

Tobacco Use in American Indian Communities New Mexico



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ALBUQUERQUE AREA SOUTHWEST
TRIBAL EPIDEMIOLOGY CENTER

OCTOBER 21, 2015

upon

study

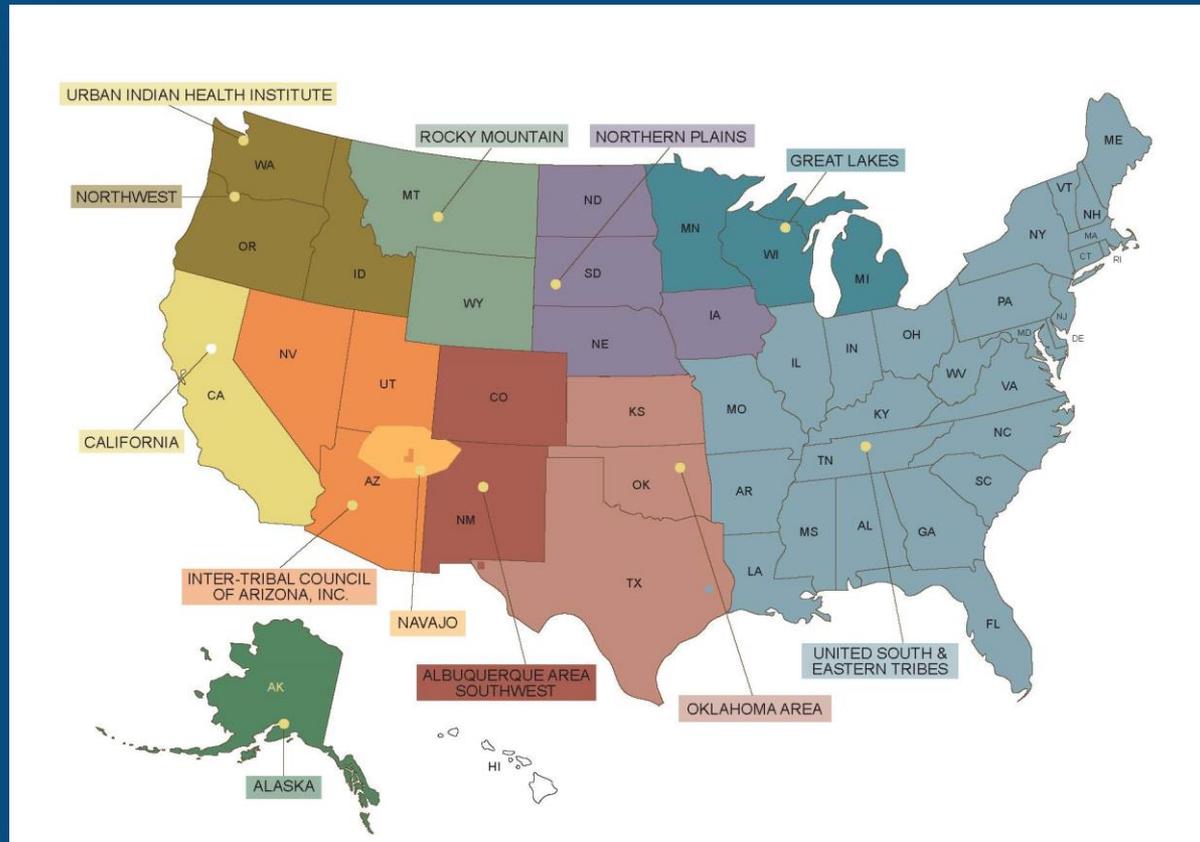
epi-dem-iology

people

The diagram illustrates the etymology of the word 'epidemiology'. The word is written in a large, black, sans-serif font. Three colored brackets are used to group parts of the word: a blue bracket above 'epi-' is labeled 'upon'; an orange bracket below '-dem-' is labeled 'people'; and a green bracket above '-iology' is labeled 'study'.

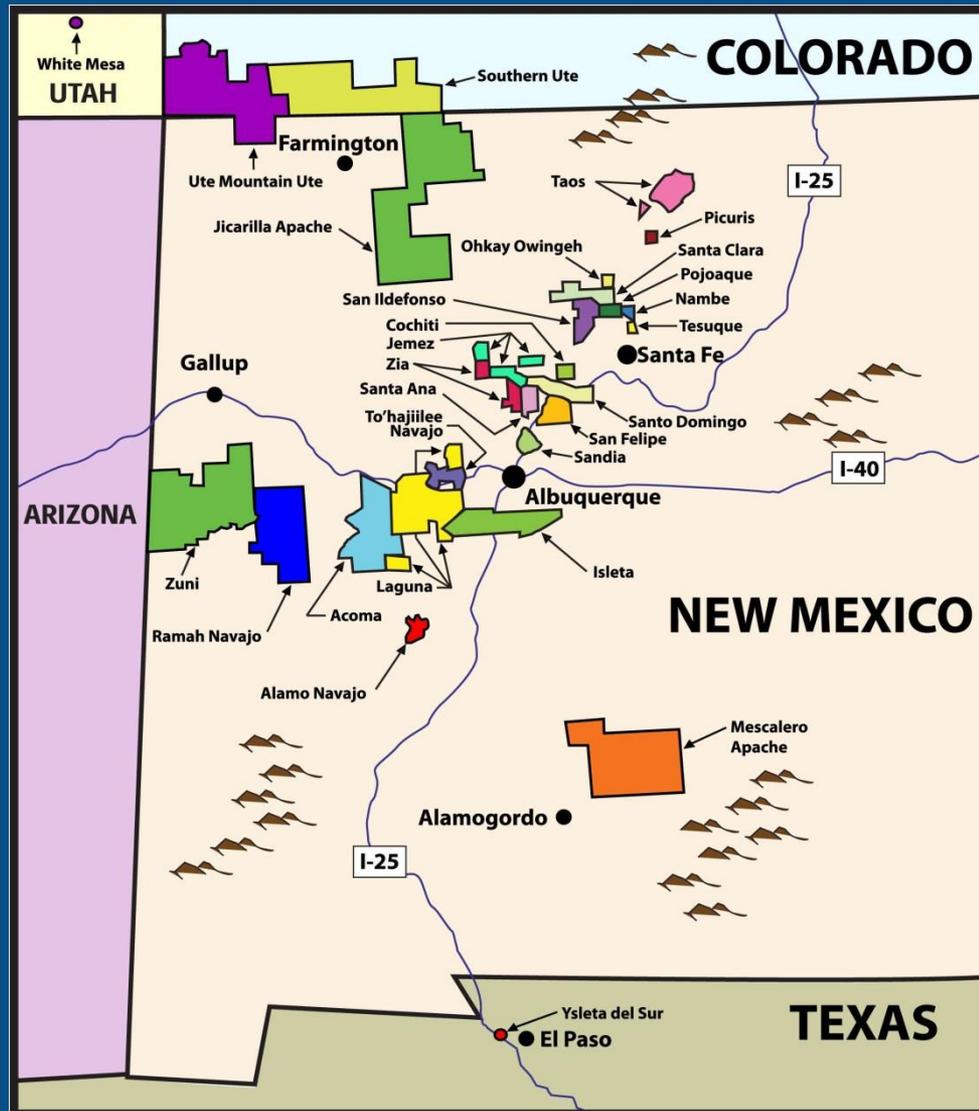
Tribal Epidemiology Centers

AASTEC established in 2007

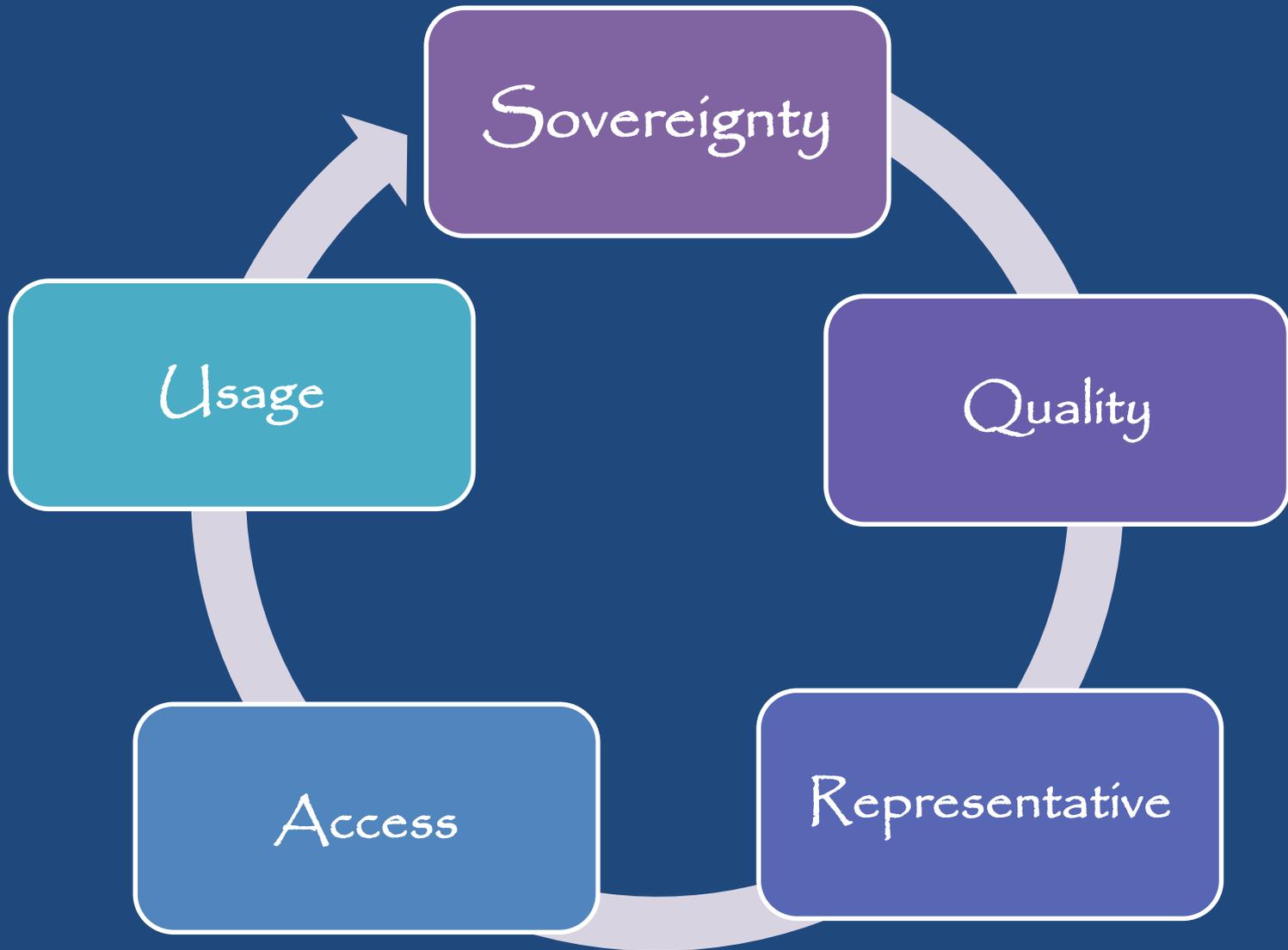


Albuquerque Area Southwest Tribal Epidemiology Center

AASTEC Service Area



AASTEC Aims



NM YRRS

- YRRS = Youth Risk & Resiliency Survey
- Biennial classroom-based survey
- Grades 6-12
- Partnership
 - New Mexico Department of Health
 - New Mexico Public Education Department
 - UNM Prevention Research Center
 - AASTEC



2013 NMYRRS Instruments

- High School = 114 questions
- Middle School = 75 questions
- Topics:
 - Demographics
 - Personal Safety
 - Violence-Related Behaviors
 - Bullying
 - Sadness & Attempted Suicide
 - Tobacco Use
 - Self-Injury (*High School Only*)
 - Alcohol Use
 - Marijuana/Other Drugs
 - Sexual Behavior
 - Body Weight
 - Physical Activity
 - Resiliency

AASTEC NM YRRS Oversample 2009-2015

Survey Year	Additional Schools	Additional Students	Response Rate	Total Students
2009	23 High schools = 13 Mid schools = 10	1,985 AI/AN 3,794 ALL	74%	8,274 AI/AN 45,877 ALL
2011	33 High schools = 15 Mid schools = 18	3,471 AI/AN 7,392 ALL	79%	10,600 AI/AN 29,404 ALL
2013	42 High schools = 19 Mid schools = 23	3,593 AI/AN 8,817 ALL	78%	7,124 AI/AN 35,483 ALL
2015	42 High schools = 19 Mid schools = 23	N/A	N/A	N/A

PARTICIPATING AASTEC SAMPLE SCHOOLS

2013 NM YRRS (n=42)

NACA High School	Santo Domingo Middle	San Felipe Elementary
NACA Middle School	Bernalillo Middle	Mount Taylor Elementary
Ruidoso Middle	Bernalillo High	Laguna-Acoma Middle
Ruidoso High	San Diego Riverside	Laguna-Acoma High
Tularosa Intermediate	Jemez Valley Middle	Los Alamos Middle
Tularosa High	Jemez Valley High	Grants High
Dulce Middle	Santa Fe High	Twin Buttes High
Dulce High	Magdalena Middle	Zuni Middle
Carlos F. Vigil MS (Española)	Magdalena High	Zuni High
Espanola Valley High	Taos Middle	Laguna Middle School
Cochiti Middle	Taos High	Mescalero Apache School
Santa Fe Indian School	Cubero Elementary	Mescalero Apache School
Santa Fe Indian School	Walatowa Charter High	Navajo Preparatory School
Sky City	Pojoaque High	Pojoaque Middle

NM YRRS Summary Reports

American Indian High School Students YRRS 2013 SUMMARY

The New Mexico Youth Risk and Resiliency Survey (NM-YRRS) is a classroom-based survey used to assess health risks and protective factors among New Mexico high school and middle school students.

