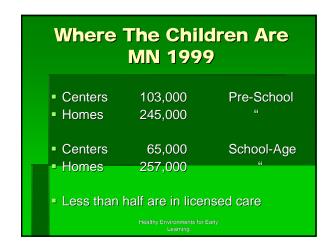
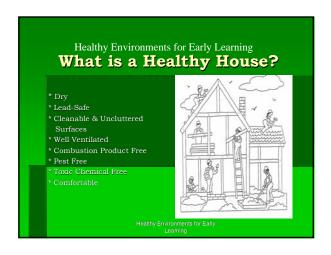
Greater Minneapolis Day Care Association Established in 1968 Child Care Resource and Referral Agency for Hennepin, Scott, Carver, and Dakota Counties

Healthy Environments for Early Learning HEEL is a collaboration of several GMDCA programs Only available for MPLS programs at this time Renovation Loan Program Lead Hazard Control Project Emergency Grants EACH Training Healthy Environments for Early Learning









Tips to Reduce Exposure to Lead

- These tips can reduce exposure, but may not prevent poisoning if hazards are not controlled
- Test home and children
- Nutrition Calcium & Iron
- Washing children's hands and toys
- Removing shoes
- Keep children away from damaged paint
- Safe work practices & Dust control
- Run tap water to flush out pipes

Healthy Environments for Ear

Dust Control

- High efficiency vacuum
- Never vacuum window wells with a normal household vacuum cleaner
- Wet cleaning
- Containment, preparation, and isolation of remodeling areas
- Replace carpeting with other flooring

Healthy Environments for Earl

Survey Results

 Wet Basement 	32%
No exhaust fan	49%
Carpeted basement	45%
 Windows in poor condition 	22%
Condensation on windows	28%
Peeling paint	30%
Musty odor	30%
Mold/Mildew	25%
Healthy Environments for Early	

Why Is Moisture Control So Important?

- Dampness is associated with respiratory illness
- Leading cause of paint deterioration
- Mold
- Dust Mites
- Pests
- Structural durability

Healthy Environments for Early Learning

Excessive Moisture Symptoms

- Musty odors
- Peeling paint
- Condensation
- Visible mold or water stains

Healthy Environments for Earl Learning

Excessive Moisture Causes

- Plumbing and roof leaks
- Poor rainwater drainage
- Insulation without adequate ventilation
- Too many occupants
- Other household sources

Healthy Environments for Early Learning

Moisture Control

- Control rainwater drainage
 Gutters & Sloping of ground
- Fix leaks promptly
- Ventilation
- Occupant education Household sources

lealthy Environments for Earl

Integrated Pest Management

- Moisture Control is a key strategy for IPM
- Seal cracks to prevent water & pest entry
- Patch holes in screens
- Limited use of pesticides
- Bait traps preferred over spraying.
- Frequent removal of trash and other food sources for pests

Healthy Environments for Ear

Fuel-Burning Appliances

- Combustion gas spillage
- CO is a neurotoxin
- Other gases are also problematic
- Depressurization Exhaust appliances
- Negative pressure in basement radon

Healthy Environments for Earl

Common IAQ Problems

- Lead paint hazards
- Wet basements
- Fuel-burning appliances not vented properly
- Inadequate ventilation

Healthy Environments for Early

Carpeting

- Many chemicals used to manufacture carpeting
- Treated with pesticides & antimicrobial agents
- Toxins in carpet backing and adhesives
- Many carpet cleaners are toxic Solvents

Healthy Environments for Earl Learning

Carpeting

- Sink for toxins present in house dust
- Lead, pesticide residues, flame retardant, PCBs, asbestos fibers, mold spores, dust mites, and more
- In a 1992 study of homes in Midwest, 90 of 362 carpets were found to contain residues of DDT – banned in 1972

ealthy Environments for Early Learning

Carpeting and Mold

- Mold spreads rapidly on carpet and other fibrous materials – cardboard, wallboard
- EPA If wet carpeting is not dried within 24-48 hours it should be removed
- Mold can grow underneath carpeting in basement when moisture condenses on floor

Healthy Environments for Ear

MN Child Care Licensing Rules

- Facility must be free of peeling paint
- Toys & equipment must be free of lead paint
- Toys & equipment with damaged paint surfaces must be tested to verify that they do not contain lead
- Children should not have access to dangerous remodeling areas

Healthy Environments for Earl

MN Child Care Licensing Rules

- Heating appliances must be vented according to state building codes
- Bleach (1/4 cup per gallon water) is required for cleaning diaper changing areas
- Toxic substances must be inaccessible to children

Healthy Environments for Early Learning

MN Child Care Licensing Rules

- Pest control measures must be taken to protect against infestation
- Chemicals for insect and rodent control must not be applied in areas accessible to children when children are present

Healthy Environments for Early

For More Information

- Visit GMDCA's Website
- www.gmdca.org
- Click on Resources for Families and the click on Healthy Environments for Early Learning
- Healthy Environment Assessment Tool and Action Plan

Healthy Environments for Ear Learning