



2022 Mountain West HPV Project Updates



This grant is made possible through funding from Merck, for the purpose of Mission: HPV Cancer Free Quality Improvement Initiative.

Pillar 1:

Regional Consortium

Themes from Nevada Stakeholders-June 2022

WebIZ integration within EHR's

Initiation at age 9 across the state

80% HPV vax completion by age 12 among boys/girls in rural settings

DDS (dental providers) having ability to vaccinate

Mobile medical/dental

Mandatory vaccine reporting in WebIZ

Build capacity in FQHCs to have space to implement QI measures

Have those with HPV tell their story, destigmatize

Partner with medical schools to educate early

WebIZ forecasting for HPV at age 9 instead of 11

WebIZ automatic reminder to patients

Get HPV data to NV legislators

Send out auto reports to clinic/organization leads

Use WebIZ for evaluation of HPV vaccination gaps and automated reminders

Opportunity to partner with tribal

Themes from Utah Stakeholders- November 2021 & June 2022

More info highlighting the “other” types of cancer caused by HPV infections

Initiation at age 9 across the state

Increase access to primary care in rural areas

Protocol for parent refusal

Build capacity in FQHCs to have space to implement QI measures

Highlight survivors to drive home cancer prevention

Provide education to healthcare students (AHEC)

Mandate USIIS reporting & lower forecast to age 9 for HPV

Best practices from Salt Lake and San Juan counties (high vaccine rates)

Collect and share survey data on parental vaccine hesitancy through BRFSS survey

Send out auto reports to clinic/organization leads

Find trusted community leaders

School entrance HPV vaccination policy

Takeaways from Montana Small State Meeting- Sept 2022

Formal HPV workgroup or coalition

Education for Community Health Workers, Public Health nurses, clinicians, etc. Topics to include starting at age 9, vaccine hesitancy, and motivational interviewing

ImMTrax to forecast starting at age 9

HPV vaccination integration into schools

Achieving Healthy People 2030 goal of 80% completion rate

Mandatory opt into immunization registry vs. opt out

Vaccine discrepancies in ImMTrax database

Utilize reminder recall for HPV vaccination uptake

Access to ready made HPV materials

Educating parents to help increase knowledge and decrease misconceptions around the HPV vaccine.

Expand reach to dental community

Collaborate with state health department to educate clinical staff on monthly and weekly calls with shared healthcare partners

Takeaways from Idaho Small State Meeting- Sept 2022

Hold vaccine clinics throughout the year that will prioritize HPV with influenza and covid

Recruit more members to HPV Free Idaho coalition

Community Health Worker education

HPV vaccination In line with Tdap and MenACWY rates

Engage parents at school sports events, parent teacher conferences etc. to provide HPV education

IIS forecasting at age 9
Also provider education on how to pull reports through IIS

Non-traditional vax settings- use contract mobile COVID providers

Pharmacists being able to participate in VFC program

Educate providers on their stats remind them of the importance of HPV vax

Further breakdown HPV county level data

Know what others are doing and collaborate with nearby states

Partnering with non-healthcare trusted community organizations to help champion HPV education

Pillar 2:

Quality Improvement

2022 Mountain West HPV Learning Collaborative

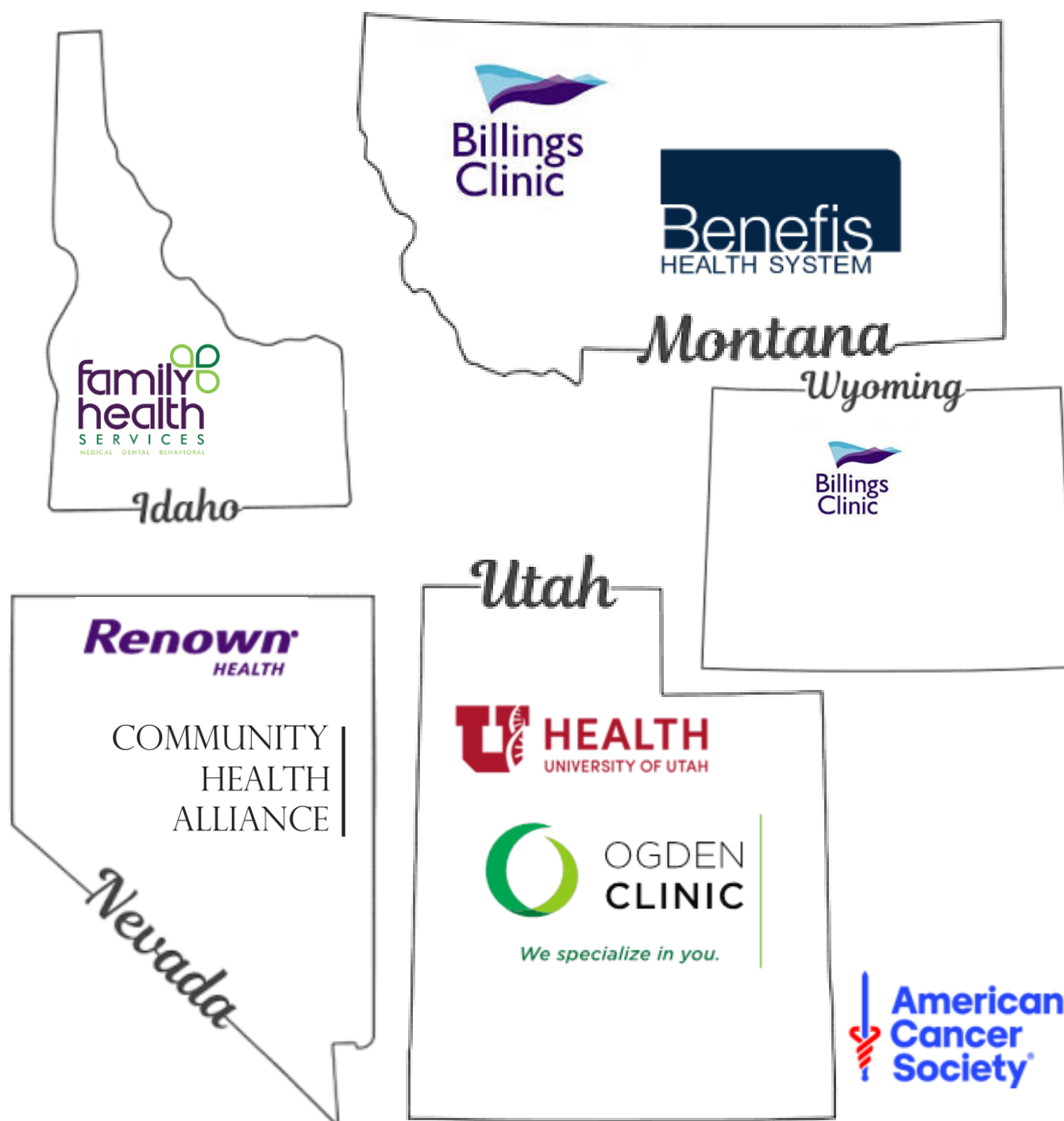
Learning Objectives:

- **Minimize the effects** of the pandemic on missed adolescent HPV vaccines
- **Address disparities and reduce barriers** to vaccinations exacerbated by the pandemic
- **Collaborate** with health care partners to **implement evidence-based interventions** through quality improvement
- **Create learning communities** to **foster best practice sharing**
- **Use data** to inform all aspects of the project
- **Execute sustainable and meaningful process improvement**

Impact: More than **40,000** lives touched!

EBI's Implemented: 65

Topics covered: QI tools and processes, Jamboard, and implementation of evidence-based practices



STORYBOARD

Your Name: Pediatrics WCC & BNW, Women's Health Health System Name: Benefis Hospitals

Partnering with **3** clinics across **Great Falls, MT**

Project Aim: Increase number of HPV vaccinated adolescents ages 9-13 from 1/1/22-12/31/22 by improving outreach and offering extended hour vaccine clinic.

Increase initiation rate of adolescents ages 9-10 by 15% (from 10.8% to 25.8%).

Increase the overall completion rate of 9-13-year adolescents by 20% (from 11.72% to 31.72%).

Project Activities:

- Standing Orders
- Social Media campaign
- Sent mailers for Vaccine Clinics
- Increase Access: Extended Hour Vaccine Clinics
- Outreach Calls

QI Team:

Austin Mills

Sarah Davison

Dr. Grant

Nursing and Scheduling Staff

QI Tools used: AIM, PDSA, Process Map, EBI's

Collaborated with: Pediatric providers, peds staff, marketing, ACS, HPV Roundtable



YTD through November:

9-10 Initiation: 11%

9-13 Completion: 21%

Data

Successes:

- Completed 4 extended hour clinics
- Social Media Campaign
- During campaign time we vaccinated 52 kids for HPV.

