

# **Advancing the Science on the Prevention and Treatment of HIV and STIs among Adolescents and Young Adults**

2<sup>nd</sup> Annual Meeting  
April 30, 2019

This Year's Focus: Translational Research Methodology



Partners

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# Agenda

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- 11:00 AM**      **Welcome & Introductions** – *Robin Lanzi, Ph.D., M.P.H.*  
**CFAR Behavioral and Community Sciences Core Services**
- 11:05 AM**      **State of Adolescent Sexual Health** – *Samantha Hill, M.D.*
- 11:10 AM**      **Translational Research Methodology** – *Susan Davies, Ph.D.*
- 11:20 AM**      **Application of Translational Research – Getting to Outcomes Sexual Health Education** - *Jamie Keith, M.S.*
- 11:45 AM**      **Lessons from the Field:** *Sue Jones, M.Ed., FOCUS Program and Christina Clark Okarmus, MPP, Alabama Campaign to Prevent Teen Pregnancy*
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- 12:00 PM**      **Facilitated Roundtable Discussion**
- 12:00 PM – 12:05 PM      **Pick up Lunch and Head to Assigned Roundtable**
- 12:05 PM - 12:30 PM      **Group Discussion**
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- 12:30 PM**      **Update on Roundtable Discussion**
- 12:50 PM**      **Future Steps/Goals**
- 1:00 PM**      **Adjourn**

## Objectives

Convene adolescent sexual health investigators, clinicians, agencies, and CBOs

Foster dialogue in efforts to advance the science around the prevention and treatment of HIV and STIs among AYAs

# UAB CENTER FOR AIDS RESEARCH

## Behavioral and Community Sciences Core

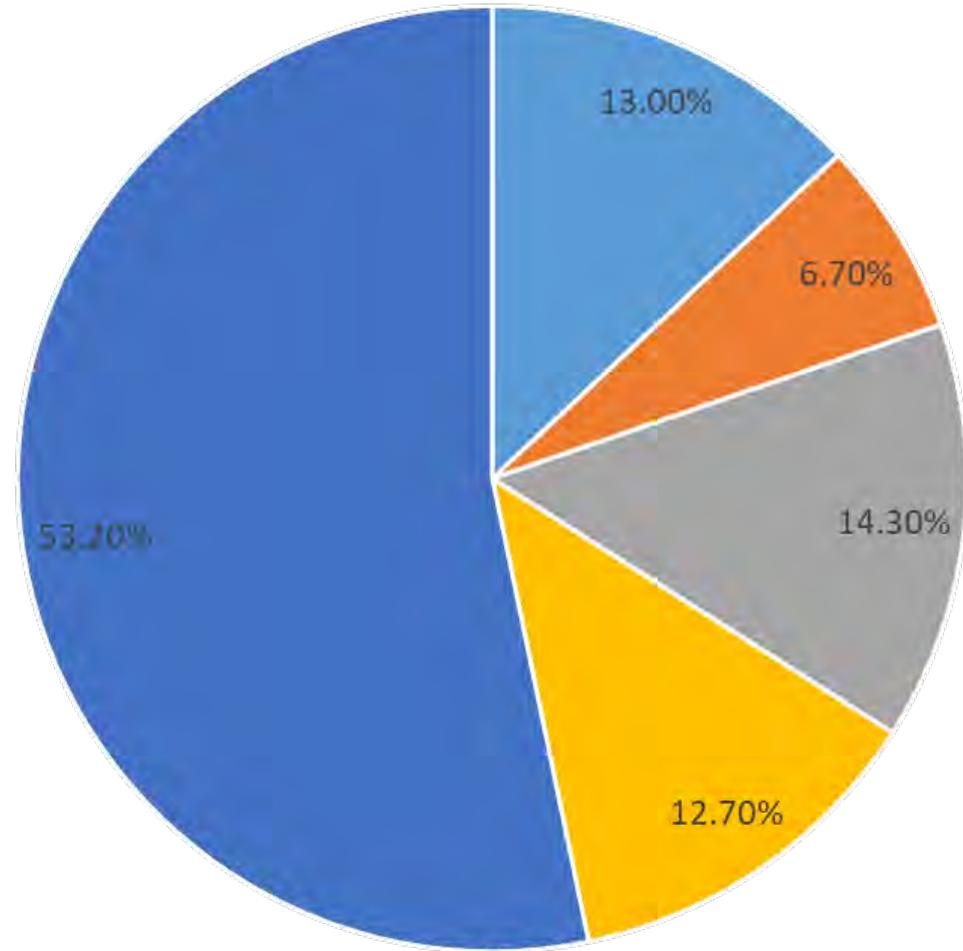
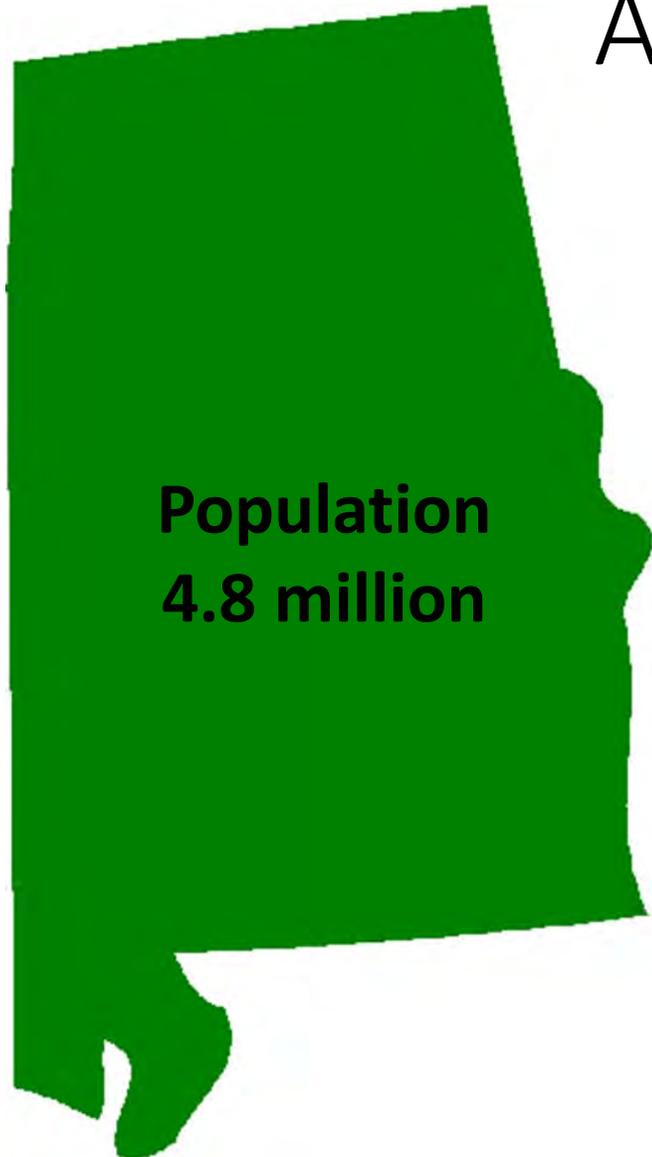
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- Core services to UAB researchers and community partners who are conducting, or who are interested in conducting, behavioral and community science studies in the areas of HIV prevention and treatment.
- Free 1-hour consultations on various topics related to behavioral and community science studies including, but not limited to:
  - Study design
  - Data collection instrument design, including qualitative interview design guide
  - Data analysis and interpretation
  - Community acceptability and feasibility of the research
  - Core Services Request Form on our website:
    - <http://www.uab.edu/medicine/cfar/core-facilities/behavioral-community-sciences-core>
- Linkage to community partners
- Referrals for additional consultations, mentorship opportunities, and linkage to resources
- Seminar series on STI and HIV-related topics
- Hands-on methodological workshops to build skills for behavioral and community science research



