



A project of the American Lung Association in New York
www.rcanasthma.org



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 Fighting for Air

RCAN / Rochester City School District
Asthma Annual Report:
July 2009- June 2010
7/21/2010

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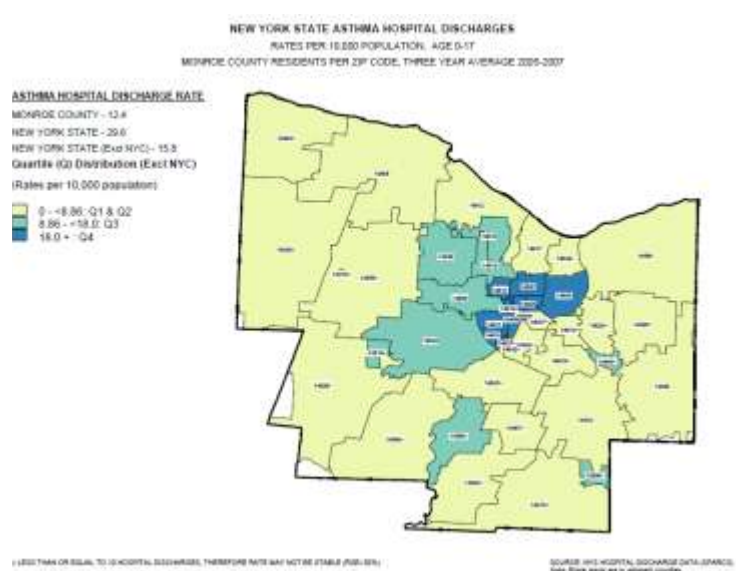
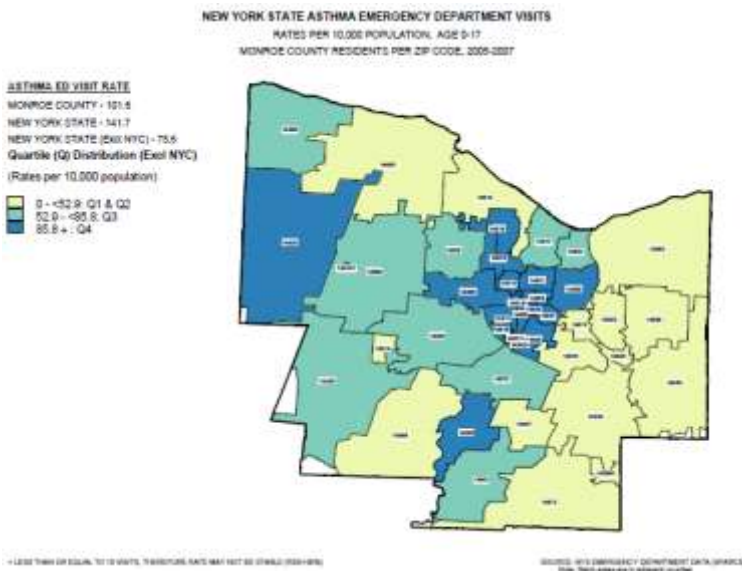
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The Rochester City School District

Enrollment: 32,559
Chronic Disease Conditions: 8,316 (25%)
Asthma is 4,658 of that (14%)
(from RCSD Medi-Alert list Sept 2009, excludes private & charter schools)

Asthma Hospitalizations & Emergency Department Visits 2005-2008
(NYS DOH)



RCAN School RN Prevalence Survey Results (2009-2010), Spring 2010

(Note: these statistics represent only those schools that completed the survey fully, PK-6th grade, which was not 100%, therefore is a limitation to the results.)

54 schools returned surveys, of which 17 were excluded for incomplete data or being a HS, etc.

