

Primary Care Asthma Program (PCAP)

Program Manual

Version 2020

Ontario Lung Association is a registered charity operating as the Lung Health Foundation

Primary Care Asthma Program

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Section 1: Introduction

Primary Care Asthma Program

Introduction

Thank you for your expressed interest in the Primary Care Asthma Program (PCAP).

PCAP is an evidence-based program that provides a model of care to primary care health practices in Ontario. PCAP is a part of the Ministry of Health and Long-term Care's Asthma Program (AP) mandate to reduce the utilization of health care through an integrated plan including prevention, health promotion, education, management (including treatment), surveillance and research.

This program is designed to equip primary care sites to provide evidence-based respiratory care to their patients through implementation processes, program standards and respiratory resources and tools.

We hope that this program serves you well in providing the best lung health outcomes for your patient.

Disclaimer: The content of this guide is based on current available evidence and has been reviewed by medical experts. It is provided for informational purposes only. The views set out in this guide are those of the authors and do not necessarily reflect those of the Government of Ontario or the Ministry of Health and Long-Term Care. The information is general in nature and is not intended to be a substitute for sound clinical judgment. Seek the advice and expertise of your health care provider with any questions you may have about your health.

Primary Care Asthma Program

Background Summary

The Primary Care Asthma Program (PCAP) is an evidence-based asthma program intended to provide primary care providers with decision aids to support best practice regarding asthma assessment, diagnosis and management. Its development, implementation and evaluation as a pilot program were funded through the Ontario Ministry of Health and Long-Term Care, as one of the initiatives of the Asthma Plan of Action (APA), now called the Asthma Program (AP). The pilot for this program was evaluated through a research study led by Drs. Teresa To and Lisa Cicutto in 8 primary care sites across the province from 2002-2006.

Results of the pilot were very positive for asthma management, patient outcomes and acute care use and were sustained at 6 and 12 month intervals. There were statistically significant improvements in:

- the amount of spirometry completed almost doubled to 67.4% from 38.4% ($p < 0.0001$)
- relative reduction of 33.7% in daytime asthma symptoms ($p = 0.0432$)
- relative reduction of 45.2% in night time awakening symptoms ($p < 0.0001$)
- relative reduction of 29.9% in asthma attacks ($p < 0.0001$)
- relative reduction of 48.8 % in missed school days ($p = 0.0004$)
- relative reduction of 50.0% in emergency department visits ($p < 0.0001$).¹

The PCAP tools are intended for use by a multi-disciplinary team and include:

- Care Maps (Asthma and COPD)
- Action Plans (Asthma and COPD)
- Decision and Management Algorithms (Asthma and COPD)
- Generic program standards

In partnership with the Lung Health Foundation, PCAP also provides COPD program resources and tools to deliver a lung health program. The PCAP tools are based on the latest Canadian Asthma and COPD Consensus Guidelines. The care map and action plan are being adapted for integration into electronic medical records (EMRs) in primary care.

The eight sites that participated in the Primary Care Asthma Pilot Project (PCAPP) include:

- Gizhewaadiziwin Health Access Centre (Fort Frances)
- Group Health Centre (Sault Ste. Marie)
- Rural Kingston Primary Care Network (Kingston and area),
- South Riverdale Community Health Centre (CHC) (Toronto East)
- Stonegate CHC (Toronto West),
- North Lanark CHC (Lanark and Renfrew counties)
- North Hamilton CHC (Hamilton)
- Somerset West CHC (Ottawa)

¹ T. To, L. Cicutto, N. Degani, S. McLimont, J. Beyene, Can a Community Evidence-based Asthma Care Program Improve Clinical Outcomes? A Longitudinal Study. *Med Care* 2008;46: 1257-1266

Primary Care Asthma Program

Background Summary

After the pilot, PCAP was implemented in four additional locations through the following coordinating centres:

- Asthma Research Group Inc. (Windsor – various locations)
 - St. Joseph's Health Care (London)
 - Royal Victoria Hospital (Barrie)
 - Thunder Bay Regional Health Sciences Centre* (Thunder Bay)
- *now St. Joseph's Care Group in Thunder Bay

In addition, Kingston General Hospital, Firestone Institute for Respiratory Health and Sunset Country FHT have taken on coordination of PCAP programs in the Kingston, Hamilton and Kenora areas respectively. **There are now 13 PCAP sites funded by the MOHLTC AP in Ontario.**

PCAP is part of Ontario's Asthma Program (AP), an integrated strategy of thirteen initiatives based on the Canadian Asthma Consensus Guidelines^{2,3} and the Canadian Thoracic Society Guidelines for occupational asthma.⁴ The goal of the AP is to reduce mortality, morbidity and health care costs for children and adults with asthma through an integrated plan focused on health promotion and prevention, management and treatment and research and surveillance.

