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Childhood Vaccine Rates in Nevada

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Agenda

1. Nevada State Immunization Program
2. Nevada WebIZ
3. Advisory Committee on Immunization Practices
4. Nevada School Requirements
5. Childhood Vaccines
6. Adolescent Vaccines
7. Questions



Nevada State Immunization Program

- The Nevada State Immunization Program (NSIP) works with Nevada's local health departments, hospitals, schools and clinics to facilitate vaccine distribution and programs.
- NSIP's focus is ensuring equitable vaccination access across Nevada's population. NSIP is a trusted immunization resource and promotes a culture embracing immunization to protect the public from vaccine-preventable disease.
- NSIP manages NV WebIZ, Nevada's Immunization Information System (IIS).
- NSIP manages publicly funded vaccine programs including, Vaccines for Children (VFC) and other federal and State programs targeting underserved and vulnerable populations.





Nevada WebIZ

- Nevada WebIZ is Nevada’s Immunization Information System (IIS).
- An IIS is a confidential, population-based, computerized database that records all immunizations administered by participating providers to persons within a given geopolitical area.
- All vaccinating providers in Nevada are required to report into WebIZ
 - NRS 439.265; NAC 439.870-439.897.
- As of 7/7/2022, WebIZ reported approximately:
 - 5.1 million patient records, including non-Nevada residents
 - 52 million vaccines administered
 - 1,900 providers representing 3,000 clinic locations





Nevada WebIZ continued...

- Limitations:
 - Not all fields are well-populated in the IIS (e.g., Race/Ethnicity, Patient County) so not all data can be analyzed
 - Population of patients in NV WebIZ may not reflect the true population of Nevada (e.g., people who live out of state): Using NV WebIZ as denominator usually causes an underestimation of protection rates
 - Using State Demographer data as denominator usually causes an overestimation of protection rates
- Coverage for young children are usually the most accurate; coverage for adolescents are usually an underestimate of true coverage. This is due to increased opportunity for individuals to move out of a jurisdiction & not be inactivated within NV WebIZ (difficult to track migration)

Advisory Committee on Immunization Practices (ACIP)

- Medical and public health experts who develop recommendations on the use of vaccines in the United States.
- The recommendations stand as public health guidance for safe use of vaccines.
- Providers enrolled with NSIP, school nurses and daycare providers all follow the ACIP recommended vaccine schedule





Nevada School-Required Vaccines

- Pre-K and Kindergarten Requirements:
 - DT, DTaP – 4 or 5 doses
 - MMR – 2 doses
 - Varicella – 2 doses
 - Polio – IPV 3 or 4 doses
 - Hepatitis A – 2 doses
 - Hepatitis B – 3 doses
- 7th Grade Requirements:
 - Tdap – 1 dose
 - MenACWY – 1 dose on or after 10 years of age to enter 7th grade
- 12th Grade Requirements:
 - MenACWY – 1 dose on or after 16 years of age to enter 12th grade
- University Requirements:
 - TD or Tdap
 - MMR
 - MenACWY

Childhood Vaccination Schedule

Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19-23 mos	2-3 yrs	4-6 yrs	7-10 yrs	11-12 yrs	13-15 yrs	16 yrs	17-18 yrs	
Hepatitis B (HepB)	1 st dose	← 2 nd dose →			← 3 rd dose →													
Rotavirus (RV): RV1 (2-dose series), RV5 (3-dose series)			1 st dose	2 nd dose	See Notes													
Diphtheria, tetanus, acellular pertussis (DTaP <7 yrs)			1 st dose	2 nd dose	3 rd dose				← 4 th dose →			5 th dose						
<i>Haemophilus influenzae</i> type b (Hib)			1 st dose	2 nd dose	See Notes			← 3 rd or 4 th dose, See Notes →										
Pneumococcal conjugate (PCV13)			1 st dose	2 nd dose	3 rd dose			← 4 th dose →										
Inactivated poliovirus (IPV <18 yrs)			1 st dose	2 nd dose	← 3 rd dose →						4 th dose							
Influenza (IIV)					Annual vaccination 1 or 2 doses								Annual vaccination 1 dose only					
or													or					
Influenza (LAIV4)												Annual vaccination 1 or 2 doses	Annual vaccination 1 dose only					
Measles, mumps, rubella (MMR)					See Notes		← 1 st dose →					2 nd dose						
Varicella (VAR)							← 1 st dose →					2 nd dose						
Hepatitis A (HepA)					See Notes	2-dose series, See Notes												
Tetanus, diphtheria, acellular pertussis (Tdap ≥7 yrs)															Tdap			
Human papillomavirus (HPV)														*	See Notes			
Meningococcal (MenACWY-D ≥9 mos, MenACWY-CRM ≥2 mos, MenACWY-TT ≥2years)			See Notes												1 st dose		2 nd dose	
Meningococcal B															See Notes			
Pneumococcal polysaccharide (PPSV23)															See Notes			

Range of recommended ages for all children

Range of recommended ages for catch-up immunization

Range of recommended ages for certain high-risk groups

Recommended based on shared clinical decision-making or *can be used in this age group

