Welcome to the Webinar

2013 Asthma Award Winners Share Their Challenges and Successes

Moderator:
• Tracy Washington Enger, U.S. Environmental Protection Agency

Presenters:
• Connie Kerrigan, Parkview Health System
• Cheryl Kimble, Greenville Health System’s Children’s Hospital Center for Pediatric Medicine
• Diane Rhodes, North East Independent School District

Tuesday, May 28, 2013
Webinar 2 – 3 p.m. EDT
Live Online Q&A 3 – 3:30 p.m. EDT on AsthmaCommunityNetwork.org
Introduction

Tracy Washington Enger
U.S. Environmental Protection Agency
Purpose of Webinar

1. Learn about three exemplary asthma management programs and how they accelerate improvements in asthma care and address asthma disparities.

2. Hear about a key achievement of each program that contributed to positive health outcomes.

3. Learn about a challenge each program faced and their lessons learned in addressing the challenge.

4. Learn how to improve your asthma management program.
Agenda

1. Introduce EPA’s National Environmental Leadership Award in Asthma Management and the *System for Delivering High-Quality Asthma Care*

2. Highlights of Award Winning Programs
   - Connie Kerrigan, Parkview Health System
   - Cheryl Kimble, Greenville Health System’s Children’s Hospital Center for Pediatric Medicine
   - Diane Rhodes, North East Independent School District

3. Key Challenge and Lessons Learned from Each Program

4. Q&A Session in AsthmaCommunityNetwork.org Discussion Forum
Questions & Answers Session on AsthmaCommunityNetwork.org Discussion Forum

Immediately after the webinar, join us in the AsthmaCommunityNetwork.org Discussion Forum for a live online Q&A Session from 3 – 3:30 p.m. EDT.

To post a question in the Discussion Forum, follow these directions:
1. If you are a Network member, log-in to your AsthmaCommunityNetwork.org account.

   **Not a member?** Create an account at AsthmaCommunityNetwork.org by clicking the “Join Now” link at the top of the page. Your account will be approved momentarily and you can begin posting questions.

2. Click on the “Discussion Forum” button on the homepage.
3. Click on the “Live Online Q&A for 5/28/13 Webinar” link.
4. Click on the “post to the forum” link to post your question.
5. Enter your question and click the “Save” button at the bottom of the page.
Poll Question

What type of organization do you represent?

- Government Agency: 39%
- Community Asthma Program: 22%
- Health Care Provider: 17%
- Schools Program: 16%
- Health Insurer: 6%
Poll Question

Select a challenge your program wants tips on:

- Increasing access to and proper use of asthma medications: 0%
- Identifying the right partners for collaboration: 16%
- Helping schools control environmental asthma triggers: 30%
- Demonstrating program value through results: 36%
- Helping families follow asthma action plans: 18%
“We would urge applicants for this Award to use this opportunity to share their expertise with others. By sharing their successes and challenges, we all learn, and help each other move closer to our goals in asthma care, education and partnership. We have learned so much from the other Award winners, and from other resources and programs on www.AsthmaCommunityNetwork.org!”

John Dowling, 2012 Award Winner, Michigan Department of Community Health Asthma Prevention and Control Program

Since 2005, 29 health plans, health care providers and communities in action have been inducted into the Hall of Fame. Learn more about these winners below and apply for your opportunity to become a Hall of Famer.

Learn more at www.asthmaawards.info
The System for Delivering High Quality Asthma Care
Connecting to the System

- Strong Community Ties
- High Performing Collaborations
- Strong Community Ties
- High Performing Collaborations
- Community Assets
- Community Assets
Parkview Health
Comprehensive Asthma Education and Care Navigation

Connie Kerrigan, RN, BSN
Community Nursing and Women’s Services Manager
Parkview Health
Comprehensive Asthma Education and Care Navigation

• **Location**: Fort Wayne, Indiana

• **Type**: Not-for-profit Health System

• **Service Area**: Eleven counties in Northeast Indiana and Northwest Ohio

• **Population Served**: 875,000 people from urban, suburban and rural communities