PCAP is delivered within a multi-disciplinary team of primary care providers with the leadership of a Site Coordinator and/or a Certified Respiratory Educator (CRE) who is also trained in doing Spirometry (is certified through SpiroTrec™ or is a RRT or RCPT). The Site Coordinator and/or a CRE assist with program implementation, mentoring, and education of patients and staff. The key to the success of this program is the expertise of the educator who provides current evidence-based knowledge and assists with on-site objective measurements via spirometry to facilitate accurate diagnosis and management of asthma. The program is modeled on fostering patient and family self-management.

A Provincial PCAP Coordinator was added in 2007 to maintain and enhance current AP and non-AP funded PCAP sites to address ongoing program integration challenges (identified through annual needs assessments) and to assist new primary care sites with implementation and integration of PCAP into their clinics. A strategic planning session was held in the fall of 2007, with key strategies including definition of the governance structure, development of a generic business case and marketing plan, and standardization of the program including the program manuals (site and spirometry). Project groups work to implement recommendations and suggestions identified by the PCAP Advisory.

² Boulet, L.-P., A. Becker, D. Bérubé, R. Beveridge, and P. Ernst, on behalf of the Canadian Asthma Consensus Group. 1999. Canadian asthma consensus report. *CMAJ* 161 (11 Suppl.): S1-61.

³ Boulet L.-P., T. R. Bai, A. Becker, D. Bérubé, R. Beveridge, D. M. Bowie, K. R. Chapman, et. al. 2001. What is new since the last (1999) Canadian Asthma Consensus Guidelines? *Can Respir J* 8 (Suppl A): 5A-27A.

⁴ Tarlo, S. M., L.-P. Boulet, A. Cartier, D. Cockcroft, J. Côté, F. E. Hargreave, L. Holness, G. Liss, J. L. Malo, and M. Chan-Yeung. Canadian Thoracic Society Guidelines for occupational asthma. 1998. *Can Respir J* 5 (4): 289-300.

Primary Care Asthma Program

Background Summary

Since 2007 and the addition of the PCAP provincial coordinator, PCAP has expanded..
Expansion:

- Over 190 sites across Ontario
(36 co-ordinating AP-funded sites: includes branches, satellites, First Nation communities, orphaned clinics, group and single physician clinics)
- Comprehensive PCAP Training Schedule for program implementation

Other AP initiatives related to PCAP:

- Provider Education Program (PEP)
- Asthma Action (providing patient tools and resources)
- School-Based Initiatives (Asthma Friendly Schools and Ryan's Law implementation)
- Smoke Free Homes & Asthma
- EMR Project including: data standards and specifications, Asthma Quality of Life Questionnaire (AQLQ) and Work-Related Asthma Screening Questionnaire (WRASQ)
- Work-Related Asthma
- Emergency Department Asthma Care Pathway (EDACP) for adult and pediatric population
- Asthma Surveillance and Asthma Performance Indicators (PC-API)
- Collaborative Care Pilot Project (CCPP)

Primary Care Asthma Program

Site Coordinator and Site Certified Asthma/Respiratory Educator

Generic Primary Care Asthma Program (PCAP) Job Descriptions

The following job descriptions have been developed to help guide PCAP sites with the recruitment of a PCAP Site Coordinator and or Certified Asthma/Respiratory Educator.

