Coordinating a Smallpox Vaccination Clinic Training



Communicable Disease Service-Bioterrorism Unit
New Jersey Hospital Association
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Smallpox...A Brief History

- Orthopox: variola virus
- Naturally occurring smallpox eradicated
- Civilian vaccination ended in 1972

 First time immunization for security rather than public health A single case-patient of smallpox anywhere in the world would be considered a **public health emergency** and require an immediate and coordinated response to contain the outbreak, prevent further infection, and control panic.





Assumptions

- Voluntary vaccination
- Response team members only
- <100 individuals per clinic
- Clinical Accuracy vs. Patient Throughput
- Sufficient time to pre-plan



Smallpox is Different

Natural disease eradicated

Protect against a biological weapon

•How to establish risk/benefit ratio?



Clinic Logistics

FIGURE 1. New York City residents line up for vaccinations during a smallpox vaccination campaign — New York City, 1947



Photo/Associated Press



Pre-Clinic Issues

- Planning
- Staffing
- Pre-Education
- Technology
- Vaccine considerations





- Locally
 - Hospital
 - Health Department
- Regionally
 - LINCS Agencies
 - State Regions





Northwest

Sussex, Warren, Morris, Passaic

Northeast

Bergen, Essex, Hudson

Central West

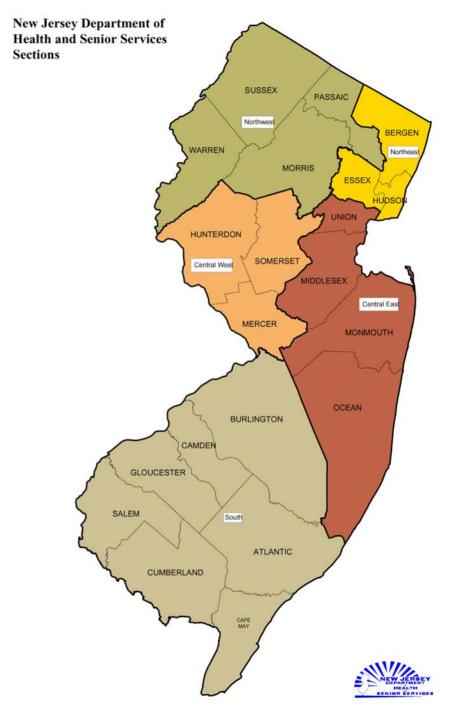
Hunterdon, Somerset, Mercer

Central East

Union, Middlesex, Monmouth, Ocean

South

Burlington, Camden, Gloucester, Salem, Cumberland, Cape May, Atlantic



Clinic Planner

Clinical Manager





- Notify NJDHSS
- Identify staff
 - Determine staffing needs
- Identify site(s)



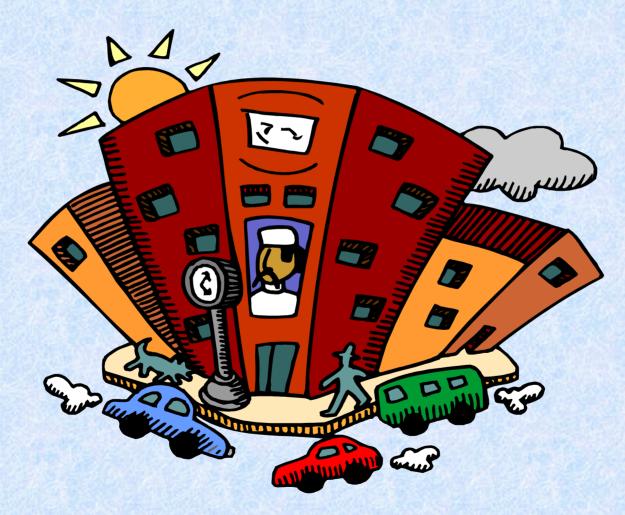
- Publicize clinic to "vaccinees"
- Obtain supplies/equipment



- Identify hospitals to treat Adverse Events
- Identify staff and site(s) for "take" reads
- Identify staff to perform active surveillance and record Adverse Events



Selecting a Site





Site(s) should have:

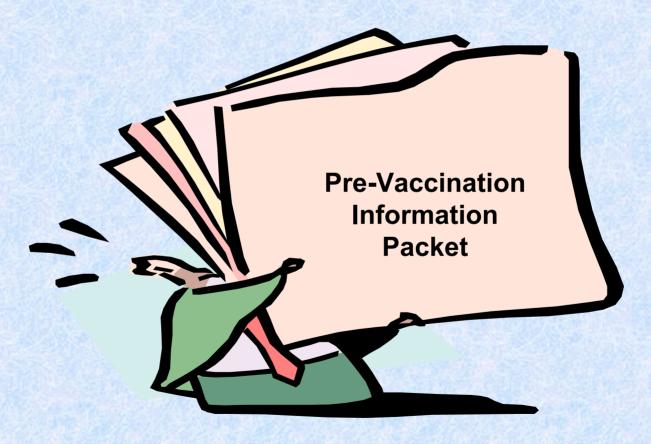
- Parking
- Lighting
- Heating/Cooling
- Restrooms
- Accessible accommodations