3,446 students participated in the 2013 YRRS

BY GENDER

Male: **1,688** Female: **1,756**

BY GRADE

Gender not reported: **2** 9th: **1,138** 10th: **891** 11th: **753**
12th: **637** Other: **27**

STRENGTHS

78 %

Are NOT current Drinkers

48%

Say a teacher believes they will succeed

71 %

NOT Exposed to secondhand smoke

AREAS OF CONCERN

56 %

Know an adult who used drugs in the past year

2 in 3

Say there are NO clear school rules

1 in 3

Currently Use Marijuana



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THE NEW MEXICO YOUTH RISK AND RESILIENCEY SURVEY

PERSONAL SAFETY AND SCHOOL ENVIRONMENT

	AI/AN	NM STATEWIDE
Carried a weapon (gun, knife, club) on school property**	4.6 %	5.8 %
Bullied on school property*	16.9 %	19.4 %
Electronically bullied*	8.4 %	13.3 %
Missed school due to safety issues**	7.9 %	7.5 %
Experienced dating violence*	10.7 %	11.1 %
Texted or e-mailed while driving a vehicle**	31.2 %	41.7 %

WEIGHT, NUTRITION AND PHYSICAL ACTIVITY

	AI/AN	NM STATEWIDE
Overweight or Obese	62.3 %	70.3 %
Met recommended physical activity guidelines	33.1 %	29.7 %
Watched TV for 2 hours or more on school days	48.8 %	47.1 %
Non-school computer use for 2 hours or more on school days	49.1 %	50.3 %
Average number of school days with physical education per week	2	2

SEXUAL BEHAVIOR

	AI/AN	NM STATEWIDE
Have <u>not</u> had sexual intercourse	55.9 %	58.8 %
Used condom last time had sex	50.6 %	55.8 %
Used alcohol or drugs last time had sex	20.0 %	22.9 %
Taught about HIV/AIDS in school	78.4 %	80.9 %

ALCOHOL USE

	AI/AN	NM STATEWIDE
Alcohol use**	21.5 %	31.1 %
Binge drinking (5 or more drinks in a few hours)**	14.4 %	19.4 %
Rode in car driven by someone who had been drinking alcohol**	21.7 %	23.3 %
Drove a vehicle after drinking alcohol**	8.1 %	10.7 %

RESILIENCY

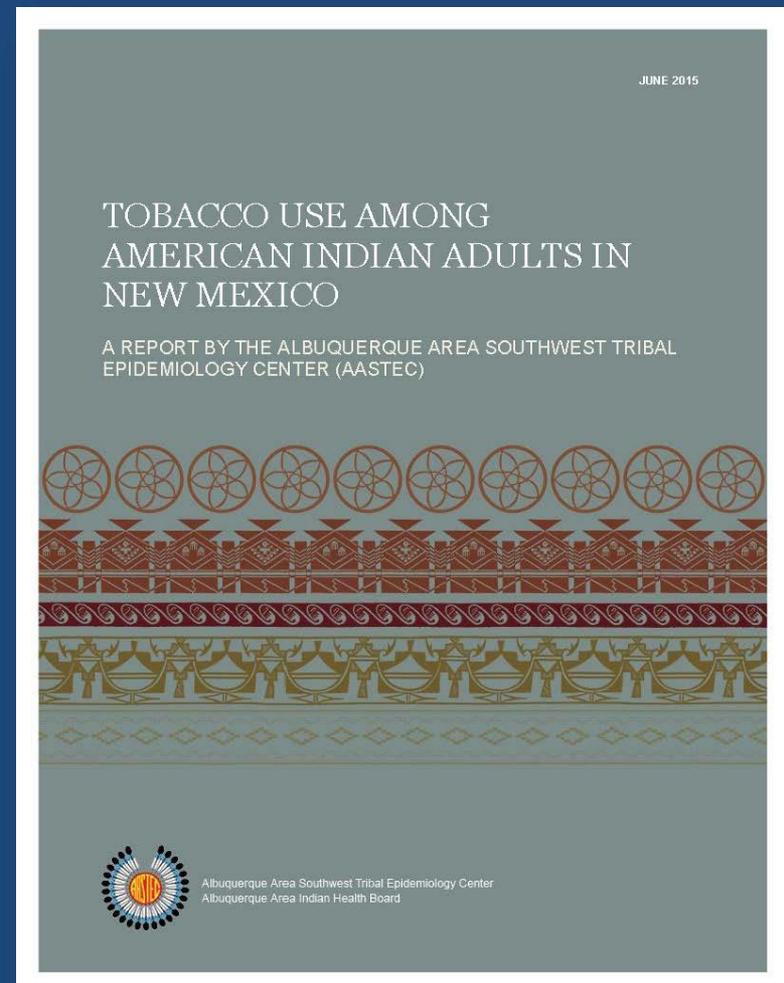
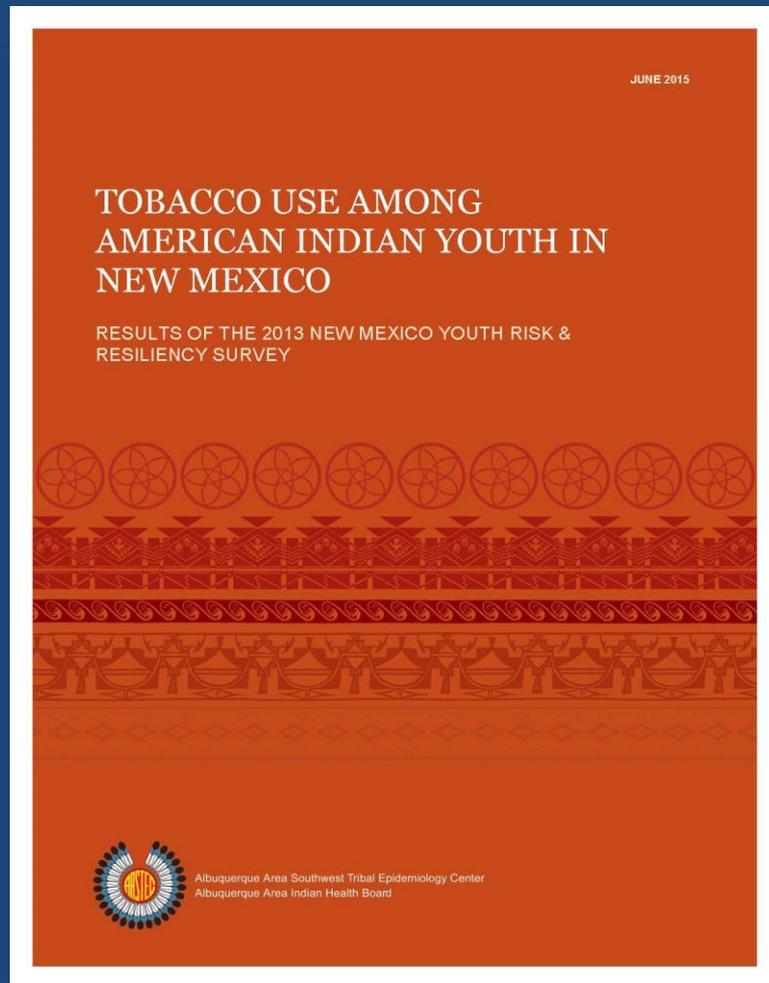
	AI/AN	NM STATEWIDE
A teacher or adult at school listens to student	29.5 %	35.7 %
A teacher or adult at school believes student will be a success	47.6 %	44.6 %
A parent or other adult at home is interested in student's school work	44.8 %	48.8 %
Student plans to go to college or some other school after high school	69.0 %	68.4 %
Has a friend who really cares about student	51.9 %	58.8 %
There are clear rules at school about what a student can and cannot do	51.9 %	45.7 %
Friends do <u>not</u> get into a lot of trouble	32.6 %	36.2 %
Involved in extracurricular activities outside of school	34.2 %	36.5 %



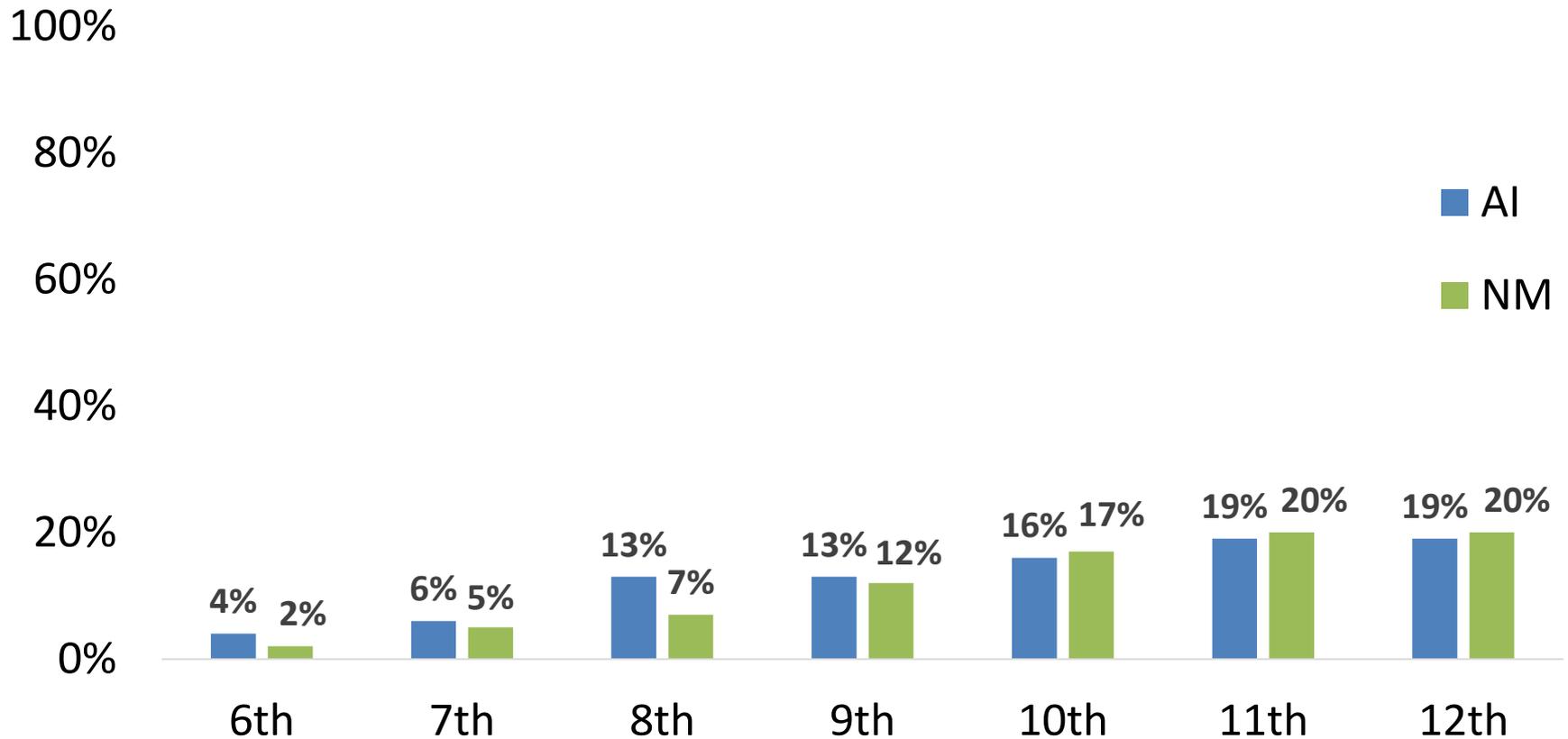
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* Past 12 months ** Past 30 Days