State of Adolescent Sexual Health in Alabama  
Dr. Samantha Hill

# Adolescents in Alabama



■ Age <10 ■ Age 10 -14 ■ Age 15-24 ■ Age 25-34 ■ Age >/= 35

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# 2015 Youth Risk Behavior Survey - Alabama

## *Sexual Behaviors*

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46% of AL high school students report having had sexual intercourse



Currently sexually active

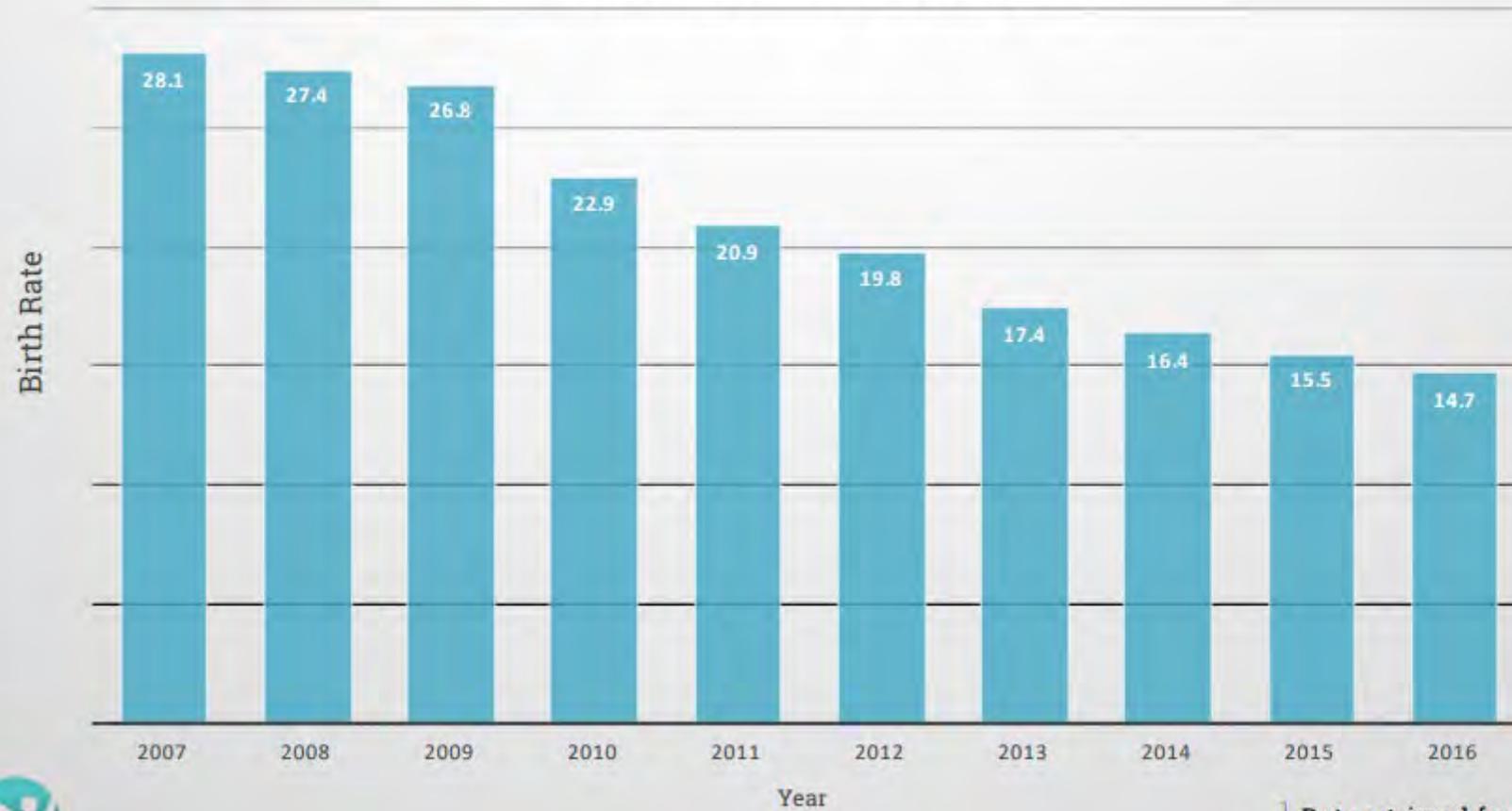


49% no condom at last sex



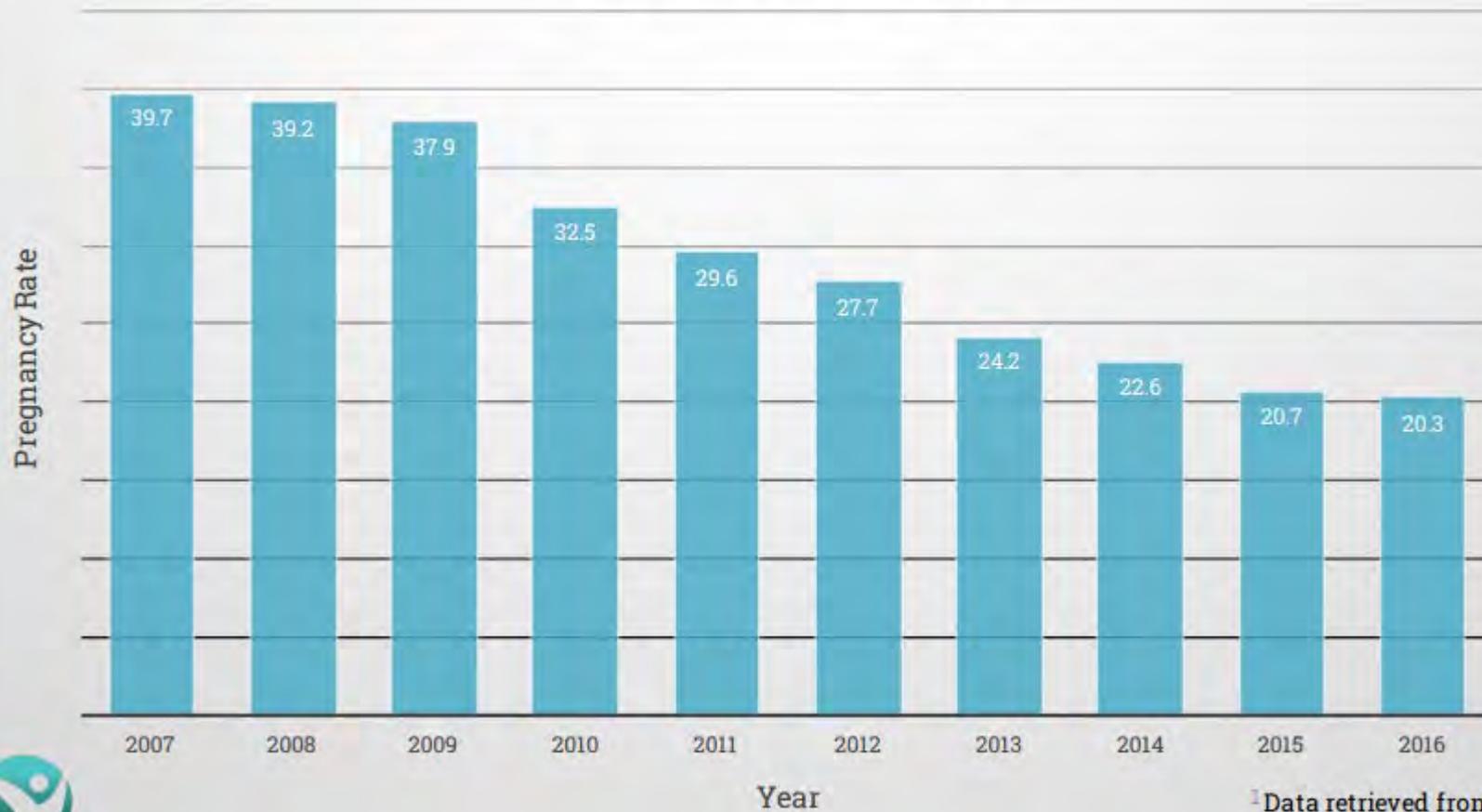
84% never tested for HIV

# State of Alabama Teen Birth Rate Ten Year Graph (Females aged 10-19)<sup>1</sup>



<sup>1</sup> Data retrieved from ADPH,  
Center for Health Statistics

## State of Alabama Teen Pregnancy Rate Ten Year Graph (Females aged 10-19) <sup>1</sup>



<sup>1</sup>Data retrieved from ADPH,  
Center for Health Statistics



42: Teen Birth Rate  
 33: Decline In Teen Birth Rate  
 39: Teen Pregnancy Rate  
 Please note: Rank of 1 = lowest; Rank of 50 = highest

### TEEN BIRTHS IN ALABAMA, GIRLS 15-19

2017  
**4,241**  
 NUMBER OF TEEN BIRTHS

2015  
**\$68**  
 MILLION SAVED DUE TO FALLING TEEN BIRTH RATE

TEEN BIRTH RATE  
 2017  
**27.0** BIRTHS PER 1,000 GIRLS

**-5%**  
 CHANGE IN TEEN BIRTH RATE FROM 2016

**-63%**  
 CHANGE IN TEEN BIRTH RATE FROM PEAK YEAR 1991

TEEN BIRTH RATE, BY RACE/ETHNICITY	2017	CHANGE, 1991 - 2017
Non-Hispanic White	23	-60%
Non-Hispanic Black	32	-71%
Hispanic	53	11%

