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

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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.

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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 Guidebook--health 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

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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

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Increase Public Awareness

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

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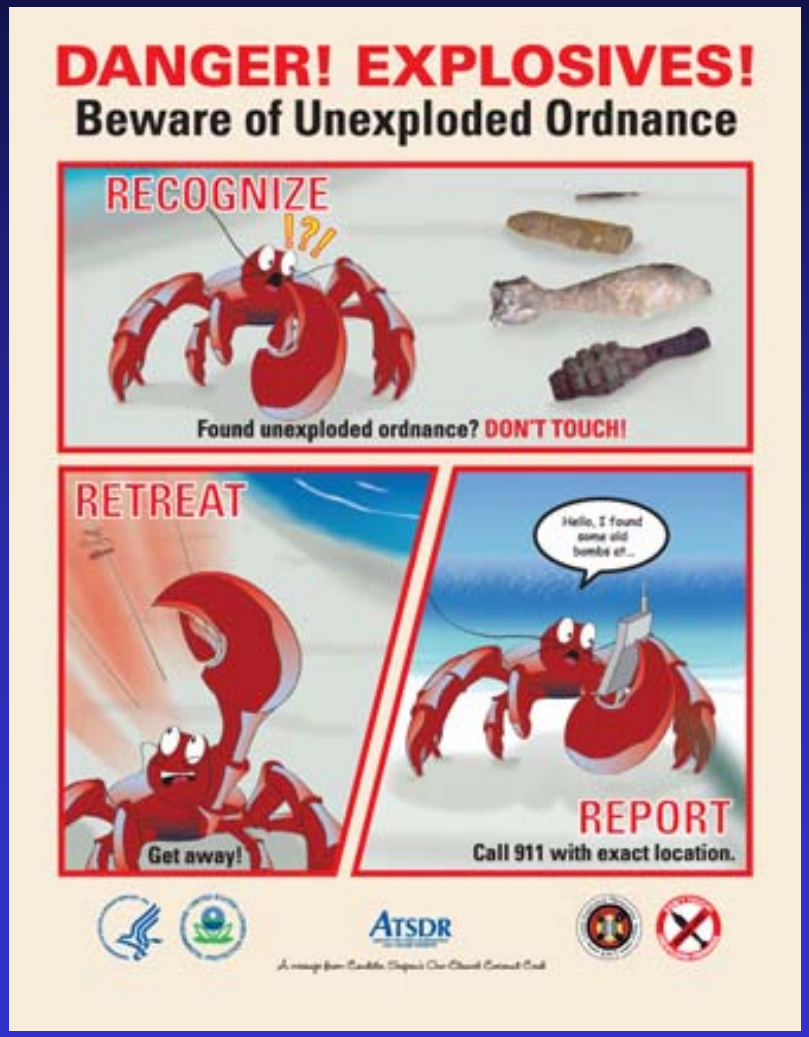
Posters


DANGER! EXPLOSIVES!
Beware of Unexploded Ordnance
RECOGNIZE
!??!
Found unexploded ordnance? DON'T TOUCH!
RETREAT
Get away!
Hello, I found some old bombs at...
REPORT
Call 911 with exact location.
ATSDR

RECOGNIZE
Retreat and Report
Grenades
Mortars
Projectiles
Ammunition
Don't touch unexploded ordnance.
Call 911 with exact location.
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5-minute Video and PSA

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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