- Internet access
- Electrical outlets
- Tables and chairs
- Screens/barriers
- Security and refrigeration for vaccine



Pre-Education





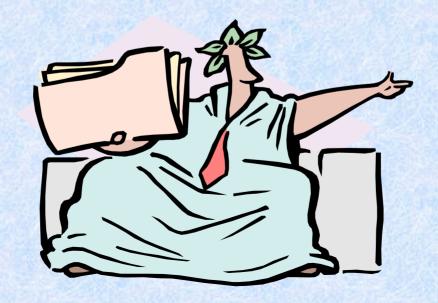
Pre-Education

- At least 1 week prior to clinic
- Assists in decision making process
- CDC materials MUST be used and may not be altered

Materials on the web: www.bt.cdc.gov

Liability and Compensation

- Section 304 of the Homeland Security Act
- Smallpox Emergency Personnel Protection Act of 2003





Clinic Workstations

- · Check-in
- Registration
- Education
- Medical Screening
- Medical Consultation



Vaccination

After Care/
Observation

 Mental Health/Crisis Counseling

· Check-out



Staffing

- Nurses
- Physician(s)
- Health Educators
- Security
- Volunteers

- Paramedic/EMS
- Mental health counselors
- IT specialists
- Administrative personnel



Staff Training

All staff should attend a Pre-Education session

Vaccinator and "Take" reader training

PVS training

Clinic Day "Orientation" for all staff



Technology Requirements





Technology Requirements

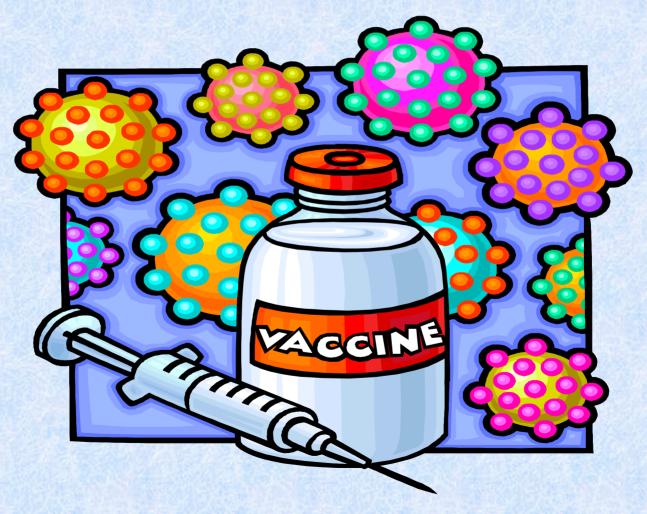
 Access to NJ Preparedness Vaccination System (PVS)

Internet required for PVS

Computers needed at various stations at clinic



Vaccine Considerations





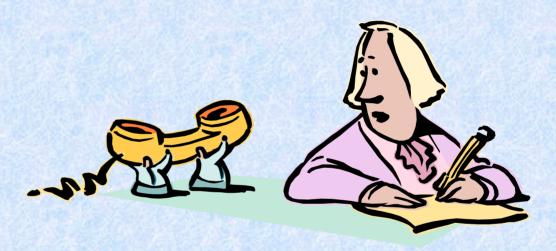


- Contact NJDHSS to obtain vaccine
- Live virus vaccine
- Administered by physicians and registered nurses with NJ license only
- Must be trained to administer smallpox vaccine



Post-Clinic Issues

Follow-up



Adverse Events



Vaccinee Follow Up

Vaccination site care

Symptom diary

"Take" reading

Dealing with problems





Clinical Manager Follow Up

- Assure vaccinees have take reading
 - Phone reminder
 - No reading = unsuccessful vaccination

Perform active surveillance

Report adverse events information

"Take" Readings



Adverse Events

What is an Adverse Event?

First consideration is medical treatment

 The San Francisco Experience



Adverse Events

NJDHSS is notified

NJDHSS informs CDC via VAERS form





Adverse Events Associated with Smallpox Vaccination in United States, January 24-November 30, 2003

Adverse Event	Military	Civilian
Eczema vaccinatum	0	0
Erythema multiforme major	0	0
Fetal vaccinia	0	0
Generalized vaccinia	35	3
Inadvertent inoculation, non-ocular	2	20
Myocarditis/pericarditis	69	22
Ocular vaccinia	0	3
Postvaccinial encephalitis	1	1
Progressive vaccinia	0	0
Pyogenic infection of vaccination site	0	0
Other serious adverse events	Not reported	90
Other non-serious adverse events	Not reported	707

Evaluation

- Assess strengths and weaknesses
- All participants evaluate clinic
- Types of evaluations
 - "Hotwash"
 - Survey
 - Informal assessment



Mary-Jo Foster, RN, MEd Laura Taylor, MS, CHES

NJDHSS
Communicable Disease Service
Bioterrorism Unit
(609) 588-7500

