Controlling Asthma in West Michigan

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Asthma Remains a Serious Health Risk in the U.S.

Every day in America, approximately...

63,000 people miss school or work due to asthma

44,000 people have an asthma attack

4,700 people visit the emergency room due to asthma

1,200 people are admitted to the hospital due to asthma

9 people die from asthma

Asthma: A Preventable Disease... Out of Control

- High costs associated with asthma
 - Direct & indirect costs, lost productivity
- Challenges
 - Significant asthma disparities
 - Budget crisis
 - Low Medicaid reimbursement
 - Access to care or receiving inadequate medical care
 - Poverty/psychosocial barriers
 - Environmental triggers

Asthma: A Preventable Disease... Implementing Best Practices

- "Abundant" scientific evidence that asthma selfmanagement programs reduce urgent care visits and hospitalizations and improve overall health status (EPR-3).
- Five key elements of a successful asthma program
 - Committed Leaders and Champions
 - Strong Community Ties
 - High-Performing Collaborations & Partnerships
 - Integrated Health Care Services
 - Tailored Environmental Interventions

First Things First: Building the System



- Established in 1994 as the grass-roots asthma coalition serving West Michigan
- Start Small to Get Big
 - The first asthma coalition in Michigan; one of the first in the nation
 - Began providing home-based asthma case management services in 1996
 - Targeted at-risk children with asthma: started with 50 children, school-aged, Kent County
 - Obtained 501(c)(3) status in 1997
 - Contracted with area's largest payer in 1999

First Things First: Building the System

- Let the data guide the program
 - Population Served 3 West Michigan counties (Kent, Ottawa, Muskegon)
 - Total Population Served: 1,032,426
 - Total with asthma: 82,933
 - Total adults: 57,568
 - Total children: 25,365
- Build evaluation in from the start
 - Began to measure outcomes on day one, national abstract presented one year later
 - Demonstrated quality outcomes, resulting in cost savings, which we took to the area's largest payer

Committed Leaders and Champions

- Institutionalize the focus on outcomes
 - Community collaborative guided by a physician champion and partners in key positions of leadership, able to parlay that partnership into action
 - "Leave your badges at the door"
 - partnered to achieve a shared goal not for any organizational advantage
 - Ensure mission-program alignment, don't just "follow the money"
 - Designed a comprehensive program, which would provide direct service and would target the most at-risk children with asthma in our community

Strong Community Ties

- Included our community in program planning
- Engaged our community "Where it Lives"
 - Situated our offices in target community
 - Demonstrated broad commitment to our target community by getting involved in community affairs
- Recruited asthma champions
- Reached out to local foundations and corporations
- Collaborated with competing hospital systems
- Supported school districts
- Focused on health care providers/clinics
- Partnered with local universities
- Engaged health plans



High Performing Collaborations and Partnerships: Build on What Works

- Collaborate to build credibility become indispensible to your community
 - Patient-centered medical home model in Kent County
 - We Are For Children largest pediatric practices in West Michigan – training/mentoring providers and staff to improve asthma care protocols across the board
 - Merck Childhood Asthma Network grant/GWU study
- Engage health plans
 - Identify key decision-makers, offer a "trial" period
 - "Payer Summit"
 - Be responsive and flexible (e.g., service to Muskegon at the request of Priority Health)

High Performing Collaborations and Partnerships: Health Plans



- First asthma coalition in the nation to contract with health plans
- Some health plans authorize 18 visits, others authorize fewer and AE-C must call and justify the need for more visits
- Target members with uncontrolled asthma
- Signed contracts with 5 health plans negotiating with a 6th
- Reimbursement (\$160,000) covers ~1/3 of our operating budget (\$500,000)

High Performing Collaborations and Partnerships: CHAP



- Now partnering with First Steps (community collaborative) and local Medicaid plans to implement patient-centered medical home project in Kent County – Children's Healthcare Access Program (CHAP)
- Incentives for local pediatric practices to accept more Medicaid children
- ANWM is the provider of home-based asthma case management for this pilot
- Expansion of our model to include Community Health Workers who augment our case management team

High Performing Collaborations and Partnerships: CHAP

- CHAP began in 2008
 - 15,000+ children ages 0-17 receiving Priority Health in Kent County
 - Pilot sites: Four private pediatric practices, FQHC, NP clinic, Pediatric Residency Clinic
 - Entering 4th year
 - Expanding to additional practices
 - Expanding to additional Medicaid payers
 - Replicating in other counties

