#### Indian Health Service National Pharmacy and Therapeutics Committee IHS E3 Vaccine Strategy



# Infectious Disease ECHO July 20, 2023

#### Matthew A. Clark, MD, FACP, FAAP

Chief Medical Officer, Alaska Area Native Health Service, IHS Chair, IHS National Pharmacy and Therapeutics Committee (NPTC)

Every patient. Every encounter. Every recommended vaccine.

# Mission and Goals

#### Mission

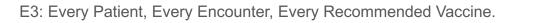
No unvaccinated AI/AN person will suffer a poor outcome or die from a vaccine preventable illness.

- Goals
  - 1. Increase vaccine rates in Indian Country to the highest level
  - 2. Reduce rates of vaccine-preventable illness in Indian Country
  - 3. Save lives in every tribal community & every age group (infants to elders)





- Describe the rationale for the IHS National E3 Vaccine Strategy
- Explain the elements of E3
- Detail the E3 Operational Plan
- Support system-wide E3 participation





# Rationale

#### What is the E3 Vaccine Strategy?

- Every Patient
- Every Encounter

#### • Every Recommended Vaccine Offered, when appropriate





• Launch: November 17, 2022

• Operationalization: 2023



#### **Target Population**

- American Indian and Alaska Native Tribal Communities
- IHS CMO Directive to all IHS federal direct-care facilities
- Encouraged for tribal & Urban Indian Organization facilities



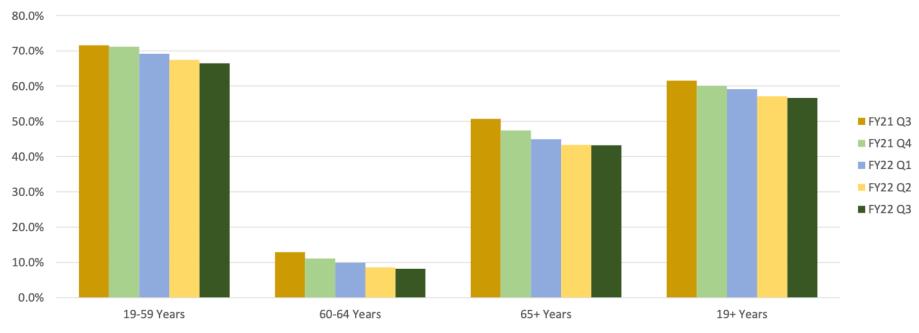


- Impact of the COVID-19 pandemic
- Vaccine misinformation and "fatigue"
- Nationwide declines in vaccine coverage for all age racial, and ethnic groups
- Health disparities among AI/AN for vaccine preventable
   illness



#### Vaccine Trends- Adults

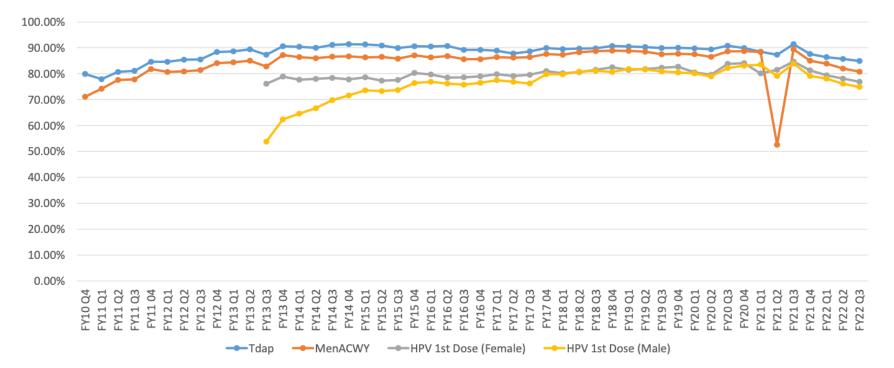
#### Adult Immunization Composite Measures \* Appropriately Vaccinated Per Age Recommendations IHS National



\* 19-59 years with Tdap ever and Tdap/Td <10 years; 60-64 years with Tdap ever and Tdap/Td <10 years and Zoster; 65+ years with Tdap ever and Tdap/Td <10 years and Zoster and Pneumo; and 19 years and older with appropriately vaccinated per age recommendation

