

Patient Education for Asthma

This wor	ksheet is to be used by health care professionals	providing Asthma Education			
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Date	Pathophysiology			And the second	Initials
20.0	Chronic, Inflammatory, Bronchospasm	, ↑ Mucous production			ALE ACTUAL STREET
Date	Action of Medication	Initials	The second secon	OBSERVAÇÃO PROSECULAR A CONTRACTOR A CONTRAC	Initials " !!
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	Inhaled Corticosteroid  Oral Corticosteroid	Anticho		0	and to the second secon
Date "		Comme	nts		Initials
	MDI/Spacer				
	Turbuhaler				
	Diskus				
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	SOB □ Tightness of Chest				
Date	Good Asthma Control is Defined as:	<b>,但是是我的现在是一个</b>	100		Initials
	Nighttime < 1X/ week Daytime < 4X		- Normal No Missed Scho		
	B2 use < 4X/ week (excluding 1 dose/day	with exercise)	Exacerbations: mild/infrequen	it — —	Initials
Date	Triggers Discussed Smoke Inflammatory –Non Allergic/	Allergic Symptom	Nasal Allergic/Infectious	Exercise	Hillians and
	Smoke Inflammatory –Non Allergic/	Allergic Symptom	Nasai Aneigie/inicetious		
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	When to go to the Doctor   When to	go to the Emergency Departn	nent   When to call 9	11	
September 2	↑ asthma symptoms Sympton	ns of Respiratory Distress	Acute signs of	Respiratory Distress	17.54261 FB14
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□ Inpatient □ Outpatient

## Medically Accurate and Consistent Information for Family/Child with Asthma

Pathophysiology: Chronic, inflammatory lung disease. Reversible airways obstruction. Symptoms often mild, intermittent, and treatable.

### **Action of Medications:**

Short acting B<sub>2</sub> (Reliever)—Onset of action 5 minutes. Temporarily relax the muscles around the airways. Relieves symptoms of Cough, Wheeze, SOB, Tightness of chest. Side effect(not toxic): shakiness, ↑ heart rate, hyperactivity, headache and nervousness, tremors

Inhaled Corticosteroid (Controller): Observable effect within 3 days & very significant results within 1-2 weeks. Used daily as prescribed to help heal and prevent swelling in the airways. Local side effects: Hoarse voice, thrush – rinse mouth after using.

Systemic side effects: Unusual at doses used to treat asthma

Oral Corticosteroid: Effective within 4 hours - Powerful anti-inflammatory. Used for acute treatment

Combination Therapy: Combines an anti-inflammatory and long acting (12 hour) bronchodilator. Generally use ICS first before going to this modality of treatment. Local side effect: Hoarse voice, thrush – rinse mouth after using.

Leukotriene Receptor Antagonist: Pill/chew tablet taken daily. Bronchodilator and mild anti-inflammatory properties. Side effects: Report to Dr.

Anticholinergic: Onset of action 5-15 minutes. Bronchodilator. Used as an adjunct to B2 agonists in emergency department. Rarely used outside emergency department.

Device Technique:

MDI/Spacer: 1. Shake MDI X 10 2. Insert into spacer 3. Place mask → face/mouthpiece → mouth 4. Depress MDI X 1 5. Inhale/exhale X 6 breaths OR 1 deep breath → hold X 10 sec → breathe out 6. Wait 30 seconds between each activation of MDI.

Turbuhaler: 1. Remove cap 2. Twist and Click 3. Exhale mouth 7. Hold X 10 sec 8. Breathe out 9. Replace cap.

4. Place between teeth and lips 5. Deep, fast breath in 6. Remove turbuhaler from Do not breathe into the turbuhaler. Do not shake.

Diskus: 1. Push cover open 2. Slide button down 3. Exhale 4. Place between teeth and lips 5. Deep, fast breathe in 6. Remove Diskus from mouth 7. Hold breath X 10 sec 8. Breathe out 9. Close cover. Do not breathe into the Diskus. Do not shake.

## Empty, Expired, Broken Devices:

MDI: Shake metal canister. Do not float in water to test amount of medication in canister.

Turbuhaler: Window ½ red→20 doses left. Window all red → empty. Note: Desiccant will always remain in empty device.

Diskus: Counter reads 0

Expired: Check expiry dates on medication

Valves: Check valves on Spacer/mask and Spacer → not missing/intact

Symptoms: Cough, Wheeze, SOB, Tightness of Chest. Daytime, Nighttime, Exercise

Monitoring Symptoms: Good asthma control means: Nighttime symptoms < 1 X/week, Daytime symptoms < 4X/week, Physical activity – normal, B₂ use (reliever) < 4 X/week (excluding 1 dose/day with exercise/day), No missed school/work, Exacerbations→ mild/infrequent.

Triggers: Inflammatory Triggers → Allergic and Non- allergic. Symptom Trigger → Irritants.

 $Exercise \rightarrow Evaluate \ asthma \ control/B_2 \ \ 15 \ minutes \ prior \ to \ exercise \ Nasal: Allergic/Infectious \rightarrow Physician \ examination/treatment.$ 

When and Where to Get Help / Signs and Symptoms of Respiratory Distress

Go to Doctor→↑asthma symptoms. Go to Emergency—suprasternal indrawing, intercostal indrawing. ↓ Energy. Rescue reliever does not provide relief for 3-4 hours or do not see improvement within 12- 24 hours. Call 911 → Breathing fast/gasping, difficulty speaking, blue-grey lips or fingernails.