In-Depth Reports



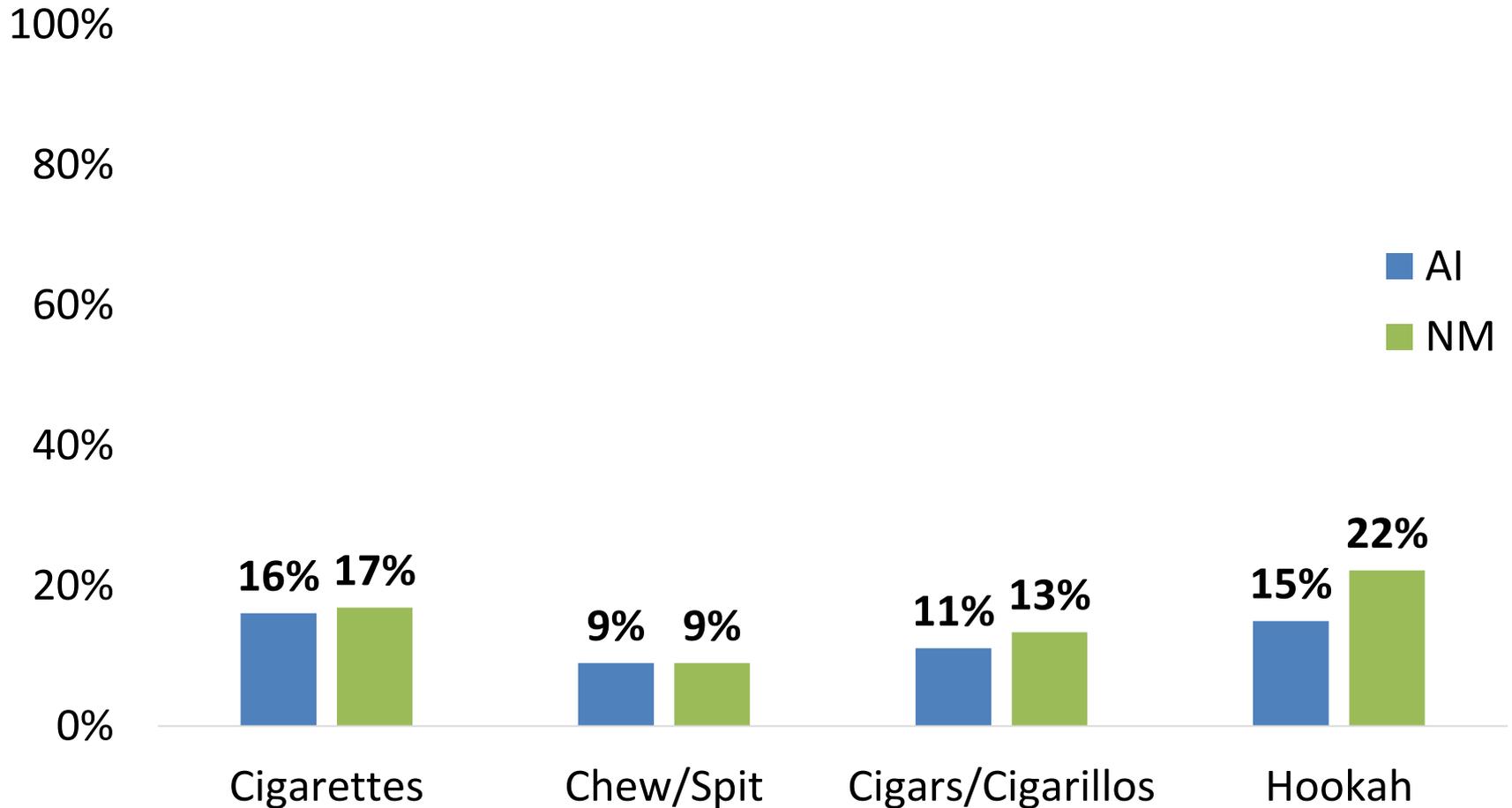
Cigarette Smoking (*past 30 Days*) Grades 6-12 – NM 2013