#### Vaccine Trends- Adolescents

#### Adolescent Vaccine Coverage 13 Year Olds IHS National

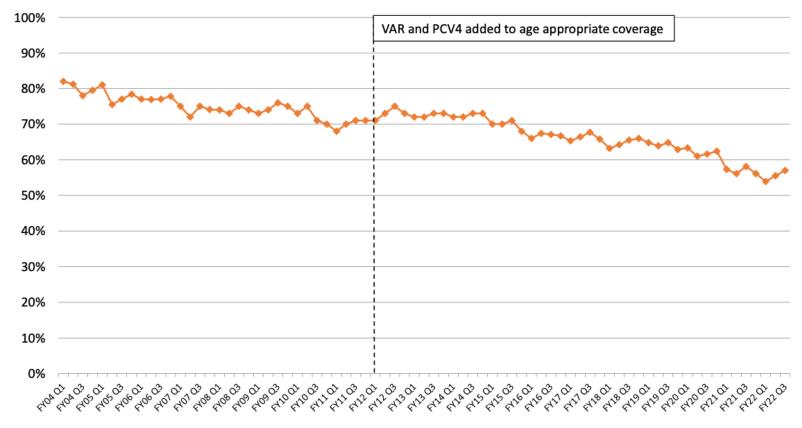


Data source: National Immunization Reporting System (NIRS):

https://www.ihs.gov/NonMedicalPrograms/ihpes/immunizations/index.cfm?module=immunizations&option=home

#### Vaccine Trends- Infants/Children

#### Age Appropriate Immunization Coverage 3-27 month olds IHS National



Data source: National Immunization Reporting System (NIRS): https://www.ihs.gov/NonMedicalPrograms/ihpes/immunizations/index.cfm?module=immunizations&option=home

### A Call to Action

- Comprehensive/Adaptable System of Health Care
- Vaccination is a highly effective prevention effort
- Pro-active approach
- Prioritization of vaccination at every visit
- System-based strategies



E3: Every Patient, Every Encounter, Every Recommended Vaccine

# Elements



- Every season
- All age groups
- Regular and transient patients
- Community members and non-community members



### **Every Encounter**

- Preventive, Chronic, Acute
- Ambulatory, ER/Urgent Care, Inpatient
- Medical, Pharmacy, etc.
- Public Health
   PHN/MCH Home Visits
   Community Events
   Head Start/School Events
   Mass Vaccinations Events



#### **Every Recommended Vaccine Offered**

- All ACIP-recommended vaccines
- No distinction between "routine" vaccines and those recommended in response to disease outbreaks
- Patient informed consent and autonomy



# When Appropriate

- Clinical indications for the patient, encounter, and vaccine
- Subject to ACIP-recommended precautions and contraindications:

https://www.cdc.gov/vaccines/hcp/acip-recs/generalrecs/contraindications.html

- Safely & Correctly, Every Time
  - Mitigating risk of vaccine administration errors



E3: Every Patient, Every Encounter, Every Recommended Vaccine

# **Operational Plan**

#### **Building on Success- Pandemic Response**

- Leadership of Tribal Communities
- Collaboration across I/T/U System of Care
- Vaccine and Medication Campaigns
  - COVID-19 Vaccines
  - COVID-19 Medical Countermeasures
    - Antivirals- Remdesivir & IHS Test to Treat Initiative
    - Monoclonal Antibodies



# NPTC & the IHS National Core Formulary

- IHS National Pharmacy & Therapeutics Committee
- IHS National Core Formulary (NCF)
- The Four Pillars of IHS Formulary Management
  - Access, Quality, Value, and Equity
- All ACIP-recommended vaccines are on the IHS NCF
- Vaccine Safety Surveillance



# **Operational Plan**

- Bottom Up Approach
- Communications
- Stakeholder Engagement & Collaboration
- Resource Bank
- Cross Pollination
- E3 Champions Challenge & Pilot Program
- Data Trends
- Sustainability



# Bottom Up Approach

#### **Vision**

- Grass-roots strategy
- "Reverse" hierarchy (Local -> Regional -> National)
- "Shots in arms"
- No Effort Too Small