Barriers:

Medication side effects: ICS → safe at doses used to treat asthma. Does not affect growth – expected height achieved.

Finances: (Cost of Medication, Time missed at work): Make Doctor aware of issue. Involve social work if needed. Medication Cost: Contact community pharmacy for cost or drug insurance concerns, or family doctor to supply medication samples

Querying Diagnosis: Doctor diagnosed. Asthma is the presence of airways hyper reactivity in the absence of underlying lung/airway disease

Lack of Asthma Knowledge: Providing medically accurate/consistent information in language the child/family understands. Consider picture tools

Language/Cultural: Translation Services 944-0202 Available 24/7 - 365 days

Triggers: Avoidance Strategies → Better asthma control



# iCAN Asthma Diary

ame.		lucator:
Child's Name	ate:	hoctor/Educator:

	-	2	3	4	5	9	7	8	6	10	7	12	13	14
Symptoms														
Cough														
Wheeze														
Shortness of Breath														
Activity														
Sleep														
Missed School														
Medications														
Peak Flows														
Best of 3														
Daily Activity/Trigger Exposure														
3000														U2-13-212-U
					-									

		Symptom Score	ore	1
Cough	Wheeze	Shortness of Breath	Activity	Sleep
0 None 1 Sometimes 2 Often 3 All the time	0 None 1 Mild 2 Moderate 3 Severe	0 Never 1 Some with activity 2 Often with activity 3 All the time, even at rest	0 Normal 1 Limited 2 Very Limited 3 Unable to do daily activities 3 Awake most of night	O Sleep through night 1 Wheeze or cough while sleeping 2 Restless; awakens often 3 Awake most of night

			Į	Available at ACH
Anti-Inflammatories	ACH cost	# doses	Cost/dose	outpatient pharmacy
	26.45		0.44	
Flovent Diskus 50 mcg Flovent Diskus 100 mcg	35.08		0.58	No
	53.27			
Flovent Diskus 250 mcg	102.21	60		No
Flovent Diskus 500 mcg	102.21			
Flovent HFA MDI 50 mcg	36.06	120	05.50.00	No
Flovent HFA MDI 125 mcg	53.27	120		Yes
Flovent HFA MDI 250 mcg	102.21	120	0.85	Yes
Tioverit in the second				
Pulmicort Turbuhaler 100 mcg	41.67	200		
Pulmicort Turbuhaler 200 mcg	74.83	200		Yes
Pulmicort Turbujhaler 400 mcg	128.14	200	0.64	No
Alvesco MDI 100 mcg	54.5			Yes
Alvesco MDI 200 mcg	82.75	120	0.69	Yes
				1
Qvar MDI 50 mcg	41.59			Yes
Qvar MDI 100 mcg	72.2	3 200	0.36	Yes
Relievers Short-Acting				T
Ventolin HFA MDI 100 mcg	25.2			3 No
Ventolin Diskus 200 mcg	24.7			1 Yes
Bricanyl Turbuhaler .5 mg	26.3			3 Yes
Airomir MDI 100 mcg	19.0			1 No
Atrovent MDI 20 mcg	26.6	7 20	0.1	3 No
Long Acting Bronchodilators				11.7
Serevent Diskus 50 mcg	65.9			1 Yes
Oxeze Turbuhaler 6 mcg	43.9			3 No
Oxeze Turbuhaler 12 mcg	56.6			4 Yes
Spiriva Handihaler 18 mcg	77.0	8 3	0 2.5	7 No
Combination Medications				
Advair Diskus 100 mcg	97.7	9 6		3 Yes
Advair Diskus 250 mcg	11	6 6		3 Yes
Advair Diskus 500 mcg	157.3	31 6	io 2.6	2 Yes
Advair MDI 125 mcg		16 12		7 Yes
Advair MDI 125 mcg	157.3	31 12	20 1.3	Yes Yes
7.88.				-1.
Symbicort Turbuhaler 100 mc	g 73.9			S2 Yes
Symbicort Turbuhaler 200 mc	g 99.4	43 12	0.8	33 Yes
Cymbiodit Tarbanaidi 200 me	<u> </u>			

# Asthma Medication Costs Jan 2009

LTRA	ACH cost	# doses		Available at ACH outpatient pharmacy
Singulair 4 mg granules	\$55.00	30	\$1.83	yes
Singulair 4 mg pill	\$55.00	30	\$1.83	yes
Singulair 5 mg pill		30	\$1.99	yes
Singulair 10 mg pill	\$82.53	30	\$2.75	yes

# Spacing devices

	A 12 / Lab					
Ae	ro	C	h	ar	nb	er

Neonate	N/A
Pediatric	N/A
mouthpiece	N/A
adult mask	N/A
Aerochamber boyz/girlz	N/A

Optichamber	\$24.17
Neonate mask - small	\$15.47
Pediatric mask - med	\$16.22
Adult mask - Large	N/A

Nasal Spray				
Nasonex 50 mcg/spray	\$39.87	140	0.28	yes
Flonase 50 mcg/spray	\$41.69	120	0.35	yes
Avamys 27.5/spray	\$36.40	120	0.3	yes
Omnaris 50 mcg/spray	\$23.63	120	0.2	no