

INTEGRATED PEST MANAGEMENT TOOLKIT FOR EARLY CARE AND EDUCATION PROGRAMS  
CALIFORNIA CHILDCARE HEALTH PROGRAM


## INTEGRATED PEST MANAGEMENT IN EARLY CARE & EDUCATION PROGRAMS




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## ICEBREAKER QUESTIONS

1. What's your name?
2. What's the pest that bothers you the most?
3. What would you like to learn from today's workshop?




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## INTEGRATED PEST MANAGEMENT IN EARLY CARE & EDUCATION PROGRAMS



Funding for this project has been provided in full or in part through a grant awarded by the California Department of Pesticide Regulation (DPR). The contents of this document do not necessarily reflect the views and policies of DPR nor does mention of trade names or commercial products constitute endorsement or recommendation for use.



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## WHY ARE WE HERE TODAY?

Goal: To protect the health of children, staff and the environment





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## BY THE END OF TODAY, YOU WILL BE ABLE TO:




1. Identify the requirements for child care centers as specified in California's Healthy Schools Act.
2. Define what is a pest, what is a pesticide and what is integrated pest management.
3. Explain why children are vulnerable to the health risks of pesticides.
4. Describe the health effects for children and staff exposed to pesticides and common pests.




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## BY THE END OF TODAY, YOU WILL BE ABLE TO:



5. Develop and implement IPM policies and practices in your program.
6. Identify simple and inexpensive IPM methods to prevent or manage common pests.
7. Inspect your child care facility for the presence of pests or conditions that attract pests using the IPM Checklist.
8. Share IPM information and resources with staff and parents.



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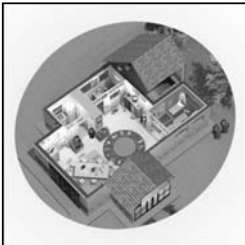

## OVERVIEW

**A. Healthy Schools Act**

**B. Background**

- o Pests
- o Pesticides
- o The health risks of pesticides to children & the environment

**C. Integrated Pest Management**





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## HEALTHY SCHOOLS ACT (HSA)


The HSA requires that all child care centers:

**WARNING**



**Pesticide Treated Area**

- **Keep records** about pesticide use;
- **Maintain a registry** of people to notify when pesticides are used;
- **Notify** parents and staff before pesticides are applied and
- **Post warning signs** in areas where pesticides will or have been applied.



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## HEALTHY SCHOOLS ACT (II)


The HSA encourages centers to:

**Use IPM methods**

**Use HSA exempt pesticides**

**AVOID use of nonexempt pesticides**

- Keep pests out!
- Remove their access to food, water and shelter
- bait stations
- gel/paste in cracks/crevices
- exempt materials (e.g. mint oil)
- cleaners/sanitizers
- sprays
- foggers



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## WHAT DOES THE HSA REQUIRE?


**Property Owners**

If the owner of a property where a child care center is located uses pesticides, they must provide written notice to the ECE center at least 120 hours before they apply a pesticide.


**Pest Management Professional (PMP)**

If a child care center hires a PMP, the staff must inform the PMP that the facility must comply with the Healthy Schools Act. The PMP must notify the center 120 hours before applying nonexempt pesticides.

If a property owner hires a PMP, the property owner must notify the PMP that a child care facility is present on the property.

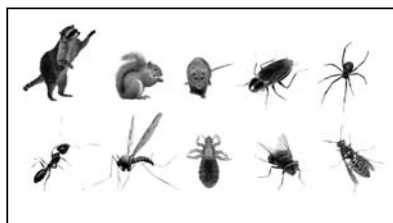


**For complete list of your responsibilities, see CCHP Health and Safety Note on the Healthy Schools Act.**




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## WHAT IS A PEST?

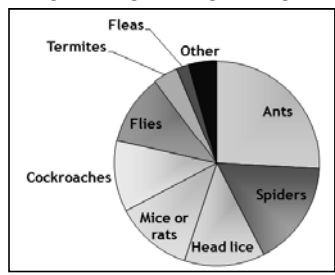


A pest is any living organism that causes damage or discomfort, or transmits or produces disease.