#### <u>Local Team</u>

- Facility
- Unit
- Tribal Community



# Communications

- Communication "Saturation" System-Wide (I/T/U)
- IHS Blog, Week-in-Review
- Tribal and Urban Leaders
- NPTC Website (E3 Vaccine Strategy Tab)
- IHS All-Call
- NCCMO, NNLC & AVPOCs
- National Combined Councils- 2023
  - Theme: Strengthening Collaboration for Safe, Quality, Healthcare Outcomes
- NPTC Summer 2023 Meeting
- Listservs



### Stakeholder Engagement & Collaboration

- Leadership at Every Level (HQ, Area/Region, Facility, Unit)
- Clinical and Public Health Disciplines
   NIP/AVPOCs, Nursing, Public Health Nursing, Pharmacists, Providers et al.
- Tribal and Urban Indian Organization Partners
- Tribal Communities



#### **Resource Bank- Overview**

- Launched March 2023
- One-Touch Access
   Tools and hyperlinks
  - IHS NPTC website
    - E3 Vaccine Strategy Tab (<u>https://www.ihs.gov/nptc/e3-vaccine-strategy/</u>)
- Clinician and patient/community oriented materials
- Utilize existing expertise (e.g. CDC, ACIP, ACP/AAP)
- AI/AN-specific resources



#### **Resource Bank- Materials**

#### Dynamic updates

- IHS Safeguard our Future Fact Sheets
- Provider Resources
  - Vaccine Safety
  - Quality Improvement
  - Support tools
- Patient Resources

- E3 Resource Bank	
IHS Safeguard Our Future Clinician Factsheet	IHS Safeguard Our Future Patient Factsheet
Facts for IHS clinicians: COVID-19 & routine vaccination for infants, children, and teens.	Facts for patients and caregivers, safeguard your children: vaccinate today.
Read More	Read More
Provider Resources:	
1) Safety & Preventing administration errors	
a. <u>CDC Needle Gauge and Length</u> C b. <u>CDC Pink Book, Chapter 4: Vaccine Safety</u> C c. <u>CDC Pink Book, Chapter 6: Vaccine Administration</u> C	
2) Quality Improvement Support tools	
<ul> <li>a. <u>American College of Physicians (ACP) Raise the Rates flyer</u></li> <li>b. <u>American Academy of Pediatrics (AAP) Office Strategies for Improving Immunization Rates</u></li> <li>c. <u>AAP Sample PDSA flyer</u></li> <li>d. <u>CDC Pink Book, Chapter 3: Immunization Strategies for Healthcare Practices and Providers</u></li> </ul>	
3) Additional Resources for Providers	
<ul> <li>a. <u>IHS.gov Immunization Resources for Providers</u></li> <li>b. <u>CDC Yellow Book, Health Information for International Travel, Chapter 2 (including Vaccination &amp; Immunoprophylaxis: General Recommendations</u></li> <li>c. <u>HHS Catch-up to Get Ahead Toolkit</u></li> </ul>	
<ul> <li>d. <u>AAP Adolescent Immunization Discussion Guides</u></li> <li>e. <u>Vaccine Recommendations and Guidelines of the ACIP</u></li> </ul>	

# **Quality Improvement Through Cross Pollination**

- Steal shamelessly, share seamlessly
- For the good of the whole
- Integrate I/T/U efforts
- Best practices & lessons learned
  - Learning from success AND failure
  - Pro-active outreach
    - Potential I/T/U Pilot Sites
    - Area & Site Communications
    - Key Stakeholders

#### US

Audio Live TV Log Ir

The first-ever vaccine for honeybees has been approved by the USDA

By Zoe Sottile, CNN Updated 11:32 AM EST, Sat January 7, 2023



# E3 Champions Challenge

- A Friendly Competition
- Three Components
  - 1. Encouraging Innovation
  - 2. Incentivizing Effort
  - 3. Recognizing Success
- Federal, Tribal, Urban Programs
- Community, Facility, Unit Level



# E3 Champions Challenge- Criteria & Recognition

#### Criteria

- 1. 2022 baseline
- 2. Any Calendar Year Improvement (ACIP-recommended vaccines): 2023-2025
  - 5% in three or more individual and/or combination vaccine measures -OR-;
  - 20% in any one individual or combination vaccine measure