# of Schools; PK-6 th grades: (excludes Private, Charter)	36
Reported Student Enrollment (PK-6 th):	16,752
Reported # of Students with Asthma:	2,632

Asthma Prevalence:	15.7%
% with Asthma Action Plans:	(433) 16%
% Medications in School:	(1,247) 47%
% MDIs in School	(1,172) 45%
% Spacers/ holding Chamber used with MDI	(672) 57%
% Neb orders in school	(75) 3%

RCAN Budget:

\$50,000 RPCN Grant

\$28,000 CEHC Grant

\$10,000 RCSD Grant

\$88,000 Care Coordination/ Home Visit Program

(*does not include Asthma Educator's time – JV, approx .25 FTE dedicated to RCSD projects; All grants are renewed annually, funding from RPCN is secured through 12/31/10)

Asthma Education in Schools

Julia VanOrman, BS, AE-C

Cindy Trubisky, MEd, AE-C

RCAN School Projects Coordinator

RCAN Director

Open Airways for Schools Program (OAS): **Skills Management training for Elementary Students**

8 Classes, graduating 58 students

School #20: 6

School #22: 9

School # 33: 6

School #45: 11

School #8: 9 (Spanish Class by the Promotora from Ibero American Action League)

School # 39: 6 (Spanish by IAA)

Urban Choice Charter: 11

Asthma 101: **Asthma Education & Awareness for school staff**

We have not held any of these trainings this year. The program was offered to each school that conducted OAS, and /or had an interest.

School Health Staff trainings:

88 School Nurses and aides were trained and given an “Asthma Demonstration Kit” that was provided by RCAN through a grant from PLC for the “Asthma Alert” project.

Comments:

We had another successful year in the Rochester City School District with the Open Airways for Schools Program. It's always a pleasure to work with the wonderful, dedicated staff at RCSD. The School Nurses have many issues on their plates and asthma is just one piece of the meal, but several of your staff go above and beyond each year to help support their students and families dealing with asthma.

It is our hope that this year we can get more Asthma 101's into the schools to educate the entire staff of a building. We find that program really helps support the school nurse and the students with asthma because it helps empower the staff to learn more about their students with asthma. Instead of waiting until the student is really having difficulty breathing, they learn to send the students down to the nurse much earlier. Being proactive and using prevention is always better than dealing in a crisis. We would love to find a way to partner with the RCSD to use the American Lung Association's Asthma Friendly School Initiative. That initiative incorporates many of the aspects we have already been partnering with the city schools in, however it provides a more concrete, systemic approach rather than piece meal method to the strategies we are currently implementing.

Nurse Led Environmental Asthma Education, Home Visit and Care Coordination Program in the City of Rochester, NY: An Urban Model

Mary Beth Schlabach, RN, MS, AE-C
RCAN Asthma Nurse Coordinator

Cindy Trubisky, MS Ed, AE-C
RCAN Director

RCAN Home Visit/ Care Coordination Staff

Asthma Nurse Coordinator: 25 hrs/ wk – 10 months; 15 hrs/ wk- summer

Asthma Home visit Nurse: 25hrs/month- 10 months

Bilingual interpreter: (5-10 hrs/ month)

Children newly referred to RCAN:

2006-2007: 145 children

2007-2008: 158 children, 65 new referrals

2008-2009: 199 children, 135 new referrals

2009-2010: 249 children, 164 new referrals

Number of enrollees this year	249
Number unable to locate	7
Number in-process of completing intake	12
Total number in the Annual Report	230
Number continued to follow from 2008-09	85
New referrals during the 1 st quarter	28
New referrals during the 2 nd quarter	37
New referrals during the 3 rd quarter	63
New referrals during the 4 th quarter	36

**Overall Health Outcomes for 230 Enrollees
(self reported by parent)**

June 30. 2000 to July 1, 2010	School Absences previous year	School Absences during enrollment	ED visits previous year	ED visits during enrollment	Hospitalizations previous year	Hospitalizations during enrollment
		31% Decr.		43% Decr.		15% Decr.
Total number	902	360	301	58	51	8
Number with 1 or more	141 of 230	69 of 230	136 of 230	36 of 230	39 of 230	5 of 230
Percentage	61%	30%	59%	16%	17%	2%

Home Visit Statistics

182 referred for a home visit

168 received a home visit during enrollment (16% increase from 2008-2009)

