

Evaluation of the Asthma Education in the Emergency Department Program
May 2005

Evaluation Purposes:

- 1) To determine the degree to which the Asthma Education in the Emergency Department Program can be implemented in emergency departments at 2 hospitals in the Minneapolis area.
- 2) To determine the contribution of asthma education delivered in the emergency department at the time of an emergency department admission for an acute exacerbation of asthma to changes in:
 - a) parent self-awareness about asthma and acute exacerbations of asthma; and
 - b) knowledge about asthma and the drug therapies used to treat their child's asthma.

PROCESS EVALUATION

Process Questions	Measure	Evaluation Method	Data Sources
What is the protocol for implementation of asthma education components into each hospital's ED?			Meeting minutes Documentation of protocol
What is the curriculum for training ED personnel? How many ED personnel received training in asthma education? What is the minimum required level of competency for ED personnel?	Descriptive	Content review	Training manual Slide presentations Attendance records Competency test and scoring decisions

<p>How is competency assessed?</p> <p>What % of ED personnel meets the minimum levels of competency?</p> <p>How often is the training repeated to ensure adequate competency?</p>			<p>Competency test and scoring decisions</p> <p>Report of results of competency testing</p> <p>Schedule of training</p>
<p>What is the level of understanding of the identified protocol for Asthma Education in the ED program among all ED personnel?</p>		<p>Primary data collection</p>	<p>KOL interviews</p> <p>Survey following training and periodically</p>
<p>What is the level of utilization of the emergency department for asthma care?</p>	<p>Number of ED visits for asthma that occurred during the study period?</p> <p>Number of pediatric ED visits that occurred during the study period?</p> <p>Number of visits with delivery of</p> <ul style="list-style-type: none"> • the video • face-to-face education • printed take-home 	<p>Primary data collection</p>	<p>HL admission/discharge records</p> <p>Chart review or EMR reports</p> <p>Chart review or EMR reports</p>

	information		
<p>What is the content and usability of the educational materials?</p> <p>What is the cultural sensitivity of the educational materials?</p> <p>Are all materials consistent in the key messages?</p> <p>Have the translations of educational materials been validated?</p>	<p>Summary reports</p> <p>Readability scores for printed materials</p>	<p>Expert panel review</p>	<p>Summary reports</p> <p>Readability scoring for printed materials</p> <p>Expert panel review</p> <p>Expert panel review</p> <p>Expert review</p>
<p>What is the level of acceptance and satisfaction with the education materials:</p> <p>Video</p> <p>Face to face education</p> <p>Take home packet</p>	<p>Number (%) of parents/guardians reporting:</p> <ul style="list-style-type: none"> •recall of the video and information addressed in it? •recall of the health professional providing asthma information? •recall of the take-home packet and information addressed in it? <p>Number of parents intending to use the information in obtaining and providing care for their child with asthma</p>	<p>Survey</p>	<p>Satisfaction survey</p>

	Level of satisfaction with asthma education in the ED		
What is the level of acceptance and satisfaction with the Asthma Education in the Emergency Department among ED personnel?		Survey Interview	Satisfaction survey at 3 points: 1 month following implementation 6 months following implementation 12 months following implementation KOL interviews
What is the sustainability of the Asthma Education in the ED program?	Number of staff hours required to plan and develop AEED Organizational resources required to plan and develop AEED Number of staff hours required to implement AEED Organizational resources required to implement AEED Number of staff hours required to maintain the AEED program? Organizational resources required to maintain the	Primary data collection	Activity reports Meeting minutes

	AEED program		
<p>What obstacles were encountered during the planning and development of the Asthma Education in the ED program?</p> <p>What solutions were identified to address the obstacles?</p> <p>What unexpected opportunities were encountered in the planning and development of the Asthma Education in the ED program?</p> <p>What obstacles were encountered during the implementation of the Asthma Education in the ED program?</p> <p>What solutions were identified to address the obstacles?</p> <p>What unexpected opportunities were encountered in the implementation of the Asthma Education in the ED program?</p> <p>What obstacles were</p>		<p>Interviews</p> <p>Content analysis</p>	<p>KOL interviews</p> <p>Meeting minutes</p>

<p>encountered during the maintenance phase of the Asthma Education in the ED program?</p> <p>What solutions were identified to address the obstacles?</p> <p>What unexpected opportunities were encountered in the maintenance phase of the Asthma Education in the ED program?</p>			
<p>How were American Cities project resources allocated and used to plan and develop the project?</p> <p>Which of the American Cities project resources were key to the planning and development of the Asthma Education in the Emergency Department protocol?</p> <p>How were American Cities project resources allocated and used to implement the project?</p> <p>Which of the American Cities</p>		<p>Content analysis</p>	<p>Budget reports</p> <p>KOL interviews</p>

<p>project resources were key to implementation of the Asthma Education in the Emergency Department protocol?</p>			
<p>To what extent was the project implemented as originally planned?</p> <p>What changes in implementation occurred?</p> <p>How were these changes documented?</p>		<p>Survey</p> <p>Interview</p>	<p>KOL interviews</p>
<p>How did broad changes in the community or hospital change the context in which project activities were planned?</p> <p>How did broad changes in the community or hospital change the context in which project activities were implemented?</p>		<p>Survey</p> <p>Interview</p>	<p>KOL interviews</p>
<p>How were preliminary evaluation findings used to improve implementation of project activities throughout the funding period?</p>		<p>Survey</p> <p>Interview</p>	<p>KOL interviews</p>

ASTHMA OUTCOMES EVALUATION

What is the change in participant level of knowledge about asthma and its treatment?	Number (%) of parents with increased scores of asthma knowledge assessment	Survey	Asthma Knowledge Assessment
What is the change in participant confidence in their ability to care for their child asthma?	Number (%) of parents with increased scores of asthma knowledge assessment	Survey	Asthma Parental Self-Confidence Assessment
How many parents intend to use the information they obtained from the ED in obtaining and providing care for their child with asthma?	Number (%) of parents reporting intention to use the information in obtaining and providing care for their child with asthma	Survey	