#### Vetted at local level

- Attestation letter from organization, facility, or unit leader
- Sharing of best practices and lessons learned
- Submission to <a href="mailto:ihsmedsafety@ihs.gov">ihsmedsafety@ihs.gov</a>
- Written recognition at national level
  - Signed Certificate of Recognition as "IHS E3 Vaccine Champion"
  - Virtual "Wall of Champions"

#### E3 Champions Challenge- Resources

- E3 Champions Challenge Fact Sheet
- Sample Letter of Attestation

- Coming Soon;
  - E3 Virtual Wall of Champions

# E3 Champions Pilot Program- Overview

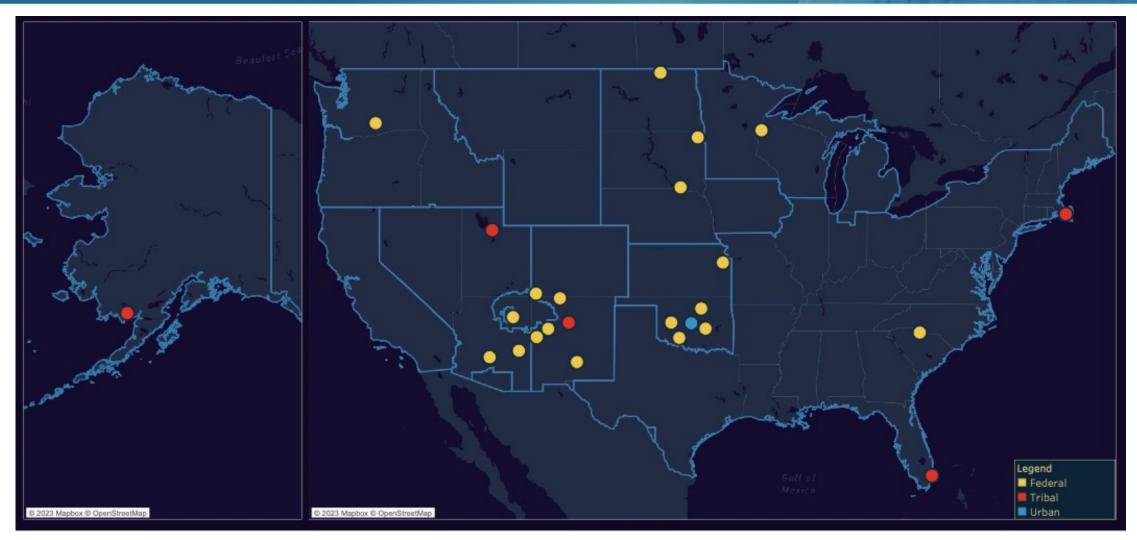
- Launch date- March 1, 2023
- Actively seeking E3 Vaccine Strategy Pilot Teams
- Brief Application
  - 1. Name and location of your team.
  - 2. Tribal community/communities served.
  - 3. Brief narrative (200 words or less) describing your vaccine-related project and objectives.
  - 4. Submission to ihsmedsafety@ihs.gov
- Letter of Designation
- Details: <u>E3 Champions Pilot Program Fact Sheet</u>

### E3 Champions Pilot Program-Intent

- Priorities- Effort and Innovation
  - No Effort is Too Small
- I/T/U Clinical & Public Health Teams (Community, Facility, Unit)
- Failure is an option (Lessons Learned)
- E3 Champions Challenge (Best Practices)
  - Recognition of success
  - Qualification as an E3 Champion is not a pre-requisite



#### IHS E3 Vaccine Strategy- Pilot Site Locations



E3: Every Patient, Every Encounter, Every Recommended Vaccine.

Designated Pilot Sites/Teams as of 6/15/23

# E3 Champions Pilot Program- Sites

- Designated Pilot Sites/Teams- Onboarding Weekly
- Areas (Alaska, Albuquerque, Bemidji, Great Plains, Nashville, OKC, Phoenix, Portland)
  - As of 7/5/23
- Goals
  - Every Area & Site
  - Federal, Tribal, and Urban Indian Organization sites/teams
  - Maximum Participation
- No Effort Too Small



## Sample Approaches

- Vaccine Ambassadors,
- Medical Provider Vaccine
   Standardization
- Medical Reminders
- Provider
   Recommendation
- Motivational Interviewing
- Incentives

- School-Located Vaccination
   Programs
- Home-Delivered Vaccination
- Workplace Vaccination
- Effective Messages Delivered by Trusted Messengers
- Combating Misinformation