### TEEN PREGNANCY IN ALABAMA, GIRLS 15-19

NUMBER OF TEEN PREGNANCIES  
 2013  
**7,610**

TEEN PREGNANCY RATE  
 2013  
**48** PREGNANCIES PER 1,000 GIRLS

**-19%**  
 CHANGE IN TEEN PREGNANCY RATE FROM 2011

**-57%**  
 CHANGE IN TEEN PREGNANCY RATE FROM PEAK YEAR 1988

# Alabama Division of STD Prevention and Control -- 2015

## **Chlamydia**

- Male AYAs – 61.6%
- Females AYAs – 73.9%

## **Gonorrhea**

- Male AYAs – 53.6%
- Females AYAs – 67.2%

HIV Diagnoses Among Youth in the 50 States  
and District of Columbia, 2010-2016



**Youth overall: down 6%**

**Young women: down 32%**

**Young men: remained stable**

**Young gay and bisexual men by race/ethnicity:**

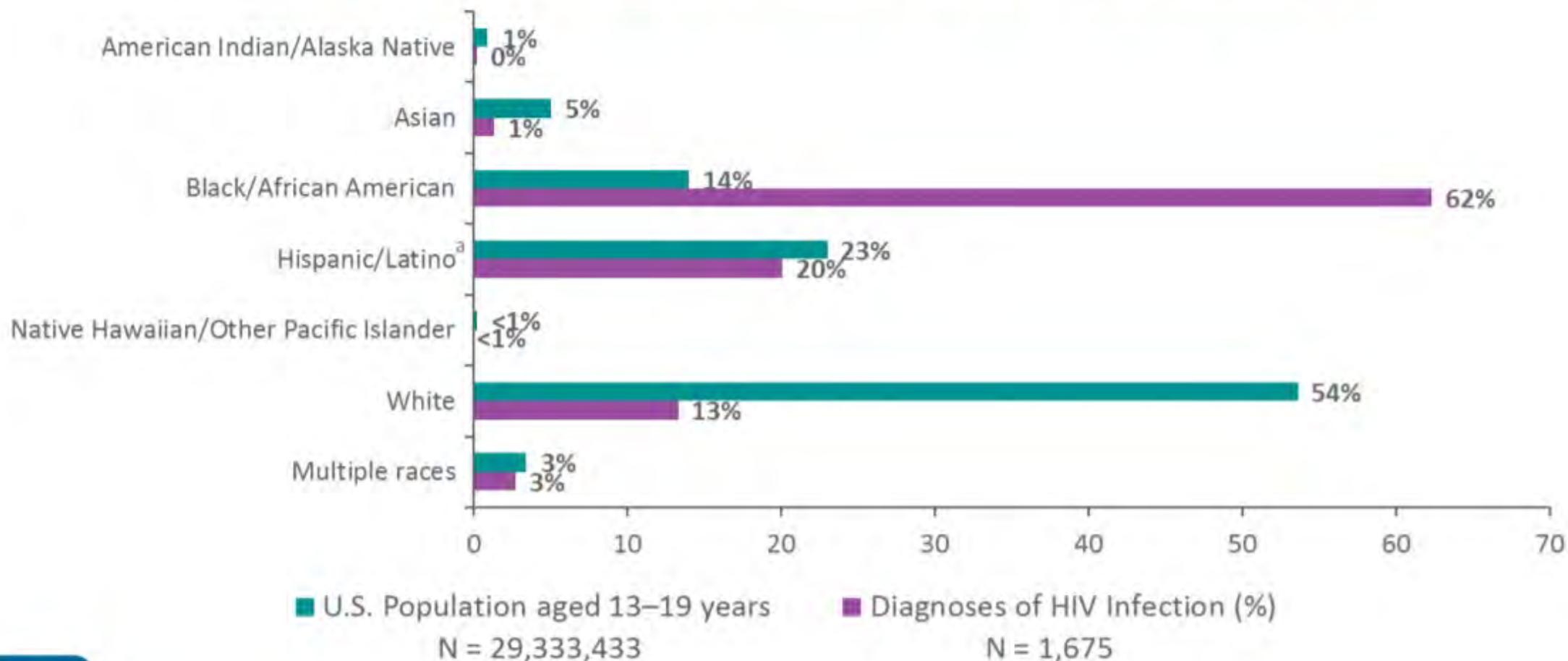
**Black/African American: down 5%**

**Hispanic/Latino: up 17%**

**White: down 6%**

Source: CDC. [NCHHSTP AtlasPlus](#). Accessed April 9, 2019.

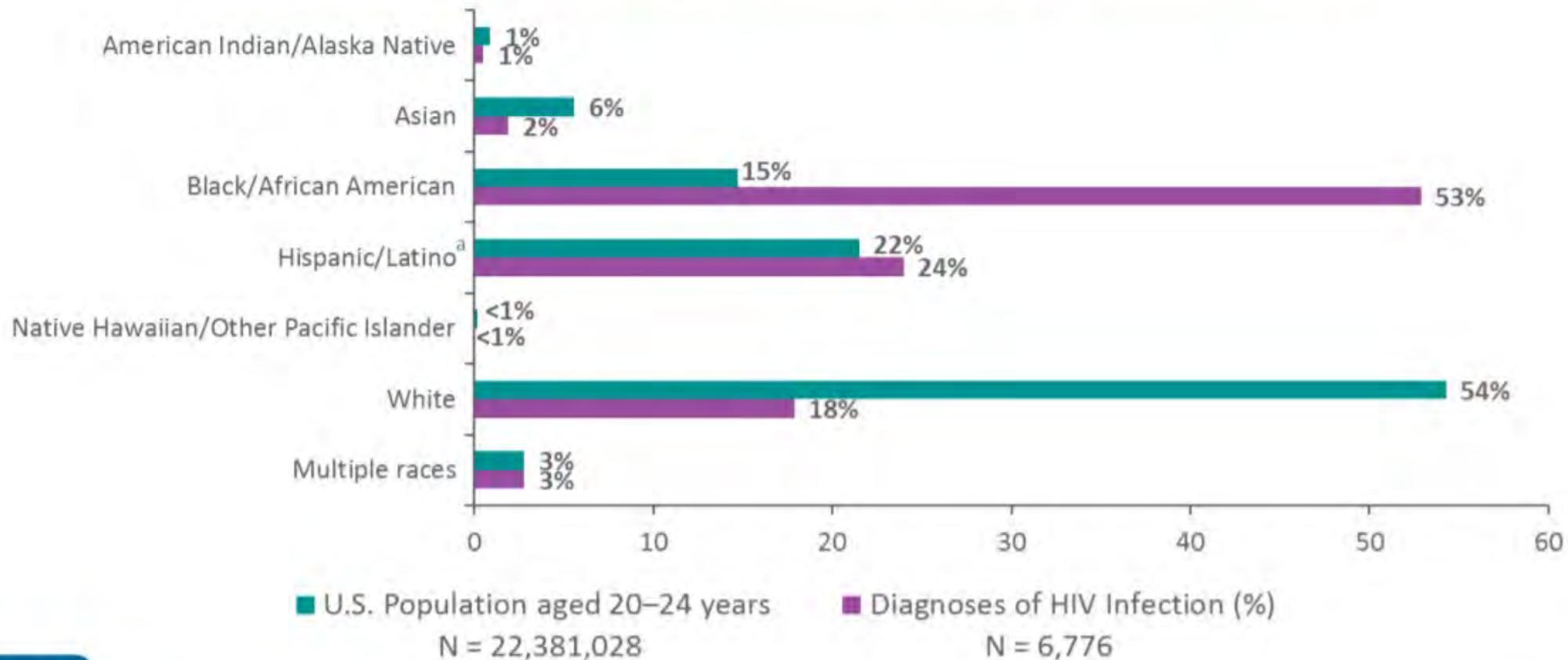
## Diagnoses of HIV Infection and Population among Adolescents Aged 13–19 Years, by Race/Ethnicity, 2016—United States



Note. Data for the year 2015 are preliminary and based on 6 months reporting delay.