No recommendation/ not applicable

Recommended Infant Vaccine 7-Series

≥ 4
doses

- DTaP – Diphtheria-Tetanus-Pertussis
- PCV – Pneumococcal

≥ 3
doses

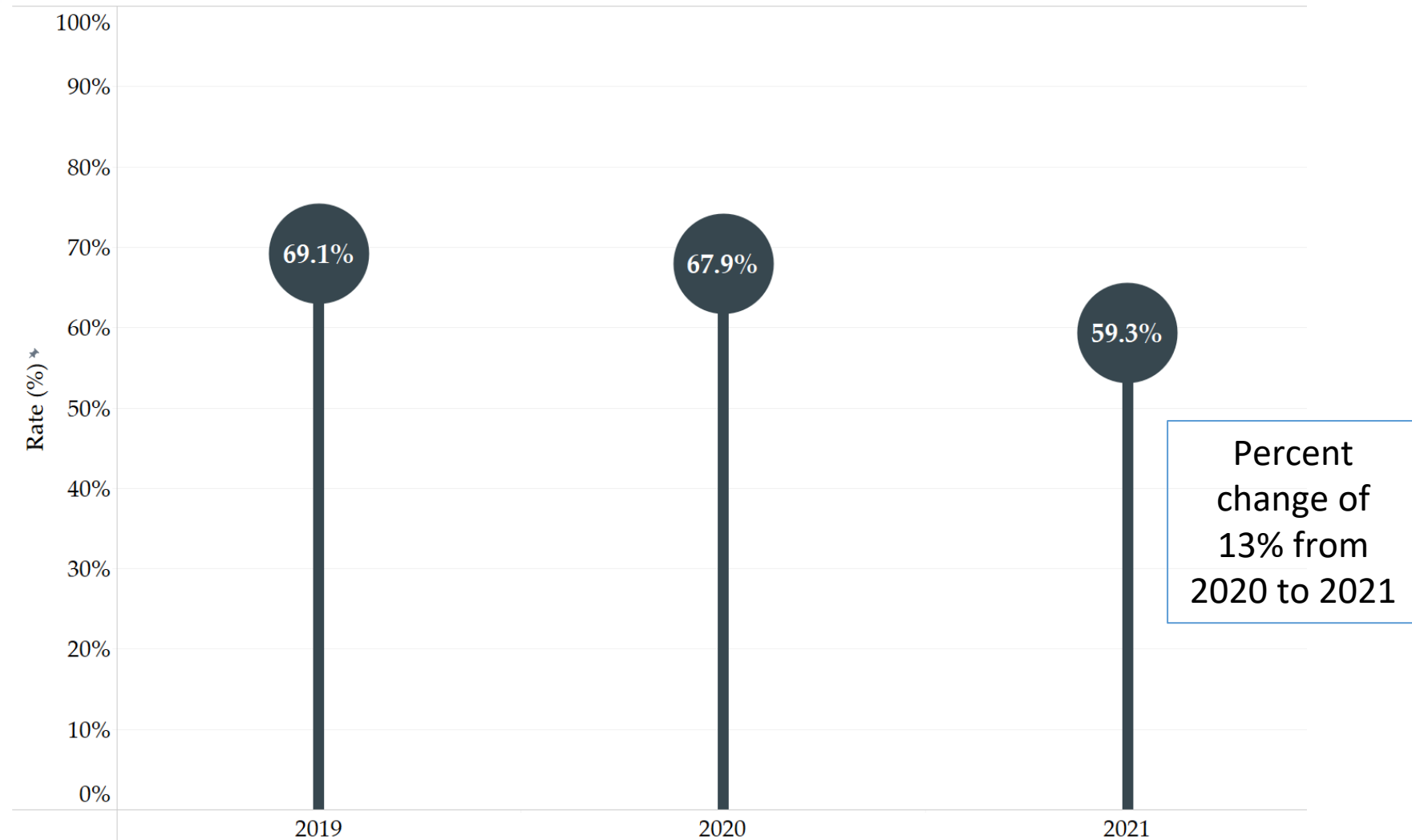
- HepB – Hepatitis B
- Hib – *haemophilus influenzae* type b*
- IPV – Inactivated Poliovirus

≥ 1 dose

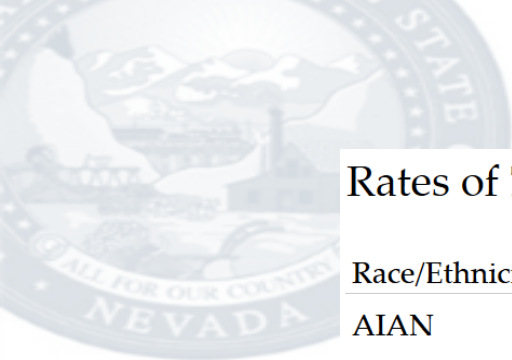
- MMR – Measles, mumps, rubella
- VAR – Varicella