Source: NM YRRS 2013

Tobacco Use (*past 30 Days*) by Type

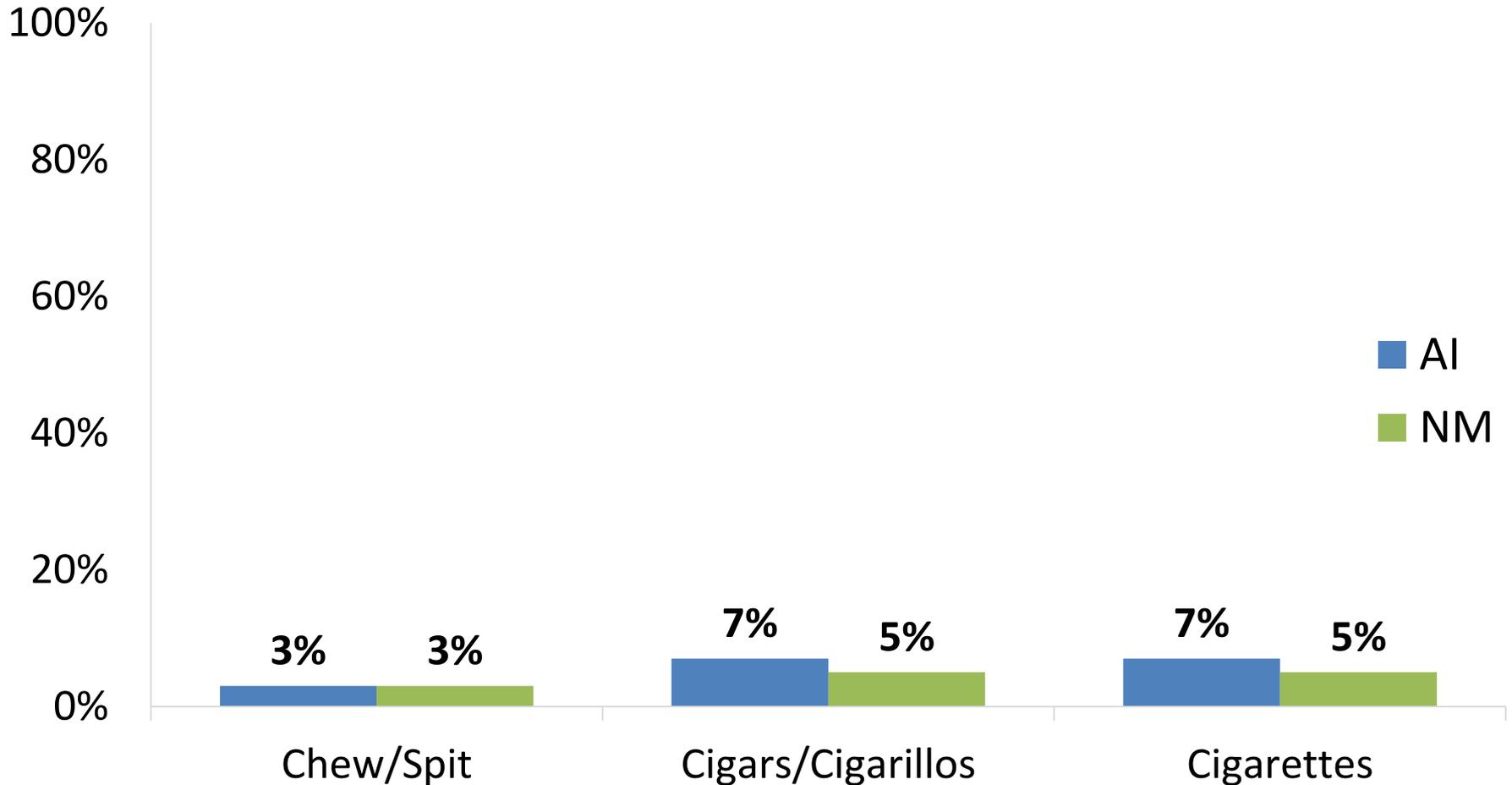
High School – NM 2013



Source: NM YRRS 2013

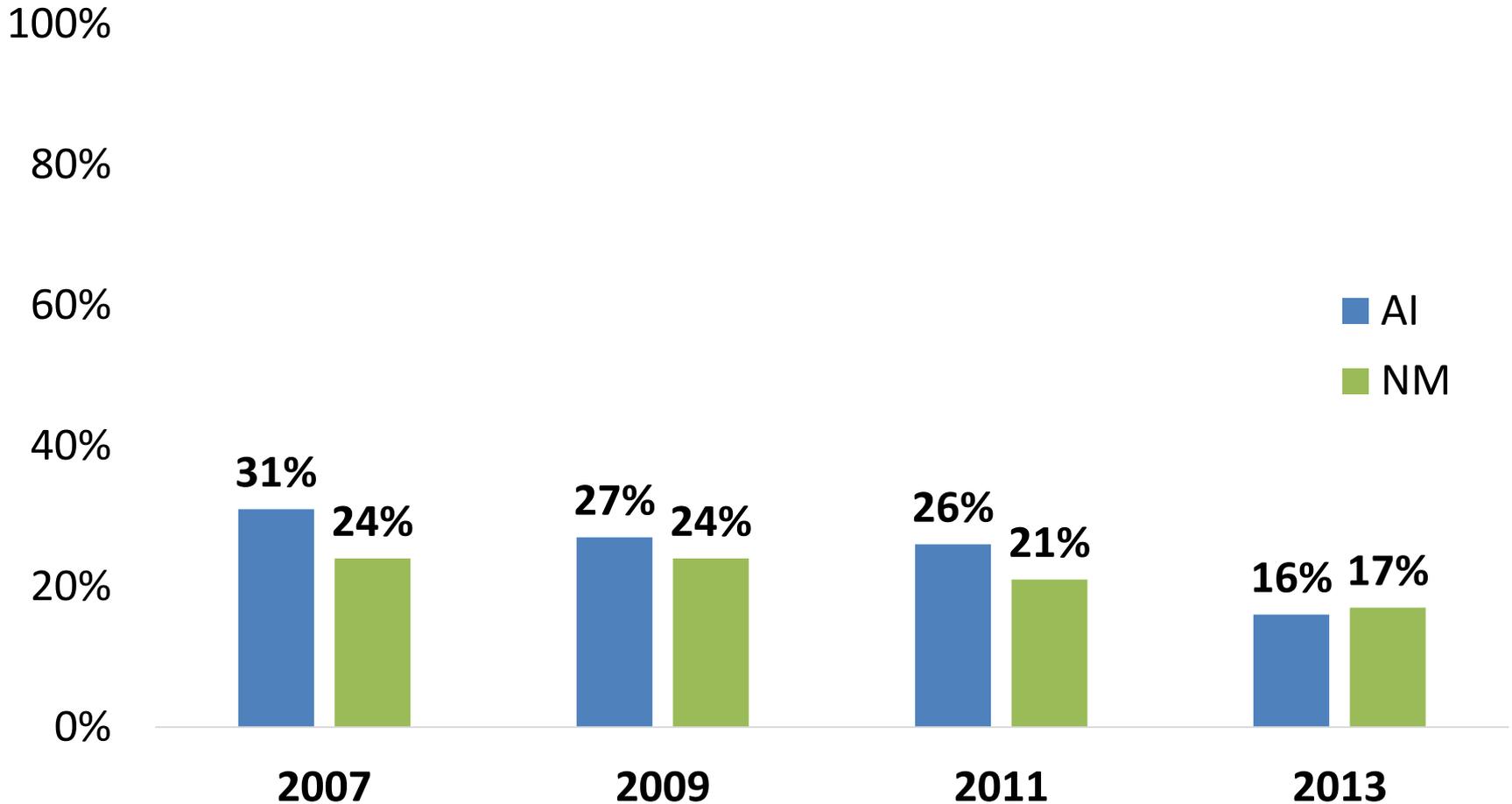
Tobacco Use (*past 30 Days*) by Type

Middle School – NM 2013



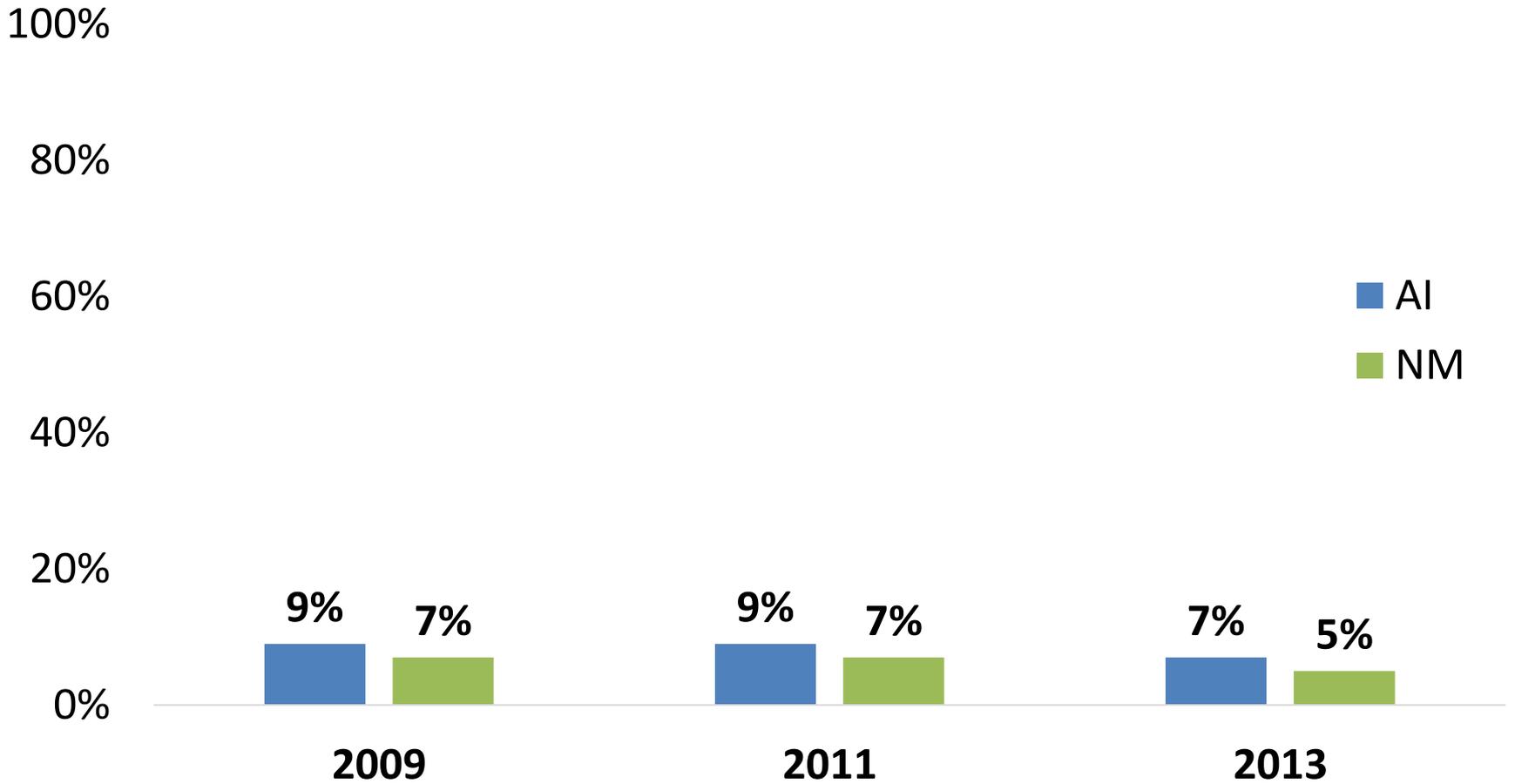
Source: NM YRRS 2013

Cigarette Smoking (*past 30 Days*) High School Trend Data



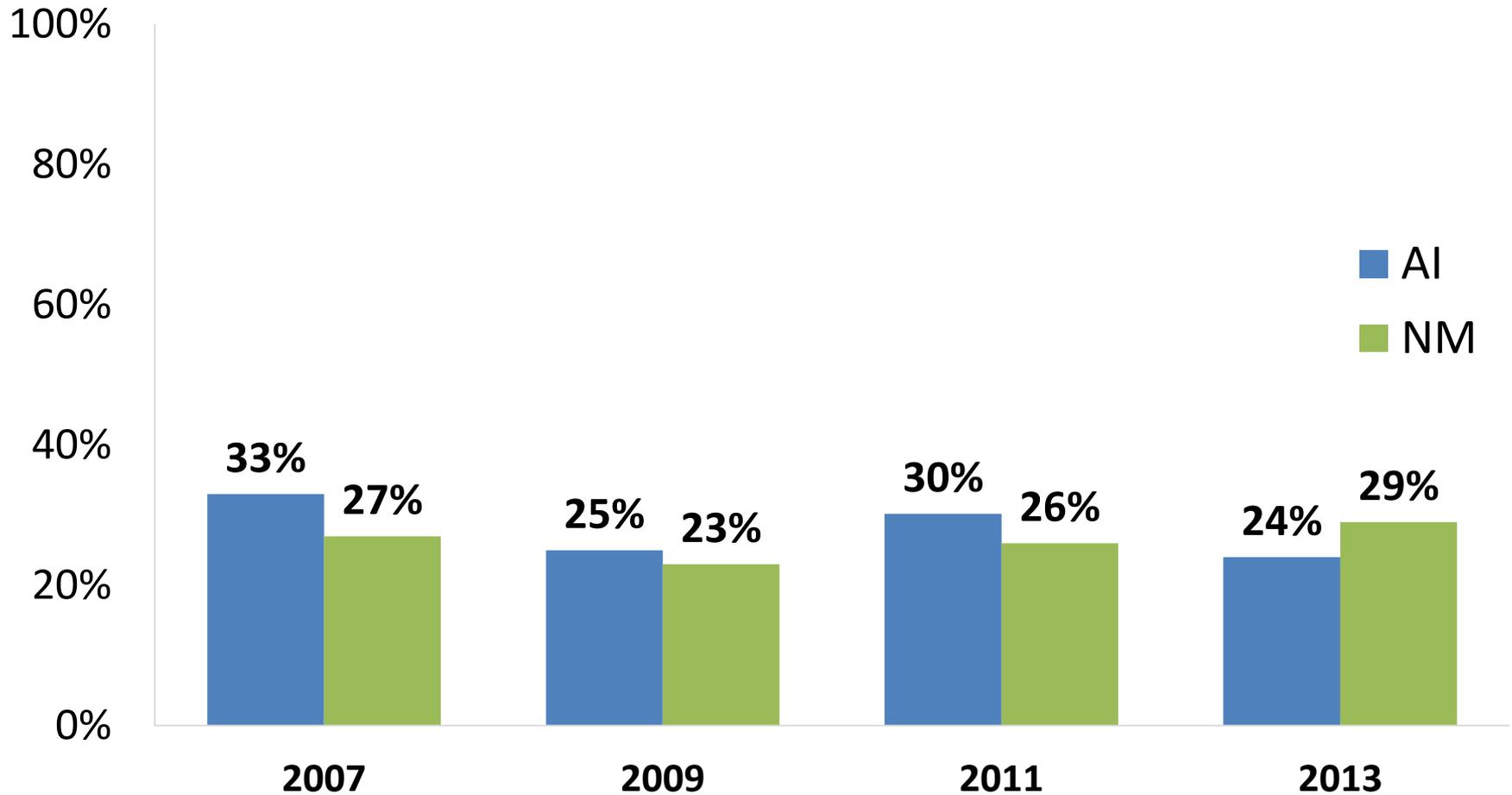
Source: NM YRRS

Cigarette Smoking (*past 30 Days*) Middle School Trend Data



Source: NM YRRS

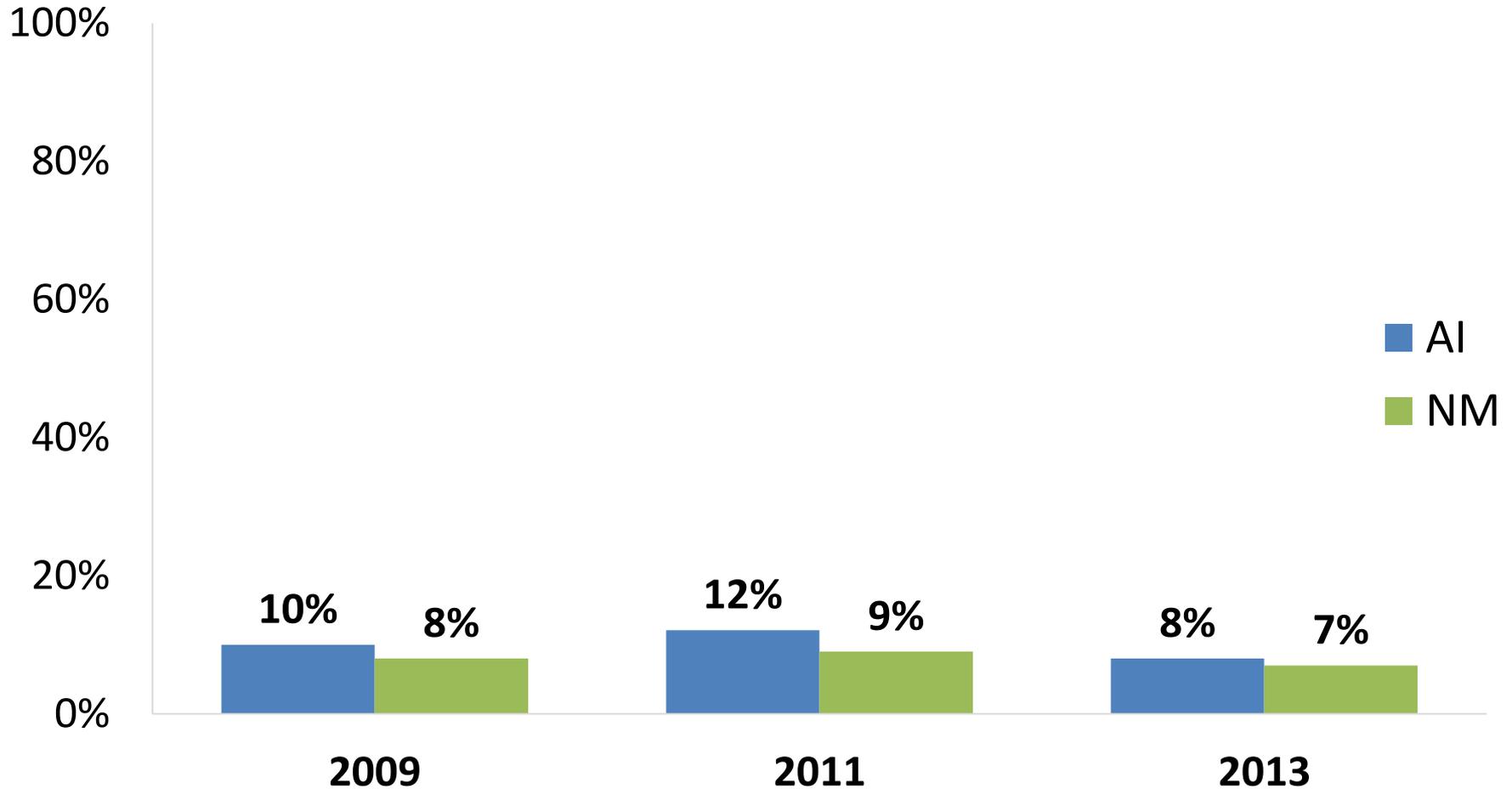
Any Tobacco Use High School Trend Data



Source: NM YRRS

Any Tobacco Use

Middle School Trend Data



Source: NM YRRS

Cigarette Use Frequency

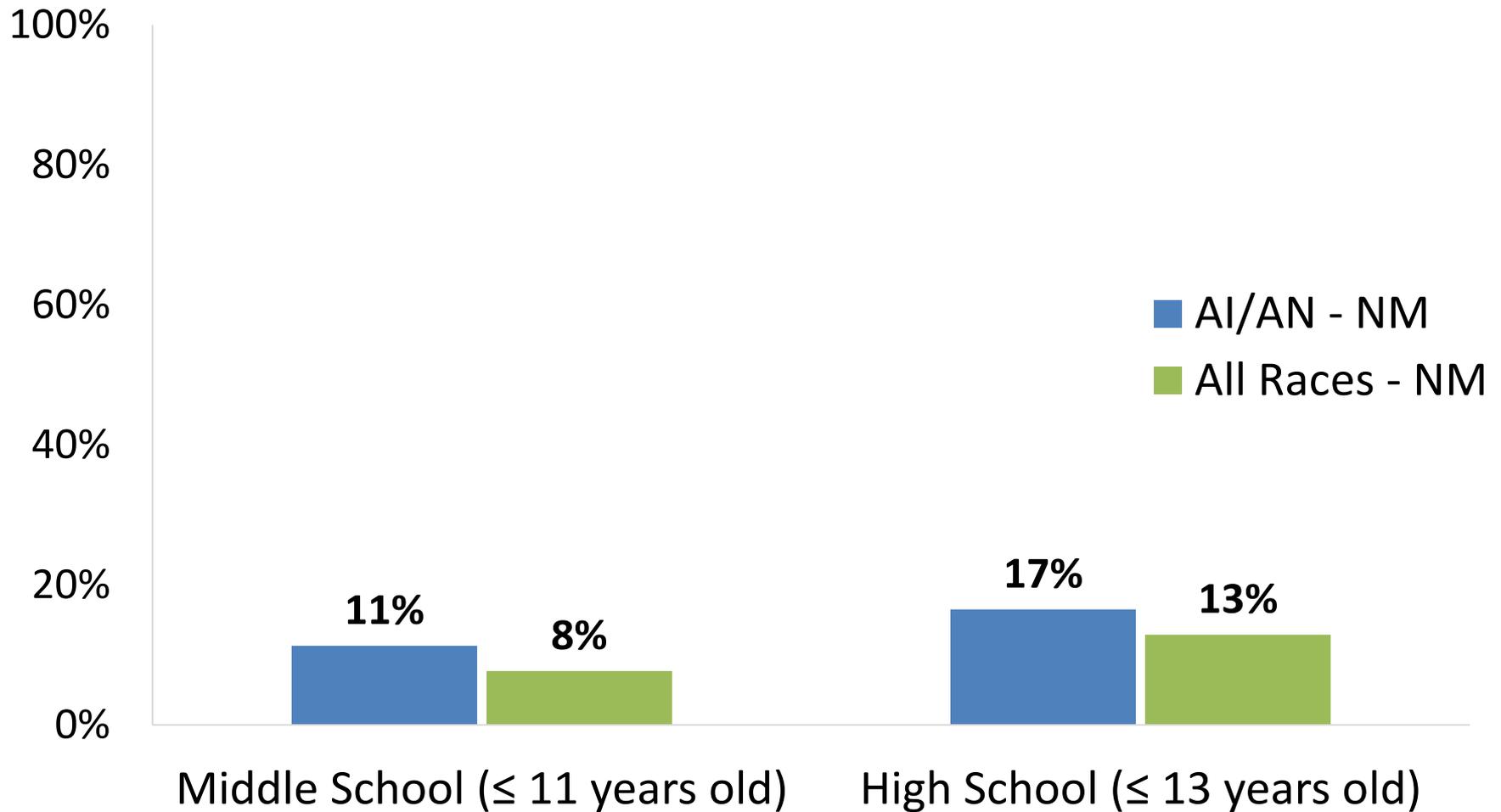
High School – NM 2013

	Any Cigarette Use Past 30 days	Smoked all 30 Days*	Heavy Use (11+ per day)*
American Indian	16.1%	14.9%	2.9%
NM (All Races)	16.9%	21.3%	6.1%