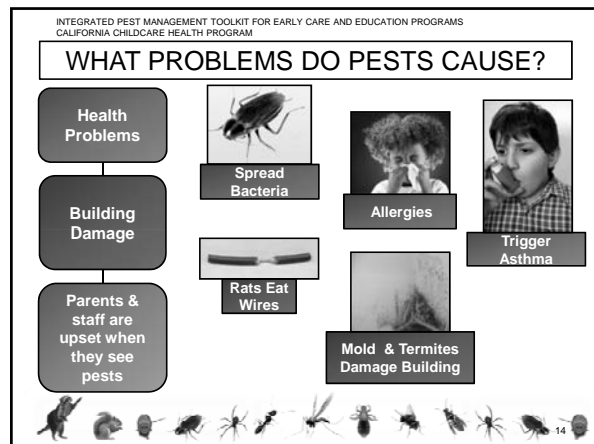
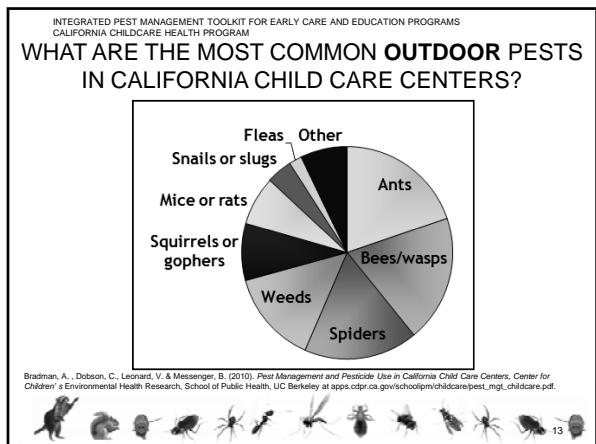
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## WHAT ARE THE MOST COMMON INDOOR PESTS IN CALIFORNIA CHILD CARE CENTERS?



Bradman, A., Dobson, C., Leonard, V., & Messenger, B. (2010). *Pest Management and Pesticide Use in California Child Care Centers*. Center for Children's Environmental Health Research, School of Public Health, UC Berkeley at [apps.cdpr.ca.gov/schoolipm/childcare/pest\\_mgt\\_childcare.pdf](http://apps.cdpr.ca.gov/schoolipm/childcare/pest_mgt_childcare.pdf).