• **Key Players**: East Allen, Northwest Allen and Fort Wayne Community School Districts; Central, West and East Noble County School Districts; Fort Wayne-Allen County Department of Health; Indiana State Department of Health
Asthma Action Team’s Key Components

• Community and School-Based Asthma Education
  - A is for Asthma/Open Airways/Kickin’ Asthma
  - 1:1 asthma education
  - Universities
  - Allen County Board of Health Healthy Homes

• Asthma Care Navigation
  - Initiated July 2009 in the ED
  - Expanded in 2013 to include all hospitals within system
  - Currently enhancing continuity to include Primary Care
Home Visits

- Pre/Post Test
- Education provided
- Environmental assessment
- Establish goals to reduce triggers
- Provide mitigation supplies
- Link to other community agencies
Key Achievement: Addressing Barriers to Care

- ED Asthma Call-Back Program
- 90 people enrolled monthly
- Medication Assistance Program
- Home visits
- ED recidivism: 21.95% at baseline to 15.04% in the intervention yr
If Home Visit is Provided

• Follow-up calls 3 months after visit
  – Discuss how things are going
  – Assess progress towards established goals determined at home visit
  – Ascertain use of mitigation supplies provided
  – Offer 2nd home visit, if desired
Results: Year to Year Total Cost Reductions

- Ratio was created for each type of visit (ER, Observation, Inpatient) by payor and by program year.
  - Average cost per discharge ÷ Average charge per discharge = Average cost to charge ratio (for the program year by type and payor)
  - Average cost to charge ratio × Patient charge = Cost per patient visit
- The total costs per program year were calculated by adding up all of the costs of the patient visits during each program year.
Thank you.

For more information:

Connie Kerrigan, RN, BSN
Community Nursing and Women’s Services Manager
Parkview Health
www.AsthmaCommunityNetwork.org
Greenville Health System’s
Children’s Hospital
Center for Pediatric Medicine
Asthma Action Team

Cheryl Kimble, RRT-NPS, AE-C
Greenville Health System’s Children’s Hospital Center for Pediatric Medicine

- **Location**: Greenville, South Carolina
- **Type**: Public, Not-for-profit Hospital Program
- **Service Area**: Greenville County and surrounding areas
- **Population Served**: Largely Medicaid, multi-ethnic population from urban, suburban and rural communities
- **Key Players**: Family Connection of South Carolina’s Project Breathe Easy, South Carolina Asthma Alliance, Greenville Pediatric Asthma Community Collaborative, Greenville County School District, United Way of Greenville County Child Care Resource and Referral UnitedWay, SCORxE (South Carolina Offering Prescribing Excellence), Decision Dynamic Inc.’s Disease Management Coordination Network (DMCN)
Asthma Action Team Key Components

IDENTIFICATION
- Over 4,388 patients in Registry
- Stratification
- Identify barriers to adherence
- Track asthma control tests over time, flu vaccination, impact of home visits

EDUCATION
- Medical residents
- Consistent education throughout continuum of care
- Customized pictorial asthma action plans on SharePoint
- Assessment of home triggers

AWARENESS
- Trained parent educators visit homes, schools, child care, health fairs, Laundromats, neighborhoods
- Collaborations/Partner Expectations

SUPPORT
- Parent-to-Parent
- Intensive case management
- Provide access to a medical home
- Extended hours for clinic
- Address barriers to health literacy

Indoor Air Quality (IAQ)
GREEN ZONE: EVERYDAY PLAN

When to use?
- EVERYDAY plan.
- Take whether you are sick or well.