Background

The Primary Care Asthma Program (PCAP) is an evidence-based program intended to provide primary care providers with decision aids to support best practice regarding asthma assessment, diagnosis, management, patient education, monitoring, and the primary and secondary prevention of asthma and occupational asthma. The program tools include:

- Generic program standards
- Care Map (asthma and COPD)
- Action Plan (asthma and COPD) and
- Decision and Management Algorithm (asthma and COPD)

These tools, based on the Canadian Respiratory Guidelines, are intended for use by a multi-disciplinary team. A PCAP site coordinator and or a certified asthma/respiratory educator support the implementation and ongoing sustainability of the asthma program in collaboration with the primary care providers at each location.

The PCAP Site Coordinator leads program implementation including staff and patient education and participation in research as appropriate. Key to the success of this program is the expertise of the certified asthma/respiratory educator whose focus is patient and family guided self-management while providing current evidence-based asthma information and assistance with on-site objective measurements to facilitate accurate diagnosis and management of asthma and COPD.

Position: PCAP Site Coordinator

Reporting to: Site Administrator

Position Description:

The PCAP Site Coordinator participates in the planning, development, implementation and ongoing evaluation of the Primary Care Asthma Program, in collaboration with primary care providers, community/provincial agencies and the general public.

Primary Care Asthma Program

Site Coordinator and Site Certified Asthma/Respiratory Educator

Key Responsibilities

- Establishes (in consultation with the Site Administrator) goals, objectives and plans for effective implementation of the Primary Care Asthma Program for the site and associated locations.
- Develops (in consultation with the Site Administrator) PCAP site specific budget; implements the budget, monitors expenses and provides rationale for variances.
- Identifies and reports opportunities for program improvements, sustainability and possible expansion.
- Develops and maintains collaborative internal and external partnerships.
- Attends relevant events, meetings and participates as a member of committees and/or working groups.
- Utilizes the best available evidence to support decisions.
- Participates in research initiatives, as appropriate.
- Serves as a resource person for respiratory health education for the site and community.
- Responsible for staffing of PCAP
- Supervises and mentors other respiratory educators
- Facilitates training and continuing education for PCAP and site staff
- Works with educators and individual sites to ensure adherence to PCAP standards and protocols.
- Conduct individual and family assessments to identify strengths, resources, psychological factors, socioeconomic impact, knowledge, and potential barriers to learning and improved asthma management
- Provide spirometry testing as indicated in accordance with the Canadian Thoracic Society/American Thoracic Society/European Respiratory Society guidelines
- Provide asthma and COPD education to patients, families and care providers utilizing best practice strategies and standardized PCAP tools, in accordance with PCAP Advisory Group recommendations
- Work with patients/families and primary care provider to develop, implement and revise customized self-management plans (Action Plans)
- Complete documentation in accordance with PCAP standards and site specific policies and practice
- Identify community resources and help patients to understand how and when to best access those resources appropriately
- Monitor asthma education program outcomes and performance indicators, recommending changes to improve quality and effectiveness of program
- Serve as a resource to the community by providing information about asthma; liaise with local health care providers, hospitals and community organizations to increase awareness, knowledge and skills
- Performs other duties as assigned.

Primary Care Asthma Program

Site Coordinator and Site Certified Asthma/Respiratory Educator

Essential Qualifications:

- Licensed Ontario Regulated Healthcare professional (for example registered respiratory therapist, registered nurse or pharmacist).
- Certified Asthma Educator or Certified Respiratory Educator
- Demonstrated leadership, team development and facilitation skills
- Experience in and/or training in project management.
- Demonstrated ability to incorporate evidence into practice
- Demonstrated competency in spirometry testing, (in accordance with the American Thoracic Society/European Respiratory Society Standards) preferred.
- Other, as required by individual sites.

Preferred Qualifications:

- Previous experience with program development and evaluation
- Demonstrated ability to establish and meet goals/ objectives
- Demonstrated ability to develop and work within a budget
- Previous experience with participation and support of research
- Demonstrated ability to build relationships and work collaboratively with internal and external stakeholders
- Demonstrated ability to function independently and as a professional team member and/or team leader
- Demonstrated excellent organizational and time management skills
- Demonstrated excellent interpersonal and communication skills
- Previous experience in delivery and evaluation of asthma education programs
- Excellent facilitation and teaching skills
- Self-directed practitioner
- Ability to work as a member of an interdisciplinary care team
- Excellent interpersonal and communication skills
- Strong organizational skills
- Demonstrated commitment to professional development
- Demonstrated ability to incorporate evidence into practice
- Experience and comfort with computer applications
- Excellent assessment and independent decision making skills
- Demonstrated flexibility, adaptability and ability to manage change
- Demonstrated competency in spirometry testing in accordance to the CTS/ATS/ERS Standards