Infant 7-series Vaccination Rates in NV 2019-2021

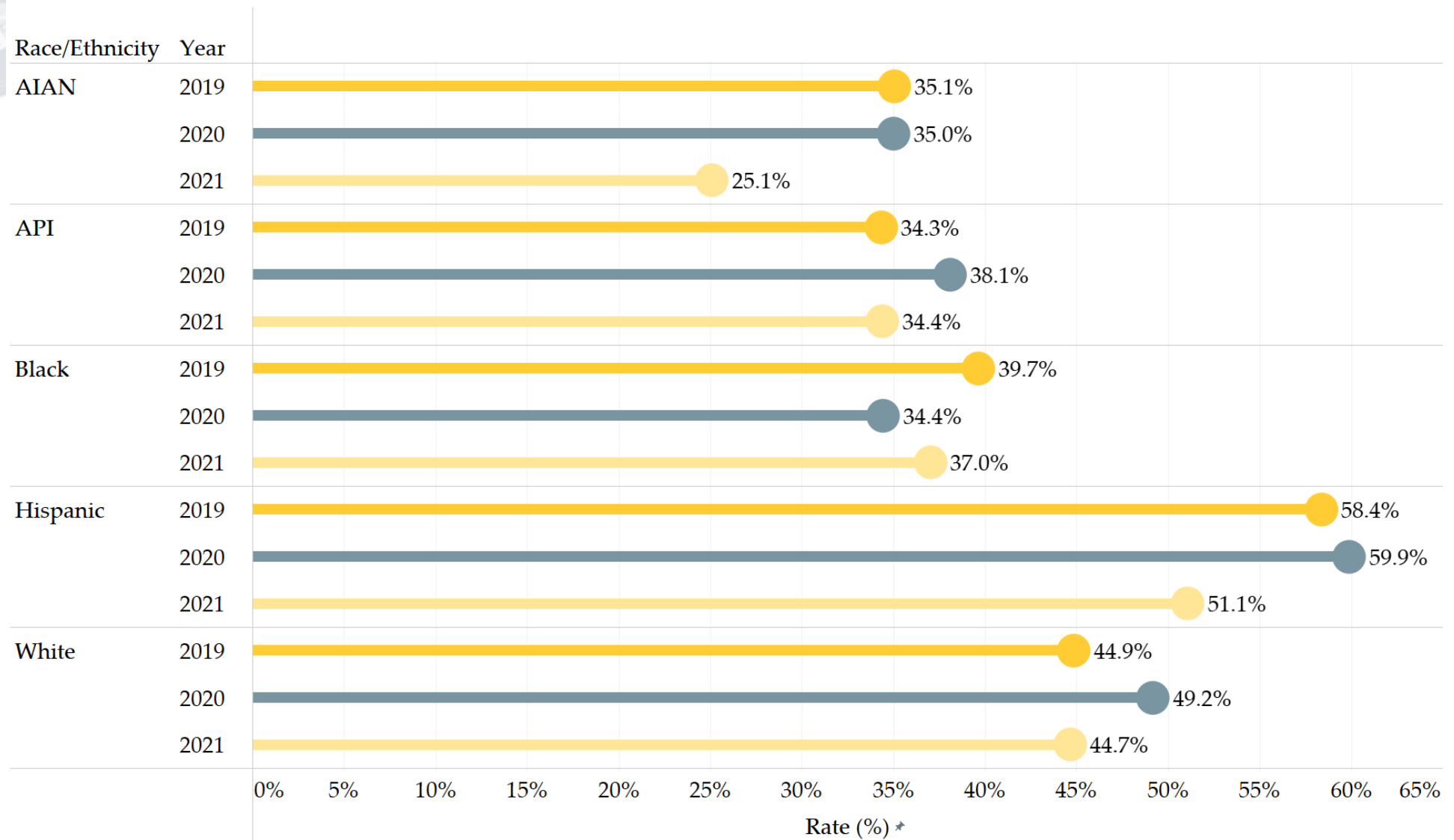
Rates of 7-Series Vaccination by Age 24 Months in Nevada by Year



Source: NV WebIZ (numerator), NV State Demographer (denominator)