YELLOW ZONE: SICK PLAN

When to use?
Use in addition to everyday meds when you have:
- Daytime or nighttime cough
- Wheezing
- Chest tightness or shortness of breath
- Waking at night due to asthma

RED ZONE: MEDICAL ALERT PLAN

When to use?
- When you are getting worse and the YELLOW ZONE SICK PLAN medications DID NOT help within 15-20 minutes or
- Breathing is very hard and fast or
- You cannot walk or talk or do usual activities or
- Lips or fingernails are BLUE

EACH PLAN: for asthma symptoms

ACTION
Continue giving your EVERYDAY medications

SICK PLAN:

<table>
<thead>
<tr>
<th>Rescue Medication</th>
<th>How Much?</th>
<th>How Often?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albuterol inh OR</td>
<td>4-6 puffs or 1 vial</td>
<td>every 4-6 hours as needed</td>
</tr>
<tr>
<td>Albuterol neb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MEDICAL ALERT PLAN

<table>
<thead>
<tr>
<th>Medication</th>
<th>How Much?</th>
<th>How Often?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albuterol neb OR</td>
<td>1 vial</td>
<td>Take medications AND call your doctor NOW.</td>
</tr>
<tr>
<td>Albuterol inhaler</td>
<td>8 puffs</td>
<td></td>
</tr>
</tbody>
</table>

GO to the EMERGENCY ROOM or CALL 911
ZONA VERDE: PLAN DIARIO

Cuando usarla?
- Plan para todos los días
- Tomeo si está enfermo o sano.

<table>
<thead>
<tr>
<th>Medicamento</th>
<th>Que cantidad?</th>
<th>Cuando?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flovent 110 mcg</td>
<td>1 inhalacion 2 veces al día</td>
<td>Manana y en la noche</td>
</tr>
<tr>
<td>Singular 5 mg</td>
<td>1 tableta</td>
<td>noche</td>
</tr>
</tbody>
</table>

Enjuague la boca después Flovent

ZONA AMARILLA: PLAN PARA CUANDO ESTA ENFERMO

Cuando usarla?
Useése cuando tiene:
- Tos de día o de noche.
- Silbido en el pecho
- Pecho apretado o falta de aire
- Si se despierta en la noche por el asma.

<table>
<thead>
<tr>
<th>ACCION</th>
<th>PLAN para CUANDO ESTA ENFERMO: síntomas de asma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contiune dándole los medicamentos de uso diario</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medicamento de Rescate</th>
<th>Que cantidad?</th>
<th>Cuando?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albuterol inhaler</td>
<td>4-6 inhalaciones</td>
<td>Cada 20 minutos durante 1 hora si es necesario</td>
</tr>
</tbody>
</table>

Si los síntomas de asma no mejoran luego de 3 tratamientos de respiración en 1 hora **LLAME A SU MEDICO** Ya se encuentra en la ZONA ROJA.

<table>
<thead>
<tr>
<th>Y:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LLAME A SU MEDICO SI TIENE:</strong></td>
</tr>
<tr>
<td>1) Ya esta mejor, dele el tratamiento de Albuterol cada 4-6 horas según sea necesario por 2 días o</td>
</tr>
<tr>
<td>2) Se mantiene en la ZONA AMARILLA mas de 2 días o</td>
</tr>
<tr>
<td>3) Tiene tos, silbido en el pecho, o usa Albuterol mas de 2 veces por semana.</td>
</tr>
</tbody>
</table>

ZONA ROJA: ALERTA MEDICA

Cuando usarla?
- Cuando se esta poniendo peor y el plan de la ZONA AMARILLA no logra mejorarle entre 15-20min
- Si su respiracion es muy dificil y rapida
- Si no puede caminar, hablar, o hacer lo que hace siempre
- Si sus labios o unas estan morados o azulosos.

<table>
<thead>
<tr>
<th>PLAN de ALERTA MEDICO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicamento</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>Albuterol inhaler</td>
</tr>
</tbody>
</table>

**VAYA al CUARUTO DE URGENCIO o LLAME al 911...**
Si después de tomar esta medicina los sintomas se mantiene **Y no puede localizar a su medico.**

Physician Signature
Caretaker Signature
Key Achievement: Effective Collaboration with Family Connection of South Carolina Project Breathe Easy

- Parent-to-parent support
- Home visits and environmental assessments
- Resource assistance to families
- Asthma management education
- School and childcare training
- Community awareness and education
Thank you.