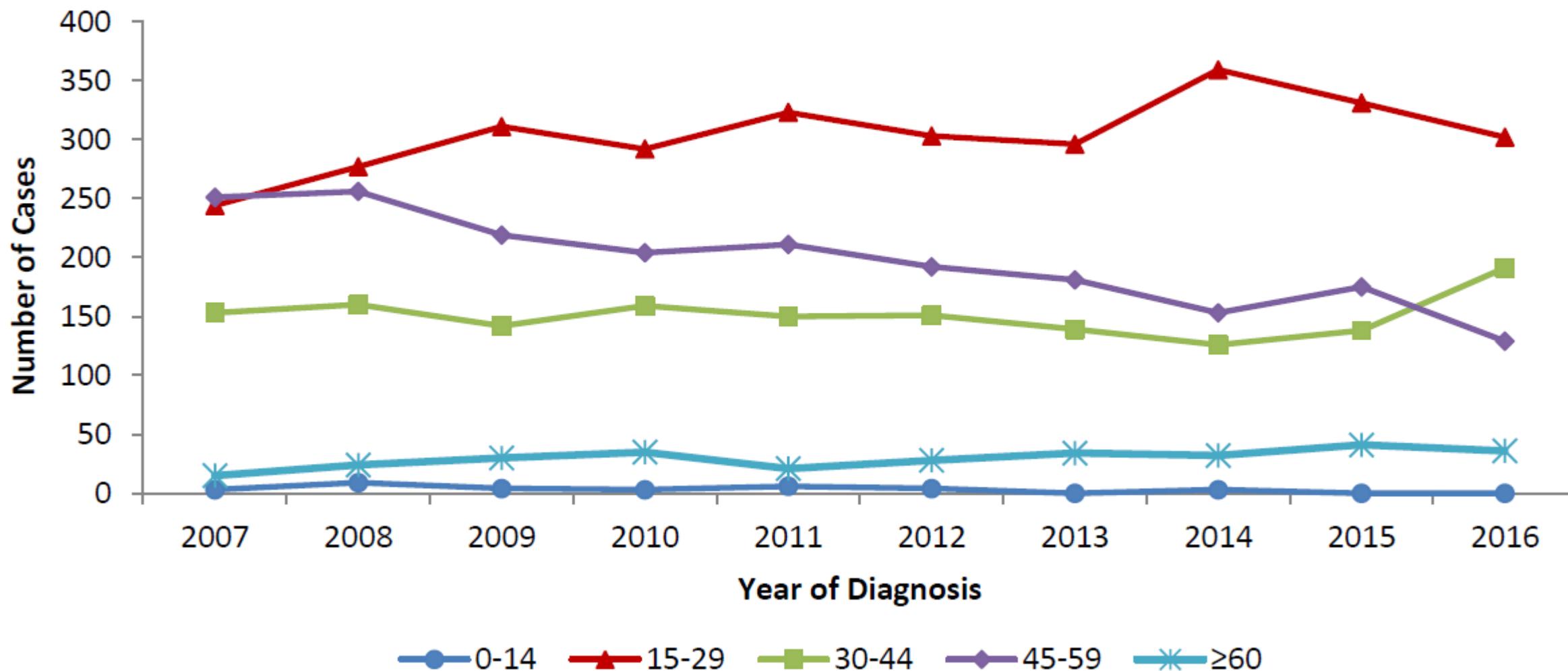
<sup>a</sup> Hispanics/Latinos can be of any race.

## Diagnoses of HIV Infection and Population among Young Adults Aged 20–24 Years, by Race/Ethnicity 2016—United States



Note. Data for the year 2015 are preliminary and based on 6 months reporting delay.  
<sup>a</sup> Hispanics/Latinos can be of any race.

Figure 7. Trends in Newly Diagnosed HIV Cases by Age Group, Alabama 2007-2016



Source: Alabama Department of Public Health, Division of STD Prevention and Control, HIV Surveillance Branch.

# HIV Infections Among Individuals Residing in Alabama at Diagnosis

	Newly Diagnosed		Prevalent Cases		Cumulative Cases	
Age (Yrs)	Cases	% Total	Cases	% Total	Cases	% Total
<13	0	0.0	38	0.3	158	0.7
13-19	3	2.8	83	0.6	1076	4.9
20-24	20	18.3	617	4.2	3693	16.9
25-29	19	17.4	1453	9.8	4107	18.8
30-39	30	27.5	3076	20.8	6726	30.8
40-49	19	17.4	3260	22.0	3828	17.6
≥50	18	16.5	6289	42.4	2235	10.2
Total	109	100.0	14816	100.0	21833	100.0

