

Interactive asthma education program reduces need for emergency care and steroid use in children

August 17 2009

Education on asthma management in children delivered in small, interactive groups improved asthma outcomes and the overall care of children with asthma, found researchers in a study in CMAJ (*Canadian Medical Association Journal*). Children who participated in the interactive education program were 38% less likely to require emergency care and required fewer courses of oral corticosteroids compared with the children who did not participate in the program.

The study, a randomized controlled trial, looked at 398 <u>children</u> aged 3 to 16 years admitted to the emergency department in Winnipeg, Manitoba, Canada. Children in the control group followed the usual care recommended by their family physician along with an asthma information booklet developed for children admitted to hospital with asthma. The intervention group participated in a 4-week asthma care program developed by the Children's Asthma Education Centre as well as their usual medical care. The materials included specific educational materials, personalized mailings to reinforce the program's key points and age-appropriate pamphlets. A key component was small-group interaction for children and their families to discuss successes and failures in managing their child's asthma.

While the number of visits to the emergency department decreased in both groups in the year after the study, children in the intervention group made significantly fewer visits (.45 visits per child) compared with the



control group (.75 visits). The likelihood of children in the intervention group requiring oral corticosteroids was reduced by 36%. As well, primary caregivers in this group missed significantly less work than the control group, suggesting the asthma was under better control.

"The most important outcomes of providing education about asthma involve changes in the use of health care services," write Dr. Wade Watson from the Children's Asthma Education Centre at The Children's Hospital, Winnipeg and and coauthors. "Post-education outcomes that have been identified by researchers include such things as reductions in the number of visits to emergency departments and unscheduled visits to physicians and in costs related to health care."

Quality of life improved for the children and their families. The authors conclude asthma education, particularly in small, interactive groups, is an important element in caring for children with asthma.

In a related commentary <u>http://www.cmaj.ca/press/cmaj091120.pdf</u>, Dr. Christopher Cates of the Department of Community Health Sciences, St. George's University of London, UK, writes that as only 398 of 2901 eligible families were recruited in to the study, those families may have been more highly motivated. "We cannot assume that the small-group format would work equally well with families who are less motivated, he states."

"The small-group approach for children with asthma may have been effective because it allowed families to share their own concerns and expectations, he writes," and could benefit families who visit emergency departments for <u>asthma</u>.

More information: http://www.cmaj.ca/press/cmaj080947.pdf

Source: Canadian Medical Association Journal (news : web)



Citation: Interactive asthma education program reduces need for emergency care and steroid use in children (2009, August 17) retrieved 5 May 2024 from https://medicalxpress.com/news/2009-08-interactive-asthma-emergency-steroid-children.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.