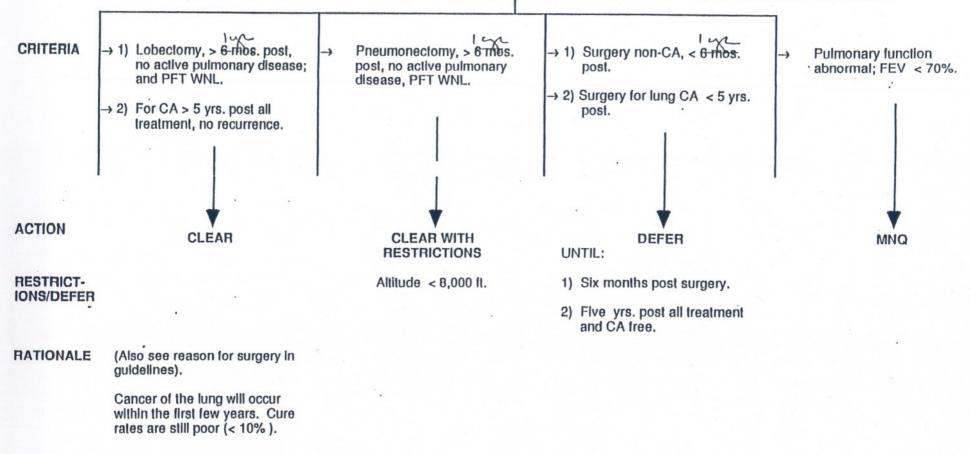
ASTHMA (493.9); Childhood (493), Exercise Induced, Others CRITERIA → 1) Meets all 4 criteria for 1) > 2 episodes/wk of symptoms 1) Asthma or 1) Childhood Asthma, no recurrence 1) Non seasonal mild asthma (below), 2) > 2 episodes/wk of nocturnal bronchodilate since age 13. bronchospasm (pet stable for 3 months. Irreversible lu 2) Bronchospasm secondary to asthma allergies) specific chemical/occupational 3) 30 day PEFR < 80% of disease predicted (emphysema Irritant. 2) Urgent Dr. visits in last 5 COPD, lobec 4) Incomplete response to 3) Asthmatic bronchitis or secondary Methacholine challenge w/ bronchödilalors ייולטורויצאטיויצולפוע. TPU office una/ml 4) SOB/wheezing resolved 3) Exercise induced asthma 5) Cough or wheezing present btwn MDI use w/antihistamines 6) Theodure use only, last 5) OTC Bronchodilator (Primatene) in serum level < 10 mcg/ml past, asymptomatic at least 1 yr. 7) theophylline use only, level 6) History, PEFR monitoring X 2 wks. 10-20 and methacholine test all 8) OTC bronchodilator currently negative for airway disease. or w/ln 1 yr. 9) Exercise tolerance reduced despite adequate inhaled sterolds. 10) Need for systemic steroids in last 5 yrs. ACTION MAB/MED MNQ **CLEAR WITH** DEFER CLEAR RESTRICTIONS ADVISOR 1-5) Maots criteria for mild asthma 1) Distinguish isolated 3) Needs Drs' diagnosis 1) Mild asthma criteria: RESTRICT-6) d/c meds and monitor response allergies (which can be a) < 3 episodes/wk reading beta agonist IONS/DEFER cleared) from an underlying X 1 month. (bronchodilator) · asthmatic condition. 7) Controlled w/ MDIs, stable X 3 b) < 3 episodes/wk of nocturnal asthma mnths meets criteria for mild c) Baseline spirometry WNL except for asthma 3) Drs/ Hx supporting evidence of obstructive airway Dx. dlagnosis. Needs 6-8 min 8) Physician addresses problem, must meet criteria for mild of sustained exercise with 30 day PEFH > 80% of predicted, < 20% asthma or d/c therapy return of FEV, w/in 20 min: variation 9-10) Period of 5 yrs during which clear. d) All of above w/ complete response to applicant not more severe than bronchodilators restrict column Methacholine challenge can be RATIONALE used in the differential diagnosis of asthma severity or for excluding it.