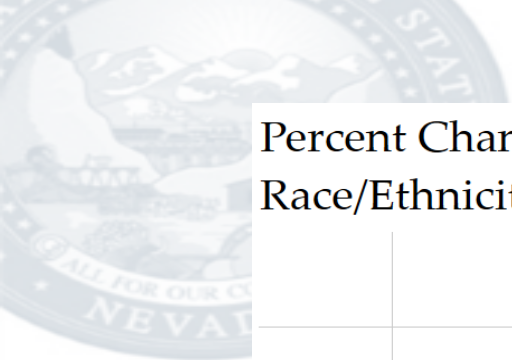


Rates of 7-Series Vaccination by 24 Months by Race/Ethnicity

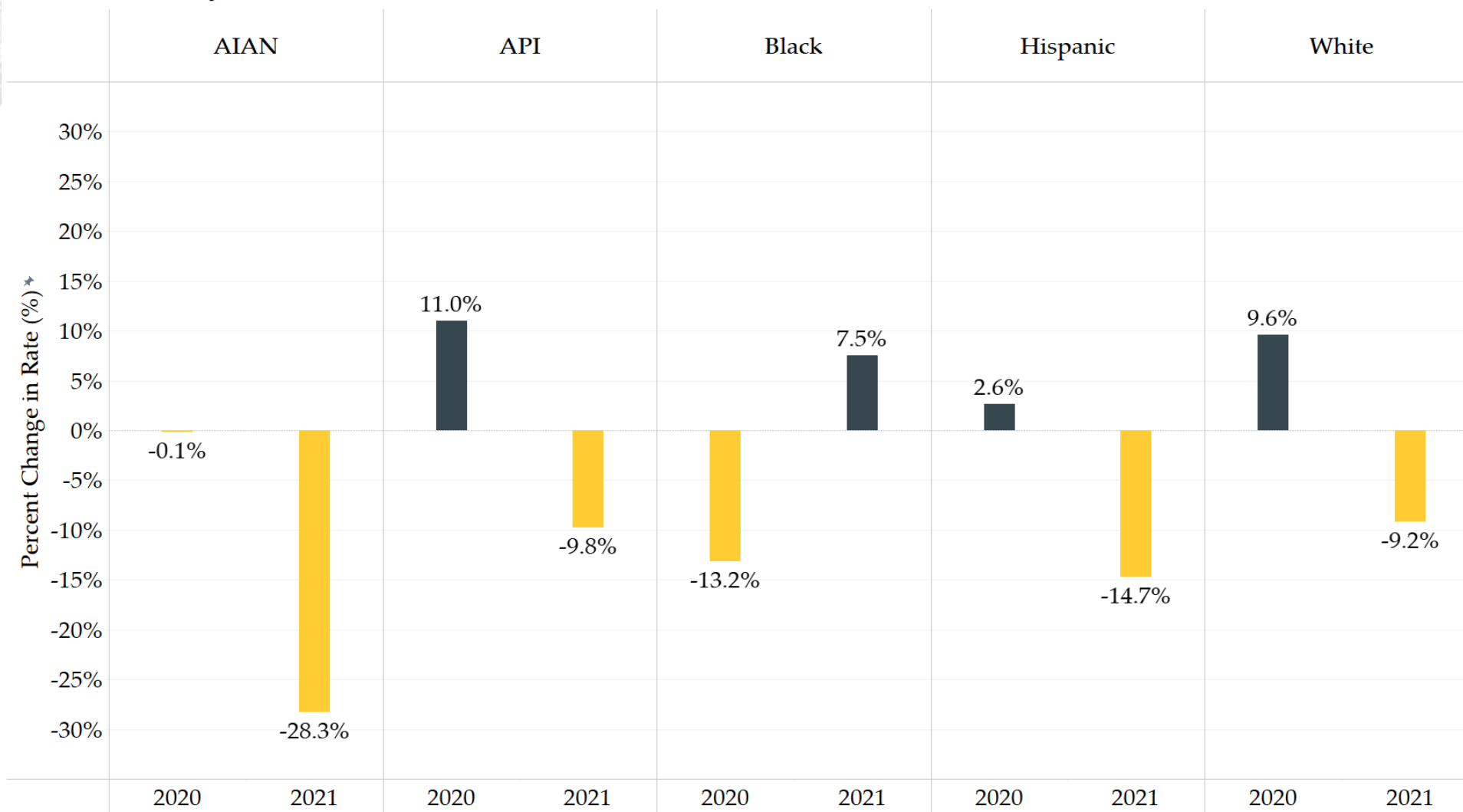


Source: NV WebIZ (numerator), NV State Demographer (denominator)





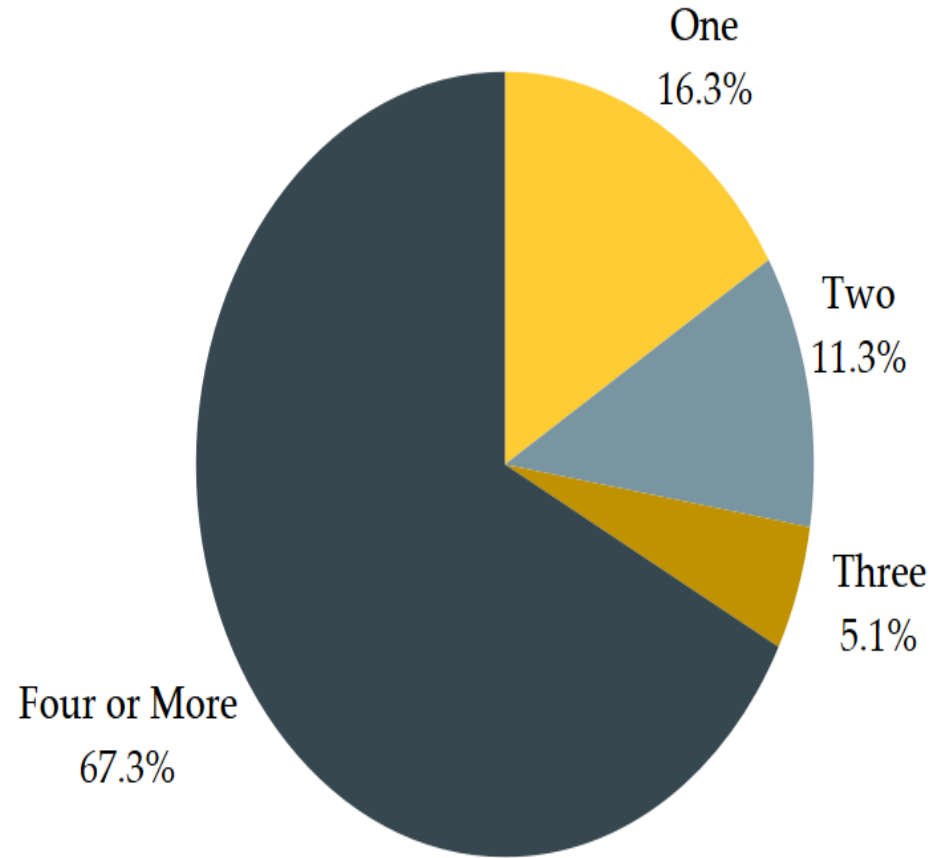
Percent Change from Previous Year in 7-Series Vaccination Rates by Age 24 Months by Race/Ethnicity



Source: NV WebIZ (numerator), NV State Demographer (denominator)



Number of Additional Vaccines Required to Complete 7-Series among Nevada Children



Recommended Adolescent Vaccines

Tdap

1 Dose

Routine:

11 – 12 years old

Catch Up:

13 – 18 years old

MenACWY

2 Doses

Routine:

Dose 1 at 11 – 12 years old;
Dose 2 at 16

Catch Up:

If Dose 1 is at 13 – 15 years old, Dose 2 should be at age 16 – 18 years
If Dose 1 is at age 16 – 18 years, no 2nd Dose needed.