# HIV Infections Among Individuals Residing in Alabama at Diagnosis

Exposure (>13)	Newly Diagnosed		Prevalent Cases		Cumulative Cases	
	Cases	% Total	Cases	% Total	Cases	% Total
Men who have Sex with Men (MSM)	39	35.8	6774	45.8	9754	45.0
Heterosexuals	25	22.9	4385	29.7	5976	27.6
Injection Drug Use (IDU)	1	0.9	770	5.2	1886	8.7
MSM/IDU	1	0.8	472	3.2	1078	5.0
Hemophilia/Coagulation Disorder	0	0.0	15	0.1	79	0.4
Mother with HIV infection	0	0.0	84	0.6	0	0.0
Transfusion/Transplant Recipient	0	0.0	4	0.0	31	0.1
Risk Not Reported/Unknown	43	39.4	2273	15.4	2871	13.2
Total	109	100.0	14777	100.0	21675	100.0

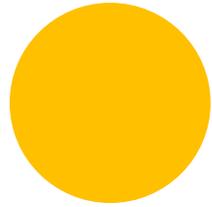
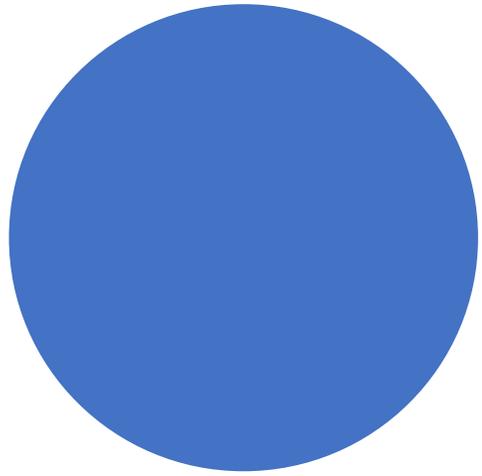
Alabama		
Disease	Reported cases	Change from previous year
HIV diagnoses (2017)	653	
Acute Viral Hepatitis C (2016)	32	
Acute Viral Hepatitis B (2016)	59	
Hepatitis A (2016)	19	
Primary and Secondary Syphilis (2016)	376	
Chlamydia (2016)	26,901	
Gonorrhea (2016)	8,408	
Tuberculosis (2017)	120	



POPULATION INSTITUTE 2017 REPORT CARD SHOWS THE DIVIDED STATES OF REPRODUCTIVE HEALTH AND RIGHTS

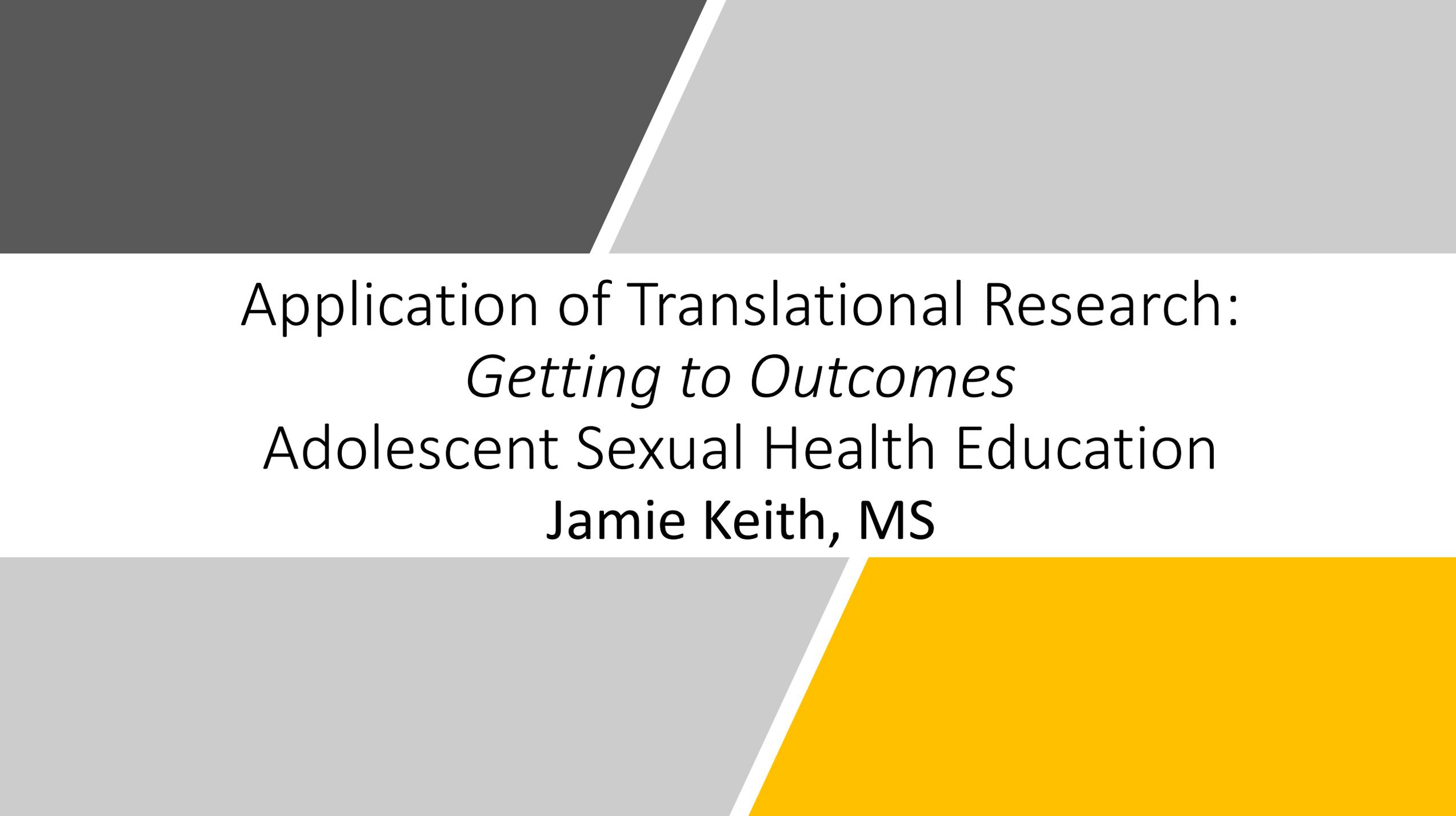
**Alabama is one of 18 states  
receiving a failing grade**