PULMO-8

Pulmonary Disease

SURGICAL PROCEDURES LOBECTOMY (32.4), PNEUMONECTOMY (32.5), MALIGNANCY OF THE LUNG OR BRONCHUS (162)



MEDICAL INFORMATION NEEDED: Generic information, pulmonary function studies; activity limitations including altitude restrictions, if any.





for \$20 in US funds to NHLBI Information Center, PO Box 10305, Bethesda, MD 20824-0105. The NHLBI Web site also has the full document at www.nhlbi.nih.gov/nhlbi/nhlbi.htm. Click on "New and Special Items" then scroll down to the February 21, 1997 entries to locate the guidelines. You will need the Adobe Acrobat reader to view or print the document; it can also be downloaded from the NHLBI Web site. If you would like to see the 7-page table of contents, we've put it on our FaxBACK system to save you the trouble of having to download the entire document. Ask for document #130423.)



The 1997 Expert Panel Report II: Guidelines for the Diagnosis and Management of Asthma

On February 24, 1997, in association with the American Association of Allergy, Asthma, and Immunology meeting, the NHLBI National Asthma Education and Prevention Program introduced the update to its expert panel Guidelines for the Diagnosis and Management of Asthma (termed the Expert Panel Report II). As with the previous report, this document will provide health professionals with a blueprint for managing asthma. Currently, the full document can be downloaded from the NHLBI's Web site and will become available in the next few months. A number of key new aspects and differences from the first report published in 1991 are outlined below.

Meeting parents' and families' expectations and satisfaction with asthma care has been added as a major goal of therapy, and patient education has been brought to the forefront of all aspects of patient care. Developing a true partnership with the patient and teaching guided self-management is considered to be a primary goal. Examples of questions for obtaining quality-of-life information have been added. Criteria for referral to asthma specialists have also been provided. It is recommended that all patients receive written actions plans for treating exacerbations at home. Peak flow monitoring has been better defined and is recommended only for those patients with moderate-to-severe asthma, although it is suggested that even patients with mild asthma may benefit from peak flow monitoring during exacerbations. Finally, recommendations for reducing exposure to factors that contribute to the severity of asthma (i.e., smoking, allergens, drugs, and additives) are made.

A key change in the pharmacologic therapy is the addition of the added category of mild persistent asthma to the mild intermittent, moderate persistent, and severe persistent categories. Drugs are no longer classified as either anti-inflammatory or bronchodilators, but as "long-term control" and "quick-relief" medications. Long-term controllers to be used for the chronic prophylaxis of asthma include cromolyn, nedocromil, inhaled steroids, theophylline, long-acting beta-2 agonists, the leukotriene D4 antagonists, and the 5-lipoxygenase inhibitor. Quick-relief medications to be used for reversal of acute exacerbations include: short-acting inhaled beta-2 agonists, systemic corticosteroids, and ipratropium. While stepwise therapy is still advocated, the concept of beginning patients at a higher step to gain control, then reduce therapy to the minimum required for control has been introduced. Therapy for Step 1 Mild Intermittent continues to be short-acting inhaled beta-2 agonists as needed. Step 2 Mild Persistent requires a long-term controller (cromolyn or nedocromil, particularly in children, and low-dose inhaled corticosteroids preferred) plus short-acting inhaled beta-2 agonists as needed. Theophylline and the leukotriene modifiers are second-line agents for this stage. Step 3 Moderate Persistent can be treated with medium-dose inhaled corticosteroids or the addition of a long-acting bronchodilator (salmeterol preferred) or both, as well as short-acting inhaled beta-2 agonists as needed. Severe Persistent asthma (step 4) should be treated with high-dose inhaled corticosteroids, long-acting bronchodilators, and possibly systemic corticosteroids. The panel has provided a table giving generally equivalent dosages of the various inhaled corticosteroids, recognizing that the preparations are neither equivalent on a microgram basis nor on a puff basis. The mainstay of the treatment of acute exacerbations continues to be higher dose inhaled, short-acting selective beta-2 agonists, and systemic corticosteroids. Theophylline is no longer recommended in this setting. Inhaled ipratropium may be of value in some patients; all other therapies are of unproven efficacy.