HPV

2 or 3 Doses

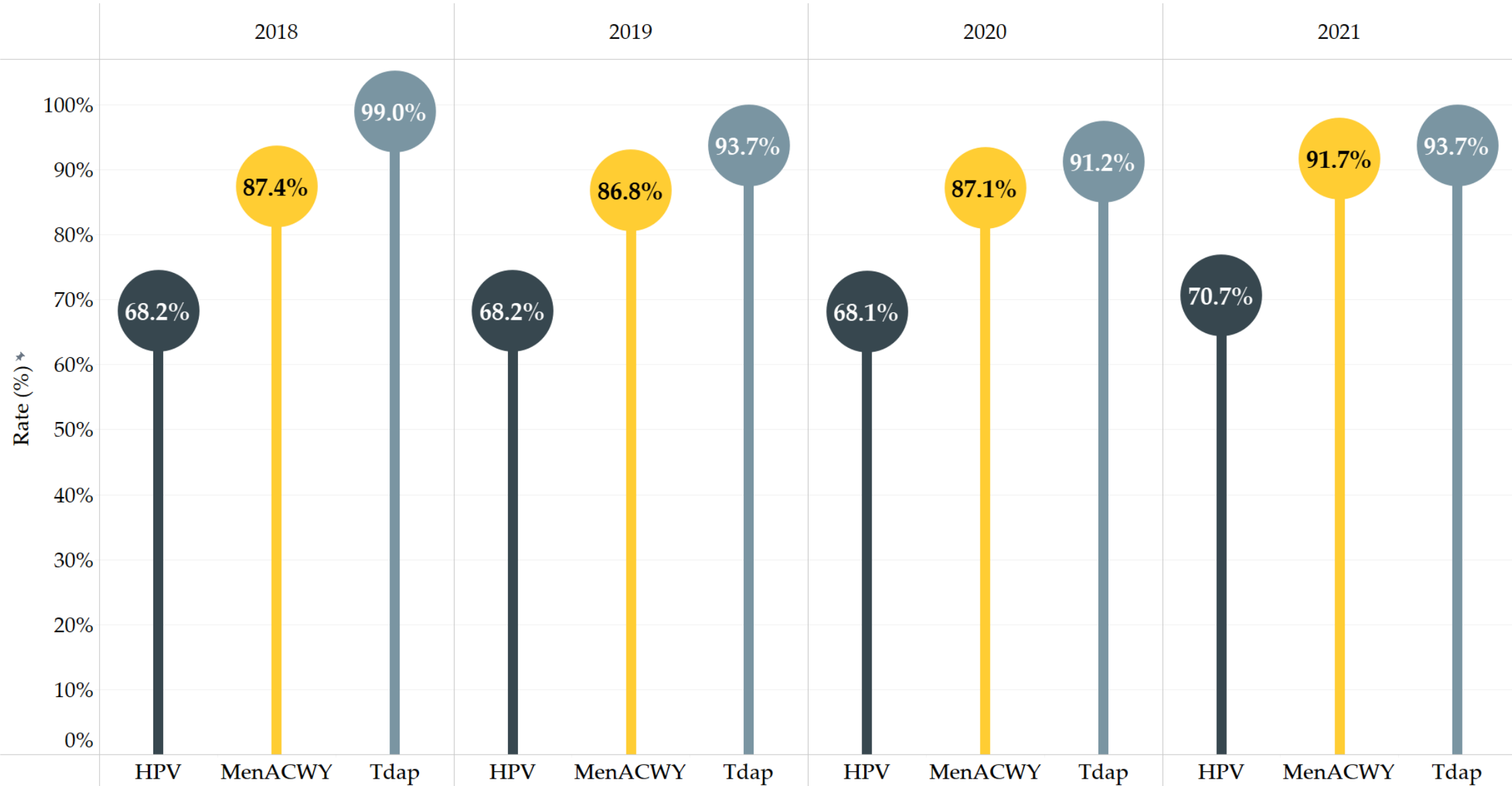
Routine:

11 – 12 years (can start at 9 years)
2-dose series: if 9 – 14 years at Dose 1
3-dose series: if 15 or older at Dose 1

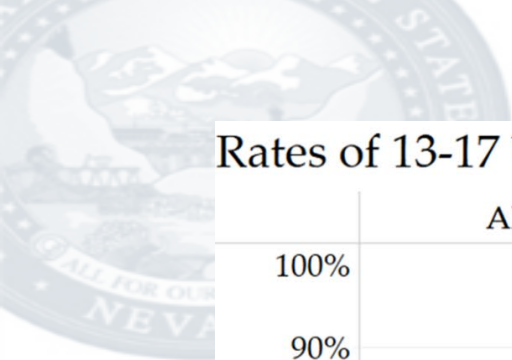
Catch Up:

Recommended for all persons through age 18

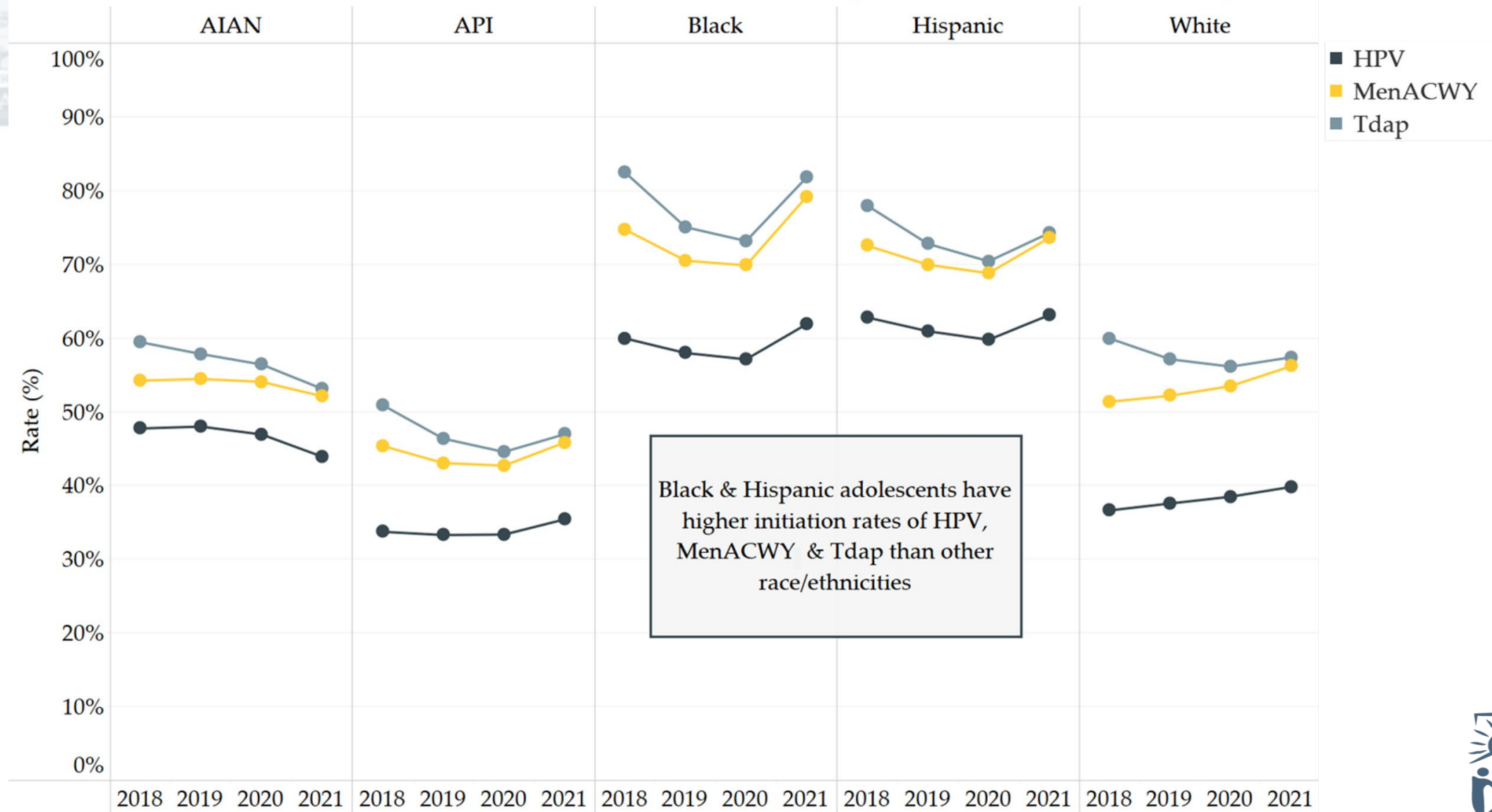
Rates of 13-17 Year Olds in Nevada with ≥1 dose by Vaccine



