Reducing exposure to inhalant indoor allergens can improve patient care management of high risk patients. With family permission and if applicable, a letter and copy of report is given if needed. Contact Chemical Irritants Hospital Admissions, Emergency Department Visits, and Landlord-based factors. A multi-disciplinary, multi-component home visits and follow up to determine if possible triggers and provides education. RN and REHS work to determine any other environmental needs (mattress and pillow case encasings, roach containment, HEPA vacuum, dehumidifier, etc.).

**COMPREHENSIVE ASThma PROGRAM**

- Support for primary care providers
- Education and tools for best practice management
- Data to help inform patient care
- Care management of high risk patients
- In-home environmental assessments for indoor asthma triggers

**WHY ADD THE ENVIRONMENTAL ASSESSMENT PIECE?**


- Reducing exposure to indoor allergens can improve asthma control
- A multi-faceted approach is required

2008 Community Preventive Services Task Force http://www.thecommunityguide.org/asthma/index.html

- Recommends the use of home-based, multi-trigger, multi-component interventions with an environmental focus for children with asthma
- Cites strong evidence of effectiveness in reducing symptom days, improving quality of life or symptom scores, and in reducing the number of school days missed.


- Poor housing quality strongly associated with poor asthma control even after controlling for confounders such as income, overcrowding, smoking, unemployment

**Asthma RELATED ED Visits/1,000 Ages 0-14 Yrs**

**COMMUNITY CARE OF WAKE AND JOHNSTON COUNTIES (CCWJC)**

CCWJC is the Community Care network for Wake and Johnston Counties with 170 Primary Care Practices in the network.

CCWJC serves approximately 125,000 recipients including NC Health Choice, Carolina Access Medicaid, Carolina Access Medicaid/Medicare (duals) as well as other select Medicare and commercially insured patients and through our sister organization, uninsured patients.

**PROGRAM COMPONENTS**

- Multi-disciplinary, multi-component home visits and follow up
- Registered Nurse, Registered Environmental Health Specialist (REHS), PharmD
- Partnership of CCWJC, Wake County Human Services (WCHS) and Wake County Environment Services (WCES)
  - WCHS and WCES - 0.5 FTE REHS for Wake County patients
  - CCWJC - RNs, PharmDs, Patients, Primary Care Providers (PCPs), Data
- Tailored education provided to family
- Durable goods to modify triggers (e.g. mattress and pillow encasings) funded by community partners
- Housing/legal resources shared as needed
- Detailed Report Provided To PCPs
- Database - 1 year pre and 1 year post assessment

**QUALIFICATIONS FOR IN-HOME ASSESSMENTS**

- All asthma patients in Wake County are eligible for multi-disciplinary in-home assessments with REHS
- In Johnston County, no REHS support
- Priority placed on patients that have:
  - Poor Asthma literacy and control
  - Emergency Department visits and hospitalizations
  - Poor medication compliance
  - Identified environmental concern (pests, mold, fumes, etc.)

**IDENTIFYING CLIENTS WHO WOULD BENEFIT**

- Referrals
  - Hospital Admissions, Emergency Department Visits, Direct PCP Referrals and Priority Patients identified by data
- Interventions for all Asthma patients
  - Medicaid claims review to assess PCP/Specialty links, ED and Hospital use and Medication list/toll information
  - Telephonic asthma assessment for determination of educational and environmental needs

**POST ASSESSMENT REPORTS**

- A detailed report is provided to parent
- A detailed report is provided to PCP that includes:
  - Findings of assessment
  - Education and supplies provided
  - Recommendations made by Environmental Services
  - Medication Reconciliation

- With family permission and if applicable, a letter and copy of report is provided to landlords
- Contact information for agencies that can advocate for or represent families is given if needed

**FOLLOW UP**

- A repeat home visit by RN Care Manager at 6 weeks
- Assess compliance with recommendations
- Provide recommended supplies (e.g. Hepa vacuum, food containers, etc.)
- Home Visit by RN Care Manager at 1 year for Asthma Assessment (including adherence to environmental recommendations)

**CCWJC ASThma ED RATES**

**CCWJC ASThma HOSPITALIZATION RATES**

**ACHIEVEMENT AWARD**

1 year pre vs 1 year post intervention
Average Savings per patient = $707

Community Care of Wake and Johnston Counties
2500 Blue Ridge Road, Suite 330
Raleigh, NC 27607
www.ccwj.com