Challenges:

- Staff Changes
- Competing priorities, RSV
- 9-10-year initiation

Next Steps:

- Focus on completing outreach lists and direct calls to their parent to provide education and scheduling.
- Schedule more extended hour clinics in 2023 during back to school.



Bridget Eckley PA-C & Kylie Savaria RN Billings Clinic

Partnering with 7 clinics across
Billings, MT; Miles City, MT; Cody, WY.

Project Aim: *To prevent HPV related cancers.*

Project Activities:

- Gas cards
- IT quality improvement to EHR
- Provider & Nursing education
- State Stakeholder Summit

QI Team:

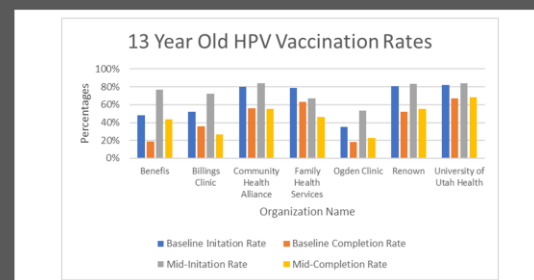
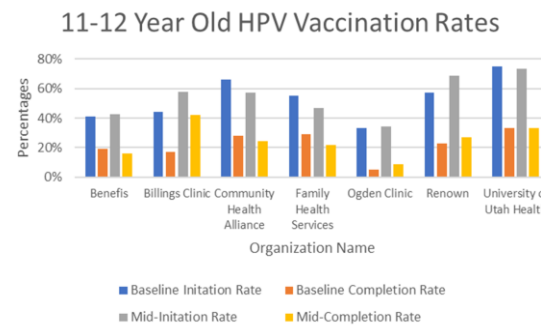
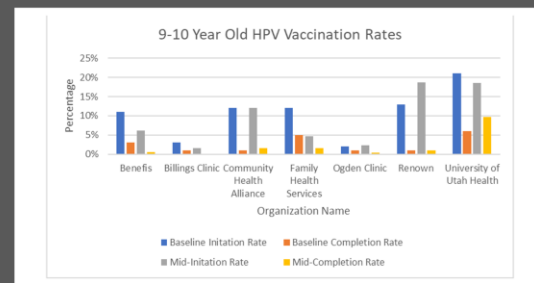
Bridget Eckley PA-C, Kylie Savaria RN, Beth Bales

QI Tools used:

*Fishbone diagram
Workflow mapping
Gap analysis*

Collaborated with:

Dr. K. Lysinger MD, Dr. C. Kennamore MD, Kacie Rodahl



Successes:

- Improved the EHR for tracking and documenting HPV vaccines
- Increased communication between clinical staff and patients
- Increased education to clinical staff

Challenges:

- *Recent Model alignments to our EHR increased delay times in change approvals*
- *Multiple committees for approvals*
- *Major staff turnover and understaffing*
- *Mistrust/misconceptions on vaccines*
- *Legislature barriers*
- *Rural communities*

Next Steps:

- *Continue EHR improvements*
- *Continue education*
- *Work towards better patient reminders*
- *Continue our HPV quality project into 2023*



STORYBOARD

Liz Partida

Community Health Alliance

City/State Reno NV

Project Aim: Increase awareness of HPV vaccination & completed series of HPV vaccinations in target population by at least 7%.

Project Activities:

- Reminder Postcards
- Reminder Magnets
- Vaccine clinics
- Patient education

QI Team:

- *Marina Monroy*
- *Carla Becerra*
- *Stephanie Damian*
- *Luis Martinez*
- *Kirstin Kramer*
- *Norma Estrada*

QI Tools used:

- Fishbone diagram
- Flow chart

Collaborated with: Pharmacy & Dental

Successes:

- *Post cards increase vaccine clinic attendance*
- *Reduced vaccine hesitancy*

Challenges:

- Data

Next Steps:

- *Continue collaboration with dental department*
- *Outreach for second dose HPV*
- *Expand reminders to all health centers*

Mountain West HPV Vaccination Storyboard

Your Name: **Stephanie Hunzeker**
 Health System Name: **FAMILY HEALTH SERVICES**

Operating **10** medical clinics
 across South Central Idaho.