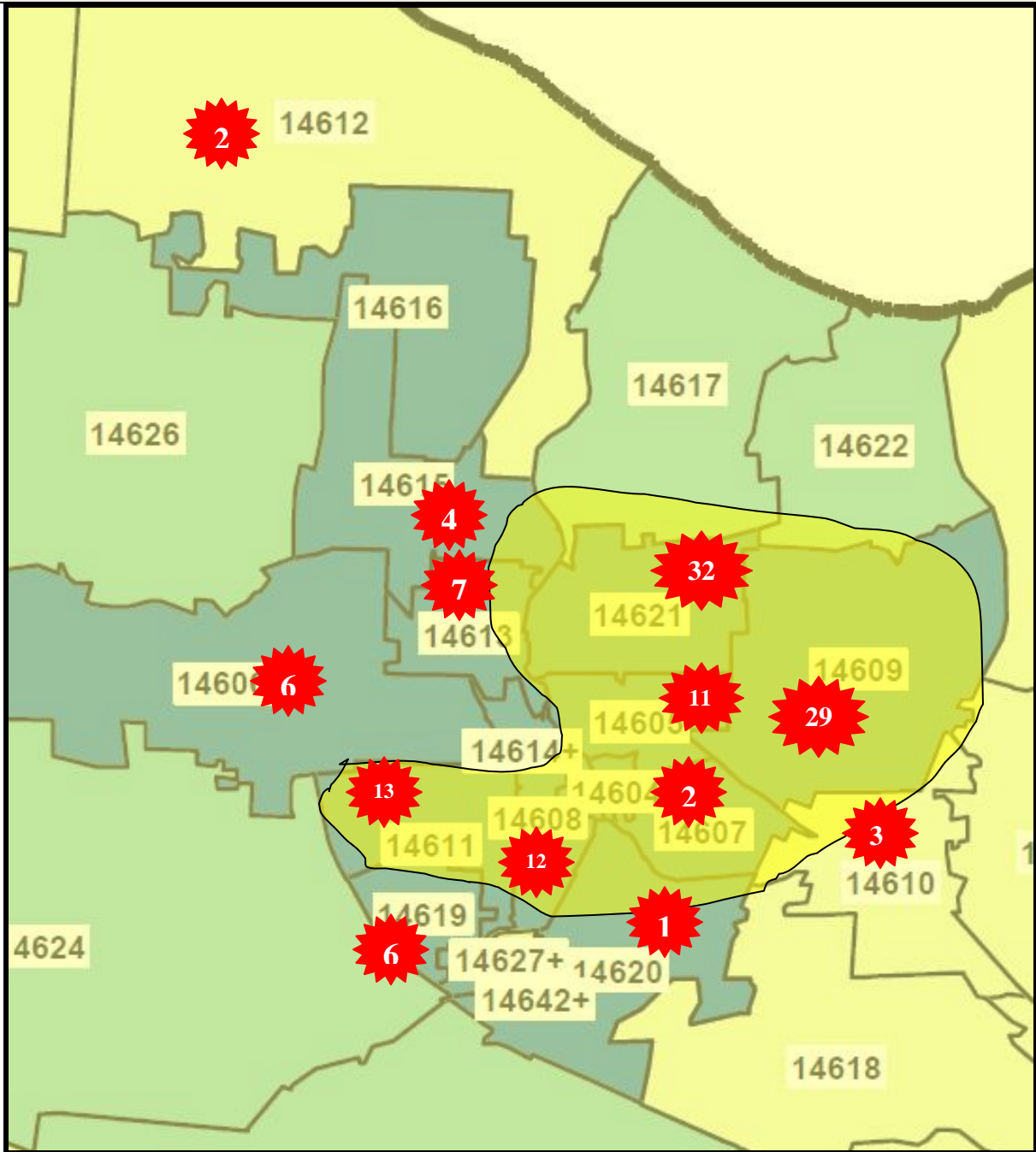
14 on home visit waiting list (8 Spanish speaking and 6 non-Spanish speaking enrollees)

5 new enrollees (2 Spanish speaking and 3 non-Spanish speaking)

Statistics for 168 enrollees who received a home visit during enrollment in the program:

June 30. 2000 to July 1, 2010	School Absences previous year	School Absences during enrollment	ED visits previous year	ED visits during enrollment	Hospitalizations previous year	Hospitalizations during enrollment
		36% Decr		52% Decr		17% Decr
Number with 1 or more	109 of 168	49 of 168	106 of 168	19 of 168	31 of 168	3 of 168
Percentage	65%	29%	63%	11%	18%	1%

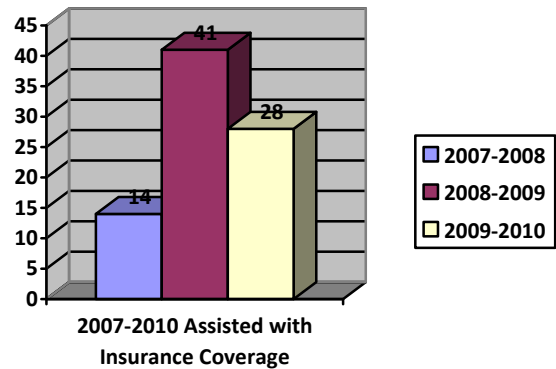
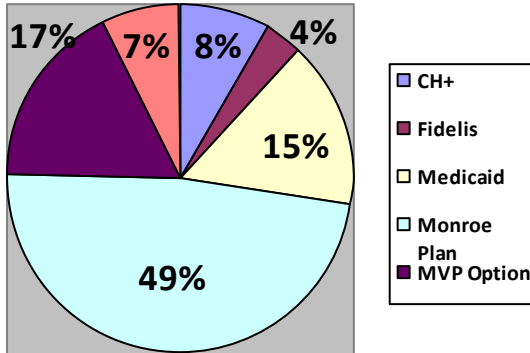
Zip Codes where home visits occurred in each quarter:



Medical Insurance for the 230 clients:

*Assisted 28 enrollees in obtaining or reinstating medical coverage
12% of participants did not have health insurance upon enrollment*

CH+	19
Fidelis	9
Medicaid	35
Monroe Plan	110
MVPO	40
Private	17



38%
participants
exposed to
smoke

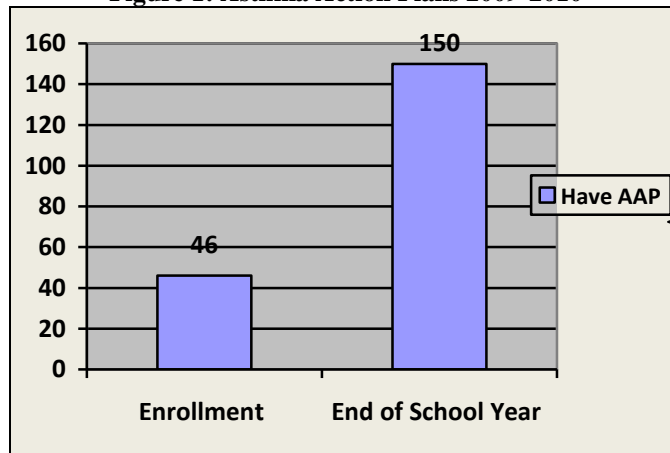
Tobacco Smoke Exposure:

Number of enrollees who live with someone who uses tobacco	88
Number of tobacco users referred to NYS Smokers' Quitline	45

Asthma Action Plan Statistics:

Number of enrollees who had an Asthma Action Plan prior to July 1, 2009	46
Number of enrollees who had an Asthma Action Plan as of June 30, 2010	150

