

First Responder Vaccine Initiative (FRVI)



PRESENTED BY:

Thomas Zink, MD

Biosecurity Subject Matter Expert to PREPARE
DHS CWMD's First Responder Vaccine Initiative

MODERATED BY:

Steve Redifer

2021-03-31



*Homeland Defense & Security
Information Analysis Center*

First Responder Vaccine Initiative (FRVI)



 Washington
University in St. Louis
SCHOOL OF MEDICINE

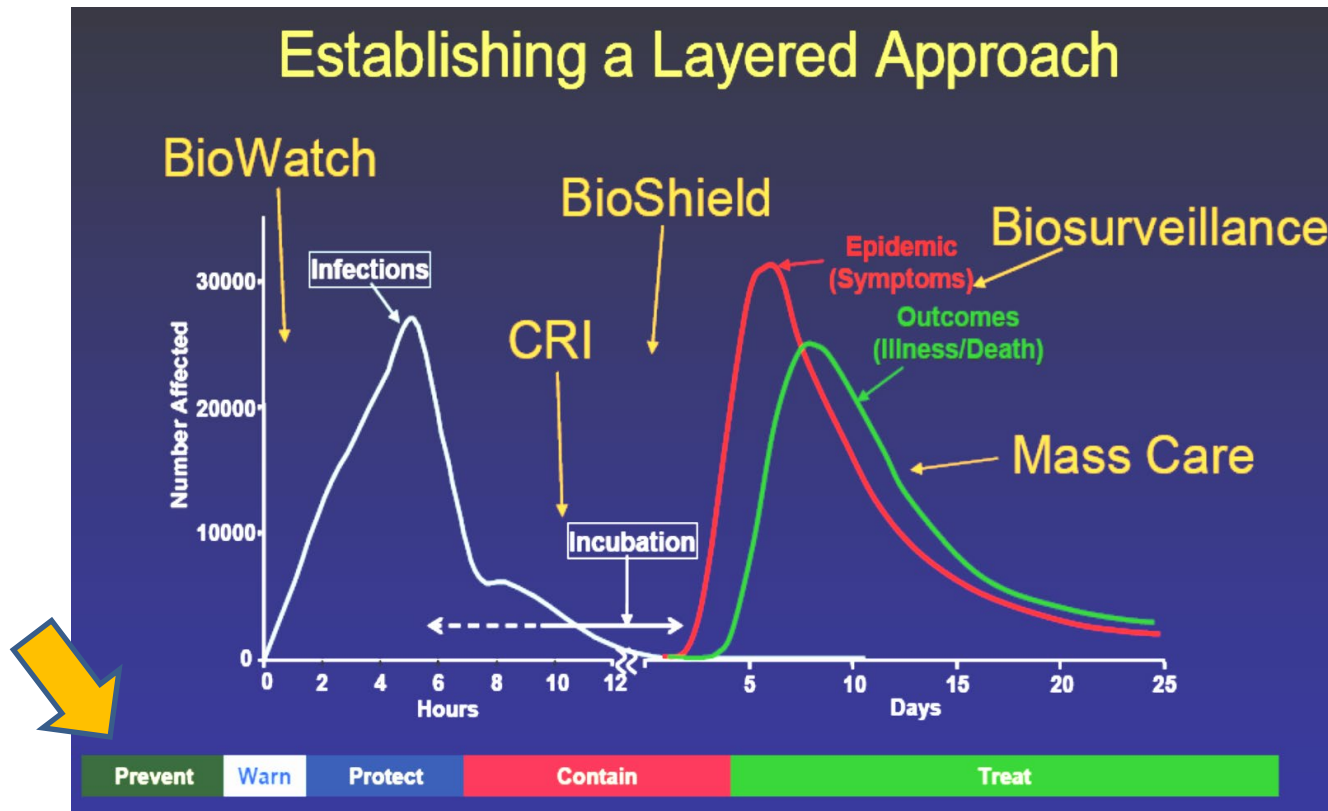
PREPARE

**Program to Ready Emergency Personnel
for an Anthrax Response Event**

Emergency Care Research Core Washington University – St. Louis

This work was supported by a Cooperative Agreement (number 19DNFRV00001), awarded by the Department of Homeland Security Countering Weapons of Mass Destruction Office.