2453 Grand Canal Blvd., Suite A, P.O. Box 8190, Stockton, CA 95208 ● TEL (209) 472-2240 ● FAX (209) 472-2249

control. This is illustrated in figures 3-4a and 3-4b. Figures 3-5a and 3-5d present usual medication dosages for therapy. Because asthma is a chronic inflammatory disorder of the airways with recurrent exacerbations, therapy for persistent asthma must emphasize efforts to suppress inflammation over the long term and prevent exacerbations. Recommendations in the stepwise approach to therapy are based on the Expert Panel's review of the literature (see component 3-Medications) and the Expert Panel's experience and opinion.

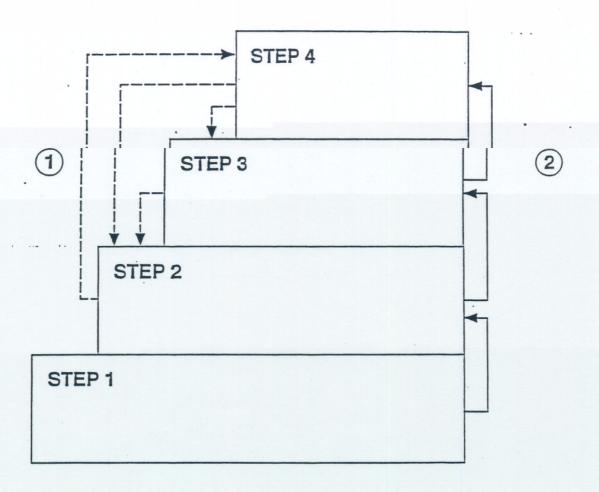
Gaining Control of Asthma

The clinician must judge individual patient needs and circumstances to determine at what step to initiate therapy. There are two appropriate approaches to gaining control of asthma:

- Start treatment at the step appropriate to the severity of the patient's disease at the time of evaluation and gradually step up if control is not achieved.
- OR At the onset, administer therapy at a level higher than the patient's step of severity to gain rapid control. This can be accomplished by either a short course of systemic corticosteroids (see figure 3-5a) along with inhaled corticosteroids or initiating a medium-to-high dose of inhaled corticosteroids. Once control is gained, step down the therapy.

The two approaches are illustrated by the solid and broken lines in the following diagram.

Two Approaches To Gaining Control of Asthma: (1) Start With High-Dose Therapy and Step Down or (2) Gradually Step Up Therapy



The more aggressive approach of gaining prompt control with a higher level of therapy is preferred, in the opinion of the Expert Panel. At present, there are no studies directly comparing the two approaches—the traditional step-up care (low dose to high) vs. step-down care (initial high dose to low). However, there is evidence supporting a more aggressive initial approach. First, asthma symptoms and altered pulmonary function are related to the level of ongoing airway inflammation. Suppression of airway inflammation is more likely to occur with higher doses of corticosteroids. Furthermore, studies indicate that the dose of inhaled or systemic corticosteroids can be reduced and the clinical benefits sustained once the disease is controlled (Haahtela et al. 1994; Agertoft and Pedersen 1994). A preliminary observation in a retrospective study of children suggests that initiating inhaled corticosteroids early in the course of the disease results in better clinical benefit and less accumulated corticosteroid dose over the long term (Agertoft and Pedersen 1994). Therefore, it is conceivable that a more aggressive approach in initial therapy will more rapidly suppress airway inflammation, restore pulmonary function, and allow for eventual asthma control at lower doses of anti-inflammatory therapy.