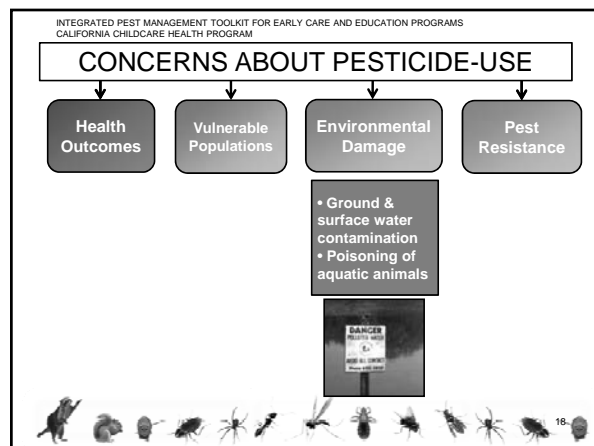
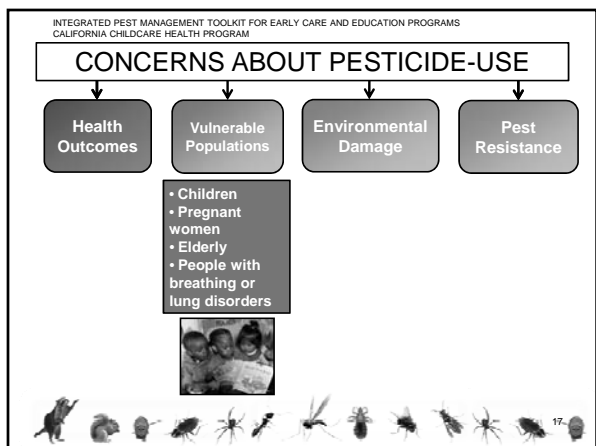
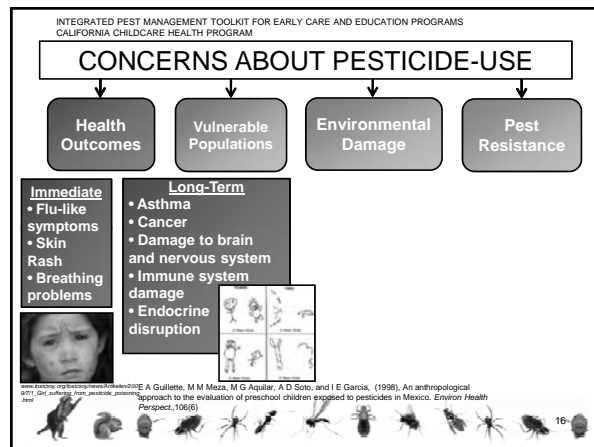
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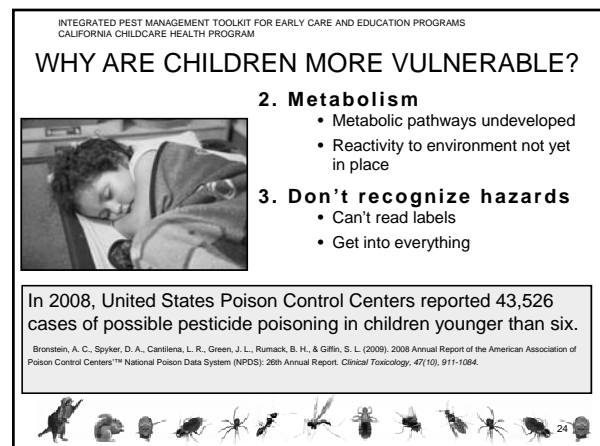
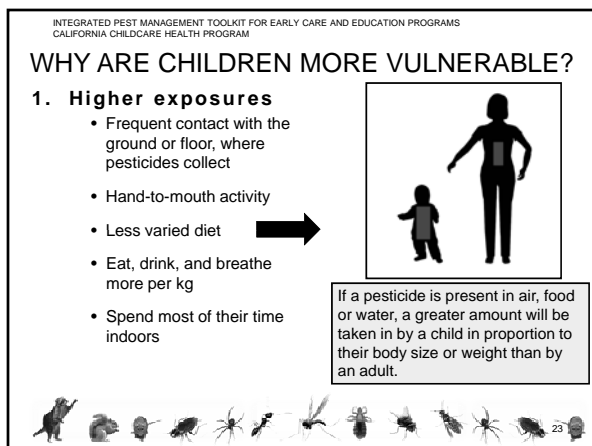
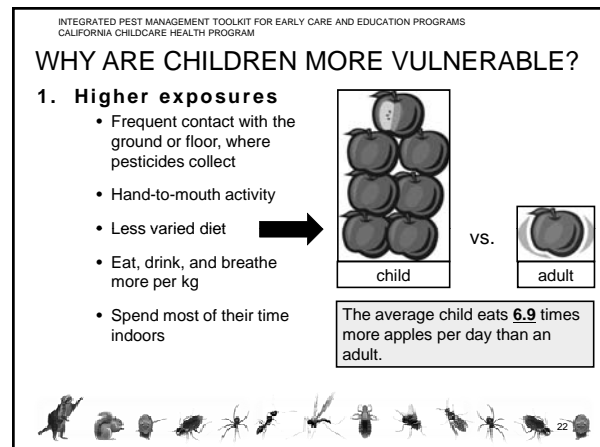
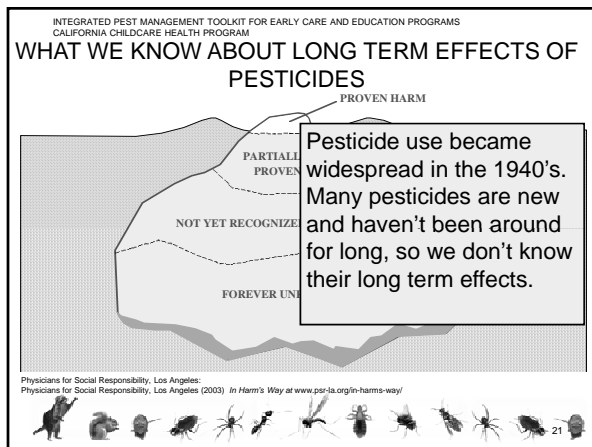
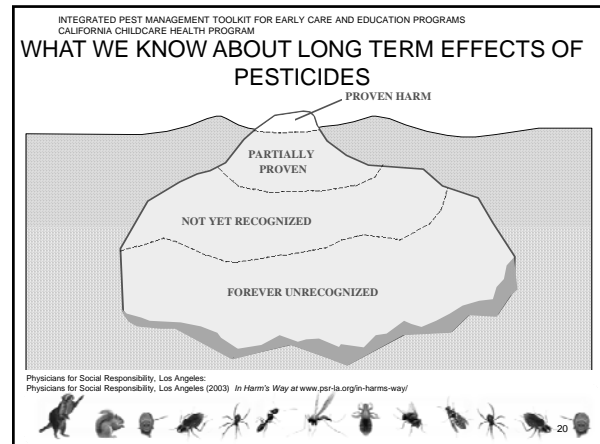
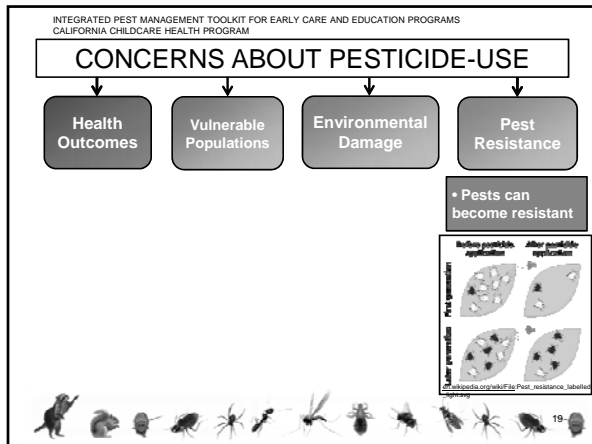
### WHAT ARE PESTICIDES?