Project Aim: Increase HPV vaccinate rate by age 13
 from 52% to 60% by 12/31/22.

Project Activities:

- Nearly 60 nurses received HPV-specific training early 2022 to build confidence in educating parents.
- FHS launched DRVS immunization management tool for proactive outreach early 2022.
- Monthly postcard reminders sent to patients due.
- Open access – Nurse visits for immunizations.
- Gas cards given to parents of patients receiving HPV vaccine to remove barriers.

QI Team: Yolanda Cabello, Chris Perotto, Josh Brock, Stephanie Hunzeker

QI Tools used: Workflow/Process Mapping

Collaborated with: State of Idaho, Comprehensive Cancer Prevention, IRIS .

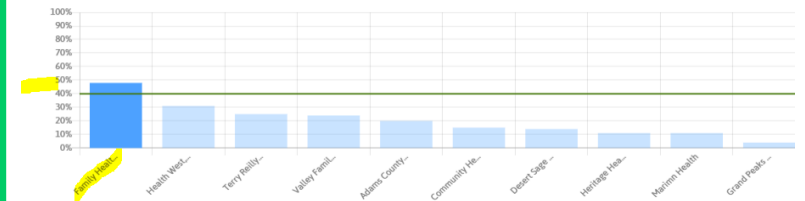


TY Nov 2022 – HPV by 13 All Medical clinics

LOCATION - RENDERING	RESULT
Rupert Medical	86%
Jerome Medical	80%
Burley Medical	65%
Kimberly Medical	56%
Twin Falls 325 Medical	56%
Bellevue Medical	50%
Twin Falls Medical	50%
Shoshone Medical	46%
Buhl Medical	43%
Fairfield Medical	17%

Successes:

- Staff confidence in messaging and education
- Team-based approach to recommendations.
- Highest HPV completion rate amongst 10 health centers reporting in DRVS:

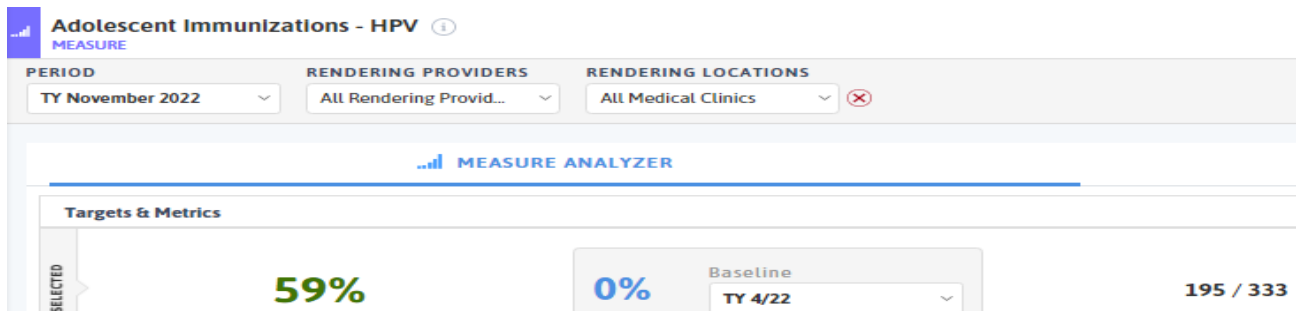


Challenges:

- Competing priorities/lack of time at Administration & clinics.
- Ongoing parental resistance/exemptions. Idaho's 2021 opt-out rate for school-age children reached 9.7%

Next Steps:

- Continue effective practices.
- Identify/address barriers
- Well-child check visit process improvements may also positively impact all immunizations, including HPV.



Ogden Clinic and the Mountain West HPV Learning Collaborative

Partnering the 5 clinics in Northern Utah

Project Aim: To increase HPV vaccine completion rates in girls and boys, ages 9-13, from 6 to 15% by 12/31/2022

In collaboration with the **American Cancer Society**

Team players: Carrie- Director of Quality Services, Tori- Clinical Skills Lead RN, Project Leads- Stephanie, Jaclyn, Robi, Kayla, Carly



Midpoint Staff Incentive- "Let's Kick HPV in the Bundt"

Project Activities:

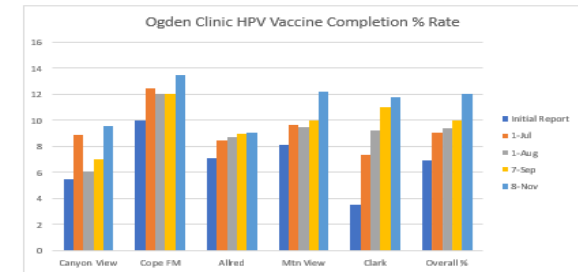
- Recommendation to vaccinate at age 9
- EMR upgrades- text reminders for Gardasil dose #2 and/or WCC due
- Bi- directional interface with USIIS (state registry)
- Provider/staff education- presumptive recommendations
- HPV tent cards for exam rooms
- Scheduling appts for next dose
- Monthly completion rates to show progress

QI Tools used:

- Process mapping
- Root Cause Analysis
- PDSA Cycles

Successes:

- Increase in completion rate to 12% as of Nov 8
- HPV vaccine is being offered to 9 yr old boys and girls
- Bi-directional interface provides most accurate medical record
- Scheduling Gardasil #2 which provides an automated reminder

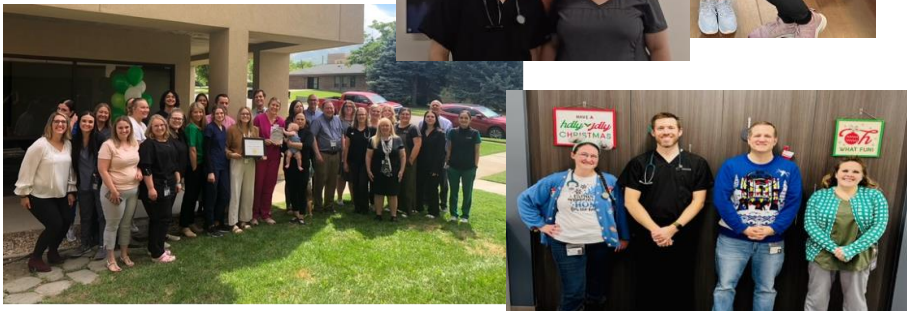


Challenges:

- Staffing issues- shortage/turnover
- Misinformation (student with GBS after HPV in the community)
- Text reminders in EMR must be sent individually

Next Steps:

- Patient Incentive to reduce barriers
- Participation in 2023 Collaborative 2.0
- Continue to work through challenges
- Fine tune QI tools



Renown Health | December 2022

We aim to increase our second dose vaccination rate amongst thirteen-year-olds within Renown's pediatric population by 10% of the current baseline to reach 57% by 12/31/2022. We plan to do this by increased education, focused patient outreach efforts, reducing barriers to receiving care and automated patient reminders.

William N. Pennington Center Institute partnered with the Department of Pediatrics team to increase pediatric completion of HPV vaccination. Dr. Vanessa Slots, Renown Health Division Chief of Pediatrics is our physician champion and clinical expert for this project.

QI Team: Dr. Vanessa Slots, Susan Cox, Yurico Avila, Erika Bautista, Brigette Villalobos, Jill Smith, Liliana Cueva, Ashely Burroughs



Project Activities:

- Physician and Clinical Staff Engagement
 - Presentation for Project Echo and Grand Rounds.
 - Medical Assistants and front desk staff HPV education.
 - Clinic competition.
- Patient and Parent External Cues
 - Exam room posters, poster in hospital stanchions, waiting area rack cards, HPV educational handouts, and HPV phone sockets.
 - 2nd dose reminder cards.

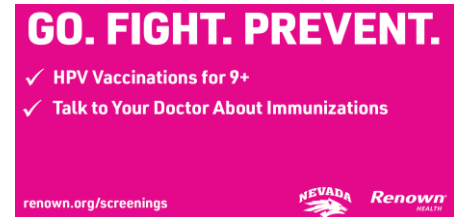


HPV 2 Doses 13-year-olds	
Baseline	51.7%
Midpoint	55.5%
11/29/22	58.77%



Project Activities:

- Best Practice Alerts
 - MyChart- care gap patient reminder alerts.
 - Health Maintenance for HPV vaccine to be recommended at age 9.
- Transportation Barriers- Gas Cards
- HPV Vaccine Marketing
 - 3 HPV Blogs: 2,094 page views & 1,738 people reached on social media.
 - HPV Video Graphic at Wolf Pack Football Pink Out.
 - News4 Well Being Segment HPV vaccination promotion: viewership total 14,119.
- Community Events
 - Urban outreach: 1,113 approximate people reached
 - Rural outreach: 119 people reached



Successes: Best practice alert for health maintenance to trigger at age 9 per updated guidelines and patient reminder notification for HPV in MyChart care gap at age 9. Ashely submitted our request to Renown's IT department, and this went into effect at 5/16/22.