Source: NV WebIZ (numerator), NV State Demographer (denominator)

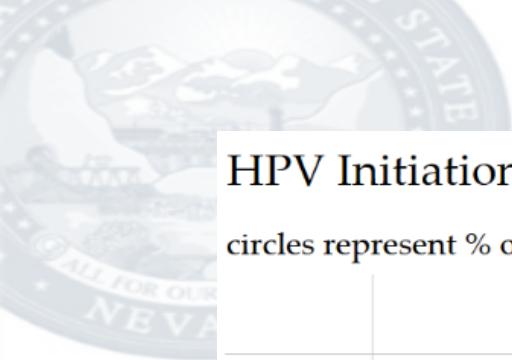


Rates of 13-17 Year Olds in Nevada with At Least 1 Dose by Vaccine & Race/Ethnicity



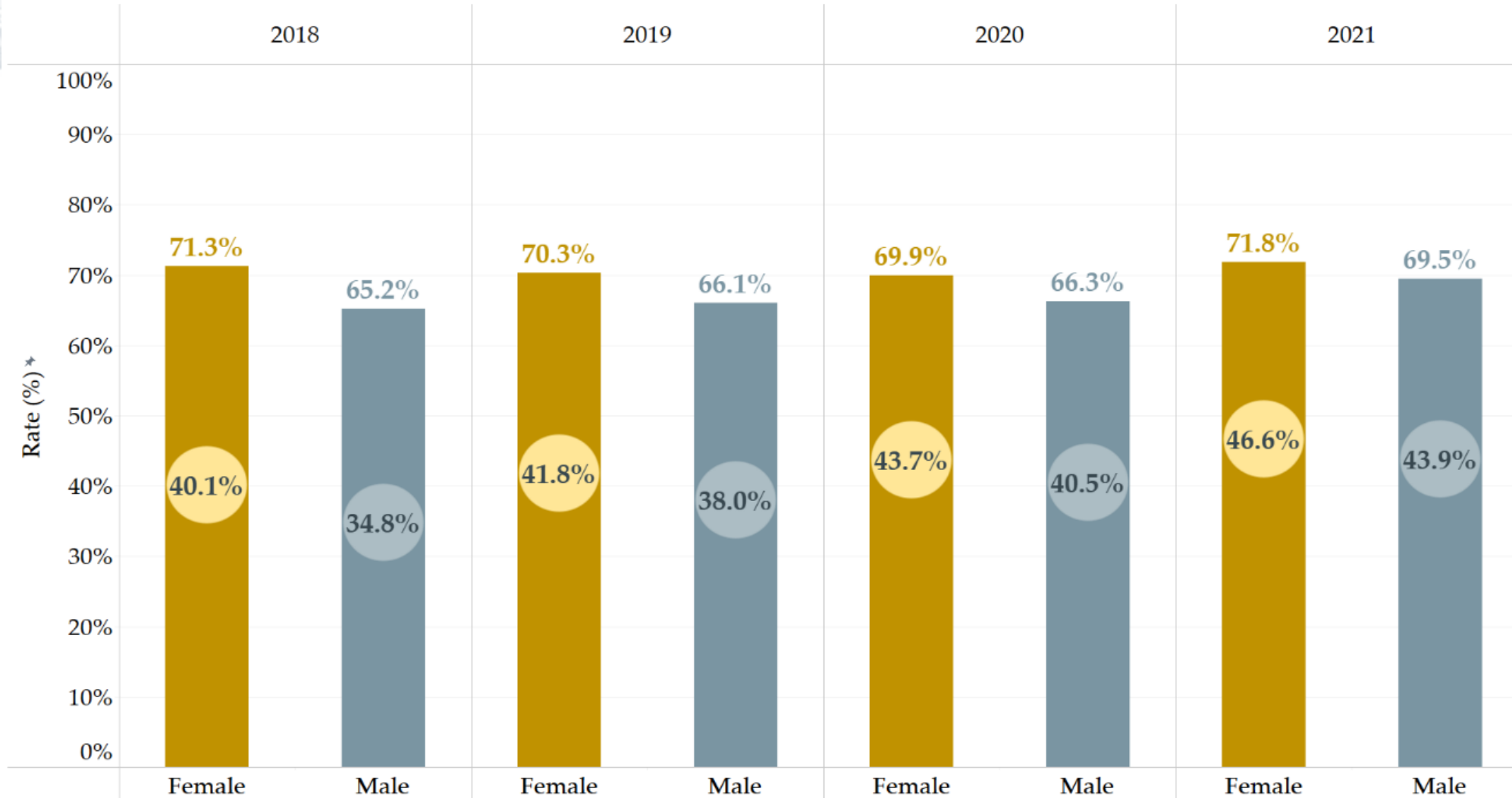
Black & Hispanic adolescents have higher initiation rates of HPV, MenACWY & Tdap than other race/ethnicities