Figure 3-4b. Stenwise Approach for Managing Asthma in Adults and Children Older Than 5 Years of Age: Treatment

STEP 2		

Figure 3-4b. Stepwise Approach for Managing Asthma in Adults and Children Older Than 5 Years of Age: Treatment (continued)

	Long-Term Control	Quick Relief	Education
STEP 1 Mild Intermittent	■ No daily medication needed.	 Short-acting bronchodilator: inhaled beta₁-agonists as needed for symptoms. Intensity of treatment will depend on severity of exacerbation; see component 3-Managing Exacerbations. Use of short-acting inhaled beta₂-agonists more than 2 times a week may indicate the need to initiate long-term-control therapy. 	 Teach basic facts about ast Teach inhaler/spacer/holding technique Discuss roles of medication Develop self-management Develop action plan for who to take rescue actions, espendients with a history of see exacerbations Discuss appropriate environments Control measures to avoid the known allergens and irritar
		•	(See component 4.)

Step down

Review treatment every 1 to 6 months; a gradual stepwise reduction in treatment may be possible.

1 Step up

If control is not maintained, consider step up. First, review patient medication technique, adherence, and environmental control (avoidance of allergens or other that contribute to asthma severity).

NOTE.

- The stepwise approach presents general guidelines to assist clinical decisionmaking; it is not intended to be a specific prescription. Asthma is highly variable; clinician should tailor specific medication plans to the needs and circumstances of individual patients.
- m Gain control as quickly as possible; then decrease treatment to the least medication necessary to maintain control. Gaining control may be accomplished by either starting treatrestee most appropriate to the minial severity of the continuous staining at a higher level of therapy (e.g., a course of systemic corticosteroids or higher dose of inhaled corticosteroids).
 - A rescue course of systemic corticosteroids may be needed at any time and at any step.
 - Some patients with intermittent asthma experience severe and life-threatening exacerbations separated by long periods of normal lung function and no symptoms. This may be especially common with exacerbations provoked by respiratory infections. A short course of systemic corticosteroids is recommended.
 - At each step, patients should control their environment to avoid or control factors that make their asthma worss (e.g., allergens, irritants); this requires specific diagnosis and education.

Figure 3-6. Stepwise Approach for Managing Infants and Young Children (5 Years of Age and Younger) With Acute or Chronic Asthma Sympto

	Long-Term Control	Quick Relief ,
STEP 4 Severe Persistent	Daily anti-inflammatory medicine High-dose inhaled corticosteroid with spacer/holding chamber and face mask If needed, add systemic corticosteroids 2 mg/kg/day and reduce to lowest daily or alternate-day dose that stabilizes symptoms	Bronchodilator as needed for symptoms (see step 1) up to 3 times a day
egpp.1 Moderate Persistent	- Polity and different force predictation Pitherc - Medium-dose inhaled corticosteroid with spacer/holding chamber and face mask OR, once control is established: - Medium-dose inhaled corticosteroid and nedocromil OR - Medium-dose inhaled corticosteroid and long-acting bronchodilator (theophylline)	"oronkndilmnor as needed for symptoms (see step 1) up to 3 times a day
STEP 2	Dally anti-Inflammatory medication. Either:	Bronchodilator as needed for symptoms (see step.1),
STEP 1 Mild Intermittent	No daily medication needed.	Bronchodilator as needed for symptoms <2 times a week. Intensity of treatment will dep severity of exacerbation (see component 3-Managing Exacerbations). Either: Inhaled short-acting beta 1-agonist by nebulizer or face mask and spacer/holding chook. Oral beta 1-agonist for symptoms With viral respiratory infection: Bronchodilator q 4-6 hours up to 24 hours (longer with physician consult) but, in grower than once every 6 weeks Consider systemic corticosteroid if Current exacerbation is severe OR Patient has history of previous severe exacerbations

NOTES: The stepwise approach presents guidelines to assist clinical decisionmaking. Asthma is highly variable; clinicians should tailor specific medication plans to the needs and circumstances of individual

• Gain control as quickly as possible; then decrease treatment to the least medication necessary to maintain control. Gaining control may be accomplished by either starting treatment at the step most appropriate to the initial severity of their condition or by starting at a higher level of therapy (e.g., a course of systemic corticosteroids or higher dose of inhaled corticosteroids).