Examples:

- Roach and ant spray
- Flea bombs
- Rat poison
- Weed killer
- Mothballs
- Insecticide chalk

Pesticides are **poisons** that are designed to kill or control living things.





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### WHERE ARE PESTICIDES FOUND?

**Agricultural Fields Pesticide Drift**  
**Fruits & Vegetables**  
**Household Products**  
**Public Housing**  
**Contaminated Water**  
**Child Care Center & Schools**

Sanborn et al. Identifying and Managing Adverse Environmental Health Effects: 4 Pesticides. CMAJ May 28, 2002; 166 (11): 1431-1436

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### WHAT ARE THE PATHWAYS OF EXPOSURE FOR CHILDREN?

1. By eating
2. By breathing
3. Through skin
4. Across the placenta (in the womb)

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### HOW COMMON IS PESTICIDE-USE?

California Child Care Pest Management Survey	
Pest problem present	
Using any pesticides	
Using spray or fogger	
Using at least one IPM approach	
Aware of IPM	

Bradman, A., Dobson, C., Leonard, V. & Messenger, B. (2010). Pest Management and Pesticide Use in California Child Care Centers. Center for Children's Environmental Health Research, School of Public Health, UC Berkeley at [apps.cdph.ca.gov/ncdc/odpmm/childcare/pest\\_mgmt\\_childcare.pdf](http://apps.cdph.ca.gov/ncdc/odpmm/childcare/pest_mgmt_childcare.pdf)

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### HOW COMMON IS PESTICIDE-USE?

California Child Care Pest Management Survey	
Pest problem present	90%
Using any pesticides	55%
Using spray or fogger	47%
Using at least one IPM approach	65%
Aware of IPM	25%

Bradman, A., Dobson, C., Leonard, V. & Messenger, B. (2010). Pest Management and Pesticide Use in California Child Care Centers. Center for Children's Environmental Health Research, School of Public Health, UC Berkeley at [apps.cdph.ca.gov/ncdc/odpmm/childcare/pest\\_mgmt\\_childcare.pdf](http://apps.cdph.ca.gov/ncdc/odpmm/childcare/pest_mgmt_childcare.pdf)

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### WHAT IS INTEGRATED PEST MANAGEMENT (IPM)?

