

Evaluation of the Environmental Action for Children's Health (EACH) Program
(May 2005)

Evaluation Purposes: 1) To determine if the Environmental Action for Children's Health (EACH) Program can be successfully implemented in Minneapolis and St. Paul. 2) To determine the contribution of home assessment and modifications to improvement in asthma measures (symptoms, clinical measures and quality of life).

PROCESS EVALUATION

Process Questions	Measure	Evaluation Method	Data Sources
<p>What are the most commonly noted home environment issues?</p> <p>Are these issues the same for residential homes and day care homes?</p>	# of times environmental issues were identified	Survey and Site Visit	EACH Home Assessment EACH Resident Survey
What are the most commonly recommended housing modifications?	# of times environmental modifications were recommended	Content analysis	EACH Implementation Plan
What is the sustainability of home modifications made to the home by the EACH program at 6 months?	# of modifications made by EACH personnel and remaining in place at 6 months	Survey and Site Visit	EACH 6 month Survey
Which of the additional recommended modifications were made by families at 6 months?	# of modifications made by family and remaining in place at 6 months	Survey	EACH 6-month Survey

What is the sustainability of home modifications made to the home by the EACH program at 12 months?	# of modifications made by EACH personnel and remaining in place at 12 months	Telephone survey	EACH 12-month Interview
What is the sustainability of the additional home modifications made by families at 12 months?	# of modifications made by family and remaining in place at 12 months	Telephone survey	EACH 12-month Interview
What is the level of participant satisfaction with the EACH program?	Reported participant satisfaction levels	Telephone survey	EACH 12-month Interview
Is there an acceptable ROI for the program?	Actual costs of assessment, implementation plan, modifications by EACH personnel	Qualitative analysis of program documents	TAM documents for Assessment Implementation Plan Modifications Billing records for work crews
What obstacles, solutions, and unexpected opportunities were present in the implementation of the EACH program?	Qualitative comments and discussion with EACH personnel and participants	Qualitative analysis of program documents	EACH Home Assessment EACH Implementation Plan
What was the utility of the survey instruments designed for use by the EACH program? Resident Home Survey Home Assessment Participant Satisfaction Survey	Qualitative comments and discussion with EACH personnel and participants	Qualitative analysis of program documents	EACH Home Assessment EACH Resident Survey EACH Implementation Plan EACH Participant Satisfaction Survey EACH 6-month Follow-up EACH 12-month Interview

ASTHMA OUTCOMES EVALUATION

What is the change in participant reports of symptoms of asthma?	Change score in symptom free days	Survey	ITG Asthma Short Form
What is the change in clinical measures of asthma? FEV1 FEV1 / FEV Peak Flow	Change in proportion of participants	Spirometry readings	EACH Asthma Clinic Visit Spirometry readings
Is there a change in the number of hospitalizations among children participating in the EACH program?	Change in number of hospitalizations among participants	Parental report	EACH Asthma Clinic Visit EACH 6-month Follow-up EACH 12-month Interview
Is there a change in the number of emergency room visits among children participating in the EACH program?	Change in number of ER visits among participants	Parental report	EACH Asthma Clinic Visit EACH 6-month Follow-up EACH 12-month Interview