

# Montana Idaho Wyoming Utah

# 2020-2023 Activity Report

Mountain West HPV Project to Reduce Geographic Disparities for Adolescents Living in Rural States

Released January 2024

cancer.org/hpv

Nevada

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# **Mountain West HPV Project Overview**

More than 50 million individuals live in rural communities in the United States. Like many special populations, individuals living in rural areas have access barriers to overcome and they have documented poorer health outcomes. This holds true for HPV vaccination which has low uptake and can result in higher rates of HPV-related cancers.

The American Cancer Society (ACS) received three years of funding for a project titled **"Mountain West HPV Project to Reduce Geographic Disparities in HPV Vaccination Rates for Adolescents Living in Rural States.**" The states included in this project included Idaho, Montana, Nevada, Utah, and Wyoming. The project sought to address geographic and gender gaps in HPV vaccination rates and increase on-time initiation. ACS applied a health equity lens to implement disparity-reducing interventions through a three-pronged strategy inclusive of:



## **Regional Consortium**

For widespread state-level impact, the project required strong partnerships and stakeholder buy-in. ACS convened like-minded organizations and community partners to increase HPV vaccination by providing information, sharing knowledge, and identifying areas of need and future opportunities.



## **Quality Improvement**

ACS engaged health systems in a learning collaborative with a focus on quality improvement (QI). This strategy catalyzes care systems and providers as the key drivers of vaccination uptake. ACS provided technical assistance on QI tools and evidence-based interventions (EBIs) to health system partners to increase on-time HPV vaccinations in 9-13 year-old adolescents.



## **Professional Education**

A provider's recommendation is the most important factor in whether a child receives a vaccine. ACS provided HPV vaccination education through various methods including Project ECHO, learning series, and individual education sessions to inform traditional and non-traditional vaccinators.





# **PROJECT TIMELINE**

#### 2020



- Hired two ACS program staff to lead and execute the project
- Held inaugural virtual regional consortium meeting with core stakeholders to assess HPV vaccination
  efforts in each state
- Identified new additional partners through virtual convening sessions
- Hosted second regional consortium meeting virtually to share best practices, talk through challenges created by the global pandemic, and plan state-level actions



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- Held exploratory meetings with federally qualified health centers and state primary care associations to identify HPV champions for quality improvement opportunities
- Launched "Back to School and Beyond in the Era of COVID-19" ECHO series with 78 participants
- Launched "Achieving New Heights: Increasing HPV vaccinations throughout the Mountain West" ECHO series with 53 participants
- Convened the third virtual regional consortium delivering a call to action within the 5-state region and continued state action planning



- Identified key health system partners for inaugural quality improvement (QI) learning collaborative cohort
- Initiated professional education opportunities with clinical providers, oral health professionals, and pharmacists
- Convened learning collaborative cohort monthly to explore QI processes, tools, and evidence-based interventions
- Held in-person state consortium meetings to highlight best practices and work through short term goals
- Recruited new partners for the second learning collaborative cohort





- Expanded professional education offerings including in-person and virtual education for clinical staff, medical students, oral health professionals, and pharmacists
- Convened monthly second learning collaborative cohort to explore QI processes, tools, EBIs and share best practices for increasing HPV vaccination
- Launched "HPV Vaccinations: Community Health Workers Role" ECHO series with 88 participants in Nevada
- Hosted second round of in-person state consortium meetings to wrap up project and discuss sustainability

#### 2024 & Beyond

Key elements and best practices from the Mountain West HPV Vaccination Project will be scaled up into ACS's national HPV program through state-based initiatives and geographic disparities work.





# Regional Consortium

**Convening state stakeholders to share best practices** 

From 2020-2023, ACS convened stakeholders in a combination of region-wide virtual consortium meetings as well as in-person individual state meetings. Stakeholders talked through best practices and learned more about current conditions surrounding HPV vaccination and HPV cancer prevention in the 5-state region. Attendees networked, shared current work, and participated in activities to help identify areas of focus and shape future opportunities.



2023 Utah HPV Stakeholder Meeting at Huntsman Cancer Institute

## **Notable State Wins:**

- Idaho & Nevada have expanded HPV vaccination access by allowing dental professionals to vaccinate
- Nevada Community Health Workers will be able to bill for preventive services with patients
- Montana formalized an HPV statewide workgroup
- Utah Statewide Immunization Information System now forecasting "due now" for HPV vaccination at age 9

100+ organizations represented 8

235

stakeholders convened

in-person state meetings

**3** virtual regionwide meetings





# Quality Improvement through a Learning Collaborative

**Driving Provider and System Change** 

ACS has a strong history partnering with healthcare systems to increase HPV vaccination rates through QI projects. The Mountain West project recruited partners in the five state region and delivered education via a l.arning collaborative model.