A "common-sense" approach to:

- **Preventing pest problems by**
  1. keeping pests out and
  2. getting rid of their food, water and shelter.
- **Managing pest problems by**
  1. using non-chemical approaches;
  2. using least-toxic pesticides when necessary and
  3. reducing the use of harmful pesticide.

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**Prevention** (bottom) → **Intervention** (top)

**EDUCATION, COMMUNICATION & POLICIES**

- Train staff & parents
- Adopt IPM policy
- Hire a PMP with IPM experience

**GENERAL PREVENTION**

- Caulk cracks & crevices
- Replace broken screens
- Repair leaky faucets
- Weatherstrip doors

**SANITATION**

- Use tight-fitting lids on trash cans
- Keep food containers tightly sealed
- Eliminate clutter & standing water
- Clean up crumbs immediately

**PHYSICAL – MECHANICAL**


- Vacuum
- Snap traps
- Glue boards
- Fly swatters

**CHEMICAL**


- Least Toxic Pesticides**
  - Silica gel
  - Boric acid
  - Diatomaceous earth
- Conventional Pesticides**
  - Sprays
  - Foggers

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## IPM NUTS & BOLTS




1. **Prevention** ★
  - Keep Pests Out
  - Remove Pest's Food, Water & Shelter
2. **Inspect and Monitor**
3. **Identify Pests**
4. **Manage Existing Problems**

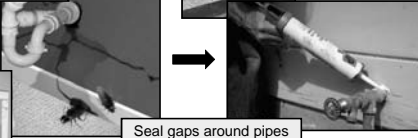


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## PREVENTION: KEEP PESTS OUT




Seal or block gaps around doors. Install doorsweeps.



Seal gaps around pipes




Patch holes in screens



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## PREVENTION: KEEP PESTS OUT

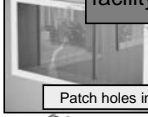


Seal or block gaps around doors. Install doorsweeps.


**Take home message:** Close off entryways so pests can't get into your facility in the first place!



Seal gaps around pipes



Patch holes in screens



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## PREVENTION: REMOVE PESTS' FOOD & WATER

Clean up food before pests are attracted to leftovers

Eliminate sanitation & garbage problems

Eliminate standing water, clogged sinks & leaking faucets

Store food & art supplies in sealed containers



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## PREVENTION: REMOVE PESTS' FOOD & WATER

Clean up food before pests are attracted to leftovers

Eliminate sanitation & garbage problems

**Take home message:** Pests need food and water to survive. Take away their access to these things, and you're taking away their diet!

Eliminate standing water, clogged sinks & leaking faucets

Store food & art supplies in sealed containers



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## PREVENTION: REMOVE PESTS' SHELTER


Replace cardboard boxes with plastic containers with lids

Organize! Clutter provides hiding spots for pests and covers up their evidence



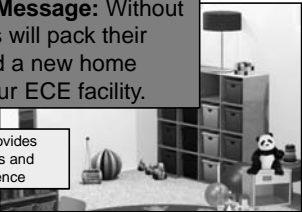
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### PREVENTION: REMOVE PESTS' SHELTER




Replace cardboard boxes with plastic containers with lids

**Take Home Message:** Without shelter, pests will pack their bags and find a new home outside of your ECE facility.





Organize! Clutter provides hiding spots for pests and covers up their evidence




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### INSPECTION





Use the IPM Checklist to look for:

- pests
- signs of pests and their damage and
- conditions that might attract pests.

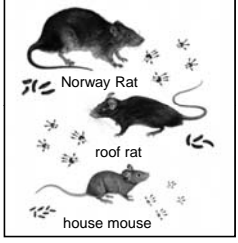


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### IDENTIFICATION

- The next step is to identify what kind of pest you have.
- Use Health & Safety Notes to understand pests' lifecycle, food and shelter.
- The statewide IPM program is a great resource:  
<http://www.ipm.ucdavis.edu>





Norway Rat  
roof rat  
house mouse



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### MONITORING

- Regularly inspect the facility for pests and pest damage.
- Identify sources of food, water and shelter that might attract pests.
- Identify where pests are living and breeding.
- Determine if and when treatment is needed.
- Assess whether current actions are working.