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UXO Health Survey

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

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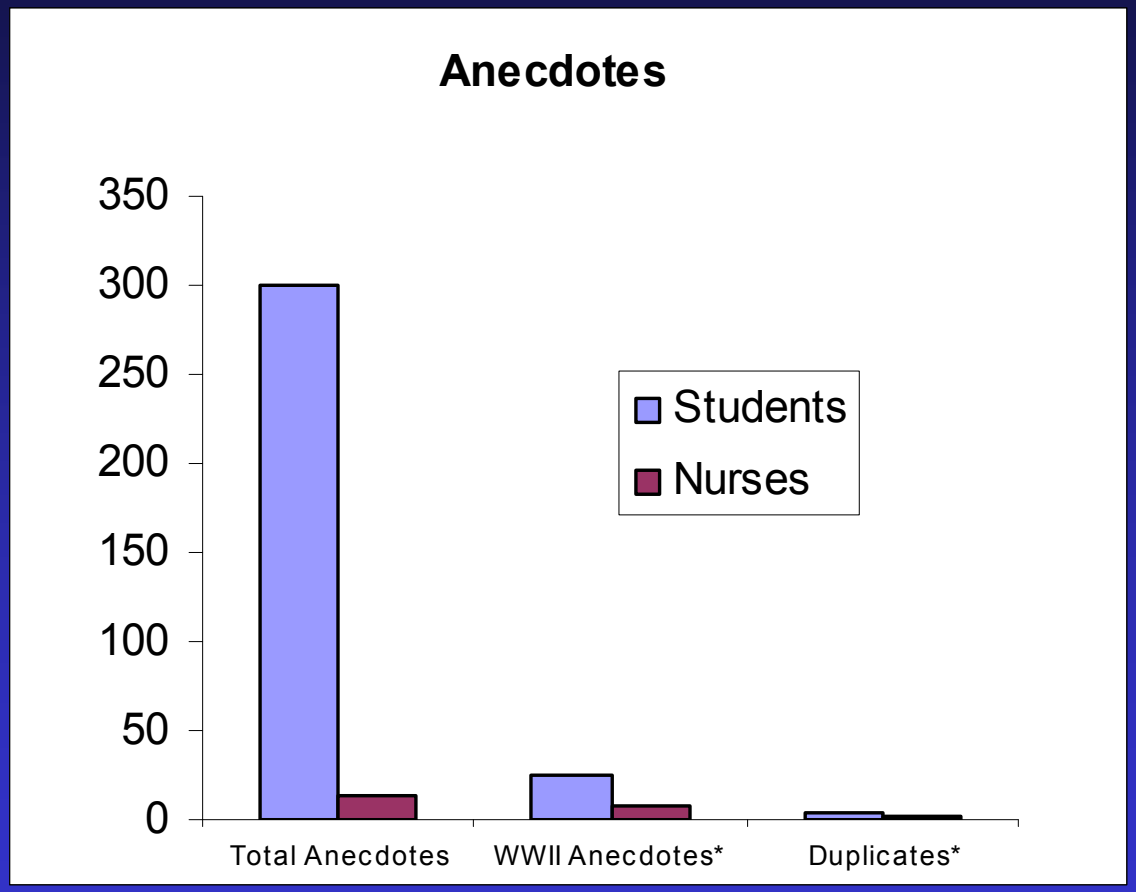
Initial Results

N = 278



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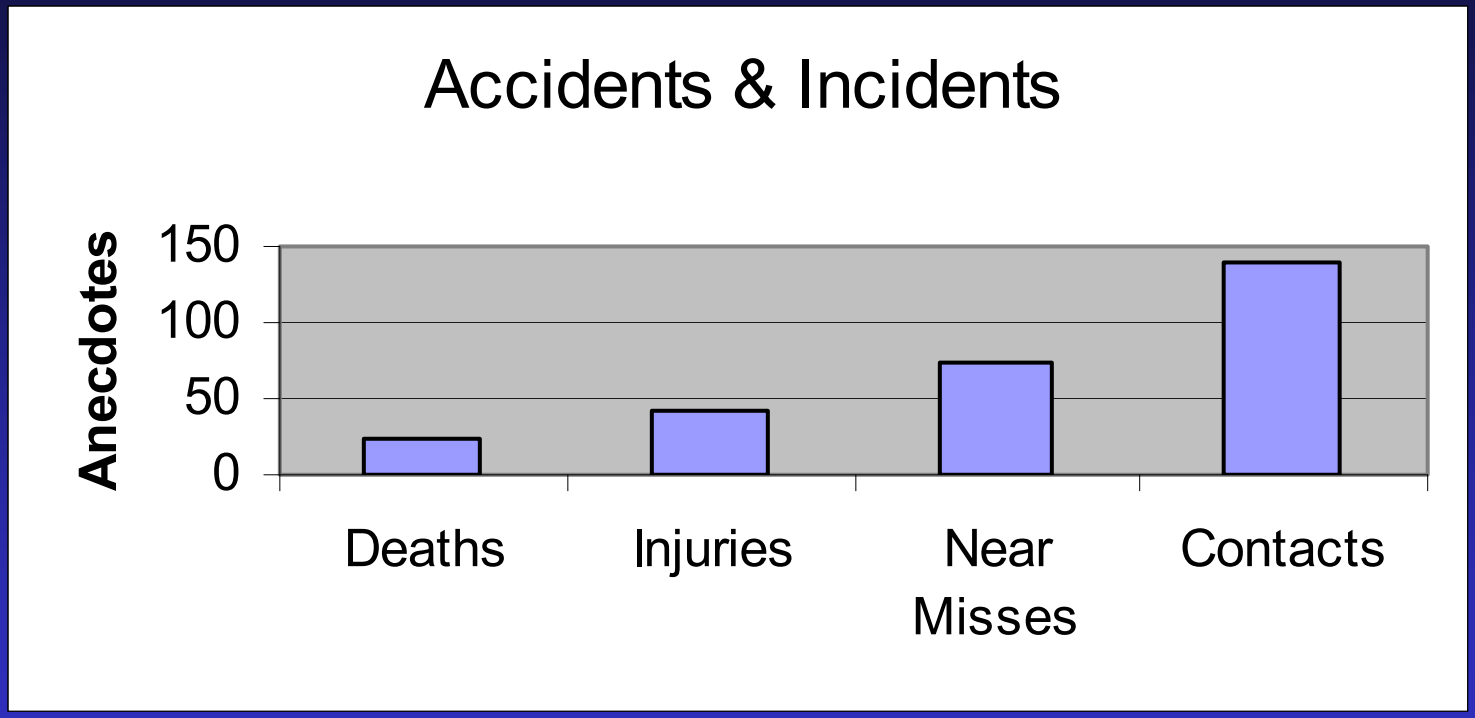
Initial Results