The curriculum focused on minimizing missed opportunities, addressing disparities, and reducing barriers exacerbated by the pandemic. The collaborative met monthly and ACS staff provided formal education and technical assistance in QI processes/tools and evidence-based interventions (EBIs). Partners aimed to increase HPV vaccination rates among patients ages 9-13 at the health system level by using QI processes to implement a combination of provider and system level interventions.

## Monthly topics included:

- Draft and refine Aim statements
- Process mapping
- Root cause analysis
- Review EBIs
- Organize Plan-Do-Study-Act (PDSA) cycles
- Implement sustainable change

## High Impact EBIs Implemented:

- Patient reminders
- Reducing structural barriers
- Staff education
- Strong provider recommendation
- Provider prompts
- Standing orders
- HPV vaccination Initiation at age 9





Prior to the ACS project, there were system lectures and webinars given on HPV risk and vaccination. As a result of the ACS partnership, we have added electronic health record (EHR) clinical decision support (CDS) that cues providers and parents to initiate vaccination at age nine and emphasizes the importance of equal vaccination for boys and girls.

Learning Collaborative Health System Partner





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2023

## **Quality Improvement Results**

**Provider and System Change** 

- Launched the Mountain West QI learning collaborative cohort with 7 health system partners serving patients at 62 clinic sites
- > 65 EBIs implemented
- Increased HPV initiation rates across all age groups
- Increased HPV completion rates across the 11-12 and 13 year old age groups
- Six 2022 cohort systems continued into a second year serving patients at 53 clinic sites
- 10 new health systems joined serving patients at 31 clinic sites with a strong focus on rural engagement
- The 2022 cohort members saw increases in mean HPV vaccination initiation and completion rates across nearly all age groups
- Final 2023 cohort data will be collected in early 2024

OUTCOMES: Mean HPV Initiation Rates, 2022 Cohort



#### Mean HPV Completion Rates, 2022 Cohort



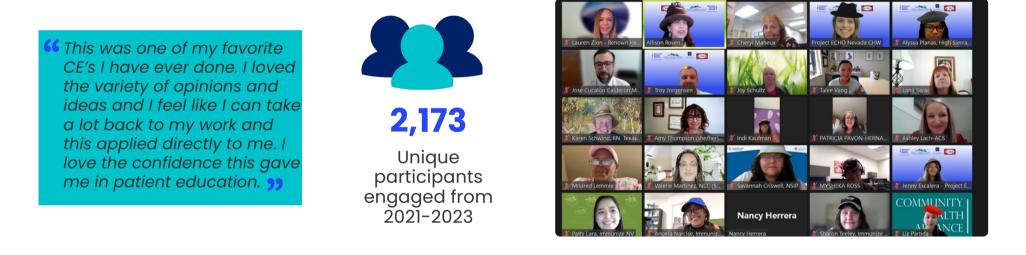
5 states represented 17 health systems engaged **93** clinic sites 52,305 active patients ages 9-13 yo 20 rural clinics engaged

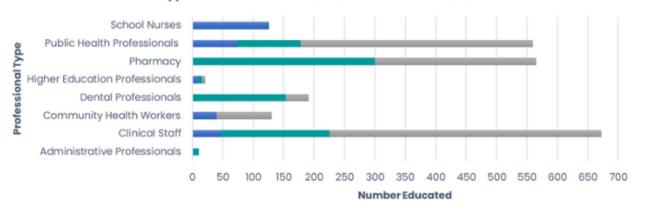




# **Professional Education**

Research shows that a strong recommendation is the most effective intervention and best predictor of vaccination uptake. ACS partnered with various regional and local stakeholders to provide professional education to traditional and non-traditional vaccinators through three different methods: Project ECHO, formalized learning series, and individual education sessions. Education sessions encompassed HPV vaccination starting at age 9, addressing vaccine hesitancy using communication methods like presumptive language and motivational interviewing, talking through health inequities throughout the Mountain West, and highlighting unique ways to reach adolescents and their parents with HPV vaccinations.