Challenges: There was a lag time in pulling grant funds from our foundation. Our team was unable to provide transportation support early in project due this delay.

Next Steps: Continue quality improvement strategies to increase HPV vaccination rates in 2023.

Partnering with: 30 clinics across UUH
City/State: Greater Salt Lake area & Northern Utah
Project Aims:

1. Increase 9-10y vaccination initiation rate by 50% (21% to 31.5%) by end of 2022
2. Increase the overall completion rate in 9-13y children by 10% (33.1% to 36.5%) by end of 2022
3. Close the gender gap (Male=female vaccination)

Project Activities:

- EHR additions: Alerts lowered to 9 years, outreach messaging, After Visit Summary HPV info, automatic orders & admin charges
- Leadership lectures system-wide
- Audit and feedback for providers & staff
- MA competitions with prizes for most shots
- Centralized vaccine outreach, many languages

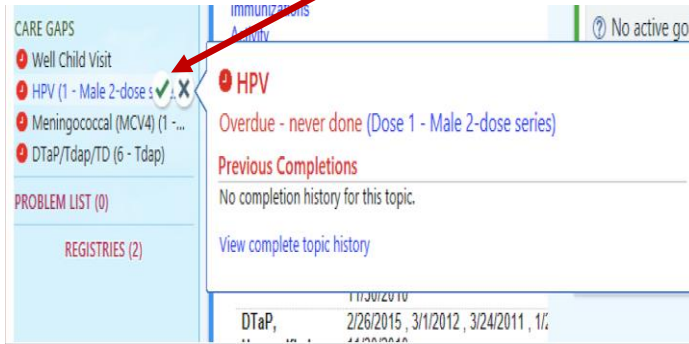
QI Team:

Carole Stipelman MD MPH, Aarti Vala MD, Nettie Irwin MD, Alexis Olivas BS, Natalie Wilson BS, Andie Sanders BS

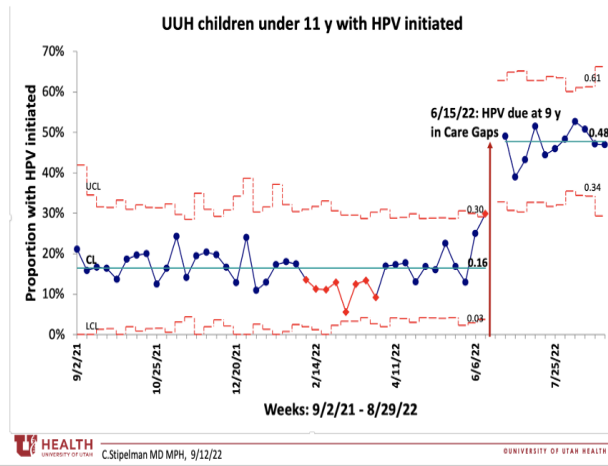
QI Tools used: Statistical Process Control (SPC) graphs, audit and feedback, Gant chart

Collaborated with: UUH Information Technology, UUH QI Team, Clinical Decision Support, Community Physicians Group, School of Medicine Clinics

EHR Alert: vaccine ordered by clicking green arrow



Proportion of 9-10 y UUH patients with HPV vaccine initiation



SPC graph for mid-way audit and feedback

Successes:

- Initiation rate 9-10y pre- vs post-implementation: 15% vs 50%
- Post-implementation initiation rate 9-10y girls vs boys: boys-49.78 vs girls 49.72. **We closed the gender gap!**
- Completion rate 9-13y pre vs post: 33% pre-implementation to 61% post **AND males = females**

Challenges:

- Multiple committee presentations for approval
- Renewed parent resistance to vaccines due to COVID
- "That's just for cervical cancer, right?"

Next Steps:

- "Vaccinate your boy" poster: professional design
- Monthly data automated to allow continued audit and feedback

Pillar 3:

Professional Education

2022 Professional Education

HPV Vaccinations: The Dental Community's Role Continuing Education Interactive Learning Series

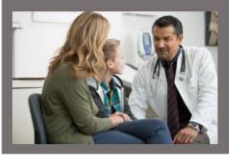
The American Cancer Society (ACS) in partnership with the Nevada Dental Association (NDA) and Pacific Dental Services (PDS) is proud to present this interactive webinar series to educate dental providers on the HPV vaccination and its role in cancer prevention. The Nevada Dental Association will be providing continuing education to all in attendance.