*Among Current Smokers Only

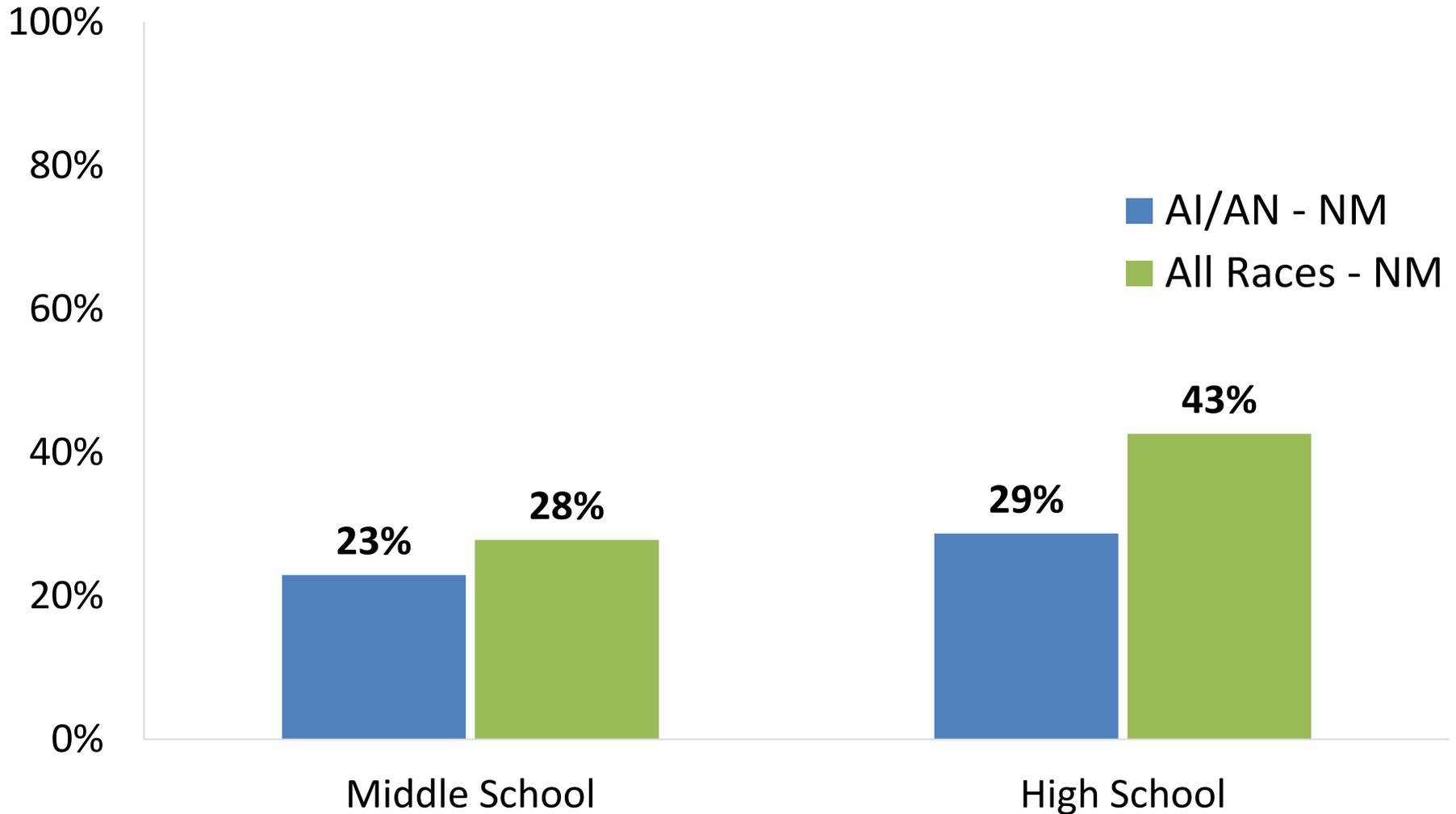
Source: NM YRRS

Early Onset Cigarette Use NM 2013



Source: NM YRRS

In Same Room as Smoker Past 7 Days



Source: NM YRRS

Method of Obtaining Cigarettes AI Students – NM 2013

METHOD	HIGH SCHOOL	MIDDLE SCHOOL
Borrowed/Bummed	25.9%	18.8%
Bought in Store	22.8%	6.2%
Gave \$ to Someone Else to Purchase	16.0%	18.5%
Took from Store/Family Member	5.9%	17.2%
Other	29.4%	39.3%

Source: NM YRRS

Protective/Risk Factors AI High School Students – NM 2013

	Odds Ratio	95% CI
Plans to attend college	0.31	(0.18 – 0.56)
Parent/guardian knows where I am	0.32	(0.19 – 0.54)
Participates in sports, clubs at school	0.38	(0.25 – 0.58)
Participates in any extracurricular activity	0.51	(0.34 – 0.78)
There is a teacher/adult who listens to me	0.54	(0.35 – 0.82)
Knows adults who use drugs	3.39	(2.21 – 5.20)
Skipped school once/month	3.86	(2.54 – 5.85)
Current marijuana use	8.15	(4.97 – 13.36)
Current drinker (≥ 1 time in past 30 days)	10.94	(7.20 – 16.63)

Protective/Risk Factors

AI Middle School Students – NM 2013

	Odds Ratio	95% CI
Parent/guardian knows where I am	0.21	(0.12 – 0.35)
Mostly A's and B's	0.27	(0.17 – 0.45)
Thinks secondhand smoke is harmful	0.33	(0.22 – 0.51)
Participates in group activities in community	0.58	(0.36 – 0.94)
Exposed to secondhand smoke (past 7 days)	7.92	(5.18 – 12.10)
Any Drug Use Ever*	12.82	(7.83 – 21.00)
Current drinker (≥1 time in past 30 days)	13.42	(8.52 – 21.12)
First smoked before age 11	17.41	(10.50 – 28.84)

* Marijuana, synthetic marijuana, cocaine, prescription drugs, painkillers, and injectable drugs

E-Cigarettes – 2015 NM YRRS

ELECTRONIC VAPOR PRODUCTS

The next 2 questions ask about electronic vapor products, such as blu, NJOY, or Starbuzz. Electronic vapor products include e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens.

45 Have you ever used an electronic vapor product?

- A Yes
 - B No
-

46 During the past 30 days, on how many days did you use an electronic vapor product?

- A 0 days
- B 1 or 2 days
- C 3 to 5 days
- D 6 to 9 days
- E 10 to 19 days
- F 20 to 29 days
- G All 30 days

Commercial vs. Ceremonial Tobacco Use

Excluding ceremonial or sacred use, during the past 30 days, on how many days did you smoke cigarettes?

- 0 days
- 1 or 2 days
- 3 to 5 days
- 6 to 9 days
- 10 to 19 days
- 20 to 29 days
- All 30 days