Idea



* Rajeev Venkayya, MD, White House Security Council, September 2006

Rationale

Threat is a function of three Variables:

- Probability (Intent x Capability)
- Vulnerability
- Impact



As any of these variables approach
ZERO...
so does the Threat.

Impact

Past Experience: Anthrax Letters



Number that received antibiotic treatment	30,000
Number of illnesses	22
Number of deaths	5
Decontamination	3 Buildings
Direct Economic Cost	>\$1B

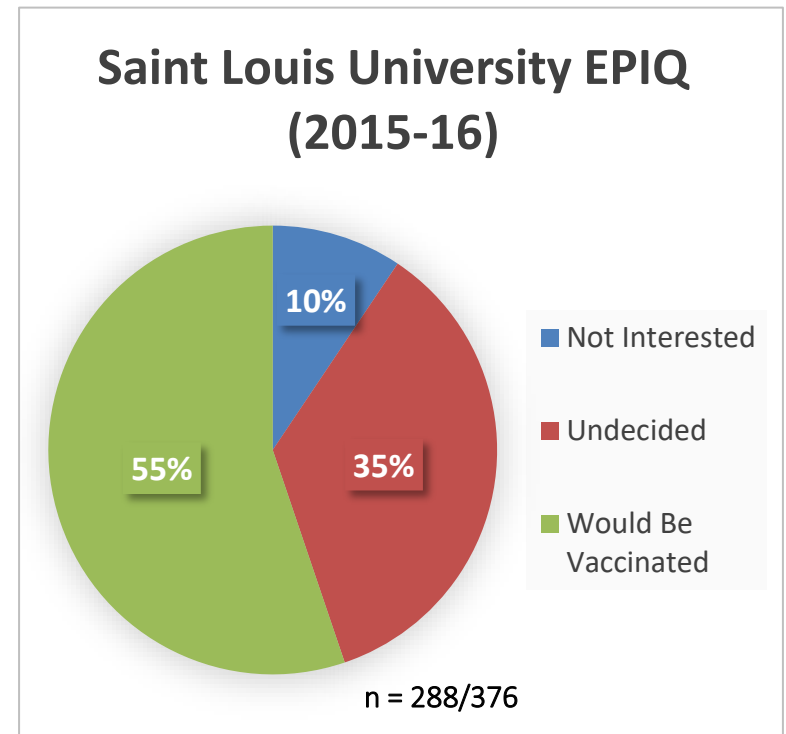
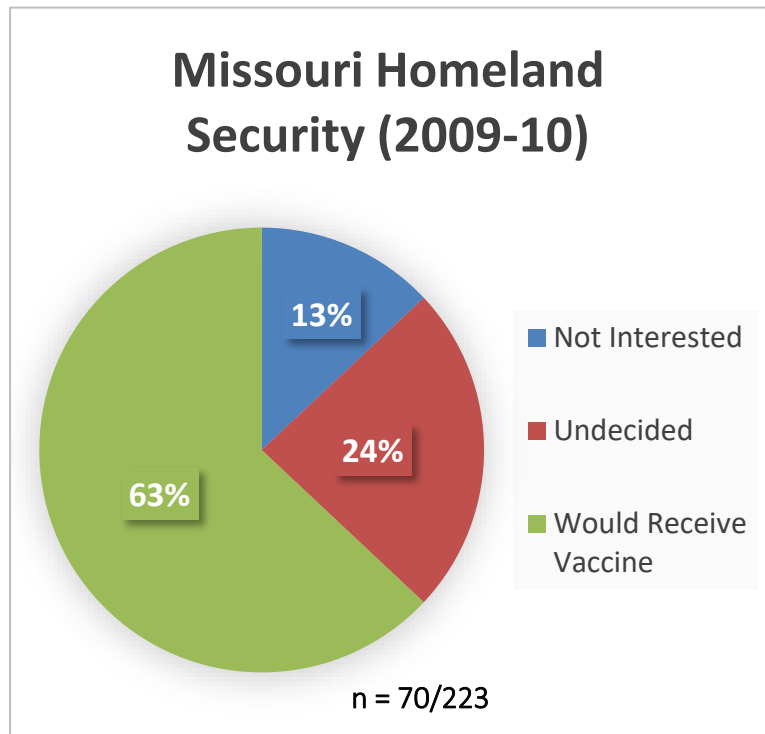
Current threat: Aerosol Release



