



Expedited Process Proposal

PIRT Meeting

**Thursday, September 18
2008**



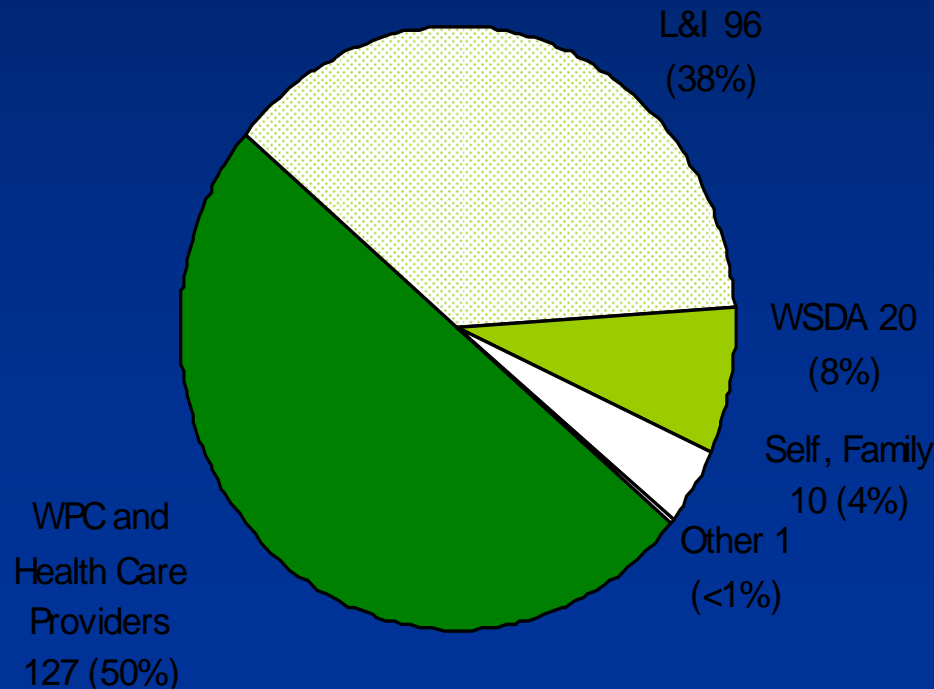
Purpose

- Apply what pesticide illness monitoring has taught us about certain types of exposures.
 - Identify defined, well-understood, scenarios from initial reports at point of case ascertainment. Route to an expedited process.
 - Improve efficiency in documenting these exposures.
- Use investigator time saved to realize focused prevention or other goals.

Case Selection

WPC is major source of non-occupational case reports.

- Sorted WPC report data for non-occupational, residential
- Considered only for the low illness severity.
- Found about 30 cases per year.



Case Exercise

- WPC reports for 2006 - 2007 sorted on
 - Type: residential
 - Severity: minor
- Identified 60 WPC cases. From these, randomly selected 20 for analysis.
- Test
 - The 20 case reports were divided among investigators. They were asked to complete as much of the data entry form using only the WPC report information.
 - Compared results for outcome, severity, and type of pesticide involved.

DOH_Report_ID:5210 WPC_Case_Number:35914 WPC_Center_Code:54 WPC_Year_Code:2007
Date_Recvd: 05/08/2007 Case_Status: Assigned Date_Decide: 05/08/2007 Decided_By: Prado
Caption: Adult reports that she set off 3 bug bombs in apartment at noon yesterday. Syx the following morning. Tier: 1
Investigator: Hanks DOH_Case_Num: 70069
Referred to HCP: Yes Symptoms Reported: Yes
Target Pest: Unknown Rejection Reason:

Patient Information

Name: ██████████
Phone: ██████████
Address 1: ██████████
Address 2: ██████████
City, State, Zip: ██████████
PMD: ██████████
PMD Phone: ██████████
Species: ??
Animal Type: ??
Gender: Female
Preg Duration: ██████████
Age: 28.0 / Years
Weight: /

Caller Information

Name: ██████████
Phone: ██████████
Address 1: ██████████
Address 2: ██████████
City, State, Tacoma, WA
Zip: 98402
County: PRC
Relation to Pat: Self
Multiple Patients: ██████████
Time of Exposure: 5/6/2007 8:00:00 PM
Number of Substances: 1