For more information:
Cheryl Kimble, RRT-NPS, AE-C
Greenville Health System’s
Children’s Hospital Center for Pediatric Medicine
Asthma Action Team
www.AsthmaCommunityNetwork.org
North East Independent School District
Asthma Awareness Education Program

Diane Rhodes, BBA, RRT, AE-C
Assistant Director
North East Independent School District
Asthma Awareness Education Program

- **Location:** San Antonio, TX
- **Type:** K-12 School-Based Program
- **Service Area:** School District-Wide
  (144 square mile area in San Antonio/Bexar County)
- **Population Served:** An urban community with more than 67,000 school-aged children and their families and 9,000 staff
- **Key Players:** School district’s medical director and five other local allergists and pediatric pulmonologists, faculty and students from the University of Texas Health Science Center’s (UTHSC) Department of Respiratory Care, Santa Rosa Health System, South Texas Asthma Coalition, Asthma Coalition of Texas, American Lung Association, U.S. EPA, and the Centers for Disease Control and Prevention
NEISD Four Components of Control: Planning and Action Implemented

Bring an understanding of prevalence and assess needs for improved processes district wide
- School District impact
- Quality of Life Surveys
- Parent/Staff expectations
- Recruit champions (custodial, nurses, PE staff, administrators)
- Data, data, data feedback

Provide tools/educational resources to reduce healthcare barriers
- Emergency Nebulizer Policy
- Asthma Action Plans
- NIHLEPR3 guidelines
- Health Check data
- EMS incidents
- Inhaler usage tracking
- Asthma Control Test

Assess Culture and reduce environmental risks
- Education and Removing Triggers from home/school environments
- Indoor Environment Quality Best Practices
- TFS Six Technical Solutions
- Tips for Healthy Learning Environment
- Facility Assessment
- Facility scores

Identify gaps and provide disease management information to improve quality of life
- Coordinated Approach to Child Health
- Asthma Curriculum
- Environmental Curriculum
- Webinar/Podcasts to staff
- Staff Development / AFC
- Website
- Asthma Blow Outs

Stakeholders:
students, parents, staff, community
Asthma Blow Out!

- What is Asthma?
- Early Warning Signs
- Triggers
- Medication
- Trigger Avoidance
- Living with Asthma & Exercise

Student Sessions
Student Entrance:
Asthmatic vs non-asthmatic

Asthmatics:
Inhaler technique review

Staging area: All students
“Asthma is like the weather”

Awareness
What is Asthma?
Parts of airway, 3 changes
Inflammation, mucous production
Bronchoconstriction
Early Warning Signs:
Define, identify, classify

Medication
Use of medications
Controller
  Inflammation
Reliever
  Bronchoconstriction
Technique review
Compliance review

Environment
Triggers
Define, identify, effect to airway
Trigger Avoidance
Practical strategies to avoid most common triggers

Education
Living with Asthma
Peak Flows
  Peak flow technique
Understanding zones
Exercise
  Define & Importance
Self-assessment scenario

Asthma Control
EPA

Make it fun, make it relevant

Controlled Asthma

Uncontrolled Asthma
Asthma Blow Out!

Parent Sessions

Awareness - Allergist

Medication – Pedi Pulmonologist

Respiratory Therapist – Free ‘spacer’ Inhaler technique

Education - Pedi Pulmonologist

Environment - Allergist
Asthma Awareness
- Allergist
- 10 commandments of control
- Asthma Control Test

Medication
- Pedi Pulmonologist
- Controller inhaler
- Inflammation
- Reliever Inhaler
- Symptoms

Environment
- Allergist
- Trigger awareness and avoidance
  - Indoor
  - Outdoor

Education
- Pedi Pulmonologist
- Exercise / nutrition
- Asthma control
- Communication and compliance

Asthma Control

Adult Entrance
Family of Asthmatics: inhaler/medication review
Reducing Communication Barriers

English to Spanish translation through headsets
Results

I know that I have to use my controller medicines, or my asthma can turn into an emergency.