Adult Tobacco-Related Data Sources

NEW MEXICO DEPARTMENT OF HEALTH

- BRFSS
- YRRS

TRIBAL BRFSS – AASTEC

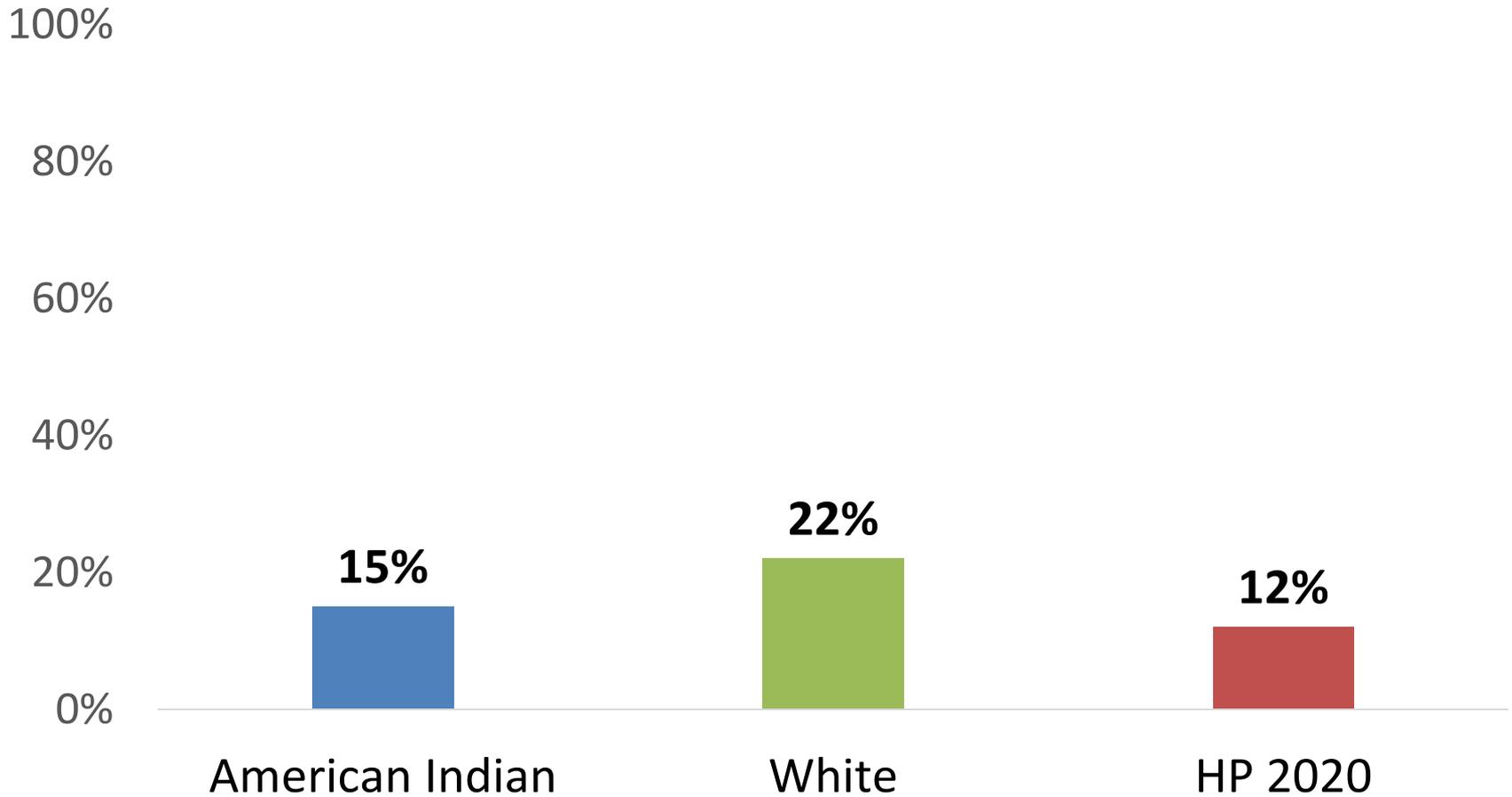
INDIAN HEALTH SERVICE

- RPMS
- GPRA
- EpiDataMart

PRAMS

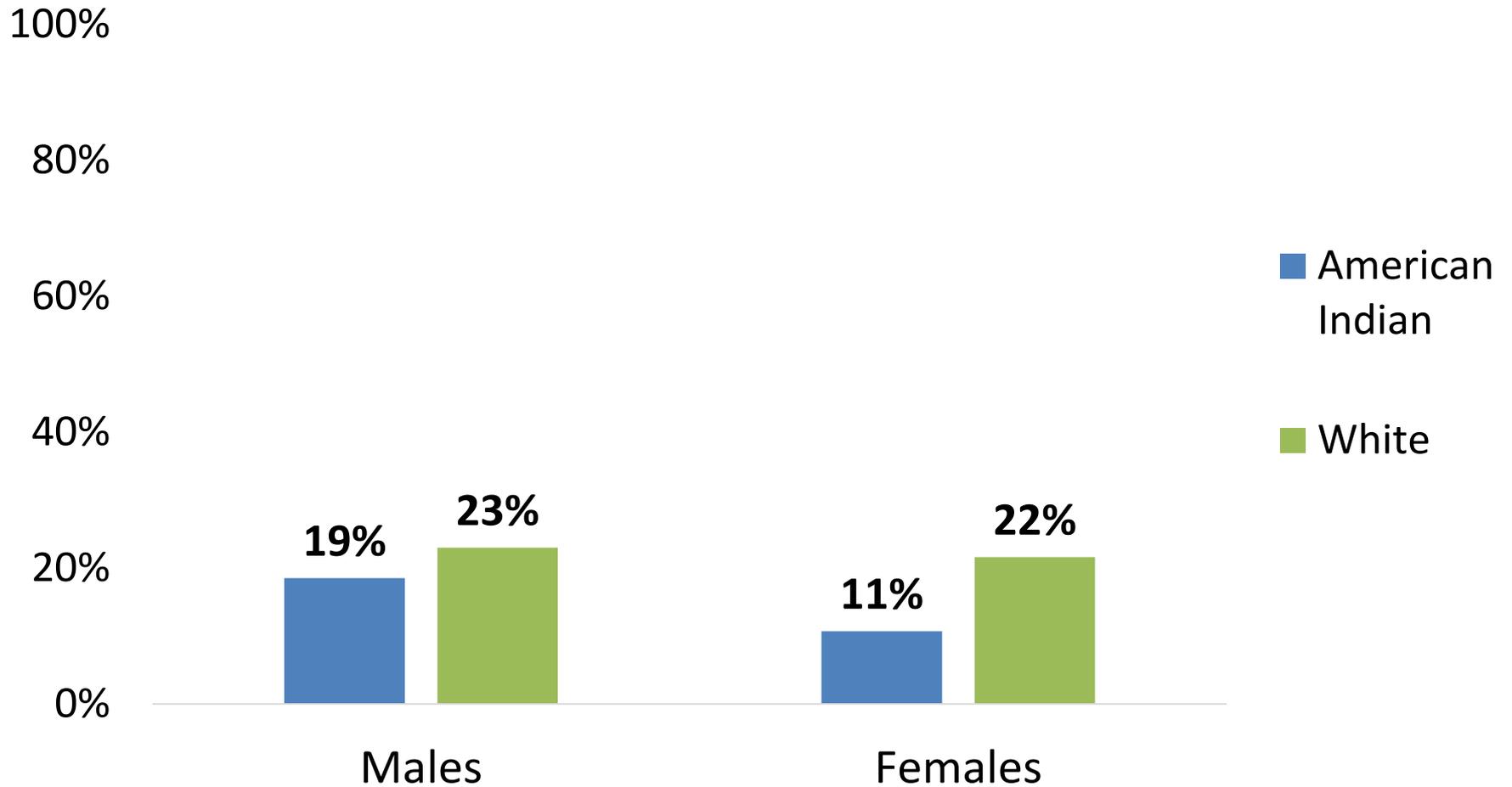


Current Smoker (Adults 18+) New Mexico



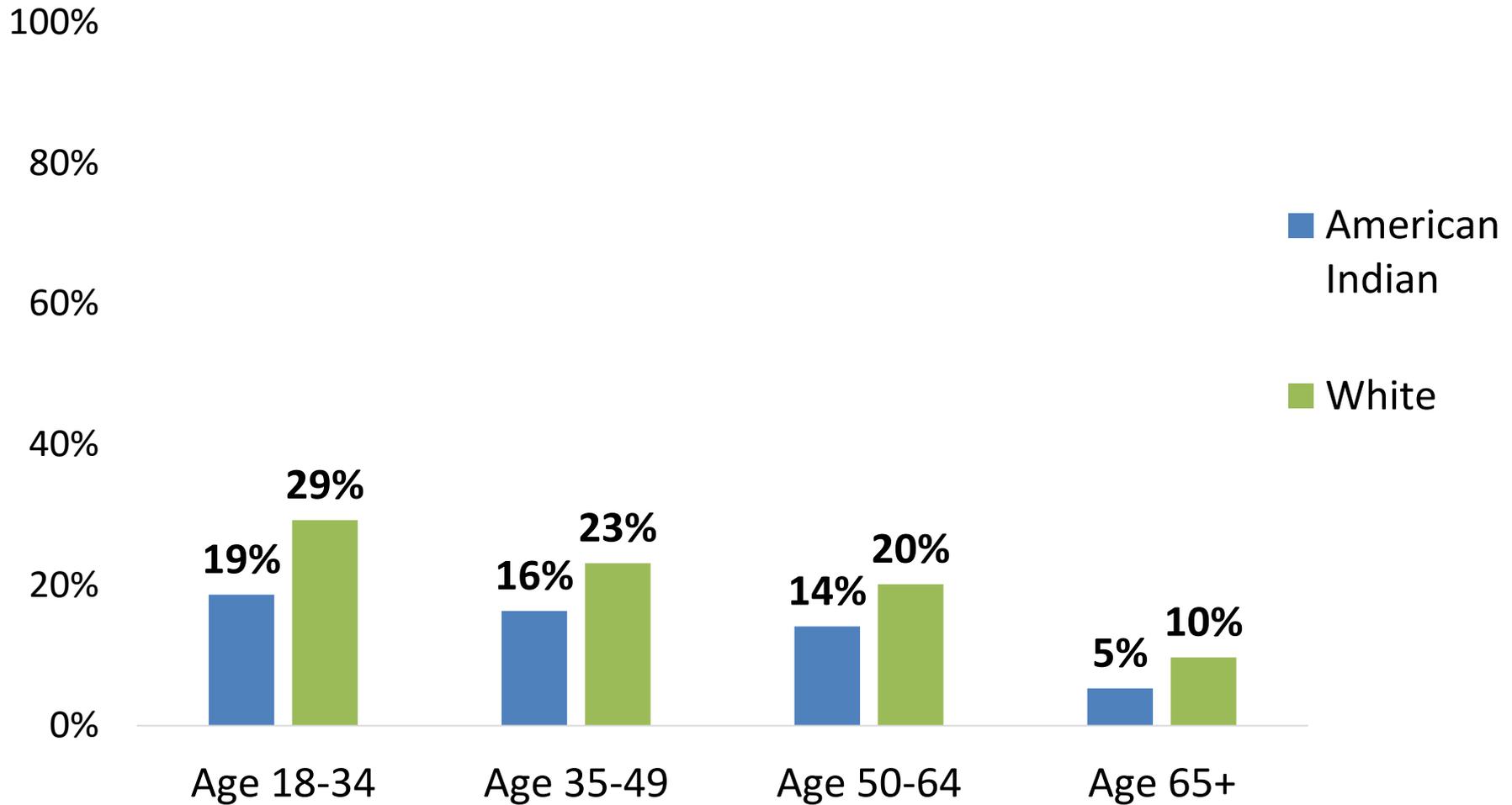
Source: NM BRFSS 2013

Current Smoker (Age 18+) NM – By Gender



Source: NM BRFSS 2013

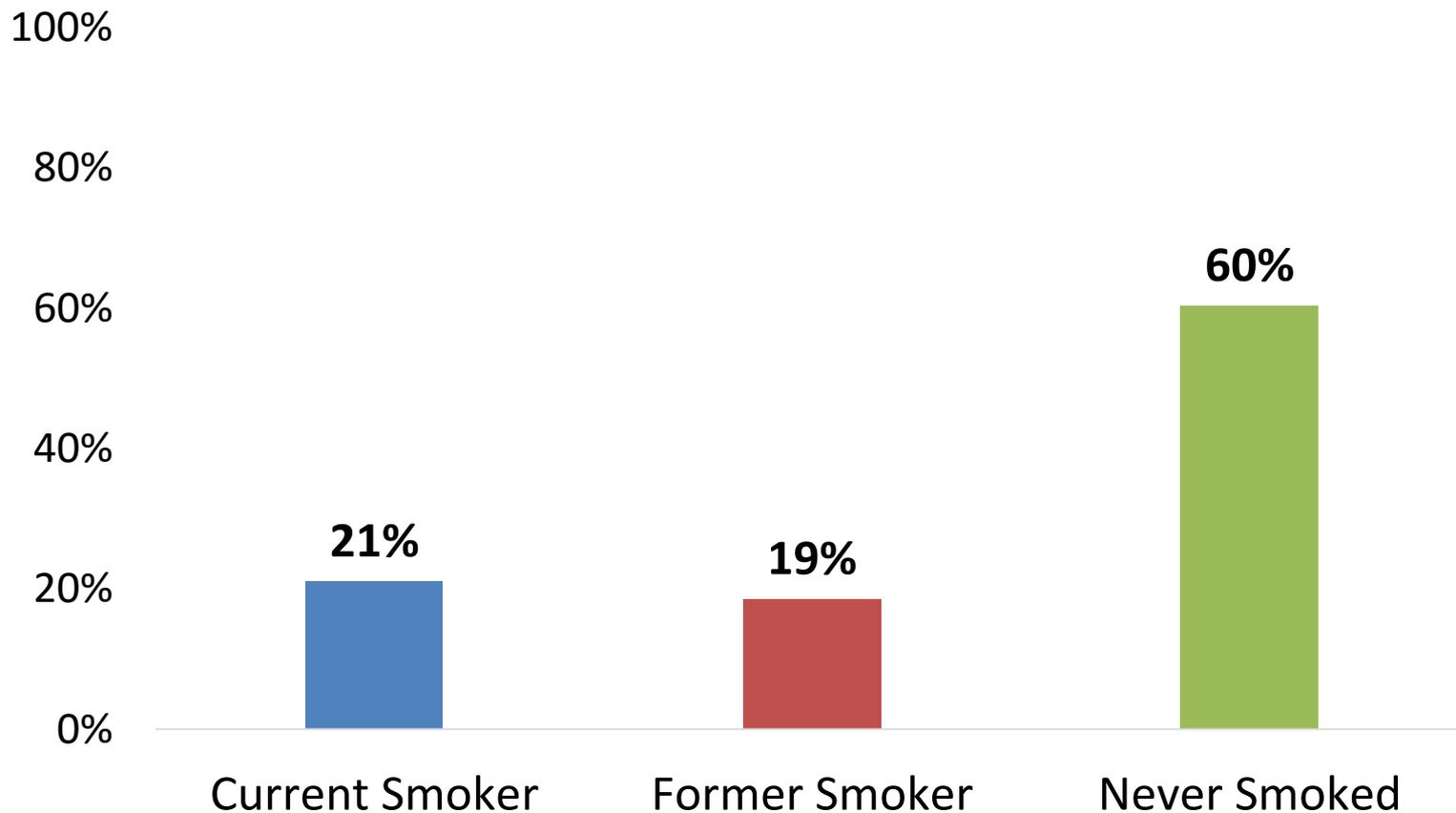
Current Smoker New Mexico – By Age Group



Source: NM BRFSS 2013

TRIBAL BRFSS 2007-2013

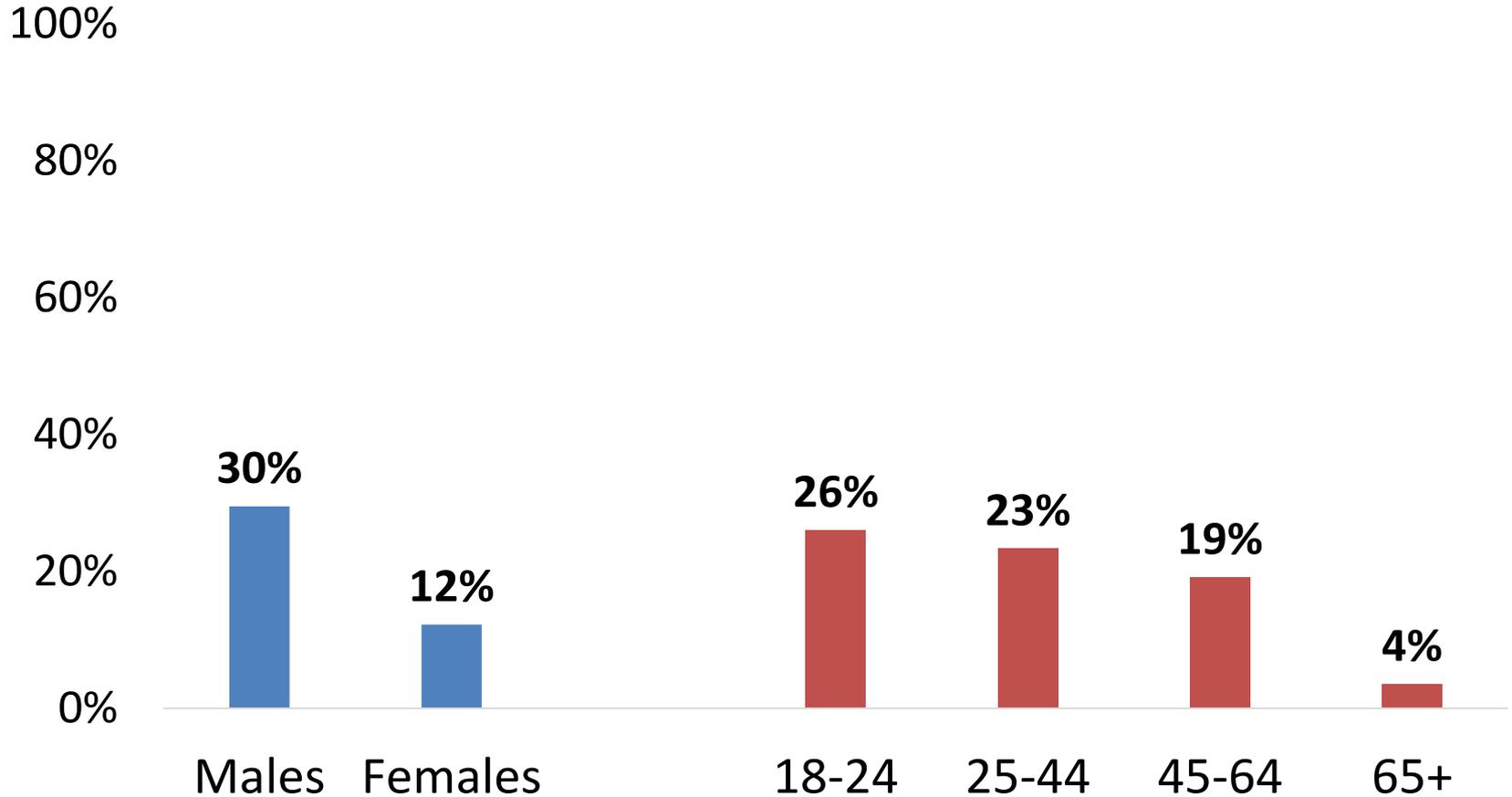
Current Smoking Status (Adults) 11 Tribes



