ATSDR, USEPA, & CNMI Partnership Brownfields and Marpi UXO Health Survey

PIEC June 2009 Saipan World Resort, CNMI



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EPA Brownfields, ATSDR & Public Health

- ATSDR and USEPA identified a need to incorporate public health in the brownfields process
- The Brownfield Law allows use of up to 10% of EPA brownfield grants for health monitoring activities

 health education, identification of community health issues, geospatial analysis

 ATSDR is working with EPA and Grantees to better define health monitoring activities.





ATSDR Activities at Redevelopment Projects

| Steps in the Redevelopment Process | ATSDR ACTIVITY |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organize the development community | Community Guidebook |
| Evaluate environmental and health issues | Site Inventory Tool Health Risk Assessment Tools for State and Local Health Ongoing Health Assessment Activities Community Based Health Projects |
| Communicate risk to the developmental community | Train the Trainer Guidebookhealth risk communication modules |
| Redesign community with health in mind | Community Four Step Model |
| Measure environment and health change | To be determined |

DPL Assessment Grant

- Assess the extent of unexploded ordnance (UXO) and munitions constituents (MC) contamination at Marpi Point Village Homestead
- Evaluate actual health impacts associated with UXO in the CNMI with assistance from USEPA and ATSDR







UXO Health Monitoring Partnership







UXO Health Survey

- Determine impact of UXO and MC on public health
- Increase public awareness of:
 - -dangers posed by UXO and MC and
 - proper actions to take when UXO and MC are encountered





Increase Public Awareness

- Posters
- 5-Minute Video
- 30-Second Public Service Announcement





Posters



RECOGNIZE Retreat and Report







Don't touch unexploded ordnance. Call 911 with exact location.



5-minute Video and PSA







UXO Health Survey

- Commonwealth Health Center Medical Records
- Trust Territory Archives
- National Park Service
- Saipan Historical Preservation Office
- Micronesian Claims Commission
- National Archives in Maryland
- Island word-of-mouth network







UXO Health Survey

- Interviewees
 - Manamko (Senior)
 Center
 - CNMI Legislature
 - Staff at locations with historical information
 - Scuba Divers
 - Family members

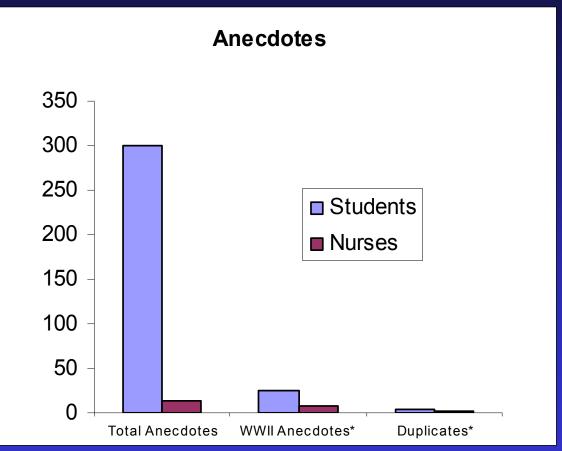






Initial Results

N = 278

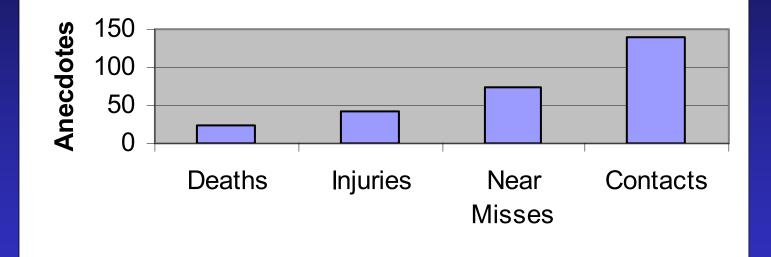






Initial Results

Accidents & Incidents

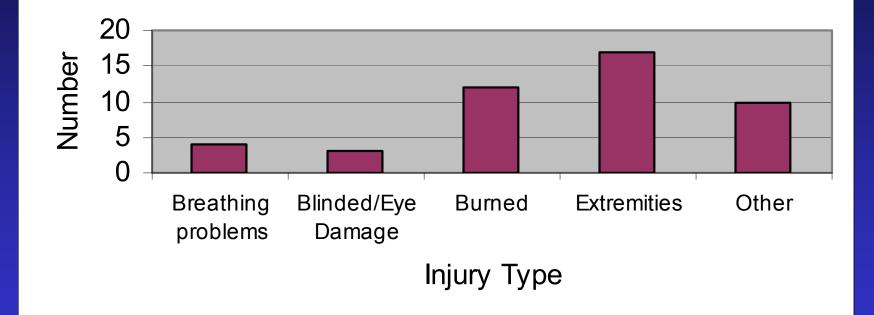






Initial Results

Injuries







Challenges Encountered

- Human Subjects Research
 - Internal Review Board
 - Paperwork Reduction Act
- Data Quality
- Communication Complications





Next Steps

- Additional interview data analysis
- Determine baseline for reporting UXO to XRT
- Roll out outreach campaign
- Evaluate change in reporting six months after start of campaign