 A rescue course of systemic conficosteroid (prednisolone) may be needed at any time and step.

In general, use of short-acting beta 3-agonist on a daily basis indicates the need for additional long-term-control therapy.

It is important to remember that there are very few studies on asthma therapy for infants.

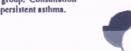
Consultation with an asthma specialist is recommended for patients with moderate or severe persistent asthma in this age group. Consultation should be considered for all patients with mild persistent asthma.

Step down

Review treatment every 1 to 6 months. If control is sustained for at least 3 months, a egadual stepwise reduction in treatment may be possible.

Step up

If control is not achieved, consider step up. But first: renation, medication temeninque, somerence, and environme control (avoidance of allergens or other precipitant factor)





ADULTS

Drug	Low Dose	Medium Dose	High Dose
Beclomethasone dipropionate	168-504 mcg	504-840 mcg	>840 mcg
42 mcg/puff	(4-12 puffs — 42 mcg)	(12-20 puffs — 42 mcg)	(>20 puffs — 42 mcg)
84 mcg/puff	(2-6 puffs — 84 mcg)	(6-10 puffs — 84 mcg)	(>10 puffs — 84 mcg)
Budesonide Turbuhaler	200-400 mcg	400-600 mcg	>600 mcg
200 mcg/dose	(1-2 inhalations)	(2-3 inhalations)	(>3 inhalations)
Flunisolide	500-1,000 meg	1,000-2,000 mcg	>2,000 mcg
250 mcg/puff	(2-4 puffs)	(4-8 puffs)	(>8 puffs)
Fluticasone MDI: 44, 110, 220 mcg/puff	88-264 mcg (2-6 puffs — 44 mcg) or (2 puffs — 110 mcg)	264–660 mcg (2-6 puffs — 110 mcg)	>660 mcg (>6 puffs — 110 mcg) or (>3 puffs — 220 mcg)
DPI: 50, 100, 250 mcg/dose	(2-6 inhalations — 50 mcg)	(3-6 inhalations — 100 meg)	(>6 inhalations — 100 mcg)
Triamcinolone acetonide	400-1,000 mcg	1,000-2,000 mcg	>2,000 mcg
	(4-10 puffs)	(10-20 puffs)	(>20 puffs)

CHILDREN -

Drug	Low Dose	Medium Dose	High Dose
Beclomethasone dipropionate 42 meg/puff 84 meg/puff	84-336 mcg (2-8 puffs)	336,673 /Z mcg (8-16 puffs)	(>16 puffs)
Budesonide Turbuhaler 200 mcg/dose	100-200 mcg	200-400 mcg (1-2 inhalations — 200 mcg)	>400 mcg (>2 inhalations — 200 mcg)
Flunisolide 250 mcg/puff	500-750 mcg (2-3 puffs)	1,000-1,250 mcg (4-5 puffs)	>1,250 mcg (>5 puffs)
Fluticasone MDI: 44, 110, 220 mcg/puff	88-176 mcg (2-4 puffs — 44 mcg)	176-440 mcg (4-10 puffs — 44 mcg) or (2-4 puffs — 110 mcg) (2-4 inhalations — 100 mcg)	>440 mcg (>4 puffs — 110 mcg) (>4 inhalations — 100 mcg)
DPI: 50, 100, 250 mcg/dose	(2-4 innaladons — 50 meg)	(24 minatations — 100 meg)	(>= innalations — 100 meg)
Triamcinolone acetonide	400-800 mcg (4-8 puffs)	800-1,200 mcg (8-12 puffs)	>1,200 meg (>12 puffs)

NOTES:

