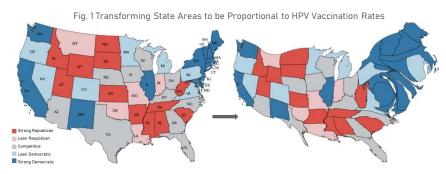
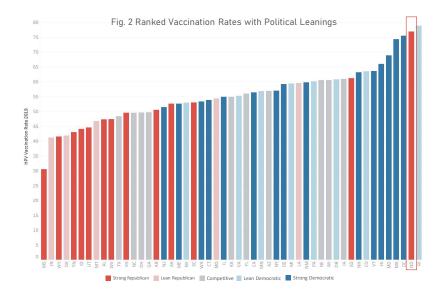
UNDERSTANDING HPV **VACCINATION RATE DATA**

Mission: HPV Cancer Free

- · An American Cancer Society initiative.
- Eliminate vaccine-preventable HPV cancers.
- First step: reach an annual vaccination rate of 80% in 13-year-olds by 2026.





CDC - National Center for HIV/AIDS Viral Henatitis STD and TR Prevention - HPV Fact Sheet https://www.cdc.gov/std/hpv/stdfact-hpv.htm March 27, 2021 Jones, Jeffrey M. "Democratic States Exceed Republican States by Four in 2018." Gallup.com, Gallup, 23 Mar. 2021, news.gallup.com/poll/247025/democraticstates-exceed-republican-states-four-2018 aspx.

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https://ndmsia.cdc.gov/IAS/data/excel?viewId=2233&geoId=17&subsetId=&viewer=Excel, 2021.

National Center for Immunization and Respiratory Diseases. National Immunization Surveys, 2019. Public-use data file and docum https://ndmsia.cdc.gov/IAS/data/excel?viewId=2279&geoId=17&subsetId=&viewer=Excel. 2021

1. Why HPV?

- ~80% of sexually active people will get HPV at some point in their lives.
- HPV is associated with cervical, genital, and oral or throat cancers.

Vaccine Status

- Approved for females in 2006 and for males in 2009.
- Proven to be extremely safe and effective at protecting against cancercausing HPV.
- One of the most controversial vaccines.
- Mandated for school children in the District of Columbia, Hawaii*, Rhode Island, and Virginia. * Hawaii's mandate was not in place at the time this data was taken.
- We analyzed the most recently available data (2019) from the CDC's HPV Vaccination Coverage Report.

3. Regional & Political Data

- The Northeast has much higher vaccination rates than the rest of the country (Fig. 1).
- Ranking the same vaccination rates (Fig. 2), it's clear to see that politically Democratic states tend to have higher rates than Republican states do.
- These trends may be tied to culture, vaccine hesitancy, and the availability of sex education and health clinics that offer the vaccine.
- · One extreme exception to note is North Dakota, which has the second highest vaccination rate in the country (despite being strongly Republican).

4. Gender & Poverty Data

- · Looking at gender (Fig. 3), vaccination rates are still higher for females than for males in most states, by about 4% on average.
- For most states, vaccination rates are higher for those living below the poverty line as opposed to those living at or above the poverty line (Fig. 4).
- · Why? This is likely due to the efforts of Planned Parenthood, Vaccines for Children (VFC), and other cost-reducing programs.

* Poverty level data was unavailable for the following states: CT, HI, MA, MN, NJ. ND. ÚT. VA

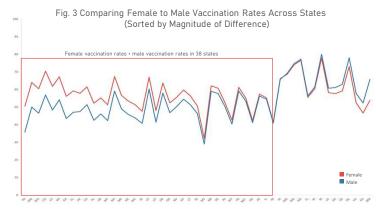
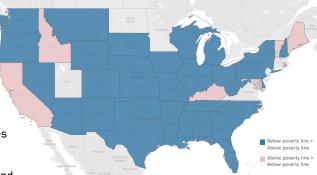


Fig. 4 Comparing HPV Vaccination Rates by Poverty Status



5. Conclusions & Recommendations

- · In analyzing CDC data, we found correlations between HPV vaccination rates and region, political leaning, poverty status, and gender.
- In order to reach our goal of 80% vaccinations, we recommend:
- Examining past successes to inform future interventions.
- Increasing education efforts to reduce stigma and misinformation.
- Addressing barriers & current limitations such as parental consent and exemptions from vaccine mandates.
- Keep studying the data, especially in light of the pandemic.