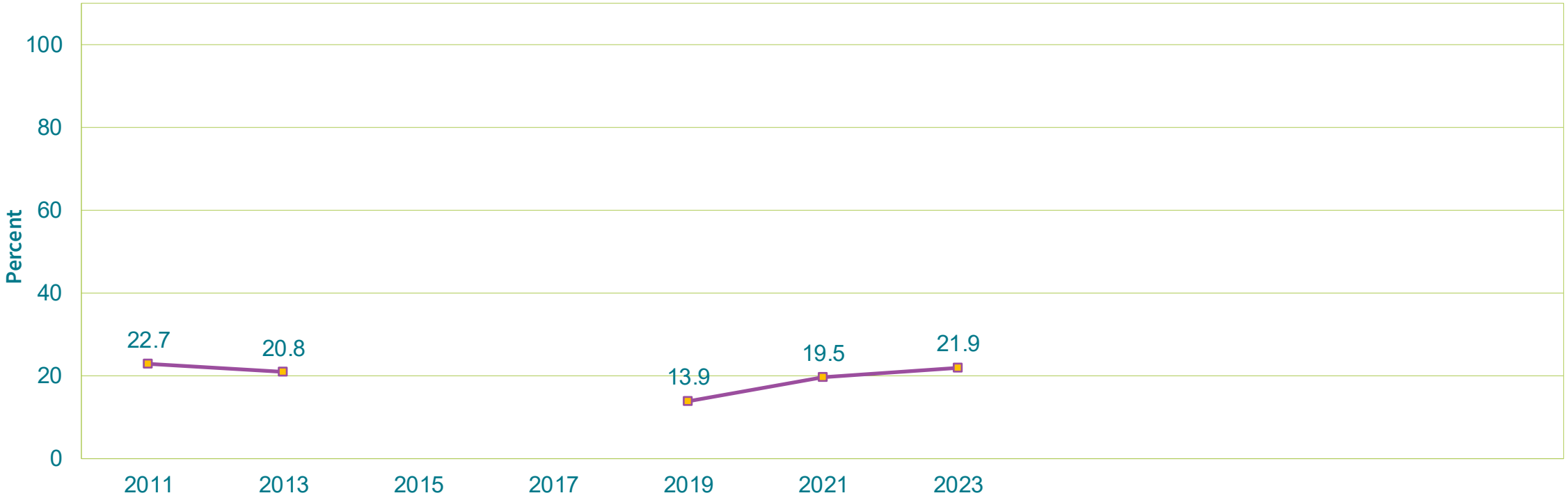
†F > M; W > H (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Were Bullied on School Property,* 2011-2023†



***Ever during the 12 months before the survey**

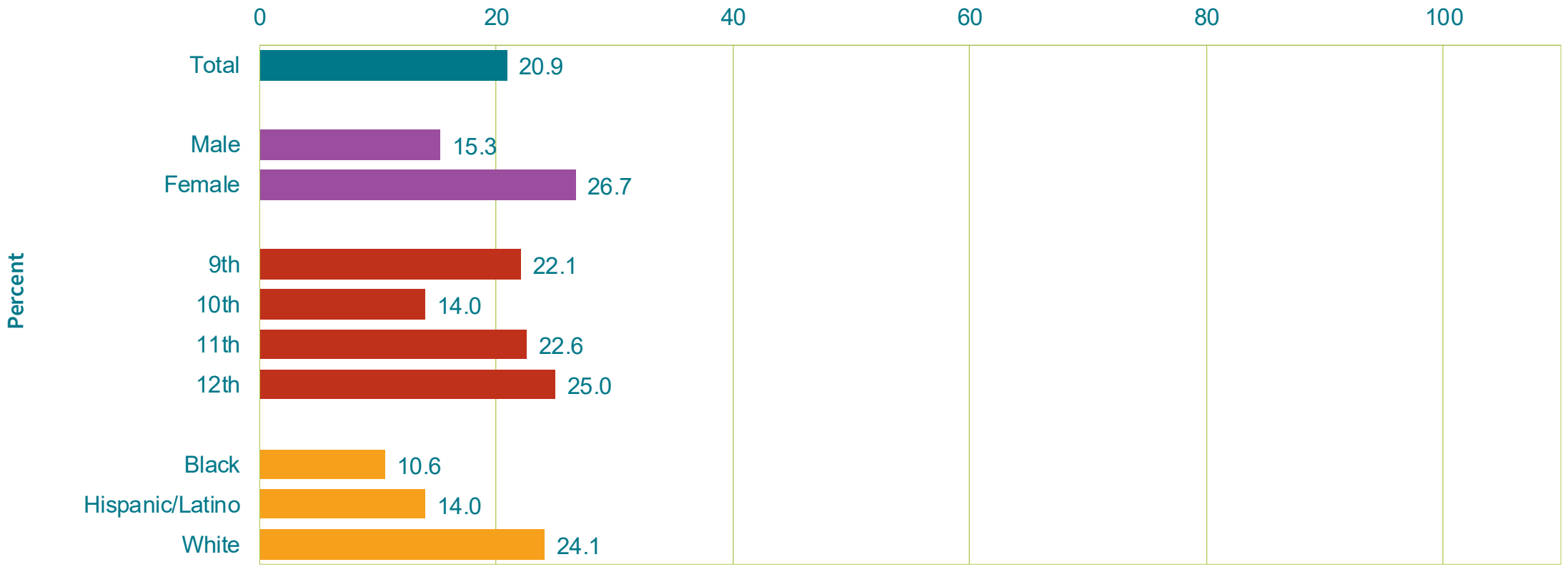
†No change 2011-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Were Electronically Bullied,* by Sex,† Grade, and Race/Ethnicity,† 2023



***Counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey**

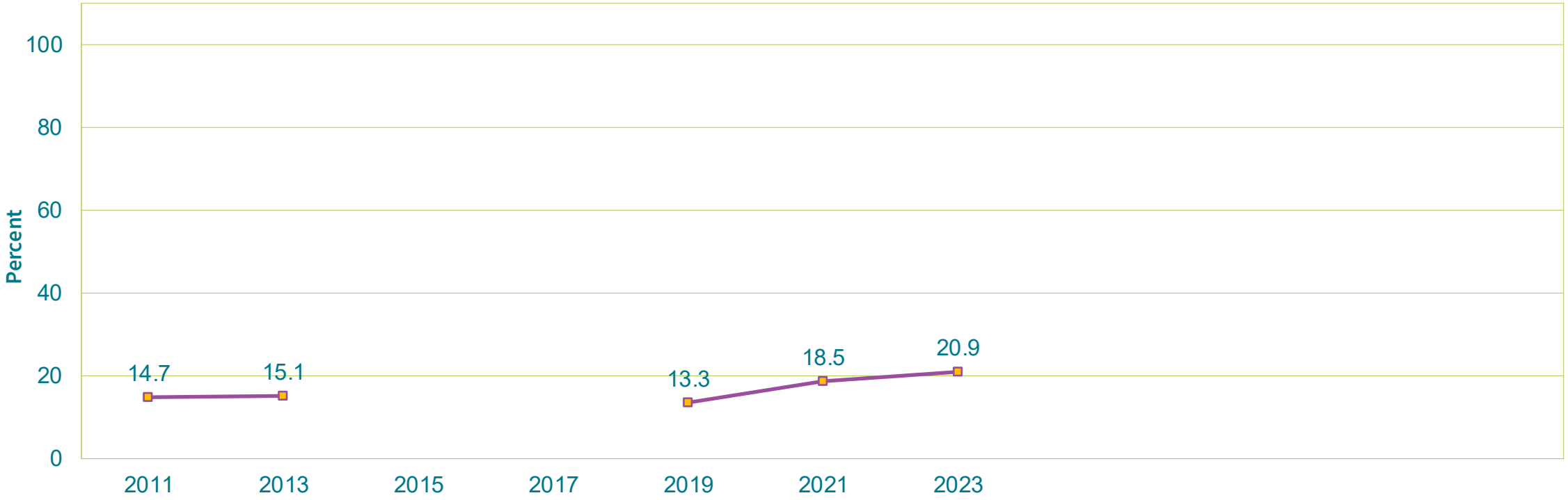
†F > M; W > B (Based on t-test analysis, $p < 0.05$.)

All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

This graph contains weighted results.

Ohio Department of Health

Percentage of High School Students Who Were Electronically Bullied,* 2011-2023†



***Counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey**

†Increased 2011-2023 [Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade ($p < 0.05$). Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).]

Data not available for 2015, 2017.

This graph contains weighted results.

Ohio Department of Health

QUESTIONS?

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