Primary Care Asthma Program

Site Coordinator and Site Certified Asthma/Respiratory Educator

Primary Care Asthma Program

Position: Asthma/Respiratory Educator

Reporting to: PCAP Site Coordinator

Position Description:

The Certified Asthma/Respiratory Educator (CAE/CRE) works along with primary care providers to assess, diagnose and educate patients and their families or caregivers about asthma. The CAE/CRE fosters a collaborative approach to asthma management in the community; promotes and utilizes opportunities to increase awareness, skill and knowledge within the community, through their expertise; identifies and participates in continuing education and research opportunities as appropriate to the goals of PCAP and in accordance with host site guidelines.

Key Responsibilities

The following responsibilities are standards for a Certified Asthma/Respiratory Educator assigned to the Site and are not intended to address responsibilities that the incumbent might have elsewhere

- Conduct individual and family assessments to identify strengths, resources, psychological factors, socioeconomic impact, knowledge, and potential barriers to learning and improved asthma management
- Provide spirometry testing as indicated in accordance with the American Thoracic Society guidelines
- Provide asthma education to patients, families and care providers utilizing best practice strategies and standardized PCAP tools, in accordance with PCAP Advisory Group recommendations
- Work with patients/families and primary care provider to develop, implement and revise customized self-management plans (Action Plans)
- Complete documentation in accordance with PCAP standards and site specific policies and practice
- Identify community resources and help patients to understand how and when to best access those resources appropriately
- Monitor asthma education program outcomes and performance indicators, recommending changes to improve quality and effectiveness of program
- Serve as a resource to the community by providing information about asthma; liaise with local health care providers, hospitals and community organizations to increase awareness, knowledge and skills

Primary Care Asthma Program

Site Coordinator and Site Certified Asthma/Respiratory Educator

Essential Qualifications:

- Licensed Ontario Regulated Healthcare professional (for example registered respiratory therapist, registered nurse or pharmacist)
- Certified Asthma Educator or Certified Respiratory Educator

Preferred Qualifications

- Previous experience in delivery and evaluation of asthma education programs
- Excellent facilitation and teaching skills
- Self-directed practitioner
- Ability to work as a member of an interdisciplinary care team
- Excellent interpersonal and communication skills
- Strong organizational skills
- Demonstrated commitment to professional development
- Demonstrated ability to incorporate evidence into practice
- Experience and comfort with computer applications
- Excellent assessment and independent decision making skills
- Demonstrated flexibility, adaptability and ability to manage change
- Demonstrated competency in spirometry testing in accordance to the CTS/ATS/ERS Standards

Section 2: Getting Started

Primary Care Asthma Program (PCAP) Annual Best Practice Checklist

PCAP Best Practice Standard	Meets Standard	Site Comments
1. Health Care Providers (HCPs) have an understanding of the PCAP generic program standards consistent with their distinct roles and responsibilities b. There will be an identified plan for training and communication to all HCPs involved in PCAP.		
2. The PCAP site follows the current Lung Association (LHF) Asthma Care Map for patient assessment and follow-up		
3. The PCAP site follows the current LHF COPD Care Map for patient assessment and follow-up		
4. PCAP educator and/or lead is in good standing with their college or governing body		
5. PCAP educator and/or lead to provide college registration #		
6. PCAP educator and/or lead is a Certified Respiratory Educator (CRE) or Certified Asthma Educator (CAE)		
7. Each PCAP site must adhere to the PCAP Spirometry Policy and Procedure in the Spirometry Manual*		
8. PCAP site has a medical directive in place for conducting pre and post bronchodilator spirometry, including Salbutamol administration*		
9. The PCAP site uses the PCAP Operators Checklist when conducting spirometry*		
10. For children < 6 years of age who are unable to perform spirometry for diagnosis, Canadian Thoracic Society (CTS) Preschool Asthma Guidelines are followed		
11. If spirometry is inconclusive for diagnosis, alternative methods should be considered		

