

Project Background: Approximately 22 million Americans have asthma, of whom six million are children. Since 1991, the National Heart, Lung and Blood Institute's [National Asthma Education and Prevention Program \(NAEPP\) Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma \(EPR-3\)](#) and similar expert documents, including the [Guide to Community Preventive Services](#), have defined evidence-based best practices for what is needed to reduce the disease burden for patients living with asthma.

Asthma rates are disproportionately high in low-income and minority populations, especially among African Americans and Puerto Ricans. Low-income children and adults are more likely to be hospitalized for asthma than those with higher incomes. Children with Medicaid were almost 50 percent more likely to receive care in the emergency department than those not on Medicaid. Adding to the challenges Medicaid enrollees face, this population is more likely to have low health literacy, making it more difficult for them to manage their asthma or other chronic diseases.

Numerous studies and pilot programs have demonstrated that adherence to guidelines-based care results in better patient outcomes. In 2015, the American Lung Association launched its Asthma Care Coverage Project to determine to what extent seven key elements of guidelines-based care, detailed below, are being covered by state Medicaid programs.

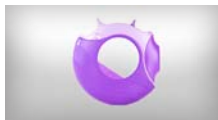
Icon legend: ✓ = Covered ▼ = Coverage varies by plan ✗ = Not covered N/A = Not Applicable

Quick Relief Medications: Fast acting or quick relief medications are taken to provide immediate relief from the narrowing of airways in lungs and other acute symptoms of asthma.



Quick Relief Medications	Covered?	Barriers?
SABA		
Albuterol Sulfate	✓	Yes
Levalbuterol	▼	Yes
Anticholinergics		
Ipratropium	✓	Yes
Ipratropium with Albuterol	✓	Yes

Controller Medications: Control medications that need to be taken daily on a long-term basis to control persistent asthma.



Controller Medications	Covered?	Barriers?
Inhaled Corticosteroids		
Budesonide (Nebulized)	✓	Yes
Beclomethasone	▼	Yes
Ciclesonide	▼	No
Flunisolide	▼	Yes
Fluticasone propionate	▼	Yes
Mometasone furoate	▼	Yes
Systemic Corticosteroids		
Methylprednisolone	✓	Yes
Prednisolone	✓	Yes
Prednisone	✓	Yes
LABA		
Formoterol fumarate	▼	Yes
Salmeterol xinafoate	▼	Yes
Combined Medications		
Fluticasone propionate and Salmeterol	▼	Yes
Mometasone furoate and Formoterol fumarate	▼	Yes
Budesonide and Formoterol fumarate	▼	Yes
Cromolyn		
Cromolyn	▼	Yes
Leukotriene Receptor Antagonists		
Montelukast	✓	Yes
Zafirlukast	▼	Yes
5-Lipoxygenase Inhibitor		
Zileuton	▼	No
Methylxanthines		
Theophylline	✓	Yes
Immunomodulators		
Omalizumab	▼	Yes

Devices: An additional appliance/accessory sometimes used to properly administer asthma medication. (Please note: there is a distinction between spacers and valved-holding chambers. The data collected focuses only on valved-holding chambers and not spacers).



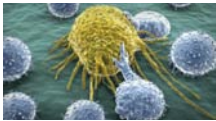
Devices	Covered?	Barriers?
Nebulizer	▼	No
Peak-flow meter	▼	Yes
Valved-holding chambers	▼	Yes

Allergen Testing: An assessment of sensitivity to allergens with skin or in vitro (blood) testing for patients with persistent asthma.



Allergen Testing	Covered?	Barriers?
Skin testing	▼	Yes
In vitro testing	✘	N/A

Allergen Immunotherapy: For asthma patients with known allergen sensitivities (determined by an allergen test) and whose symptoms cannot be controlled by medication.



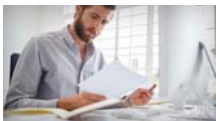
Allergen Immunotherapy	Covered?	Barriers?
	▼	Yes

Home Visits: Home visits and interventions are comprised of three components: education, assessment and intervention. Interventions address the home environment, at least two components and at least two other asthma triggers (smoke, mold, pests, pets, etc.).



Home Visit and Intervention	Covered?	Barriers?
	✘	N/A

Self-Management Education: Providing education and instructions on ways to self-monitor asthma symptoms. (Please note: disease management programs are not considered here as self-management education).



Self-Management Education	Covered?	Barriers?
	✘	N/A

As part of the Asthma Care Coverage Project, the American Lung Association also tracks barriers, or impediments to guidelines-based care. More information about the barriers tracked as part of this Project can be found at Lung.org/asthma-care-coverage.

Data Last Updated: 6/2/16

For more information, please visit Lung.org/asthma-care-coverage or contact us at Asthmacare@lung.org.