Utilizing Electronic Health Record (EHR) Alerts to Improve Child Passenger Safety in NW Tribal Communities

Presented by: Candice Jiménez, MPH
Confederated Tribes of Warm Springs

February 21, 2020
2020 Northwest Tribal Health Conference
Chinook Territory 📍 Portland, Oregon
Native CARS Team

- Northwest Tribal Communities
- NW Portland Area Indian Health Board (NW Tribal EpiCenter)
  - Tam Lutz (*Lummi*), MPH, MHA, Co-Principal Investigator
  - Candice Jimenez, MPH (*Warm Springs*), Research Manager
  - Nicole Smith, MPH, Senior Biostatistician
  - Meena Patil, MPH, Biostatistician
  - Jennifer Seamans, MST, MPH Candidate, Intern
- Oregon Health & Science University (OHSU-PSU)
  - Jodi Lapidus, PhD, Co-Principal Investigator
- University of Washington, Harborview Injury Prevention & Research Center
  - Beth Ebel, MD, PhD, Co-Investigator
Native CARS Study

Community led, data informed interventions to improve the use of child safety seats among American Indian and Alaska Native (AI/AN) children utilizing a community-based participatory research (CBPR) approach.
Native CARS: Community-Driven

**Identify Health Disparities**
Analysis of public health data

**Investigate**
Collect data, Explore context

**Implement**
Community-led, data-driven activities

**Evaluate**
Process, Impact, Outcomes

**Disseminate**
Translation + Accessibility for general use
Community Intervention Process

• Review vehicle observations (quantitative data)

• Review elicitation interviews (qualitative data)
  ✓ Associations with use and non-use
  ✓ Barriers
  ✓ Facilitators
  ✓ Community strengths

Issue + Approach + Audience + Collaborators = Intervention
Intervention Approaches

- Awareness
- Education
- Health or Safety Practice
- Behavior Change
- Environment/Policy

Issue + Approach + Audience + Collaborators = Intervention
Example Intervention: Media Campaigns

**Native Children Always Ride Safe**

*We all care for the future generation.*

_Nez Perce Tribe_

**Nez Perce Child Safety Seat Law Television PSA**

_from Native_

**Protect our children. Use child safety seats.**

_Nez Perce Tribe_
Risks Factors Identified

- Children moving into the next child safety seat too early (i.e. incorrect restraint or position)

- Children traveling close to home (5 minutes or less)

- 7-8 year old children

More recent concerns – Continuing need to build awareness of 2018 national recommendations
How can we help address these risks?

- Share successes with other tribal communities
- Incorporate lessons learned from other tribes
- **Amplify impact** of child safety seat distribution programs in community
What the data says

Resources that work –

- CPSTs
- child safety seats
- local distribution program

- More kids are using restraints, but not necessarily the seat that is right for their age and size
- Tribal health is #1 source of child safety seat information for a community.

Question: How do we link these together?
EHR Alerts – Care Coordination
Health Education via EHR

RPMS Electronic Health Record Alert (Native CARS)

from Native CARS Atlas
Another Avenue of Outreach

Clinical health reminder alert = EHR ‘Consult’

• How many times clinic providers are documenting car seat education codes?

• How many consults are made to child passenger safety technicians?

• How many of those consults are complete?
Creating Spaces for Collaboration

- Up-to-date information from CPSTs
- Education for providers during well child exams
- Alerts remind providers and consults connect families
Child Safety Seats: ‘Immunizing Against MV Injuries’
Why address this when there are so many priorities?

• Highly preventable
• Child safety seats work
  o Reduce risk of death by 71% for infants
  o Reduce risk of death by 54% for children age 1-4 years
• Booster seats reduce risk for serious injury by nearly half for children aged 4–8 years old compared to seat belt use alone
Accessibility

Native CARS is designed to *increase and sustain* overall use:

- Both online and print content are free and easy to access
- Easily tailored to community needs; tribal and non-tribal communities alike
- We welcome partnerships with tribal, state & national groups/organizations

[www.nativecars.org](http://www.nativecars.org)
Acknowledgements
Thank You

Native CARS team – Candice Jimenez at cjimenez@npaihb.org

EHR Support – Katie Johnson, Pharm D at kjohnson@npaihb.org

Follow us on @nativecarsatlas

Upcoming training opportunity: April 21-23, 2020 @ NPAIHB
Portland, OR - IHS “Introduction to Injury Prevention” Course