- The most important determinant of appropriate dosing is the clinician's judgment of the patient's response to therapy. The clinician mus monitor the patient's response on several clinical parameters and adjust the dose accordingly. The stepwise approach to therapy emphasizes that once control of asthma is achieved, the dose of medication should be carefully titrated to the minimum dose required to maintain control, thus reducing the potential for adverse effect.
- See figure 3-5c for an explanation of the rationale used for the comparative dosages. The reference point for the range in the dosages for children is data on the safety of inhaled corticosteroids in children, which, in general, suggest that the dose ranges are equivalent to beclomethasone dipropionate 200-400 mcg/day (low dose), 400-800 mcg/day (medium dose), and >800 mcg/day (high dose).
- Some dosages may be outside package labeling.
- Metered-dose inhaler (MDI) dosages are expressed as the actuater dose (the amount of drug leaving the actuater and delivered to the patient), which is the labeling required in the United States. This is different from the dosage expressed as the valve dose (the amount of drug leaving the valve, all of which is not available to the patient), which is used in many European countries and in some of the scientific literature. Dry powder inhaler (DPI) doses (e.g., Turbuhaler) are expressed as the amount of drug in the inhaler following activation.

Be free from severe symptoms day and night, including sleeping through the night Have the best possible lung function Received the first severy morning when you wake up, before taking your medication, measure your peak flow and record it in your diagrams. Note if you had asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible When To Take It Becardiow: Af least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diagram. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or	ASTHMA SELF-MANAGEMENT PLAN FOR
Be free from severe symptoms day and night, including sleeping through the night Have the best possible lung function Not miss work or school because of asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: When To Take It BECORD DAILY MEDICATIONS Daily Medication How Much To Take When To Take It BECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. BECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	(Name)
Have the best possible lung function Recalator participate vally in any activities of your choice Not miss work or school because of asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record of the in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	YOUR TREATMENT GOALS
Have the best possible lung function Recalator participate vally in any activities of your choice Not miss work or school because of asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reals flow: Af least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Not miss work or school because of asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS	
Not miss work or school because of asthma symptoms Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record of the number of puffs your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Not need emergency visits or hospitalizations for asthma Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reconstruction Reconstruction was employed by the peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator) : Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Use asthma medications to control asthma with as few side effects as possible Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Recycling: Af least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	• •
Add personal goals here: YOUR DAILY MEDICATIONS Daily Medication How Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Recordiow: Af least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
POUR DAILY MEDICATIONS The Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reck-Flow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	Use asthma medications to control asthma with as few side effects as possible
POUR DAILY MEDICATIONS The Much To Take When To Take It RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reck-Flow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Peek-Mow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	Add personal goals here:
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Peek-Mow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record Daily Self-Monitoring when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record Daily Self-Monitoring when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record Daily Self-Monitoring when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Record Daily Self-Monitoring when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	YOUR DAILY MEDICATIONS
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Recordiow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reck. Now: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	Daily Medication How Much To Take When To Take It
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reck. Now: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you. Reck. Now: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Peck Mow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Peck Mow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Peck Mow: At least every morning when you wake up, before taking your medication, measure your peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	DECORD DURY CELL MONTEODRIC A CONTONIO
peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	RECORD DAILY SELF-MONITORING ACTIONS in the asthma diary your doctor gives you.
peak flow and record it in your diary. Bring these records to your next appointment with your doctor. Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	Pank Move At least every morning when you wake up before taking your medication, measure your
Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or cough) and rate how severe they were during the day or night: mild, moderate, severe. Use of your quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Use of vour quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	
Use of vour quick-relief inhaler (bronchodilator): Keep a record of the number of puffs you needed to use each day or night to control your symptoms.	Symptoms: Note if you had asthma symptoms (shortness of breath, wheezing, chest tightness, or
to use each day or night to control your symptoms.	cough) and rate how severe they were during the day or night: mild, moderate, severe.
to use each day or night to control your symptoms.	
Actual use of daily medications	to use each day or night to control your symptoms.
Actual use of daily illedications	Actual use of daily medications
	Actual use of daily illedications
Activity restriction	Activity restriction

This plan is provided as an example to clinicians.