Integrated Health Care Services: Working on Three Levels

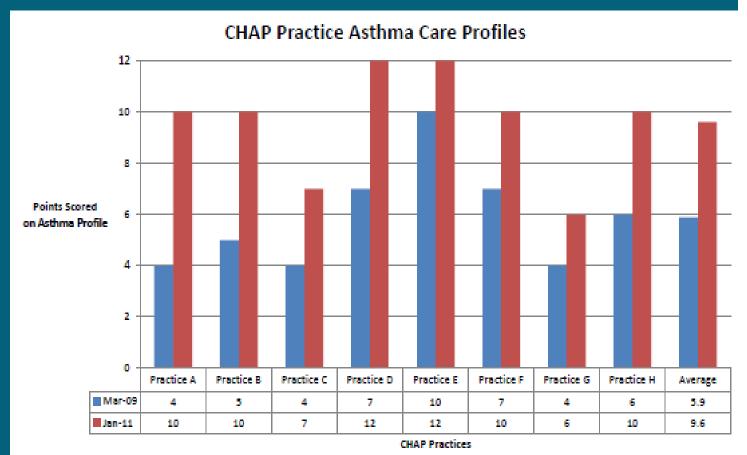
- Family
 - Parent education
 - Intensive asthma education and home-based case management
 - Resource coordination
 - Free same-day transportation
- Provider
 - Provider education, regular physician meetings, practice profiles
- System
 - Increased access to PCP additional Medicaid slots
 - Practice and process improvements, e.g., expansion of hours



CHAP Practice Profiles

Points Scored

- 1. Asthma in-service for staff
- 2. Asthma education for patients
- 3. In-office asthma educator
- 4. Referral to CHAP/ANWM
- 5. Flu shot
- 6. Teach peak flow monitoring
- 7. ETS assessment
- 8. In-office spirometry
- 9. AAP
- 10. ACT
- 11. Asthma registry
- 12. Routine 6-month asthma visits



Integrated Health Care Services Goals

- Identify and address systems barriers that prevent patients from optimally managing asthma
- Increase access to, availability, and coordination of asthma services for children on Medicaid
- Standardize asthma management in Kent County
- Reduce emergency department use and hospitalizations related to asthma among target population



Tailored Environmental Interventions: Case Management

- Home-Based Case Management:
 - Home visits
 - AE-Cs, LMSWs and CHWs
 - School/daycare visits
 - Physician care conferences to elicit a written asthma action plan
 - Licensed masters social worker (LMSW) to assist with psychosocial barriers
- Community outreach:
 - Speakers' Bureau

Case Management Team



- CHAP Clinical Manager / ANWM Manager
- 2.3 FTE Asthma Educators/Case Managers must be Certified Asthma Educator (AE-C) – RN or RRT – or become certified within one year (bilingual preferred)
- 1.5 FTE LMSW (Masters-prepared social worker)
- 1.0 FTE Billing office coordinator
- 2 Community Health Workers (CHW)
 - .75 FTE combined

Case Management Model

- 5 AE-C Home Visits in 3 months
- 3 monthly visits thereafter
- 1 visit to medical home
- 1 visit to school or daycare
- 2 LMSW visits



- Target: 6 (min) to 12 (max) visits over 6 (min) to 9 (max) months
- Monthly CHW visits

Case Management Referral Sources

- Inpatient population
- PCP/clinic
- School nurse
- Public Health Nurse
- Self-referral
- Managed Care Organizations





Case Management Goals



- Target behavior modification to promote prevention rather than crisis care
- Appropriate utilization of the health-care system
- Access to medications and primary care physician (obtain "medical home" if necessary)
- Address barriers encourage problem-solving strategies
- Improved asthma knowledge/Improved quality of life
- Resolving psychosocial issues allows AE to focus on asthma management issues
- Enhanced communication with school and medical personnel
- Ensure asthma management in accordance with NAEPP guidelines

Case Management Objectives

- Case management goal of 75 families/1.0 FTE asthma educator/case manager ~ 210 families
- 185 reimbursable slots
- 25 non-reimbursable slots (waiting list) supported by grant \$
- Serve over 400 families per year
- Accomplish ~ 2,000 home visits per year