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### MONITORING

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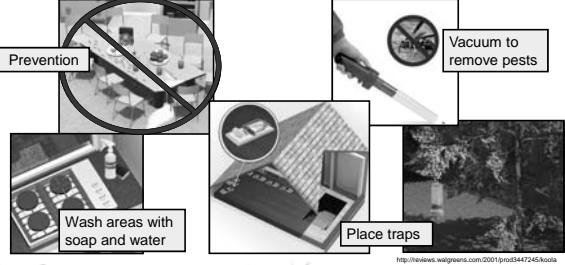
**Take Home Message:** Monitoring is an ongoing process!

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### MANAGEMENT

Often you can manage pests without using chemicals. IPM-recommended techniques include:



Prevention  
Wash areas with soap and water  
Place traps  
Vacuum to remove pests

[http://revisions.walgreens.com/0001prod3447245.koolha1001.html?log=sa&utm\\_source=revisions&utm\\_medium=referral](http://revisions.walgreens.com/0001prod3447245.koolha1001.html?log=sa&utm_source=revisions&utm_medium=referral)



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### MANAGEMENT

Often you can manage pests without using chemicals. IPM-recommended techniques include:

**Take Home Message:** Keeping things clean and in good repair is key to IPM!

<http://www.wildpeas.com/2001/prod5447264koola.htm>

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### MANAGEMENT: CHOOSING THE LEAST-RISK PESTICIDE

Less risk of exposure ← → More risk of exposure

**Exempt**                      **Nonexempt**

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### MANAGEMENT: CHOOSING THE LEAST-RISK PESTICIDE

Less risk of exposure ← → More risk of exposure

**Exempt**                      **Nonexempt**

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### IMPLEMENTING IPM IN YOUR CENTER

1. Write an IPM policy.
2. Designate an IPM Coordinator.
3. Provide training for staff and parents.
4. Obtain information for any outside contractors.
5. If needed, hire a PMP that has IPM experience and knows about the HS A requirements.

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### IMPLEMENTING IPM IN YOUR CENTER (II)

6. If you have a pest problem, inspect buildings and grounds for sources of infestations and contributing conditions.
7. Establish pest monitoring procedures.
8. Identify any pests found and create an IPM Action Plan for each pest you find in your environment.
9. Establish record keeping.
10. Evaluate the program on a regular basis.

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### HOW TO HIRE A PMP

- 1) Identify a PMP with experience in ECE facilities.
- 2) Call several PMPs and ask specifically if they are aware of the Healthy Schools Act and practice IPM.
- 3) Ask what services are included in the PMP's IPM approach.
- 4) Confirm that the PMP understands which services require an ECE director's explicit permission.
- 5) Ask whether they use indoor or outdoor sprays.
- 6) Ask about the qualifications, training and experience of anyone who will work on your site.
- 7) Ask for references from other clients.


If you already have a PMP, talk with him to make sure he's using IPM methods.




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## SCENARIO

You enter a child care facility and note that there is evidence of mice and mold in the kitchen. The staff say that they can't get rid of them and ask you for suggestions. They don't want to spray pesticides around the children.




What would you suggest?  
(Hint: think about access, food, water and shelter)




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## IPM NUTS & BOLTS



1. **Prevention**
  - Keep Pests Out
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## ACKNOWLEDGEMENTS

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**Nita Davidson**, California Department of Pesticide Regulation (DPR)  
**Mark Robertson**, DPR  
**Abbey Aikon**, CCHP, UCSF

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**Illustrations:** Noa Kaplan\*


\*some images from <http://healthyhomescollaborative.org/>



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## ACKNOWLEDGEMENTS (II)

