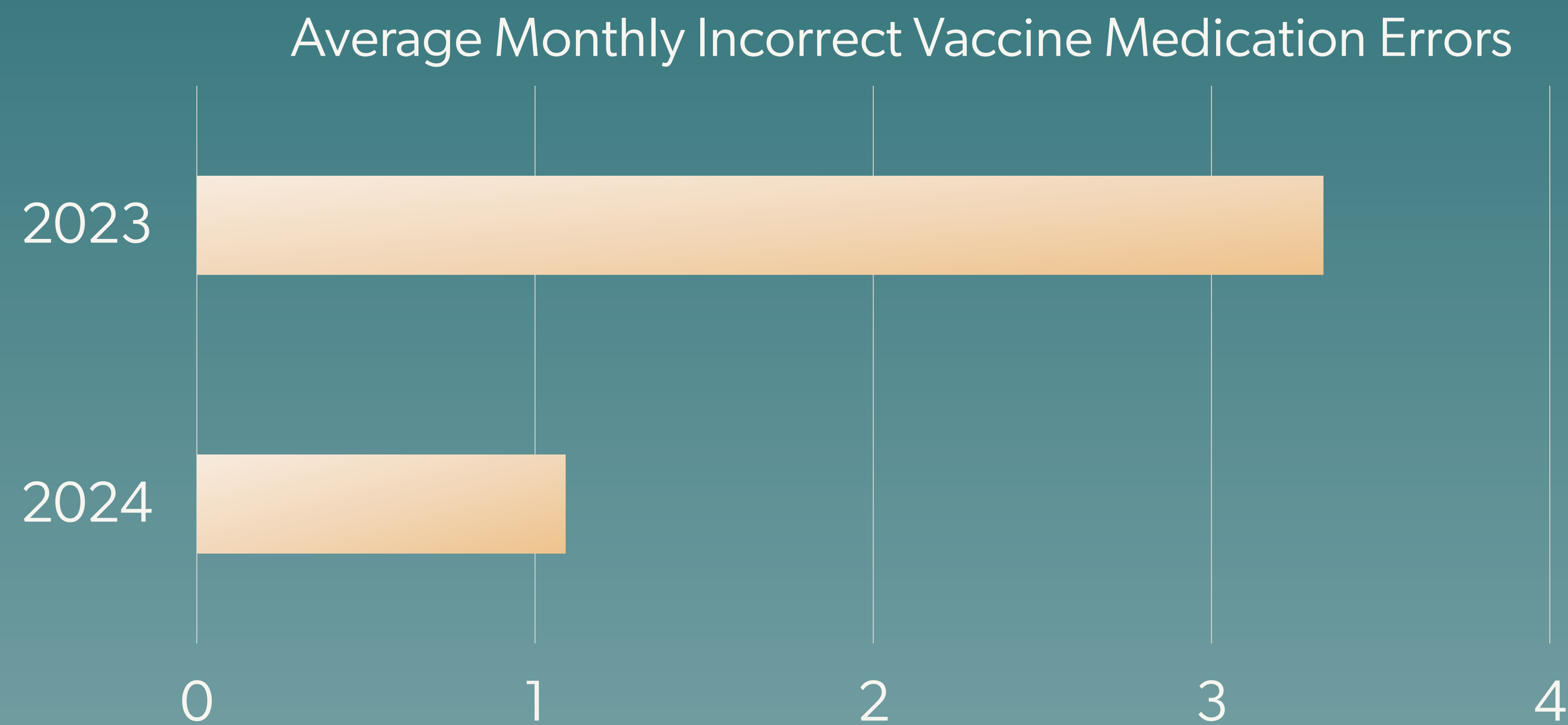
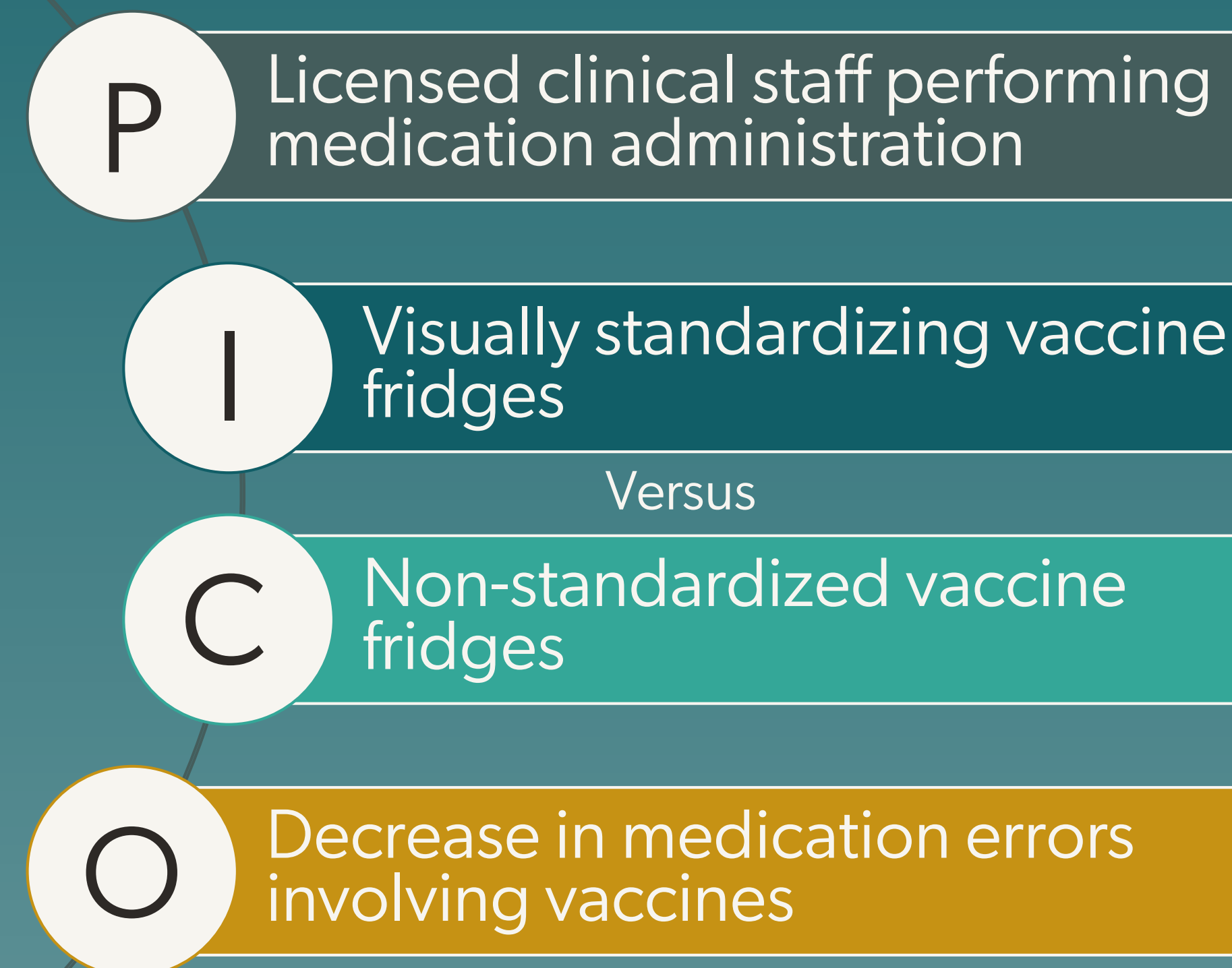