-Student

I can’t tell you how much my daughter and I learned at the Asthma Blow-out... we have always been reactive in dealing with [her asthma]...Even with regular checkups we’ve apparently missed a lot of information. Now I understand there are options for keeping asthma under control and avoiding problems altogether.

- Parent
Results after first year

Comparison of Inhalers/Nebulizers

Results of student Inhaler/Nebulizer Usage after initiating ‘Tips for a Healthy Classroom’ and ‘Asthma Trigger Education’ to staff and Awareness Information to parents. Data comes from the time period of first six weeks of school which is termed the ‘September Epidemic’ despite non-peak allergy season.
Results After First Year

Nebulizer Protocol

initial impact

<table>
<thead>
<tr>
<th>Year</th>
<th>No EMS Transport Required</th>
<th>EMS Transports to ED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>2</td>
<td>55</td>
<td>32</td>
</tr>
<tr>
<td>3</td>
<td>70</td>
<td>24</td>
</tr>
</tbody>
</table>

In year 1 and 2 includes students who do not have the 'diagnosis' requirement to follow protocol.
Thank you.

For more information:
Diane Rhodes, BBA, RRT, AE-C
Assistant Director
Asthma Awareness Education Program
North East Independent School District
www.AsthmaCommunityNetwork.org
Challenges and Lessons Learned
North East Independent School District

Asthma Awareness Education Program

Diane Rhodes, BBA, RRT, AE-C,
Assistant Director
Our Challenge

Changing School Culture
Lessons Learned

• **Conduct an assessment**: identify needs and recruit champions

• **Create partnerships and buy-in**
  – Custodians: cluttered classrooms are a challenge to effectively clean
  – PE Teachers: lack of asthma control limits students’ PE
  – School Nurses: want to eliminate frequent repeat visits
  – Administrators: classroom triggers lead to more in-clinic time/ less classroom time, impacts student performance

• **Acknowledge this BIG challenge**: teachers feel classroom environment is their domain

• **Start small**, measure success one case at a time
Lessons Learned

- Communicate results
- Give examples of “ideal”
- Show pictures
- Show impact

Benefits to Campus E over next two months after utilizing ‘Tips for Healthy Classroom’ best practices
Parkview Health
Comprehensive Asthma Education and Care Navigation

Connie Kerrigan, RN, BSN
Community Nursing and Women’s Services Manager
Our Challenge

Addressing the needs we encounter during care navigation and home visits.
Lessons Learned

• Have a good understanding of community resources
  – Food Banks
  – Transportation
  – FQHCs

• Know who to ask when you don’t have an answer
  – Medication needs for numerous chronic health conditions

• Leverage organizational and community resources to maximize impact
  – Community Collaboration Burmese Care Navigation
Greenville Health System’s Children’s Hospital Center for Pediatric Medicine Asthma Action Team

Cheryl Kimble, RRT-NPS, AE-C
Our Challenge

Getting patients to follow their prescribed plan.
Lessons Learned

• Non-adherence may be non-intentional – life gets in the way
• Non-adherence may be intentional – biases, myths
• Cost of medication can be a burden – lapse of insurance; co-pays with other insurance; self-pay
• Many patients and caregivers – and health care professionals – cannot visually identify asthma medications
• Use a consistent educational message throughout the continuum of care
Poll Question

Following this webinar, what action are you most likely to take based on what you learned today?

- List your population’s barriers to non-adherence: 21%
- Identify new community partners: 18%
- Research steps for hosting an Asthma Blow Out event: 22%
- Read more about the award winning programs: 31%
- Assess your awareness of local social services: 8%
Conclusion of the Webinar

2013 National Award Winners
Share Successful Asthma Management Strategies

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