Source: cdc.gov



#### **Data Trends- Embedded Metrics**

- Process and Outcome Measures
- Utilize/Maximize Existing Metrics
- National Immunization Reporting System & NDW/Datamart
- All Federal Programs (Areas and Direct-Care Sites)
  - GPRA Immunization Panel
  - I-Care
- Participating Tribal and Urban Indian Organizations
  - Tribal/THO Regional/Local Systems- Vaccination rates



### Data Trends- NIRS

- Intermediate and Long-Term National-level Vaccination Trend Data
  - Historical and contemporary data
- Unique to the IHS Service Population
- Site participation in the National Immunization Reporting System
  - NIRS training materials & support
  - Designated site contacts & manual data entry (quarterly)
  - Fully automated process- Coming Soon!



# Sustainability

- Vaccination as the Agency Clinical and Public Health Prevention Priority!
- Leadership support at every level
- Multi-disciplinary engagement
- Integration into routine operations (Every Facility, Every Day)
- Consistent messaging
- Long-term commitment

# IHS E3 Vaccine Strategy- Web Content

- IHS National Pharmacy & Therapeutics Committee website
- E3 Vaccine Strategy Tab
  - <u>https://www.ihs.gov/nptc/e3-vaccine-strategy/</u>
  - Operational Plan (Jan 2023)
  - E3 Champions Challenge & Pilot Program (March 2023)
  - E3 Resource Bank (March 2023)
  - Coming Soon...
    - Virtual IHS E3 Wall of Champions
    - Best Practices & Lessons Learned



### IHS E3 Vaccine Strategy- Web Content

□ ~ <	>		C			🔒 ihs.gov		ර		Û + D		
	U.S. Department of Health and Human Services											
	The Federal Health Program for A				Service American Indians and Alaska Natives			Search IHS	Q			
				r American Indians				≣ <u>A to Z Index</u>	Employee Resources Feedback			
	The Indian Health Service is working closely with our tribal partners to coordinate a comprehensive public health response to both COVID-19 and mpox.											
	About IHS	Locations	for Patients	for <b>Providers</b>	Community Health	Careers@IHS	Newsroom		🔒 Login	f		
	National Pharma	cy & Therapeutics	Committee / E3 Vac	cine Strategy						<b>y</b>		
	National Pharmacy & Therapeutics Committee			E3 Vaccine Strategy						P		
	About		2023				2022					
	Antibiotic Stewardship Program		E3 Operational Plan (Jan 2023) [PDF - 1 MB]				<u>IHS E3 Vaccine Strategy [</u> KB]	Documentation (Nov 2022) [PDF - 462	ē			
	Charter						КDJ	Open All Close All				
	Clinical Guidance											
	COVID-19			+ E3 Champions Challenge								
	E3 Vaccine Strategy			+ E3 Resource Bank								
	Formulary											
	Pharmacovigilance											
	Meetings Schedule											
	Meeting Updates											
	Мрох											
	Contact Us	Contact Us										
	Strategic Initiatives											
				HS Headquarter	s, Indian Health Service	, 5600 Fishers Lan	ie, Rockville, MI	D 20857 - <u>Find a Mail Stop</u>				

E3: Every Patient, Every Encounter, Every Recommended Vaccine

# Conclusions

# Agency-Wide Effort

- HQ Senior Leadership & Staff
- IHS National Pharmacy and Therapeutics Committee
- IHS National Immunization Program
- Area Leadership & Staff
- Tribal, Urban Indian Organization, and Federal Partners
- Local Facilities
- Multidisciplinary (Clinical, Public Health)

...most importantly, Tribal Communities!