Dates: Sept. 7, Sept. 14, Sept. 21, Sept. 28, and Oct. 4, 2022
Time: 6-7pm PST
NDA/ADA/ADHA Member Cost: Free
Non-Member Cost: \$99 for series
Registration Link: <https://bit.ly/318f3m7>
This series is limited to 500 attendees!
Questions: Email HPV Program Manager, Ashley Lech | Ashley.Lech@cancer.org



Scan here to register!

- Session Topics**
- 1: HPV 101 and the Pandemic's Effect on Vaccinations**
Speaker: Heather M. Brandt, PhD, St. Jude Children's Research Hospital
 - 2: The Barriers & Challenges to Dental Care**
Panelist of Speakers: Sonal Shah, DDS, University of Nevada-Las Vegas, Antonino Caputo, DMD, MPH, Nevada Department of Health and Human Services, & Lulu Tang, DMD, Pacific Dental Services
 - 3: A Guide to Oral Screenings & HPV-Related Malignancies**
Speaker: Mark W. Lingen, DDS, PhD, University of Chicago
 - 4: Treatment of HPV-Related Oropharyngeal Cancer**
Speakers: Geoff Young, M.D., PhD, Miami Cancer Institute & Jason Mendelsohn, Superman HPV
 - 5: The Short- and Long-Term Side Effects of HPV-Related Oropharyngeal Cancer**
Speakers: Alessandro Villa, DDS, MPH, PhD, Miami Cancer Institute & Michael West

Per the CDC, approximately 79 million people are infected with Human Papilloma Virus (HPV) and there are 14 million new cases each year. As well, the American Cancer Society estimates that HPV causes nearly 35,000 cases of cancer in men and women each year and that number continues to rise.

Individuals between the ages of 9-26 can be vaccinated against HPV, but this preventative measure is underutilized. Dental providers are encouraged to gather more knowledge about this phenomenon so that they can discuss the HPV vaccine with their patients and answer questions related to HPV and the HPV vaccine.

Presenters will cover the biology of HPV, vaccination guidelines, identifying malignancies in the oral cavity, HPV-related head and neck cancers, and the dental community's role in HPV cancer prevention.

About the American Cancer Society Mountain West HPV Project:
 The American Cancer Society received funding in 2020 for a project titled "ACS | NCI CCC Partnership Model to Reduce Geographic Disparities in HPV Vaccination Rates for Adolescents Living in Rural States". The states included in this work are Idaho, Montana, Nevada, Utah, and Wyoming. The Center for Health Outcomes and Population Equity (HOPE) at Huntsman Cancer Institute at the University of Utah is a partner on this 3-year grant project. This partnership focuses on leveraging health information technology, Project ECHO, and existing relationships established in the Mountain West.

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1

Nevada Dental Hygienists Association 4-Part Series

Dates: 1/26, 2/9, 2/23, 3/9
 Total number educated: **78**

2

Idaho State University Pharmacy Series

Dates: 4/6, 4/13, 4/20, 4/27
 Total number educated: **79**

3

Wayne CHC- HPV Dental Education

Date: 6/22
 Number educated: **33**

4

Renown Pediatric Grand Rounds

Date: 7/27
 Number educated: **39**

5

Nevada Dental Association 5-Part Series

Dates: 9/7, 9/14, 9/21, 9/28, 10/4
 Total Number educated: **80**



2022 Professional Education

If you could prevent cancer, would you?
Join us for an interactive HPV vaccination learning series

The American Cancer Society (ACS) in partnership with Crossroads Utah Area Health Education Center (AHEC) is proud to present this virtual webinar series to educate scholars and medical students on the importance of the HPV vaccination and to help increase its uptake in adolescent populations.

AHEC Scholars who register, attend, and complete the post-session survey will receive 1 hour per session; max of 4 hours total toward their didactic requirement.

Session Dates: October 7th, December 16th, February 10th, and April 14th
 Time: 12:1pm MST
 Registration Link: <https://forms.office.com/r/PLrvvGWZ>
 Questions: Contact HPV Program Manager, Ashley Loch, Ashley.Loch@cancer.org



Scan here to register!