Primary Care Asthma Program (PCAP) Annual Best Practice Checklist

(e.g., methacholine challenge, Peak Expiratory Flows (PEF), exercise testing**, etc.) **exercise testing: to evaluate exercise-induced bronchospasm (EIB). This is not a cardiac stress test.		
12. Identification of Physician and/or Nurse Practitioner (NP) responsible for the interpretation of spirometry and the communication of the diagnosis to the client		
13. Spirometry is conducted by a Registered Respiratory Therapist (RRT), Registered Cardiopulmonary Technologist or another regulated health professional who has successfully completed an accredited spirometry course such as SpiroTrec™		
14. Spirometry is interpreted by qualified individuals within their scope of practice according to ATS/ERS/CTS standards		
15. The assessment for both asthma and COPD should include the explicit ruling out of alternative diagnosis		
16. All asthma and COPD clients, together with their families/caregivers (if desired) are active partners in the management of their disease		
17. All clients have a written or electronic action plan to be reviewed/revised at each appointment.		
18. There is an established plan and pathway for follow-up with every client		
19. The HCP explores barriers to adherence at every visit		
20. Asthma and COPD teaching resources and tools provided to the client and family will be evidence-based and consistent with the current CTS guidelines		

Primary Care Asthma Program (PCAP) Annual Best Practice Checklist

21. List all PCAP resources you currently use to aid in your clinical decision making		
22. The type/model of Spirometer used: Predicted values used:		
23. EMR used:		

*If spirometry is not performed on site, this may not apply. However, the spirometry that is conducted off site should adhere to ATS/ERS/CTS guidelines.

Please visit www.lungontario.ca/PCAP for all PCAP resources

- ☐ PCAP needs assessment survey completed
- ☐ The PCAP site lead keeps the team engaged and celebrates success (regular updates to ED, physician lead, program manager)

PCAP team members:

- ☐ Physician lead: _____
- ☐ Executive Director/Program Manager/site lead: _____
- ☐ PCAP educator lead: _____
- ☐ IT specialist: _____
- ☐ Other: _____

Reviewed by:

1. PCAP site lead: _____
2. PCAP educator lead: _____
3. PCAP physician lead: _____

Date signed: _____

Primary Care Asthma and COPD Program

Generic Program Standards

The following Asthma guideline-based and COPD guideline-based program standards are recommended in primary care sites implementing a Primary Care Asthma (12,13) and/or a COPD Program.

Program Standards:

1. **Asthma:** Paediatric and adults suspected of having asthma should be assessed, diagnosed, and managed using the Asthma Care Map (ACM) for Primary Care which is based on the recommendations in the Canadian Thoracic Society (CTS) Asthma Management Continuum Respiratory Guidelines (1). The ACM will be updated to reflect changes in the CTS guidelines.

COPD: Adults who are suspected to have COPD should be assessed and diagnosed. Once diagnosed, clients with COPD should be managed using the COPD Care Map (CCM) for Primary Care which is based on the Canadian Thoracic Society (CTS) recommendations for the diagnosis and management of COPD (8). The CCM will be updated to reflect changes in the CTS guidelines.

2. There will be a plan for training and communication of the Health Care Professional (HCP) involved in PCAP to ensure that the site staff has a level of understanding of the generic program standards consistent with their roles and responsibilities.
3. The HCP will provide PCAP within their scope of practice as regulated in Ontario by the Regulated Health Professions Act.
4. All clients will be provided with a written action plan for Asthma or COPD as appropriate

Spirometry/Diagnosis

5. Spirometry*, pre- and post-bronchodilator, in accordance with American Thoracic Society/European Respiratory Society standards (4), will be used as the primary objective measure for the diagnosis, monitoring and management of Asthma and/or COPD.
6. **Asthma:** If spirometry is not used for diagnosis and monitoring, a notation as to the reason why the use of an alternative method of diagnosis/monitoring should be made in the client's chart (e.g. "client cannot perform spirometry"). In the absence of objective testing (such as for children < 6 years of age, whom it is not possible to routinely assess lung function) a careful history and physical examination are used to differentiate Asthma from other causes of episodic respiratory symptoms (1,2,3).