Figure 1: Asthma Action Plans 2009-2010

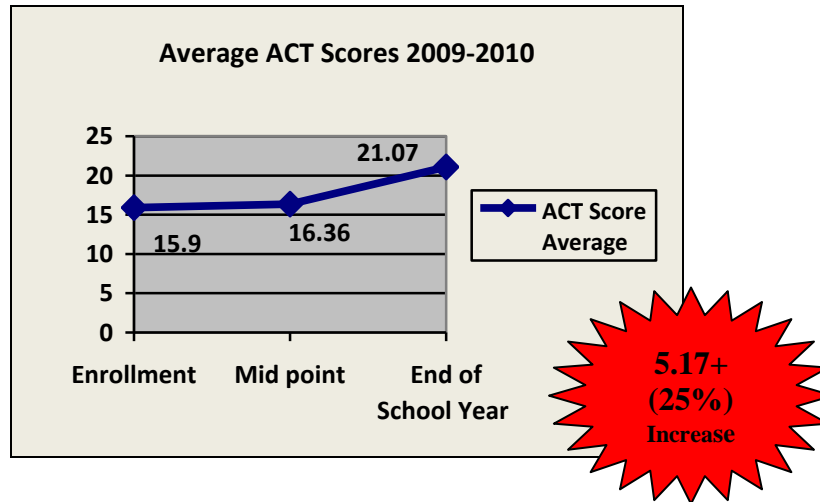


42%
Increase
in AAPs

ACT™ (Asthma Control Test™) for children 4 years of age and above.

A score of 19 or below indicates the enrollee's asthma is not in control as well as it could be. Forty-four enrollees remain in need of services because their ACT™ score was 19 or below when last completed.

ACT™ completed at various times	Average score for enrollees given the test
At time of enrollment/ early in school year	15.9
At midway point	16.36
End of the school year	21.07



Comments:

Our Care Coordination Program had a large influx of new referrals during the 3rd quarter from Monroe County Public Health Department's Healthy Neighborhood Program. The outreach workers expanded their list of resources to include our Asthma Program; close to fifty percent of the new referrals, that quarter, came from their workers. Since July 1, 2009, our program has received 61 referrals from the Healthy Neighborhood Program.

The Rochester City School District and the Children's Environmental Health Center of New York provided additional money so RCAN could hire another part-time nurse to assist with follow up during April, May and June of this year. That assistance resulted in 168 of this year's enrollees having a home visit; which is an increase from the 140 who received home visits who were enrollees in the previous year's program. The extra money allowed this writer time to prepare a document that outlines clinical policies and procedures for nurses to use as they care for children with asthma in our care coordination program.