Number that will need antibiotic treatment	1.9-3.4M
Number of illnesses	~450,000
Number of deaths	~380,000
Decontamination	City wide
Projected Economic Cost	> \$1.6 Trillion

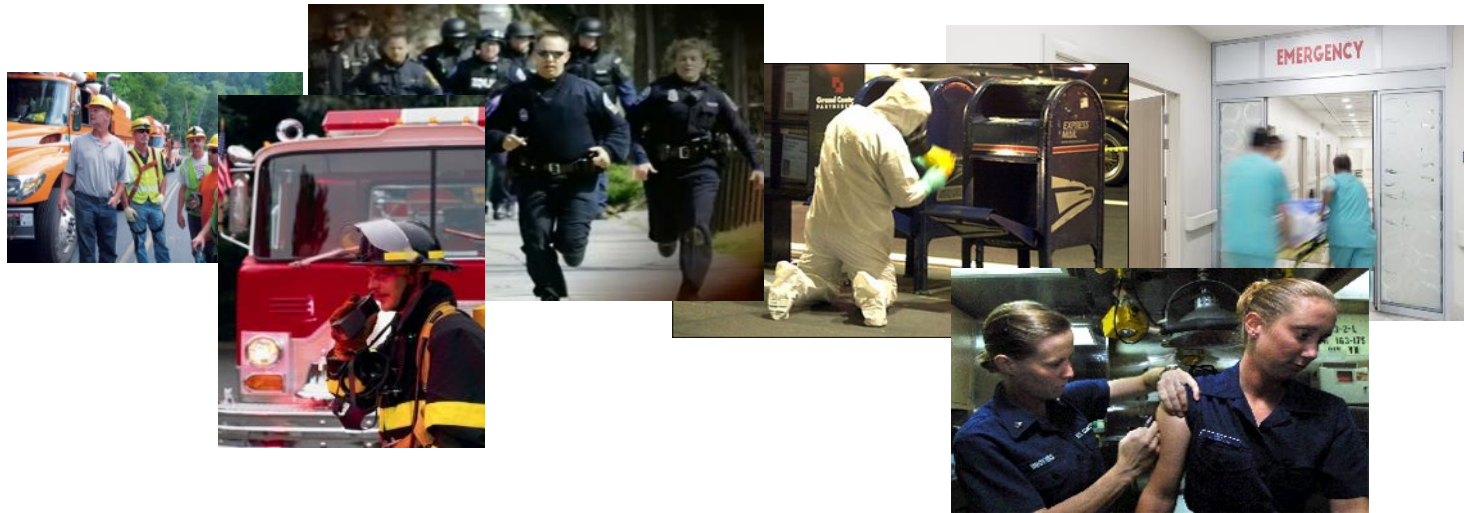
Target

Responder Opinions on Vaccination Against Anthrax



Target

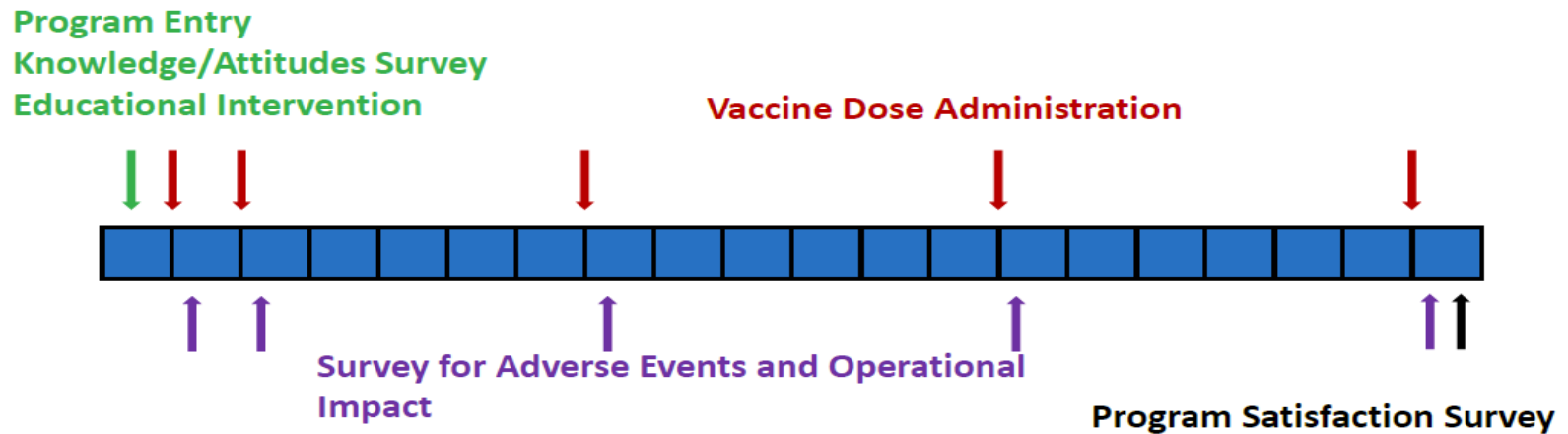
“Pre-event anthrax vaccine may be offered by a participating pilot State to eligible emergency responders who are engaged in response activities that might lead to exposure to aerosolized anthrax spores.”*



* First Responder Anthrax Preparedness Act (Public Law 114-268)

