The Facts About Pediatric Asthma in Holyoke



Pediatric asthma has serious consequences for the children and families it affects – and their communities. Holyoke has some of the highest rates of pediatric asthma and related health care use and costs in Massachusetts. Pediatric asthma also takes its toll on school and work attendance. But there are steps we can take to reduce or remove asthma triggers and lessen the impact of asthma on the Commonwealth's children.

Quick Facts



During the 2011-2012 school year, 1,237 of Holyoke's elementary and middle school students had asthma – 27.2% of students!



From 2008 to 2012, Holyoke children accounted for more than 1,454 asthma-related hospitalizations and Emergency Department (ED) visits, with health care charges totaling **\$2.1 million**.^{2,3}



Compared to white children in the community, Holyoke's black and Hispanic children had significantly higher rates of asthma-related ED visits² and Hispanic children had significantly higher rates of asthma-related hospitalizations.^{2,3}Compared to children of the same race and ethnicity statewide, Holyoke's Hispanic white children had higher rates of ED visits.²

PEDIATRIC ASTHMA PREVALENCE

In 2012, more MA children reported that they had ever been diagnosed with asthma (15.3%) and that they still had asthma (10.3%) than in the U.S. in general (13.7% and 8.9%, respectively). In fact, in 2012, 210,000 MA children had asthma. Holyoke is home to a disproportionate number of these children. During the 2011-2012 school year, more than one out of every four Holyoke children (or 27.2%) in Kindergarten through 8th grade had asthma, a significantly higher prevalence than for K-8 students statewide (11.9%).

SCHOOL AND WORK ABSENCES

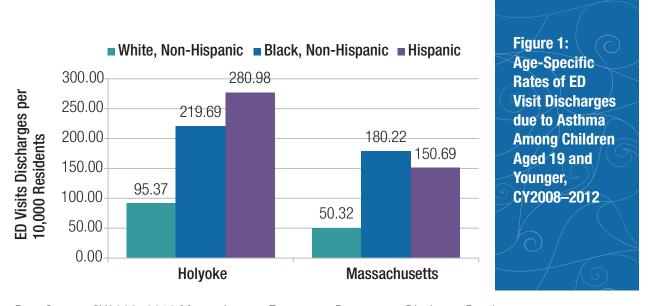
Nationwide, asthma is the leading cause of school days missed due to a chronic illness with nearly 15 million school absences due to asthma annually. Between 2006 and 2010, over 40% of MA children aged 18 and younger with asthma missed school or day care due to their asthma in the past 12 months. Working families are especially challenged by pediatric asthma since a missed day of school for a child often means a missed day of work for a parent. Parents' loss of productivity from asthma-related school absences in the U.S. is estimated to be \$719 million annually.

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HEALTH CARE COSTS AND UTILIZATION

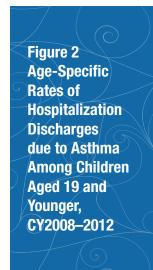
Asthma is the third-ranking cause of hospitalizations for children under 15 years of age in the US.⁶ Nearly 44% of all asthma hospitalizations in this country are for children.⁹ From 2008 to 2012, Holyoke children accounted for 1,454 asthma-related hospitalizations and ED visits, 2.0% of the Commonwealth's 72,442 hospitalizations and ED visits for pediatric asthma during that time. Holyoke's health care charges associated with pediatric asthma were \$2.1 million. Medicaid was the expected payer for 85.1% of those charges.^{2,3}

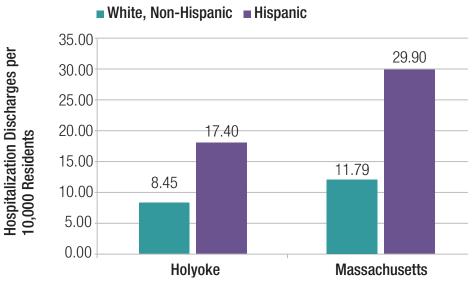
In MA, asthma-related health care utilization is significantly higher for racial/ethnic minorities (See Figures 1 and 2). In Holyoke, between 2008 and 2012, among children age 19 and under, the asthma-related ED rate for blacks and Hispanics was higher than for Holyoke's white children (2.3 and 2.9 times higher, respectively). Hispanic children also had a significantly higher asthma-related hospitalization rate than Holyoke's white children (2.1 times). Holyoke's white and Hispanic children have higher rates of asthma-related ED visits than children of the same race statewide.



Data Source: CY2008–2012 Massachusetts Emergency Department Discharge Database, Massachusetts Center for Health Information and Analysis (CHIA)

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ASTHMA TRIGGERS

Asthma prevalence is higher in low-income, urban neighborhoods 10-12 due to greater exposure to air pollution and a range of indoor "triggers." Pets, rodents, cockroaches, mold, tobacco smoke, gas, and dust mites are well-known asthma triggers. Children's asthma may also be aggravated by exposure to things like air fresheners, cleaning products, pesticides, and perfumes. Reducing exposure to triggers in their homes, schools, and other locations in the community can have a major impact on the well-being of children with asthma. Visit www.mass.gov/dph/asthma for more information.

FOR MORE INFORMATION

The Asthma Prevention and Control Program (APCP) at the Massachusetts Department of Public Health works to

Working toward solutions in Holyoke

The Healthy Holyoke Partnership is funded by the Prevention and Wellness Trust Fund to help advance pediatric asthma efforts in Holyoke. The following clinical and community partners are part of the Healthy Holyoke partnership: The Holyoke Medical Center, Holyoke Health Center, Western Mass Physicians Associates, YMCA, City of Holyoke and Holyoke Public Schools.

improve the quality of life for all Massachusetts residents with asthma, and to reduce disparities in asthma outcomes. APCP also works to reduce exposure to asthma triggers and irritants in homes, licensed child-care centers, schools, workplaces, and senior centers. We support the use of community health worker-led asthma home visits to improve asthma outcomes through the provision of resources and technical assistance around these interventions. The APCP provides Asthma Action Plans for children and adults in seven languages. For more information about the APCP and the work that we do, please call 617-624-5070, email us at prevention.wellness@state.ma.us or visit www.mass.gov/dph/asthma

The Facts about Pediatric Asthma in Holyoke

SOURCES:

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- ⁹ National Hospital Discharge Survey. Hyattesville, MD: National Center for Health Statistics, 2000.
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For more information about the Asthma Prevention and Control Program, Massachusetts Department of Public Health:

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