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## RESOURCES

**CALIFORNIA CHILDCARE HEALTH PROGRAM**  
[www.ucsfchildcarehealth.org](http://www.ucsfchildcarehealth.org)  
 • **Fact Sheets for Families**  
[www.ucsfchildcarehealth.org/html/pandr/factsheetsmain.htm](http://www.ucsfchildcarehealth.org/html/pandr/factsheetsmain.htm)  
 • **Health and Safety Notes**  
[www.ucsfchildcarehealth.org/html/pandr/hsnotesmain.htm](http://www.ucsfchildcarehealth.org/html/pandr/hsnotesmain.htm)  
 • **Forms**  
[www.ucsfchildcarehealth.org/html/pandr/formsmain.htm](http://www.ucsfchildcarehealth.org/html/pandr/formsmain.htm)  
 • **Training Curricula**  
[www.ucsfchildcarehealth.org/html/pandr/trainingcurmain.htm](http://www.ucsfchildcarehealth.org/html/pandr/trainingcurmain.htm)  
**AB 405 List of Pesticide Products Prohibited from Use in Schools**  
[apps.cdpr.ca.gov/schoolipm/school\\_ipm\\_law/prohibited\\_prods.pdf](http://apps.cdpr.ca.gov/schoolipm/school_ipm_law/prohibited_prods.pdf)  
 California Department of Pesticide Regulation  
 Childcare IPM: Growing Up Green  
[www.cdpr.ca.gov/schoolipm/childcare](http://www.cdpr.ca.gov/schoolipm/childcare)

California Department of Pesticide Regulation.  
**Pest Prevention: Maintenance Practice and Facility Design**  
[apps.cdpr.ca.gov/schoolipm/managing\\_pests/71\\_est\\_prevention.cfm](http://apps.cdpr.ca.gov/schoolipm/managing_pests/71_est_prevention.cfm)


California laws and regulations on pesticide use  
[apps.cdpr.ca.gov/schoolipm/school\\_ipm\\_law/main.cfm](http://apps.cdpr.ca.gov/schoolipm/school_ipm_law/main.cfm)

Collaborative on Health and the Environment,  
**Endocrine Disrupting Chemicals**  
[www.healthandenvironment.org/?module=uploads&func=download&fileid=773](http://www.healthandenvironment.org/?module=uploads&func=download&fileid=773)

Ecologo  
[www.ecologo.org](http://www.ecologo.org)

Ecowise  
[www.ecowise.com](http://www.ecowise.com)

EPA, Design for the Environment  
[www.epa.gov/dfe](http://www.epa.gov/dfe)



INTEGRATED PEST MANAGEMENT TOOLKIT FOR EARLY CARE AND EDUCATION PROGRAMS  
CALIFORNIA CHILDCARE HEALTH PROGRAM

## RESOURCES (II)

**EPA, Integrated Pest Management for Schools: A How-to Manual**  
[www.epa.gov/opp00001/ipm/schoolipm](http://www.epa.gov/opp00001/ipm/schoolipm)

**National Pesticide Information Center**  
[npic.orst.edu](http://npic.orst.edu)

**National Pest Management Association (NPMA)**  
[www.pestworld.org](http://www.pestworld.org)

**eXtension: Pest Management In and Around Structures**  
[www.extension.org/urban%20integrated%20pest%20management](http://www.extension.org/urban%20integrated%20pest%20management)

**Our Water, Our World**  
[www.ourwaterourworld.org](http://www.ourwaterourworld.org)

**Green Seal**  
[www.greenseal.org](http://www.greenseal.org)

**Pest Control Operators of California**  
[www.pcoc.org](http://www.pcoc.org)

**Green Shield Certified**  
[www.greenshieldcertified.org](http://www.greenshieldcertified.org)

**The Safer Pest Control Project**  
[www.spcpweb.org](http://www.spcpweb.org)

**GreenPro**  
[www.certifiedgreenpro.org](http://www.certifiedgreenpro.org)

**University of California Statewide Integrated Pest Management Program**  
[www.ipm.ucdavis.edu](http://www.ipm.ucdavis.edu)

**IPM Institute of North America, Inc.**  
[www.ipminstitute.org](http://www.ipminstitute.org)

**US Pest Control Regulatory Agencies by State**  
[www.pestnetwork.com/usagencies/bystate.html](http://www.pestnetwork.com/usagencies/bystate.html)

**Maryland Department of Agriculture, Action Thresholds in School IPM Programs. Pesticide Regulation Section, Annapolis, MD.**  
[schoolipm.ifas.ufl.edu/tp.htm](http://schoolipm.ifas.ufl.edu/tp.htm)