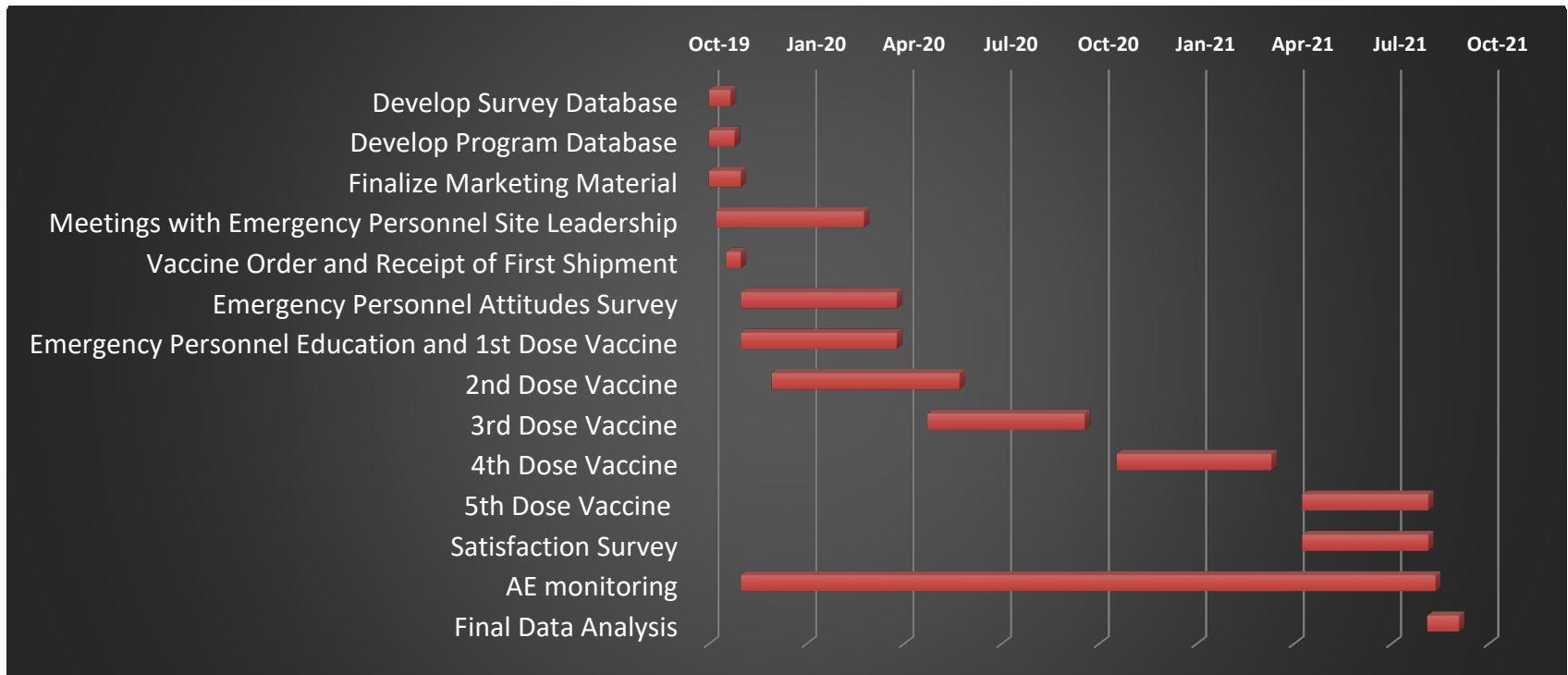
Overview

Project PREPARE



Identify | Reach | Communicate | Tailor | Execute | Document

Program Schedule



Resources

- Facilities
 - Administrative space in Washington University ECRC
 - BSL2 Lab with temp-monitored vaccine refrigerator for secure vaccine storage
 - Dedicated Vaccine Suite
- Data Command
 - PREPARE constituent database
 - Vaccine inventory and accountability
 - Survey Response
- Software
 - RedHat Data Management

Analytics & Deliverables

Analytics

- Survey on Anthrax Threat and Vaccine Knowledge and Attitudes
- Education Intervention Metrics
- Program Efficiency/Cost Analysis
- Immunization Metrics

Deliverables

- Monthly Progress Reports
- Quarterly Financial Reports
- Yearly and Final Data Analysis



**Program to Ready Emergency Personnel
for an Anthrax Response Event**

Results to Date

PROJECT PREPARE	Education	Vaccination	% Uptake
IN-PERSON	1659	1095	67%
VIRTUAL	30	22	
ASYNCHRONOUS	520	5	Pending
TOTAL	2209	1122 +	?

Acknowledgments