Source: NV WebIZ (numerator), NV State Demographer (denominator)



HPV Initiation and Completion Rates Among 13-17 Year Olds in Nevada by Sex & Year

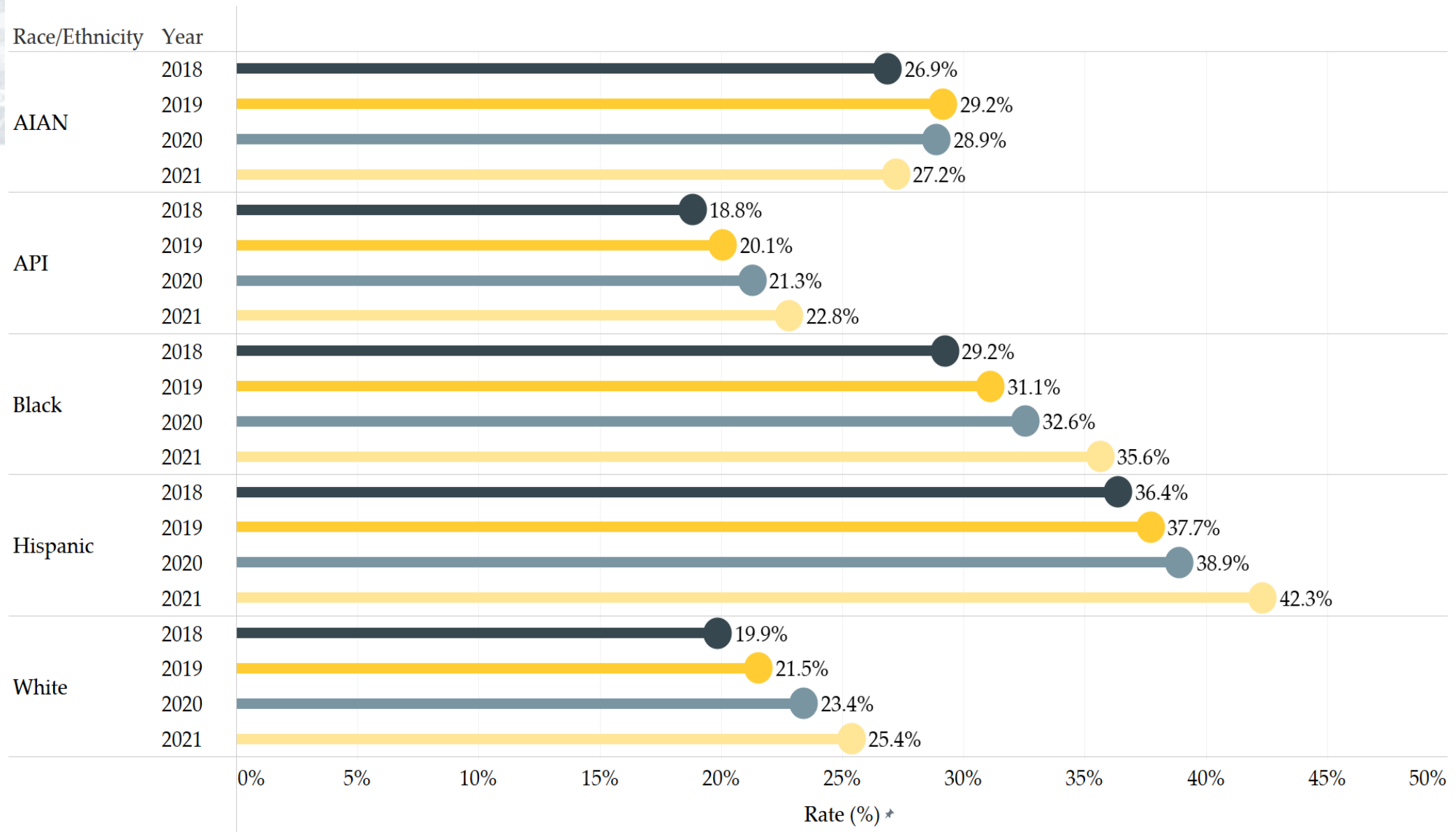
circles represent % of persons up-to-date



Source: NV WebIZ (numerator), NV State Demographer (denominator)