Exposure Information

Call Type: Exposure
Acuity: ??
Exposure Duration: >8 hr <=24 hr
Exposure Reason: Unintentional - General
Exposure Site: Own residence
Caller Site: ██████████
Caller Site Name: Workplace
Multiple Case Code: ??
Priority: ██████████
Industry Case: ██████████
Follow-up Number: 3

General Information

Center Code: 54
Initial SPI Code: 33
Current SPI Code: 4
Free Area 2A: ██████████
Case Start Date: 05/07/2007
Management Site: Patient already in (enroute to) HCF when PCC called
Enroute to HCF: Treated / evaluated and released
Referred to HCF: ??
Initial HCF: Physicians Office or Clinic
Final HCF: ██████████
Therapy Option: ██████████
Medical Outcome: Minor effect
Clinical Effects Duration: <=24 hrs.
Free Area 1: ██████████
Free Area 2B: PIRT
Free Area 2C: ██████████
Free Area 3D: ██████████
Free Area 3E: ██████████
Free Area 3F: ██████████
Primary Center: ??
Override Flag: ??

Description:	1) PYRETHROID	Substances(s)
Verbatim:	raid bug bombs	

Formulation: Aerosol / mist / spray / gas

Dose:

Quantity: 1

unknown

PDX Code:

Concentration:

Certainty: estimate

Generic: 0201046

Result:

Routes of Exposure:

1) Inhalation/nasal

Clinical Effects:

1) Headache

Therapies:

1) Fresh air

Scenarios:

1) Other pesticide exposure

Note(s):

Type	Date	SPI Code
1) Closed Notes	5/7/2007 1:57:13 PM	33

--- Mon May 7, 2007 @ 13:38 By 33:Muresan, Noreen --- * HISTORY: Caller states: set off 3 bug bombs in apartment, at noon yesterday, opened windows at 6 pm, stayed out a couple hrs, only slight smell in apt when she came back. This odor went away in an hour. * Medical History as pertinent: healthy * Symptoms since exposure: woke up with generalized weakness, nausea * Treatment already provided: opened windows * Amount Justification: caller hx * Calculations (omit if redundant with Toxicall): * Assessment (risk to patient): Most likely pyrethroid- the propellants can cause nausea, pyrethroids low toxicity for humans * Management Plan: has appt with MD--advised MD can call PC if has questions. * Resources Used: __ Poisindex rrgmt: pyrethroid

3) Closed Notes	5/7/2007 7:09:14 PM	33
--- Mon May 7, 2007 @ 19:07 By 33:Muresan, Noreen --- PC to cell #: no answer, message left.		

5) Closed Notes	5/7/2007 7:46:46 PM	33
--- Mon May 7, 2007 @ 19:42 By 33:Muresan, Noreen --- Clarissa calling back, MD thought was sensitivity to the bomb, gave shot for headache. Feeling better now, less nausea. Call back pm. Copy for Dr. Robertson and Dr. Hurley. (PIRT)		

6) Validation Notes	5/7/2007 7:57:47 PM	-1
Success		

7) Closed Notes	6/13/2007 5:22:28 PM	4
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Reviewed By 65:Hurley, William -- * Medical Director Review *

DOH Case	Outcome	Outcome	Severity	Severity	Product	Product
Number	Test	PIMS	Test	PIMS	Test	PIMS
60001	O	def	O	low/mild	Frontline; fipronil	EPA#
60005	poss	prob	low/mild	moderate	O	3 Ingredients
60012	O	poss	O	low/mild	Cavalier	EPA#
60075	insuf	insuf	low/mild	low/mild	Mancozeb	Mancozeb
60097	O	poss	low/mild	low/mild	O	EPA#
60098	poss	def	low/mild	low/mild	Ortho season long gr...	EPA#
60130	susp	prob	low/mild	low/mild	chlorfenapyr	EPA#
60198	poss	poss	low/mild	low/mild	Raid deep reach fogger	EPA#
60251	insuf	insuf	low/mild	low/mild	permethrin	insecticide
70001	poss	poss	low/mild	low/mild	O	pyrethrins
70040	poss	poss	low/mild	low/mild	Moss-out	EPA#
70061	poss	poss	low/mild	low/mild	Weed-b-gone; herbicide	EPA#
70069	poss	poss	low/mild	low/mild	Weed-b-gone	EPA#
70137	insuf	insuf	low/mild	low/mild	moss-killer	unk
70204	prob	prob	low/mild	low/mild	Raid Conc... Fogger	EPA#
70217	insuf	poss	low/mild	low/mild	Ritz Flea Bomb	EPA#
70237	insuf	prob	low/mild	moderate	Season long grass...	EPA#
70291	poss	prob	moderate	moderate	Sergeant's Skip Flea..	EPA#
70292	O	def	O	low/mild	Raid Flea Killer + Fogger	EPA#
70299	O	poss	low/mild	low/mild	Bansect Flea and Tick	EPA#
Success						
Rate	Outcome	45%	Severity	75%	Product	(70%)