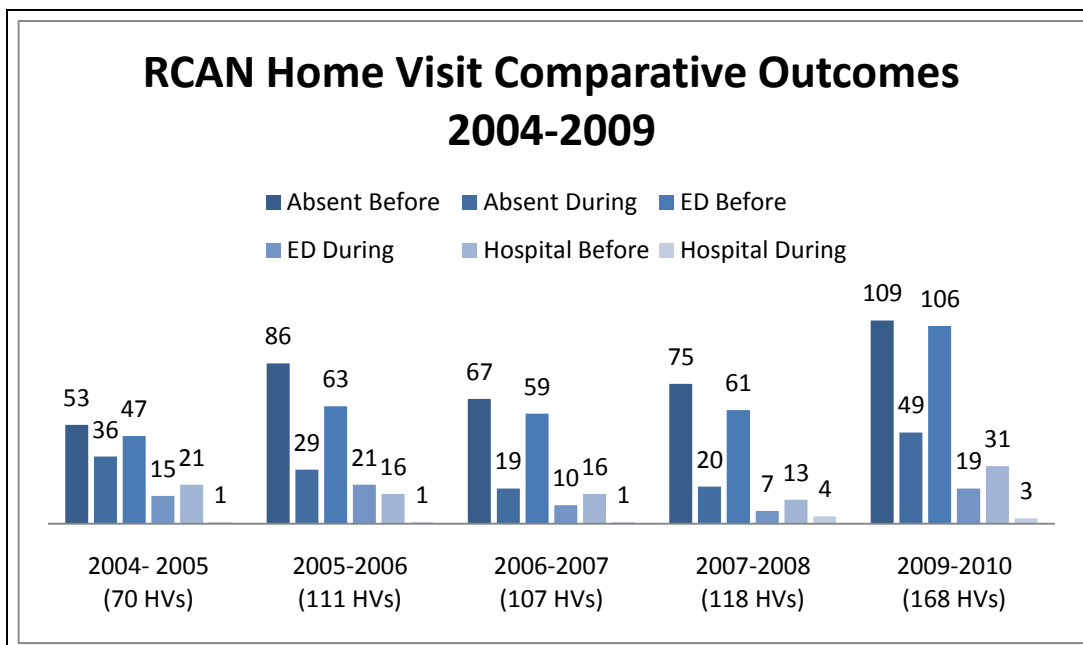
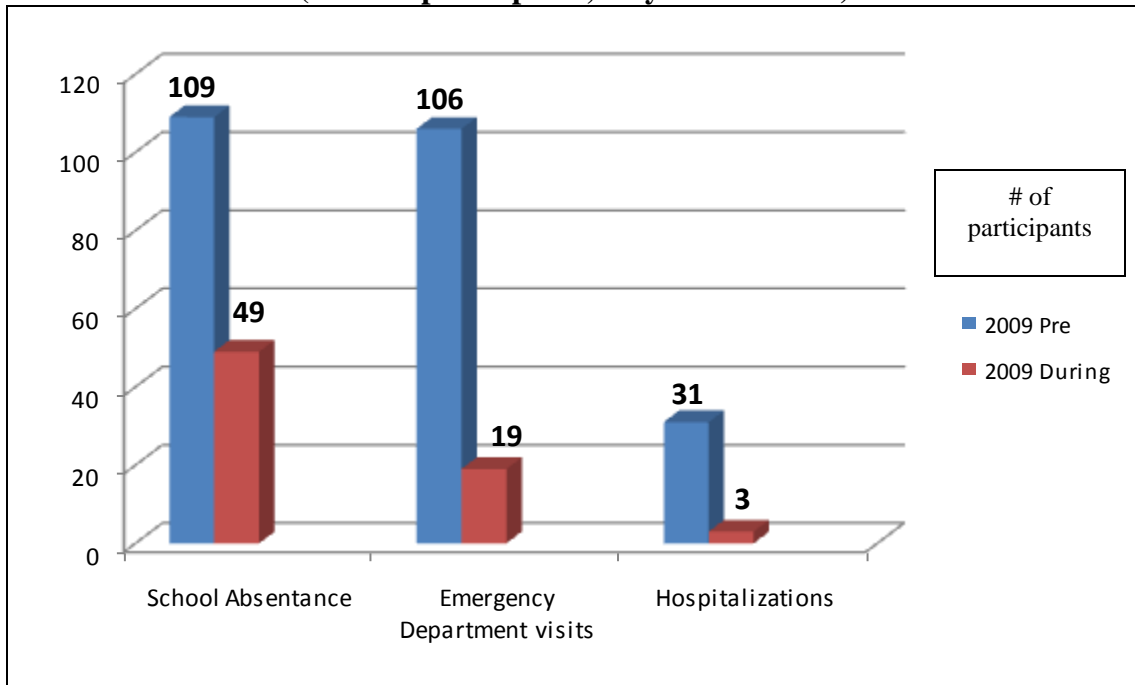
Another expansion is the incorporation of the ACT™ as an assessment tool at the time of enrollment and throughout the child's time in our care coordination program. The statistics listed above shows how a child's level of asthma control improves during enrollment in an asthma coordination program. This summer, this writer is developing two flow charts for use by School Nurses in the Rochester City School District. One on case management of children with asthma and the other on triaging children with asthma, both integrate the ACT™ into the nursing process.

Each month, this writer attends an Asthma Task Force meeting at Golisano Children's Hospital at Strong Pediatric Clinic where colleagues meet to determine methods of improving asthma care

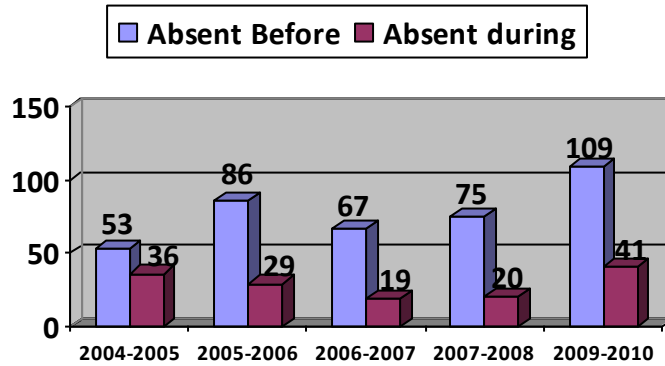
for children. An Asthma Alert Project became a major project we implemented in collaboration with Pediatric Links to the Community (PLC) and the Rochester City School District. The goal is to improve communications between pediatricians, nurse practitioners and school nurses. Midyear, the project expanded to include Culver Medical Group and will expand to include more pediatric clinic offices next year.