# Decreasing Medication Errors Through Visual Management of Vaccine Standardization

PeaceHealth Ambulatory Education  
Rachael Vogel, MSN, RN



- Background**
- Safeguards like patient scanners are often absent in the ambulatory setting, posing challenges in medication administration.
  - Implementing medication scanners can be prohibitively expensive.
  - Most medications administered in the clinics are vaccines, so efforts were concentrated on improving this area.
  - PeaceHealth opted to implement visual vaccine standardization across all clinics to address this issue while maintaining good stewardship.
  - This initiative aims to reduce the likelihood of human error when pulling medication from stock.

- Implementation**
- The project was implemented across 53 PeaceHealth clinics in Washington, Oregon, and Alaska that administer vaccines.
  - Local educators (7 in total) were engaged to support the implementation.
  - The project team developed vaccine labels and blank templates for future vaccines.
  - Local educators were trained on the workflow and instructed to collaborate with vaccine coordinators in their network.
  - Vaccine coordinators were responsible for educating their respective clinics on the labeling convention to ensure no knowledge gaps.

- Outcome**
- Visual management of vaccine standardization was implemented in December 2023.
  - It took two months to standardize all clinics.
  - The project team analyzed vaccine medication errors for 2023 and 2024 using the internal medication error tracking system.
  - PeaceHealth clinics administer over 40,000 vaccines annually.
  - Prior to standardization, PeaceHealth averaged 3.3 vaccine medication errors per month.
  - Post-implementation, vaccine medication errors dropped to an average of 1.1 per month.

Vaccine product that is only given to PEDIATRIC patients	
Vaccine product that is only given to ADULT patients	
Based on whether patients meet specific criteria, this vaccine product may be given to adult or pediatric patients	
CAUTION! LOOK ALIKE SOUND ALIKE	Vaccine has a very similar name to other vaccine(s). Reverify that you are choosing the correct product.
WARNING! Multi-Vial Vaccine Mix both vials together before giving	Two different vials must be mixed before the vaccine is given to the patient. Each vial typically has a different colored lid and a distinct label but may be stored in the same box.
WARNING! Use Vaccine Specific Diluent	This vaccine has a special diluent that is supplied by the manufacturer. Due to storage temperature recommendations, it may not be stored with the vaccine.
Add sticker here	Clinic specific identifying sticker to be added to indicate State Supply (VFC) inventory.

**Herpes Zoster (Shingrix®)**

**WARNING!**  
Multi-Vial Vaccine  
Mix both vials together  
before giving

**Ages:** 50 years and older  
**Certain high-risk groups:** 19 years and older  
**Route:** Intramuscular (IM) injection

Discard reconstituted vaccine if not used within 6 hours.

**MMR (M-M-R II®)**

**CAUTION!**  
LOOK ALIKE  
SOUND ALIKE

**WARNING!**  
Use Vaccine Specific  
Diluent

**Ages:** 12 months and older  
**Route:** Subcutaneous (SQ) injection

Store frozen or refrigerated  
Use within 8 hours of reconstitution and protect from light

**DTaP-IPV-Hib (Pentacel®)**

**CAUTION!**  
LOOK ALIKE  
SOUND ALIKE

**WARNING!**  
Multi-Vial Vaccine  
Mix both vials together  
before giving

**Ages:** 6 weeks through 4 years  
**Route:** Intramuscular (IM) injection

Use immediately after reconstitution

- Sustainment**
- Educators will ensure clinics maintain standardization during their rounding and onboarding of new clinics and caregivers.
  - A vaccine management class was created in alignment with VFC standards and the visual management of vaccine standardization initiative.
  - This class is available for caregivers who administer vaccines.