Sessions will cover a variety of topics related to the HPV virus and vaccination. Listed below are the topics that will be highlighted during this learning series:



Session Topics

- Session 1: HPV 101: What you need to know
- Session 2: Health Inequities Associated with HPV
- Session 3: Powerful Cancer Prevention: Using the Announcement Approach & Starting at Age 9
- Session 4: The Art of Motivational Interviewing



Per the Centers for Disease Control and Prevention, approximately 29 million people are infected with Human Papilloma Virus (HPV) and more than 14 million people develop new cases each year. Some of those infected with HPV will develop cancer. The American Cancer Society estimates that HPV causes nearly 35,000 cases of cancer in men and women each year and that number continues to rise.

Individuals between the ages of 9-26 can be vaccinated against HPV, but this preventative measure is underutilized. Utah falls well below the national average for completed HPV vaccinations and only 20% of Utah adolescents are fully vaccinated before their 13th birthday. Participants are encouraged to gather more knowledge about this phenomenon so that they can help educate and vaccinate more adolescents.

Presenters will cover the biology of HPV, vaccination guidelines, types of cancers, HPV inequities within under-represented populations, the focus on age 9, and how to use motivational interviewing skills to combat vaccine hesitancy.

About the Mountain West HPV Vaccination Project:

The American Cancer Society received funding in 2020 for a project titled "ACS/ NCI CCC Partnership Model To Reduce Geographic Disparities in HPV Vaccination Rates for Adolescents Living in Rural States". The states included in this work are Idaho, Montana, Nevada, Utah, and Wyoming. The Center for Hope at Huntsman Cancer Institute at the University of Utah is a partner on this 3-year grant project. This partnership focuses on leveraging health information technology, Project ECHO, and existing relationships established in the Mountain West.

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6 Utah Dental Association- Fall Dental Hygienist Conference
 Date: 9/23
 Number educated: **82**

7 Idaho Society of Health-System Pharmacists Fall Conference
 Date: 9/24
 Number educated: **80**

8 Montana AAP Conference- 406 Update & Vaccine Hesitancy Panel
 Date: 10/1
 Total number educated: **50**

9 Northern Utah Crossroads AHEC Series
 Dates: 10/7, 12/16
 Total Number educated: **60**

10 UNR- Complex Pediatric ECHO
 Date: 10/14
 Number educated: **22**



2022 Professional Education

Achieving New Heights: Increasing HPV Vaccinations in Adolescents Webinar Series

The American Cancer Society in partnership with Idaho State University (ISU) is proud to present this virtual webinar series to educate students on the importance of the HPV vaccination and to help increase its uptake in adolescent populations.

Pharmacy students who register, attend, and complete their post-session survey will receive 1 hour per session with a max of 4 hours total. Attendees will also have a chance to win a prize during each learning session.

Dates: April 6, April 13, April 20, and April 27
 Time: 1-1:45pm MST
 Registration Link: <https://forms.office.com/r/jnAYCHFuqc>
 Questions: Email HPV Program Manager, Ashley Lach, Ashley.Lach@cancer.org



Scan here to register!

Weekly sessions will cover a different topic related to the HPV virus and vaccination. Below is a list of topics to be reviewed:

- Session 1: The Pulse on HPV
- Session 2: HPV-Related Cancers
- Session 3: Revolutionize Cancer Prevention through Provider Recommendations & Starting at Age 9
- Session 4: The Art of Motivational Interviewing



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Individuals between the ages of 9-26 can be vaccinated against HPV, but this preventative measure is underutilized. Idaho State University medical students are encouraged to gather more knowledge about this phenomenon so that they can discuss the HPV vaccine with patients and answer questions related to the virus and vaccination.

Presenters will cover the biology of HPV, vaccination guidelines, identifying HPV-related cancers, and a pharmacist's role in HPV cancer prevention.

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11

Midtown CHC- HPV Dental Education

Date: 10/19
 Number educated: **18**

12

Family Healthcare- HPV Dental Education

Date: 10/19
 Number educated: **15**

13

Nevada Minority Health & Equity Coalition

Date: 10/26
 Number educated: **73**

14

Community Health Alliance HPV Dental Education

Date: 11/17
 Number educated: **8**

15

Utah Oral Health Coalition

Date: 12/9
 Number educated: **42**