Care Conference

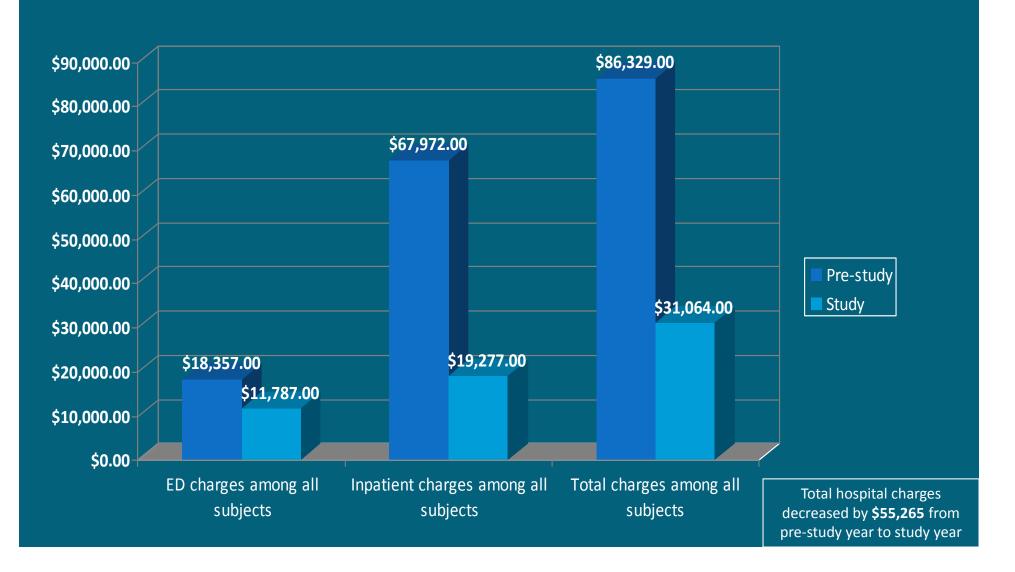
- Conducted with PCP (and possibly specialist as well) with or without family present
- Elicit a written asthma action plan
- Discuss compliance issues psychosocial barriers to asthma management
- Discuss access to care issues PCP visits, devices, medications, etc.
- Reimbursable visit

School/Daycare In-service



- Scheduled with key school personnel:
 - principal, school nurse, classroom
 - teacher, phys. ed. teacher, and school secretary
- May provide in-service for entire staff
- Discuss (in private) key issues concerning child's asthma and psychosocial barriers/ learning problems identified by school
- Provide with copy of AAP ensure school staff understands
- Reimbursable visit

Getting Results: Evaluating the System Reduced Hospital Charges



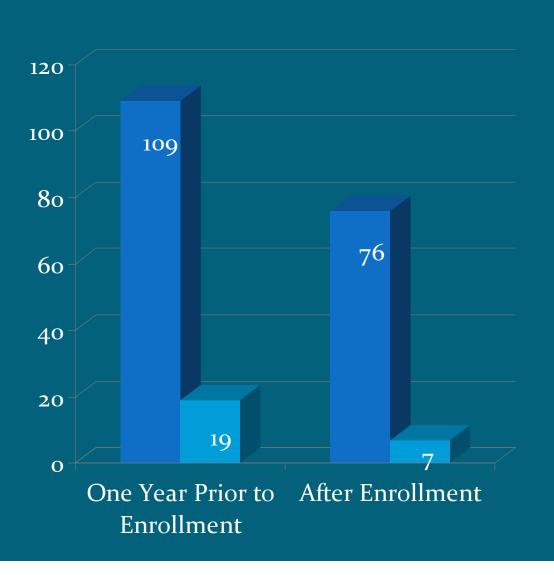
Getting Results: Evaluating the System

- Fewer emergency department visits
- Fewer hospitalizations
- Lower overall costs for asthma

Clinical Outcomes	Cohort Group N=45			Control Group N=39			Cohort vs. Control
	Pre	Study	P-value	Yr 1	Yr2	P-value	P-value
ED Visits	80	61	0.047	28	43	0.0211	0.0040
Hospitalizations	41	13	<0.0001	23	28	0.1457	<0.0001
Days Hospitalized	114	25	<0.0001	55	67	0.0779	<0.0001

Kirk GM, et al. Abstract presented to the American Thoracic Society International Conference in San Francisco - May 2001

Getting Results: Evaluating the System



73 children served between 2007 and 2009 through homebased case management

- **ED** Visits
- Hospital Admissions

- 63% reduction in admissions
- 30% reduction in ED visits

Resourcing the System

- Major costs are staff salaries, mileage, and supplies
- Resource planning:
 - Leveraged funds from local foundations for a national grant we did not receive, but the local foundations provided the \$ anyway
 - Secured in-kind and other support from a local hospital who houses our program for free
 - Secured long-term sustainable funding from the local United Way and a local hospital's Community Benefits program
 - Plan to assign value to a technical assistance package for replicating our model in other communities



Epiphanies: Making it Last

- Building the System
 - Diversify your funding base don't rely too much on one funder or revenue source
- Elements of the System Key Drivers in Action
 - Strong community partnerships and collaborations including individuals passionate about addressing asthma in vulnerable populations
- Getting Results Evaluating the System
 - Measure everything you do and share those outcomes with the key financial decision makers (foundations, health plans, hospital systems, etc.)
- Resourcing the System
 - Plan for focused growth, but ensure financial stability at every step



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