# The Measure of Success

- A marathon, not a sprint
- Sustainability requires commitment and a system-based approach
- Making Vaccination Our Preventive Clinical and Public Health Priority
- Staff Engagement
  - Encourage Innovation and Effort
  - Recognize and Share Successes and Lessons Learned



### **IHS National-Level Leadership**

- IHS CMO Blog (November 2022)
- Associated Press (November 2022)
- CDC/ACIP Presentation (November 2022 and February 2023)
- HHS National Vaccine Advisory Committee (February 2023)
- CMS Spotlight (March 2023)



### Messaging-Internal

THE ALTH SERVICE.	The Federal Health Program for American Indians and Alaska Natives											
	The Indian	Health Service is	working closel	orking closely with our tribal partners to coordinate a comprehensive public health response to both								
About IHS	Locations	for Patients	for <b>Providers</b>	r Providers Community Health Careers@IHS News								
Newsroom / IHS Blog / November 2022 Blogs / IHS Announces Vaccine Strategy: Every Patient Will Be Offered a Vaccine When Appropriate												
IHS Blog												
Announcer	nents			IHS Announces Vaccine Strategy: Every Patient Will Be								
Congressio	onal Testimony		Offer	Offered a Vaccine When Appropriate								
Fact Sheet	s		by Dr. Lo	retta Christensen, MBA, I	icer N	lovember 17,	2022					
Director's S	speeches			As a critical public health prevention priority in our vulnerable service population, IHS advocates recommending vaccines to our patients. E3 focuses on 1) <u>Every</u> patient at 2) <u>Every</u> encounter should be offered 3) <u>Every</u> recommended vaccine <u>when appropriate</u> .								
IHS Blog												
Press Rele	ases			In the wake of the COVID-19 pandemic, we continue to see disturbing trends reflecting decreased vaccine coverage for many vaccine-preventable illnesses. Even as we continue to deal with the dual								
Reports to	Congress		public he	public health emergencies of COVID-19 and monkeypox, it is essential that we amplify our efforts to								
Tribal Lead	er Letters			ensure comprehensive vaccine access and coverage for all age groups both for emerging infection diseases and routine vaccine preventable diseases.								
Urban Lead	der Letters		coverage	I have directed all federal direct care sites to respond to this important call to active coverage and protect against vaccine preventable illnesses in tribal communities. encounter will be offered every recommended vaccine when appropriate C.								
				IHS will exempt encounters in which a vaccine would not be appropriate such as moderate or severe acute illness.								
			Native co coverage for COVII ensure th	Historically, vaccine-preventable illness has taken a disproportionate toll in American Indian and A Native communities. One of the indirect effects of the pandemic has been a decline in routine vacc coverage rates for children, adolescents, and adults. While we continue to promote broad vaccine for COVID-19 and American Indian and Alaska Native persons at risk for monkeypox, we must als ensure that we take every opportunity to offer routine vaccination, including seasonal influenza, po measles, mumps, rubella, varicella and the full range of bacterial illnesses for which vaccines have								

### Messaging-External



#### Featured by CMS

### Covering Indian Country

#### March 2023

#### Spotlight: IHS's E3 Vaccine Strategy

Recently published CDC data show that the number of kindergartners vaccinated against measles, whooping cough, and polio has dropped during the past two school years.

Routine immunizations help families and communities stay healthy. And people are more likely to be up to date on their immunizations when health care providers take every opportunity to vaccinate.



That's why the Indian Health Service (IHS) urges providers to apply the <u>E3 Vaccine</u> <u>Strategy</u> (PDF, 463 KB, 1 p) in day-to-day practice.

#### Routine immunizations help families and communities stay healthy.

According to the E3 Vaccine Strategy, **every** patient at **every** encounter should be offered **every** recommended vaccine when clinically indicated.

As you conduct outreach in your community, help support that strategy by sharing:

 IHS's toolkit for parents and families, <u>Safeguard Our Future: Protect Tomorrow</u>, <u>Vaccinate Today</u> (PDF, 14.3 MB, 12 pp) €∨ ⊟

### Awareness- Spread the Word

# **IHS Signature Block**



### Mission and Goals

### Mission

No unvaccinated AI/AN person will suffer a poor outcome or die from a vaccine preventable illness.

### Goals

- 1. Increase vaccine rates in Indian Country to the highest level
- 2. Reduce rates of vaccine-preventable illness in Indian Country
- 3. Save AI/AN lives in every community & every age group (infants to elders)



### Questions?



### Indian Health Service National Pharmacy and Therapeutics Committee IHS E3 Vaccine Strategy



# Infectious Disease ECHO July 20, 2023

### Matthew A. Clark, MD, FACP, FAAP

Chief Medical Officer, Alaska Area Native Health Service, IHS Chair, IHS National Pharmacy and Therapeutics Committee (NPTC)

Every patient. Every encounter. Every recommended vaccine.