Source: Tribal BRFSS 2007-2013

TRIBAL BRFSS 2007-2013

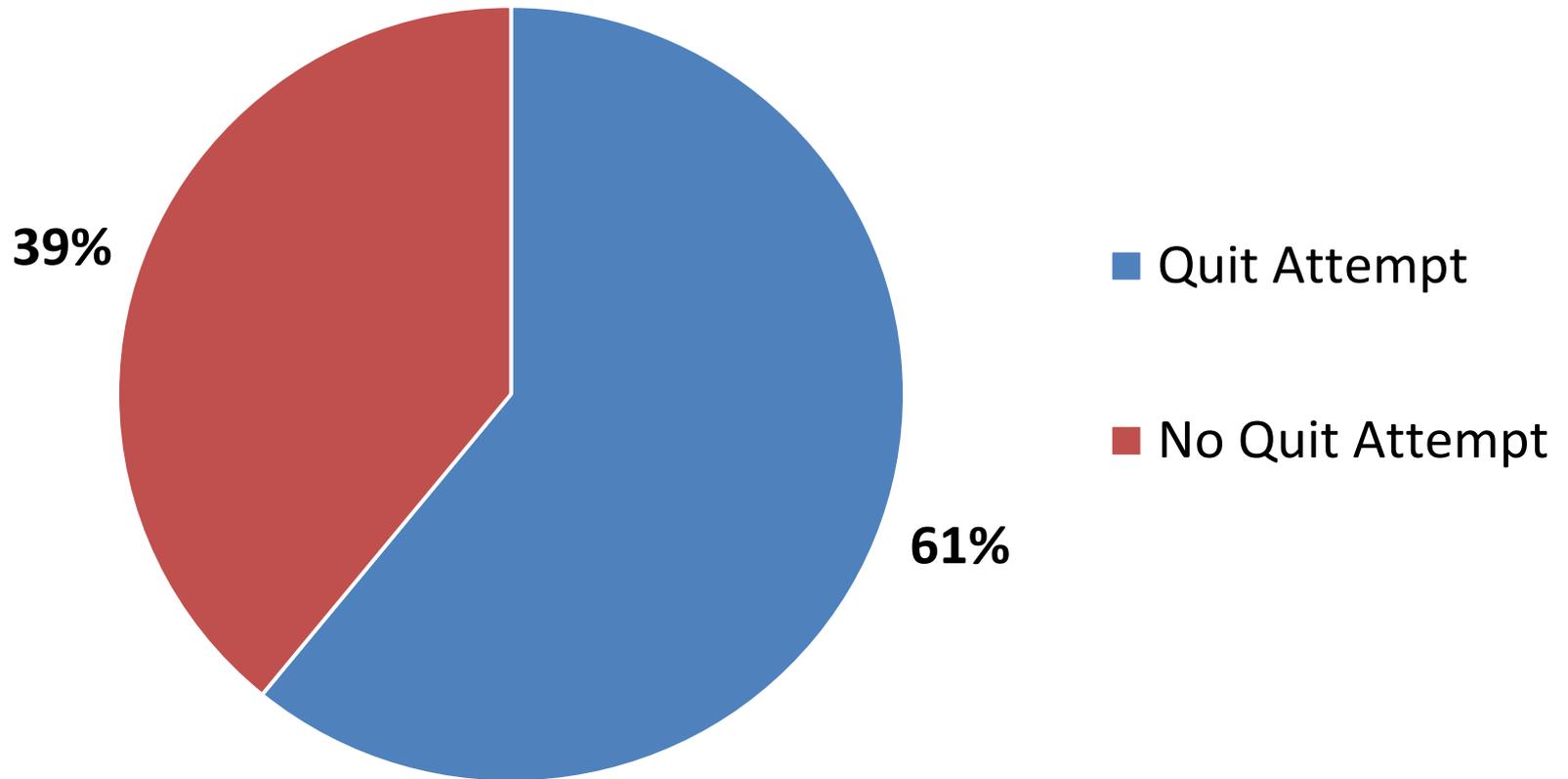
Current Smoker – By Age & Gender (11 Tribes)



Source: Tribal BRFSS 2007-2013

TRIBAL BRFSS 2007-2013

Quit Attempts* – Current Smokers (11 Tribes)



*Past 12 months

Source: Tribal BRFSS 2007-2013

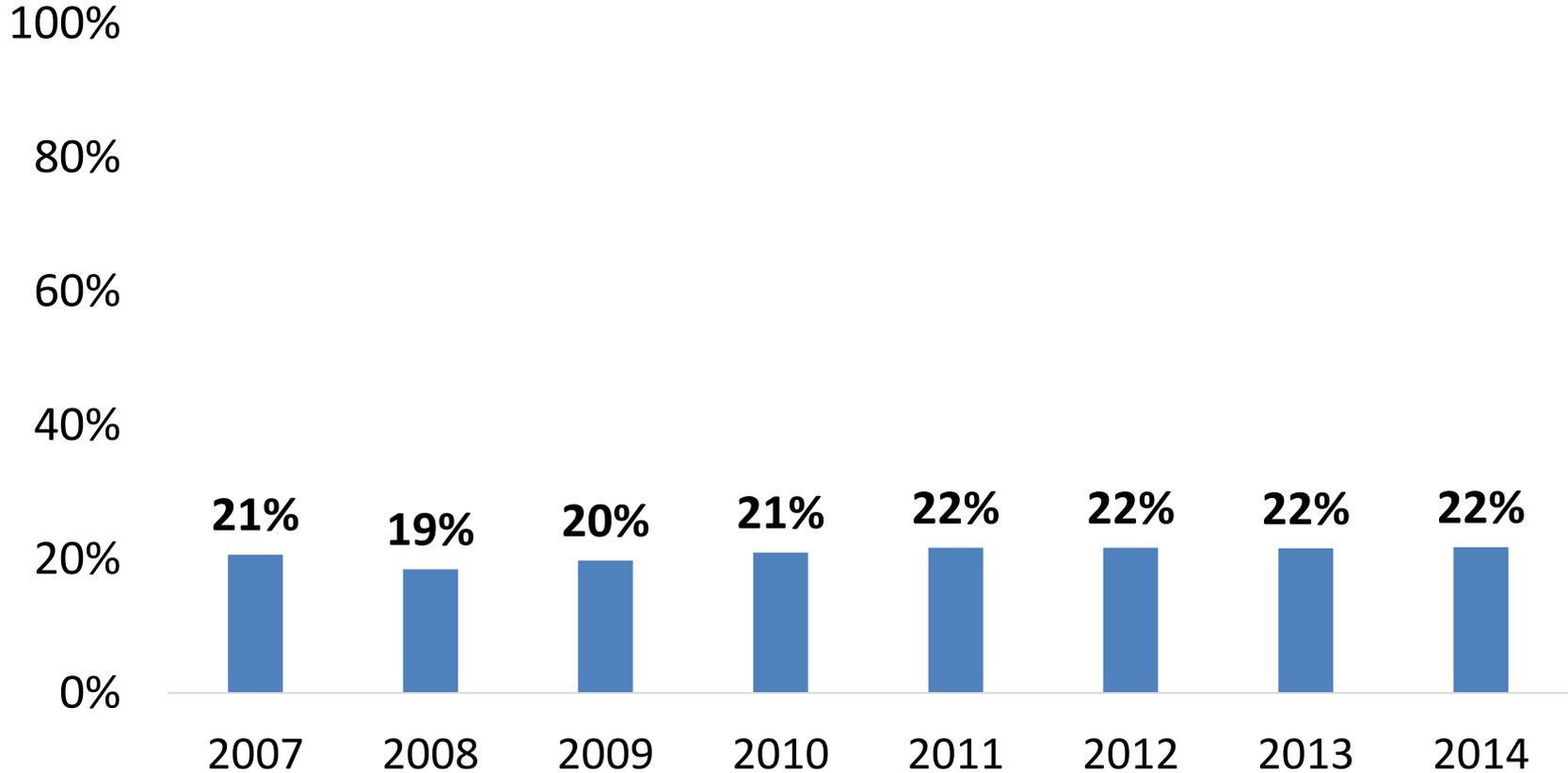
TRIBAL BRFSS 2007-2013

Other Tobacco Related Measures – 11 Tribes

Measure	Percentage	95% CI
Current Chewing Tobacco Use	6.7%	5.6 – 7.9
Health Care Provider Talked to Current Smoker about the Risks of Tobacco Use	61.7%	57.5 – 66.0
Health Care Provider Advised Current Smoker to Stop Smoking	35.4%	31.2 – 39.5
Would Like More Tobacco Cessation Services at IHS/Tribal Health Facility	57.5%	53.1 – 61.9

Trends in Tobacco Use (Adults)