**U.S. grade  
falls to a “D-”**



Translational Research  
Methodology

Dr. Susan  
Davies



Application of Translational Research:  
*Getting to Outcomes*  
Adolescent Sexual Health Education  
Jamie Keith, MS



# Sexual Health Education in Alabama: Lessons Learned from the Field

Christina Clark Okarmus, MPP, Alabama Campaign to Prevent Teen Pregnancy

Sue Jones, MEd, FOCUS Program

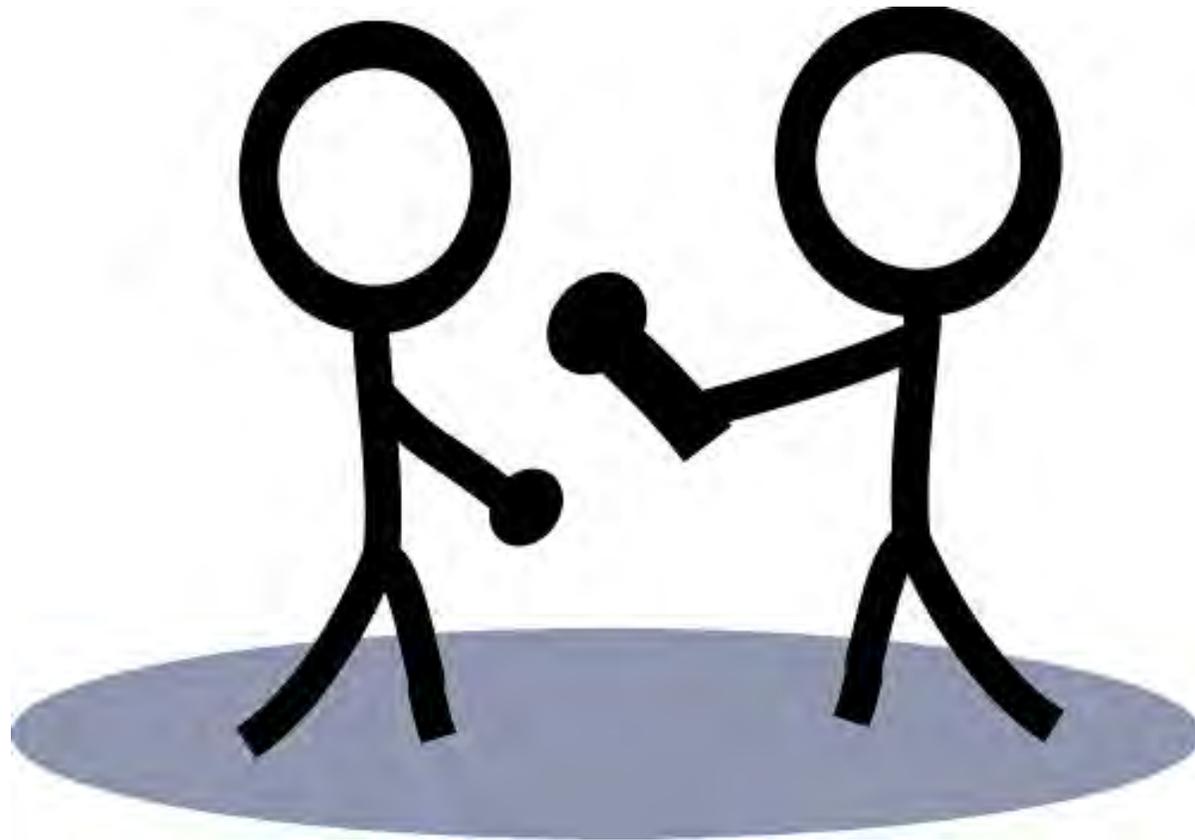
# Roundtable Discussion

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# Roundtable Reporting

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Future Steps



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Please complete your evaluation