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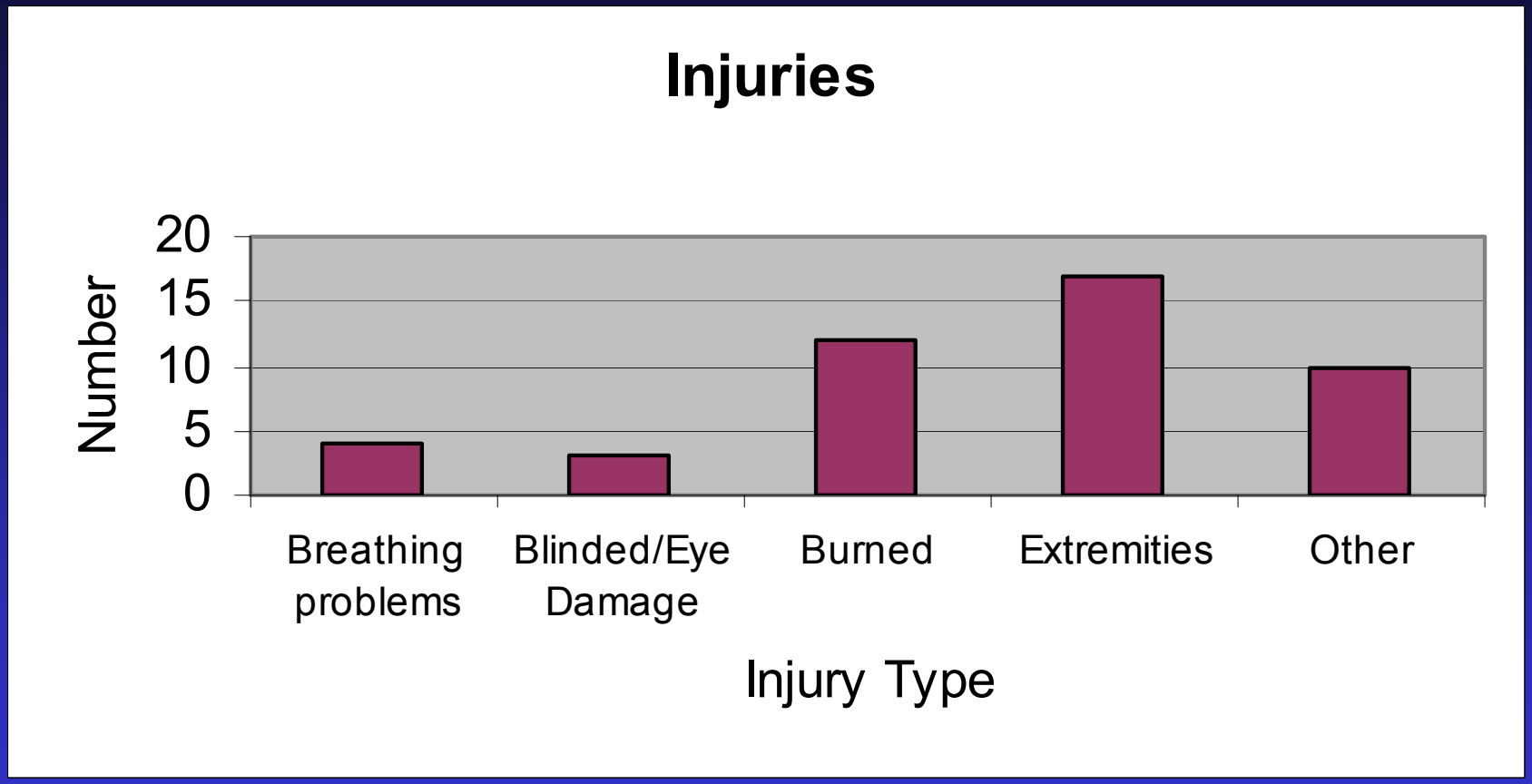
Initial Results



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Challenges Encountered

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

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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

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QUESTIONS?

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