Types of Professionals Educated 2021-2023

I really enjoyed this HPV panel. I have gained a wealth of knowledge on how to work with those who experience health inequity, I have gained many resources to support patients, and myself as a student and future practitioner. 33



#### **Funder Acknowledgment**

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## American Cancer Society Mountain West Project Leads



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#### For More Information:

Please contact the HPV program team via interventions@cancer.org.



#### **PROJECT STAKEHOLDER ACKNOWLEDGEMENTS**

**Alliance Community Services** Alliance for HPV Free Colorado **Alluvian Health** Anthem Blue Cross Blue Shield Nevada Medicaid Association for Utah Community Health **Benefis Hospitals Best of Africa Group Billings** Clinic **Brigham Young University** Butte Silver-Bow Health Department Cancer Data Registry of Idaho Cascade City-County Health Department **Center for HOPE** Cervivor **Casper-Natrona County Health Department Community HealthCenters of Central Wyoming Community Health Alliance Creek Valley Health Clinic Crossroads Utah AHEC Davis County Health Department Denver Public Health Deschutes County Health Services Desert Sage Health Centers Families First Pediatrics Family Healthcare Family Health Services** FourPoints Health GenesisCare Head & Neck Alliance Heritage Health **Hiah Sierra AHEC** Hill County Health Department **HLN** Consulting **HPV Free Idaho** Huntsman Cancer Institute Hygienist for Health Idaho Academy of Family Physicians Idaho Chapter American Academy of Pediatrics Idaho Comprehensive Cancer Control Idaho Department of Health & Welfare Idaho Immunization Coalition Idaho Immunization Department Idaho Oral Health Coalition Idaho Primary Care Association Idaho Society of Health System Pharmacists Idaho State University- College of Pharmacy Idaho Dental Hygienists' Association

Immunize Nevada Immunize Oregon/Oregon HPV Prevention Alliance Intermountain Health Kepka Research Lab La Pine Community Health Center Lake County Public Health Lewis & Clark County Public Health Liberty County Public Health **Marias Healthcare Services** Midtown Community Health Center Montana Academy of Family Physicians Montana Association of School Nurses Montana Chapter American Academy of Pediatrics Montana Cancer Control Programs Montana Central Tumor Registry Montana Dental Association Montana Dental Hygienists' Association Montana Department of Health & Human Services Montana Family Planning/Bridgercare Montana Immunization Department Montana Office of Rural Health Montana Primary Care Association Natural Transitions Consultina Nevada Academy of Family Physicians Nevada Chapter American Academy of Pediatrics Nevada Cancer Coalition Nevada Certification Board/CASAT Nevada Comprehensive Cancer Control Nevada Dental Association Nevada Dental Hygienists' Association Nevada Department of Health & Human Services Nevada Health Centers Nevada Immunization Department Nevada Medicaid Nevada Minority Health & Equity Coalition Nevada Oral Health Program Nevada Primary Care Association Nevada State Immunization Program New Mexico Immunization Coalition Northern Nevada HOPES Northern Utah Immunization Coalition **Oqden Clinic Oregon Health Authority Pacific Dental Services** Partnership Health Center **Renown Regional Medical Center** 

**RiverStone Health** 

Roseman University of Health Sciences- College of Dental Medicine Salt Lake County Health Department Sarah Cannon Cancer Institute Select Health **Smiles Across Montana** Smith's Food and Drug/Utah Pharmacy Association Southeast Utah Health Department Southern Nevada Health District St. Mark's Hospital **Tahoe Forest Health System Telluride Regional Medical Center** University of Montana University of Nevada Las Vegas School of Dental Medicine University of Nevada, Reno Project ECHO University of Utah University of Utah Health University of Utah School of Medicine University of Utah, Division of Public Health **Utah Academy of Family Physicians** Utah Chapter American Academy of Pediatrics Utah Community Health Workers Association **Utah Comprehensive Cancer Control Utah Dental Association** Utah Dental Hygienists' Association Utah Department of Health and Human Services **Utah Immunization Department Utah Oral Health Coalition** Utah Statewide Immunization Information System USIIS WA HPV Free Task Force Washoe County Health District Washoe County School District Wayne Community Health Centers Weber State University Wyoming Academy of Family Physicians Wyoming Cancer Programs Wyoming Cancer Coalition Wyoming Cancer Resource Services Wyoming Dental Hygienists' Association Wyoming Immunization Department Wyoming Medical Society Wyomina Primary Care Association