■ PREPARE Advisory Board

- Stacey House, MD, PhD – Co-Chair
- Fred Echols, MD – Co-Chair
- Tom Zink, MD (Biosecurity; Vaccinology)
- Brian Froelke, MD (EMS; Disaster Response)
- Gary Christman (Emergency Management)
- Justen Hauser (Disaster Preparedness)
- Ntasiah Shaw, MS, CDP, CEM (Disaster Preparedness)
- Michele Ryan, (Emergency Management)

■ PREPARE Staff

- Administrative Coordinator – Becky Fleming
- Educators
 - + Kelly Counts, NP; Carla Robinson-Rainey, NP
- Nurses/Paramedic Coordinators
 - + Sam Broadhacker RN, EMT-P; Aaron Day EMT-P
 - + Bronson Flint EMT-P; Jesse Hocking RN
 - + Stephanie Johnson RN; Jamie Rolando RN
 - + Misty Tribout RN, EMT-P; Brian Umali, RN
- Program Data Team
 - + Phil Asaro MD
 - + Julie Ziegler, Danaye Gebru, Aaron Papp

PREPARE

For further information:

Thomas K. Zink, MD

PREPARE Advisor
Emergency Care Research Core
Division of Emergency Medicine
Washington University School of Medicine
215.681.3433 | zink@wustl.edu



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