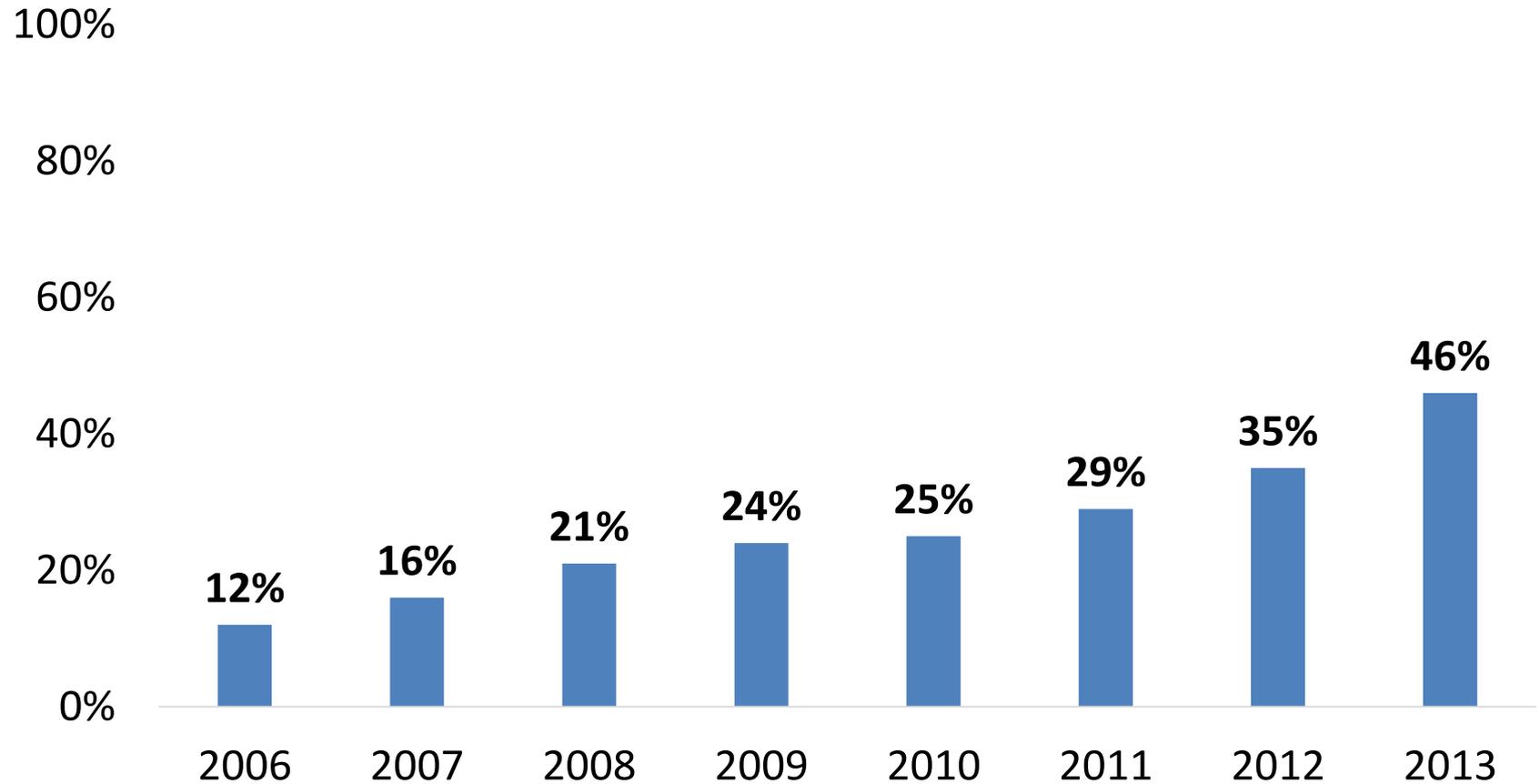
IHS Albuquerque Area



Source: IHS EpidataMart

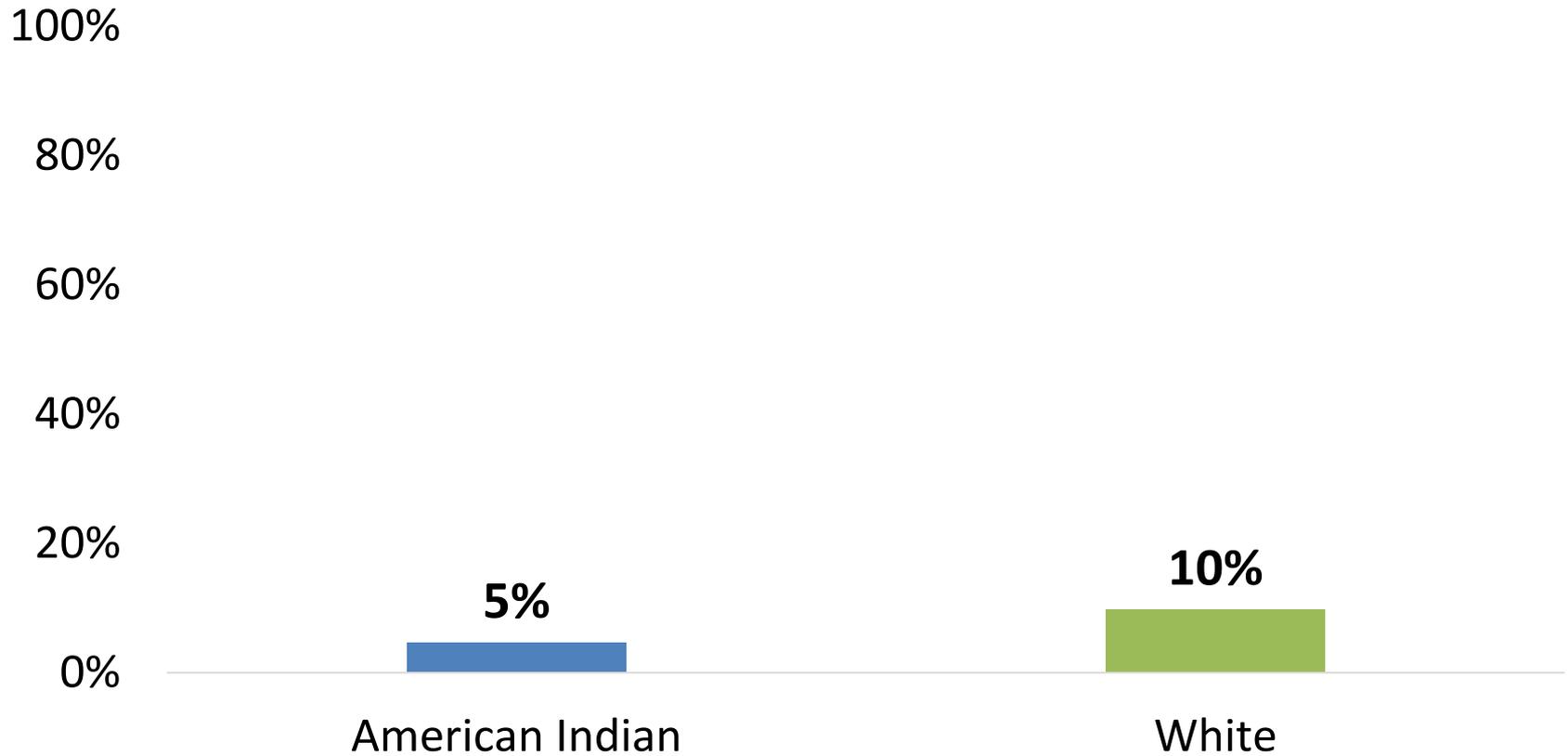
Tobacco Cessation Intervention Past Year

IHS Albuquerque Area



Source: IHS GPRA

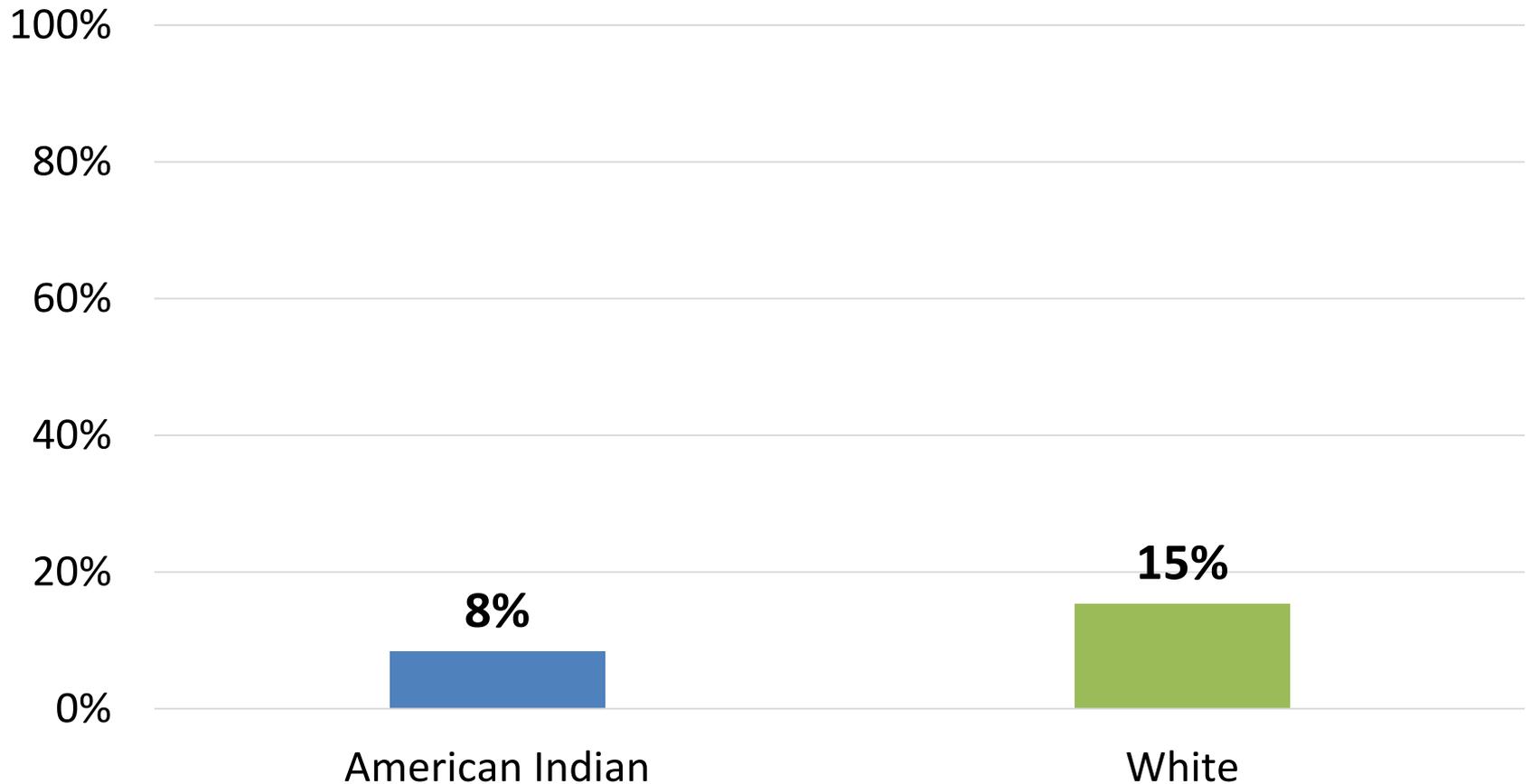
Cigarette Use During Pregnancy New Mexico 2000-2011



Source: NM PRAMS

Cigarette Use After Pregnancy

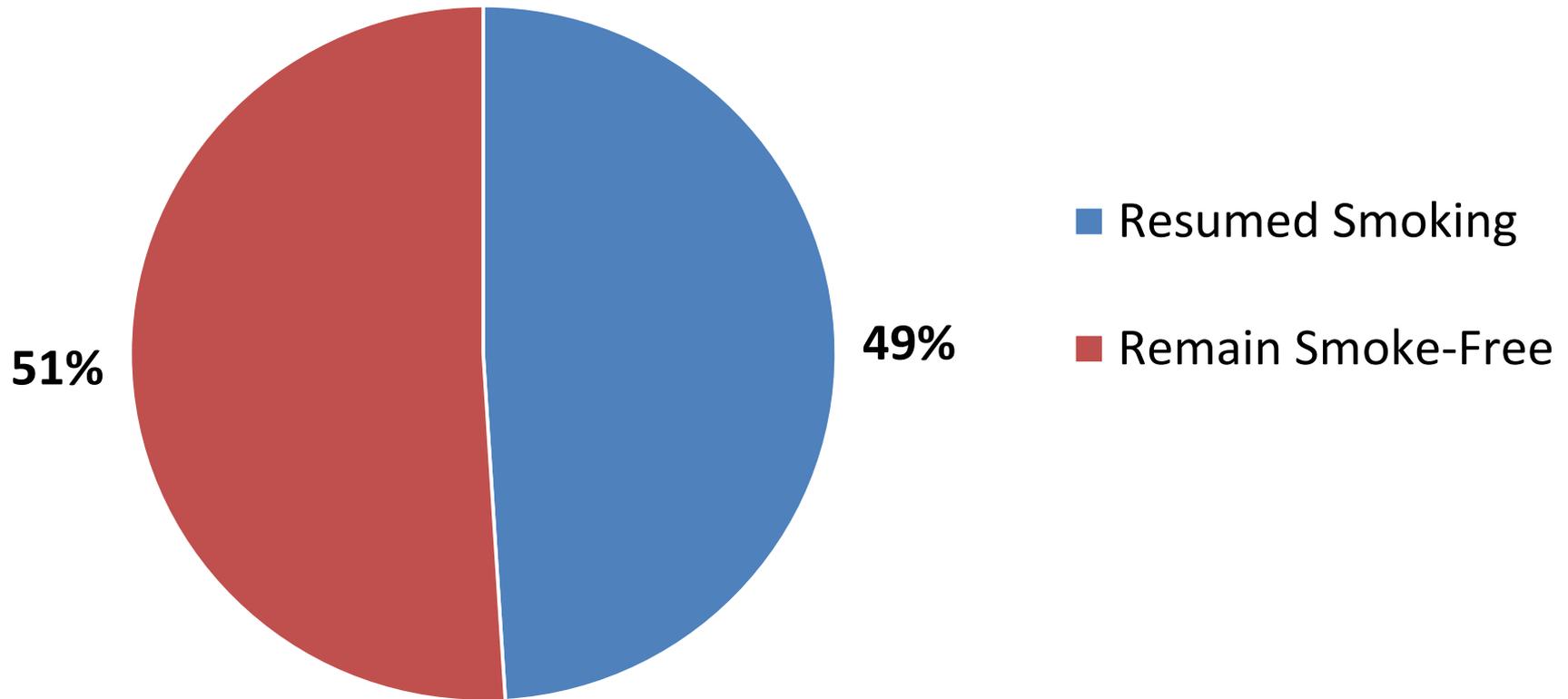
New Mexico 2000-2011



Source: NM PRAMS

Postpartum Cigarette Use Relapse*

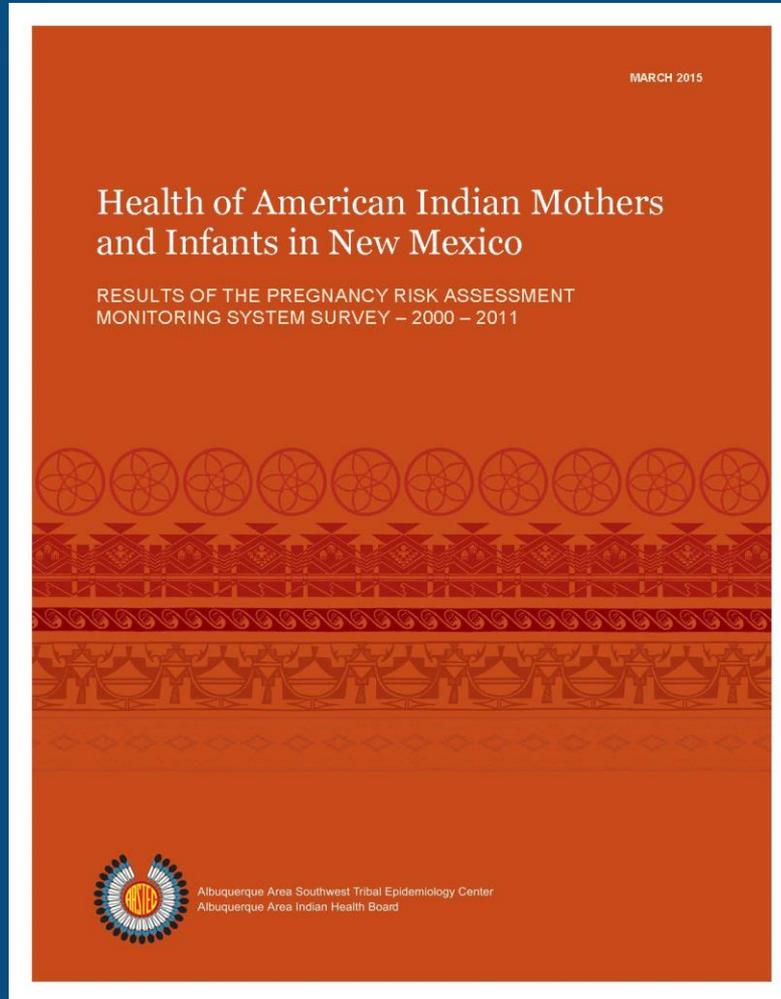
American Indian Women NM 2000-2011



*Within 3-9 months post delivery

Source: NM PRAMS

Health of AI Mothers & Infants Report



Albuquerque Area Southwest Tribal Epidemiology Center

AASTEC website @ www.aastec.net

ALBUQUERQUE AREA SOUTHWEST



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