We have had a very busy year with several new and exciting projects. It is our plan to continue as described in this report, always being open to new ideas.

**2009-2010 Overall Outcome Data
for RCAN's Care Coordination/ Education Home Visit Program
(168 HV participants, City of Rochester)**

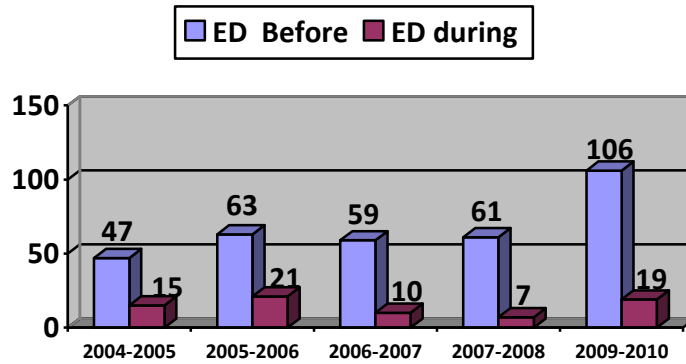


**RCAN Asthma Home Visit Program:
School Absenteeism 2004-2009**



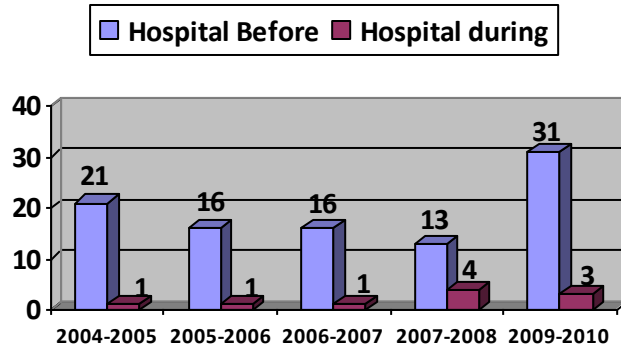
**36%
decrease**

**RCAN Asthma Home Visit Program:
Emergency Department Visits 2004-2009**



**52%
decrease**

**RCAN Asthma Home Visit Program:
Hospitalizations 2004-2009**



**17%
decrease**

**School Based Health Centers in RCSD 2009-2010
(Rochester General Health System)
Jump Start Quality Improvement Project 2010**

Martin Luther King Jr. Elementary #9
Elementary #33
Thomas HS
Edison Tech HS
Marshall HS

Summary:

A pilot project was started in 2008 within Edison Tech HS SBCH to implement Asthma measures and best practices based on the NHLBI clinical guidelines for asthma care. This resulted in baseline data measurement collection, building a paper Asthma registry, and updating the Asthma Flow Sheet, for all 5 of RGH SBHCs in 2009. In 2010, a Jump Start QI project was sponsored by RCAN to spread these best practices to full implementation/ spread in all 5 sites and add a measurement of Status of Control using the Asthma Control Test and Spirometry.

Target population:

Approximately 500 students with asthma, enrolled in the SBHCs at all 5 sites; ages 8-21 yrs.

Baseline Data to date: (6/30/10)

682 children enrolled in 5 sites have a diagnosis or history of asthma.
599 (87%) of these children have been seen in the SBHC, enrolled in the registry and have received Severity Classification, Asthma Action Plans and Asthma Teaching.

In 2010-2011, 10% (or approx 50, 10 at each site) children will be piloted with the Assessment of Control components (ACT & Spirometry), and monitored throughout the school year.