Rates of 13-17 Year Olds in Nevada Up-to-Date on HPV by Race/Ethnicity

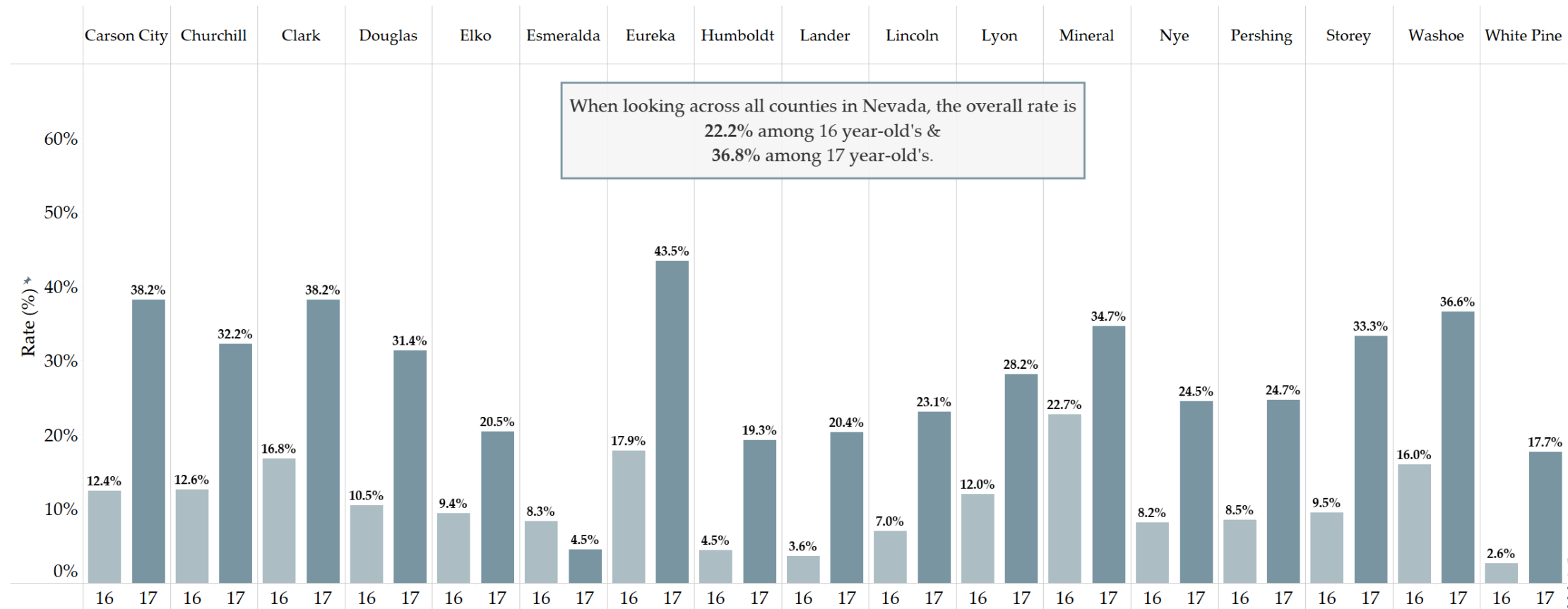


Source: NV WebIZ (numerator), NV State Demographer (denominator)

MenACWY

16 & 17 Year Old's in Nevada Entering 12th Grade in August 2022 Who Are Up-to-Date on MenACWY Vaccine, by County

*Data as of 7/25/2022



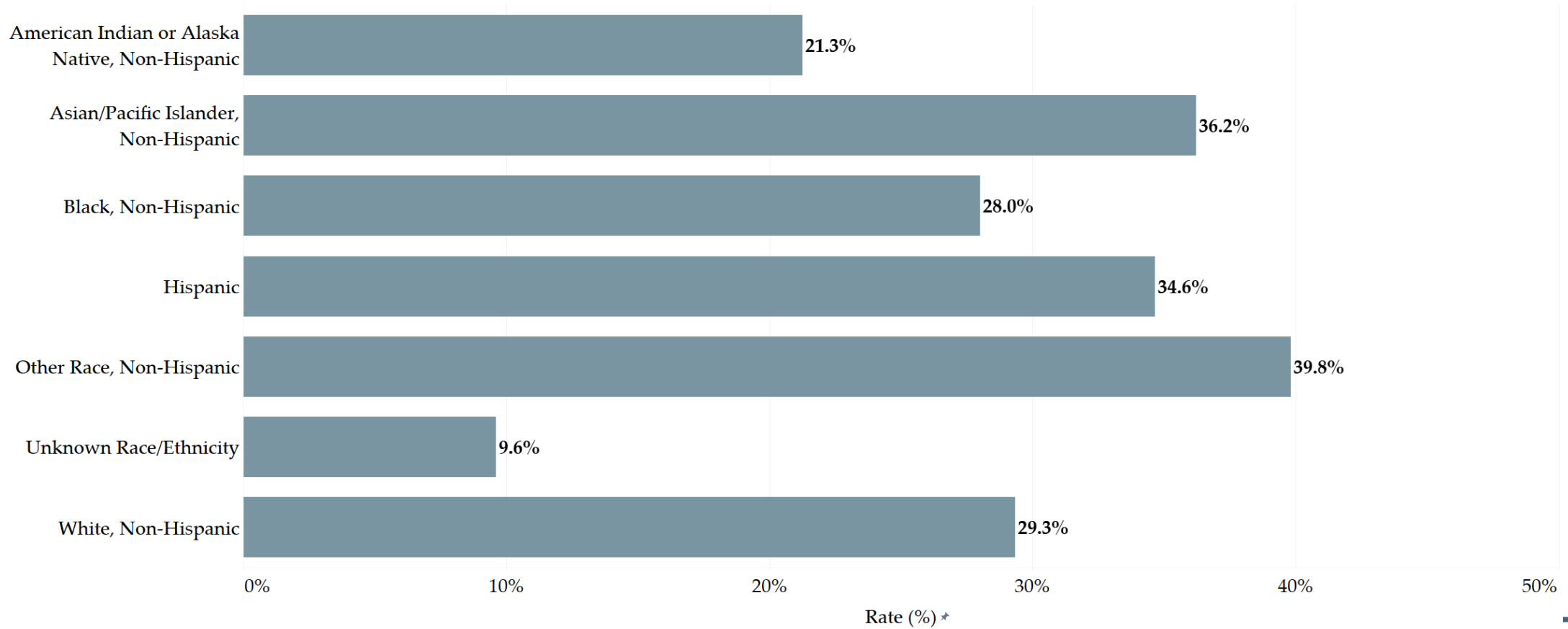
Source: NV WebIZ (numerator & denominator)





16 & 17 Year Old's in Nevada Entering 12th Grade in August 2022 Who Are Up-to-Date on MenACWY Vaccine, by Race/Ethnicity

*Data as of 7/25/2022



Source: NV WebIZ (numerator & denominator)

