

Nursing Models for Pediatric Environmental Health

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1995 Institute of Medicine Report

- Education
- Practice
- Research
- Policy/Advocacy



Integration of Environmental Health into Education

Critical Element

Nursing Faculty Development



Integration of Environmental Health into Practice

Critical Element

**Work within the
Nursing Specialties**








Site _____
 Date _____
 RN _____

Home Environmental Health and Safety Assessment Tool

Assessment		Yes	No	N/A	Standard of Practice
	Home built before 1978	0	0	0	<ul style="list-style-type: none"> • Test homes built before 1978 for lead. • Maintain home to prevent chipping or peeling paint • Remove shoes indoors • Test first three floors of all homes for radon • Do not idle car in garage
	Home tested for lead	0	0	0	
	Living space in basement	0	0	0	
	Attached garage	0	0	0	
	Home radon test	0	0	0	
	Home radon ventilation system	0	0	0	
	Living space in basement	0	0	0	
	Combustion heating source	0	0	0	<ul style="list-style-type: none"> • Ensure proper venting of all combustion heating sources. • Annual assessment to ensure proper function. • Do not use grills, or generators indoors
	Gas, kerosene or propane space heater	0	0	0	
	Wood stove	0	0	0	
	Fireplace	0	0	0	
	Gas dryer	0	0	0	<ul style="list-style-type: none"> • Gas dryers, hot water heaters and stove need to vent outdoors
	Vented	0	0	0	
	Gas hot water heater	0	0	0	
	Vented	0	0	0	
	Gas stove	0	0	0	
	Well water	0	0	0	<ul style="list-style-type: none"> • Routine well testing and maintenance of private wells. • Review consumer confidence reports for public water supply
	Lead pipes	0	0	0	
	Water tested for contaminants	0	0	0	
	Known contaminants:	0	0	0	
	Smoke detector	0	0	0	<ul style="list-style-type: none"> • Smoke detector on all floors and in bedrooms • Carbon monoxide detector on all levels in homes with combustion source or garage
	Carbon monoxide detector	0	0	0	
	Fire extinguisher	0	0	0	
	Fire evacuation route	0	0	0	
	Emergency phone numbers	0	0	0	
	Disaster plan	0	0	0	
Shelter-in-place supplies	0	0	0		

Assessment	Yes	No	N/A	Standard of Practice	
Insects in home	0	0	0	<ul style="list-style-type: none"> Use of integrated pest management techniques for controlling pests. Use least hazardous methods of pest control 	
Rodents in home	0	0	0		
If yes what: _____					
Pesticide spraying in home	0	0	0		
If yes what/how often: _____					
Pesticide contract	0	0	0		
Frequency: _____					
	Air freshener used in home	0	0	0	<ul style="list-style-type: none"> Minimize use of air fresheners. Use less hazardous and irritating alternatives to control odors. Use of low VOC household cleaners and green cleaning techniques.
	Candles	0	0	0	
	Plug-ins	0	0	0	
	Incense	0	0	0	
	How many times per day:	0	0	0	
	Use of strong smelling cleaners	0	0	0	
	Tuna fish served in home	0	0	0	<ul style="list-style-type: none"> See federal and state recommended fish consumption advisories Wash all fruits and vegetables before eating Consider organic or locally grown products
	If yes, how often per week: _____				
	Fresh fruit/vegetables used	0	0	0	
	Local/organic products used	0	0	0	
	Mercury thermometer in house	0	0	0	<ul style="list-style-type: none"> Use non-mercury containing medical devices Dispose of all mercury devices and batteries per local hazardous waste collection procedures
	Other mercury devices	0	0	0	
	Needle boxes for needles	0	0	0	
	Use of traditional or cultural remedies containing mercury	0	0	0	
Smoking allowed in home	0	0	0	<ul style="list-style-type: none"> Institute no smoking indoors policy 	
House smells like smoke	0	0	0		
Cigarette products present	0	0	0		



NEONATAL CARE WITHOUT HARM



Katherine M. Jorgensen,
RNC, MSN/MBA,
Hon.D.



Integration of Environmental Health into Research

Critical Element

**Focus on applied research
– intervention studies to
develop evidence-based
practice**









Ratio



& Roach Killer¹⁶ For Household Use

Country Fresh scent

Kills on Contact. Keeps on Killing

KEEP OUT OF REACH OF CHILDREN
SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON BACK

ACTIVE INGREDIENTS:
Permethrin * [(3-Phenoxyphenyl)methyl-(-)-cis-trans-3-(2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate] . . . 0.200%
Pyrethrins . . . 0.130%
Piperonyl butoxide technical ** . . . 0.250%
INERT INGREDIENTS: . . . 99.410%
contains petroleum distillates
*cis/trans isomer ratio: Min. 35% (-)Cis and Max. 65% (-)Trans.
**equivalent to Min. 0.40% of butylcarbitol (6-propylpiperonyl) ether and Max. 0.10% related compounds

NET WT. 12 OZ.

Ratio



Ant & Roach Killer¹⁶ For Household Use

Country Fresh scent

Kills on Contact

KEEP OUT OF REACH OF CHILDREN
CAUTION:
SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON BACK

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Integration of Environmental Health into Policy and Advocacy

Critical Element

**Prepare nurses to speak
to politicians and other
policy makers.**

WHY?

- Nurses are trusted
- Nurses are excellent communicators
- Nurses are fierce defenders of the children, the sick, the poor, and the **environment**

1:100 Americans is a
Registered Nurse

What's the ratio in
your country?

In the U.S.,
1:47 Registered Voters is a
Registered Nurse

- What's the ratio in your country?

Nursing Activities

- Free monthly national calls
- Speakers bureau
- Writer's retreat /// Writings
- Preparing nurse lobbyists (state / national)
- Outreach to Nursing Unions (UAN, SEIU)
- Technical Assistance

Nursing Activities

- National chemical exposures survey
- Mini-grants
- EH Task Force in states
- **Working on the U.S. version of REACH**



THE LUMINARY PROJECT



Nurses Lighting the Way to Environmental Health

The Luminary Project

The Luminary Project: Nurses Lighting the Way to Environmental Health is an effort to capture the illuminating stories of nurses' activities to improve human health by improving the health of the environment.

The shining stories on this website show how nurses are creatively and strategically addressing environmental problems and illuminating the way towards safe hospitals, communities with clean air, land and water and children born without toxic chemicals in their bodies.