Results

% Agreement Test to PIMS

- Severity
 - 75% agreement with PIMS.
 - most cases are “low” under the NIOSH scheme.
- Product used
 - 70% agreement with PIMS.
 - Lose the specificity on type of product. (No EPA reg #)
 - Get product name, with some variations.
- Final outcome (definite, probable, possible, suspicious, unlikely) was difficult to obtain.
 - 45% agreement with PIMS.
 - Tendency to underestimate outcome.
 - Incomplete variable info. Even when completed, investigator reticence on finalizing outcome.

Issues

- Do we require specificity of product for these type of non-occupational, residential cases?
 - Generally do get “class” (pyrethrin) or general product brand name (Raid fogger, or Moss Out)
- Does adequate monitoring of these types of cases require a final outcome decision?
 - 18 years of data.
 - Outcome scheme we use is from NIOSH – to enable comparison across states on the occupational cases. This classification scheme was not developed for coding residential cases.
- Investigator concern about losing educational opportunities with patient and physician.
 - Possible severity of illness... may want med records and/or interview.



Identified Prevention Focus Areas

Select a focus area for prevention based on the data*

Examples:

- Residential use of Bug Bombs and other pyrethroid products
- Eye protection.
- Working with retailers to prevent mishaps
- Mosquito repellants (deet containing products)

- Seasonal timing important
 - Be ready with prevention information and interventions pre-season.

*From Pesticide Program Internal Document
“Proposal for a tiered monitoring approach” 2005.



Behavior Change and Policy Change

- Pesticide poisoning is entirely preventable.
 - Our numbers in general are trending downward, however for the past few years residential cases are basically flat.
 - Effective prevention takes time, money and planning.
 - Effective prevention usually involves a combination of behavior and policy changes.

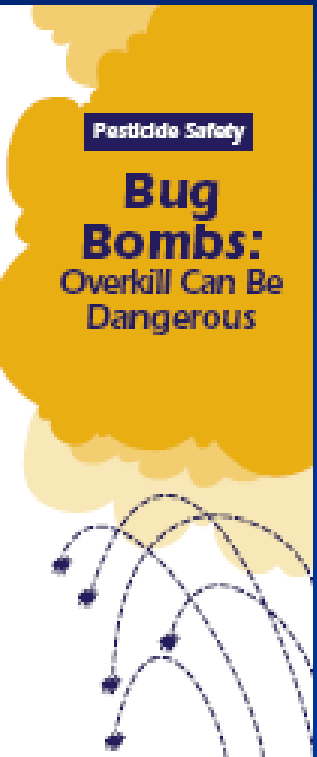




Prevention of pyrethroid illness

3-pronged approach

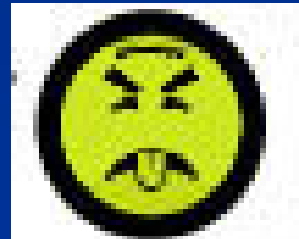
Consumers



Regulators

Joint letter with WSDA to EPA.
Recommendations for label improvements.

Medical/public health community



Conclusion

- DOH Pesticide Program will continue to refine and test ideas for expedited case processing.
- Beginning January 1, 2009:
 - DOH Pesticide Program proposes to implement an expedited process for investigating and documenting certain types of residential, non-occupational exposures.
 - This process will require development of a different and streamlined data entry form.
 - Much of the data will be tallied directly from the initial WPC report.
 - Medical records and case interviews may or may not be obtained, depending on the specifics of the case and the completeness of the WPC form.
 - Criteria for requesting medical records and conducting case interview will be established as we pilot this process.