Alternative testing consistent with CTS guidelines will be initiated at the discretion of the client's primary care provider and where resources are available. Measurements of airway hyperresponsiveness to Methacholine challenge, Peak Expiratory Flow (PEF) for clients > 6 years of age, or exercise challenge testing may be useful in diagnostic dilemmas, such as individuals with persistent asthma symptoms despite normal spirometry, and to evaluate work-related asthma (1).

COPD: Diligent screening for the detection of early signs of COPD is recommended to identify the early diagnosis. Who should be screened? Please refer to the Canadian Lung Health Test (8).

According to CTS guidelines, spirometry must be used to confirm the diagnosis of COPD. Post-bronchodilator, airflow obstruction must be noted - FEV1/FVC ratio < Lower Limit of Normal (LLN)** (or < 0.70 if LLN is not available) (8).

7. The assessment for asthma or COPD should include the explicit ruling out of other possible diagnoses responsible for asthma or COPD-like symptoms (1,8)

Asthma and COPD Management/PCAP Tools and other resources

8. All asthma and COPD clients, together with their family/caregivers, will be active partners in the management of their disease and in the creation of an individual action plan. (1,8)
9. Asthma and COPD education materials provided to the client to take home will be evidence-based, consistent with the CTS guidelines, and will strive to be age, culturally appropriate and provided in a language and format understood by the client as available.
10. The PCAP site will use a variety of site and community resources to reinforce the program standards.
11. A successful asthma or COPD education program consists of a partnership between the client and the HCP regarding the goals of treatment and ongoing follow-up to achieve and maintain optimal control of the client's lung health. Follow-up should be determined by the HCP on an individual basis. The content of the education session should refer to the CTS guidelines reflected in the care maps and algorithms.
12. Both Asthma and COPD clients will receive smoking cessation counseling when appropriate. It is recommended that the HCP involved with PCAP be trained in smoking cessation counseling.
13. The PCAP resources will aid in clinical decision-making and guide the patient towards self-management of their disease. Client assessment may occur over an average of 1-4 visits. However, some clients who have severe disease or other issues that impact on

achieving control of their asthma and/or COPD may require additional visits.
The PCAP resource catalogue includes:

Asthma: Asthma Care Map (ACM) for Primary Care, Asthma Action Plan, and the Asthma Diagnosis and Treatment Algorithm

COPD: COPD Care Map (CCM) for Primary Care, COPD Action Plan, and the COPD Diagnosis and Treatment Algorithm

Note: a variety of resources will be available in addition to the stated above. Refer to <http://hcp.lunghealth.ca>

14. The HCP should explore barriers to adherence at each visit. These may include cost of drugs, timing of administration, beliefs of non-effectiveness, concerns regarding side effects, and forgetfulness. The HCP should ensure that clients comprehend the name, purpose, duration of treatment, dosing schedule and possible adverse effects of each asthma or COPD medication prescribed (1,8)

If a client is unable to purchase asthma or COPD medications and devices as prescribed by site staff due to financial burden, the staff of the site will try to assist the client to access these medications and devices through available programs (e.g. Trillium Drug Program, compassionate access programs).

*Spirometric values = the performance of flow-volume curves

** Lower Limit of Normal: A statistically derived level below which a value is considered to be abnormal (10). For most biological measurements, the standard assumption is that for data with a normal distribution, values within 2 SDs of the mean value represent 95% of the population and are considered to be normal. The LLN is defined as the 5th percentile (the value that marks the lower 5% of the normal population) (11).

Please note:

Permission & Proper acknowledgement is required in any modification of the PCAP Tools as per PCAP process.

Approvals:

Approved by Design Task Force: July 11 2002

Last Amended by the Primary Care Asthma Program Advisory: June 2013

References:

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12. To T et al. Can a Community Evidence-based Asthma Care Program Improve Clinical Outcomes? A Longitudinal Study. *Med Care* 2008; 46(12): 1257-126
13. To et al. How Much Do Health Care Providers Value a Community-based Asthma Care Program? – A Survey to Collect Their Opinions on the Utilities of and Barriers to its Uptake. *BMC Health Services Research* 2009; 9:77

PCAP Patient Process Map—A Guide For Educators

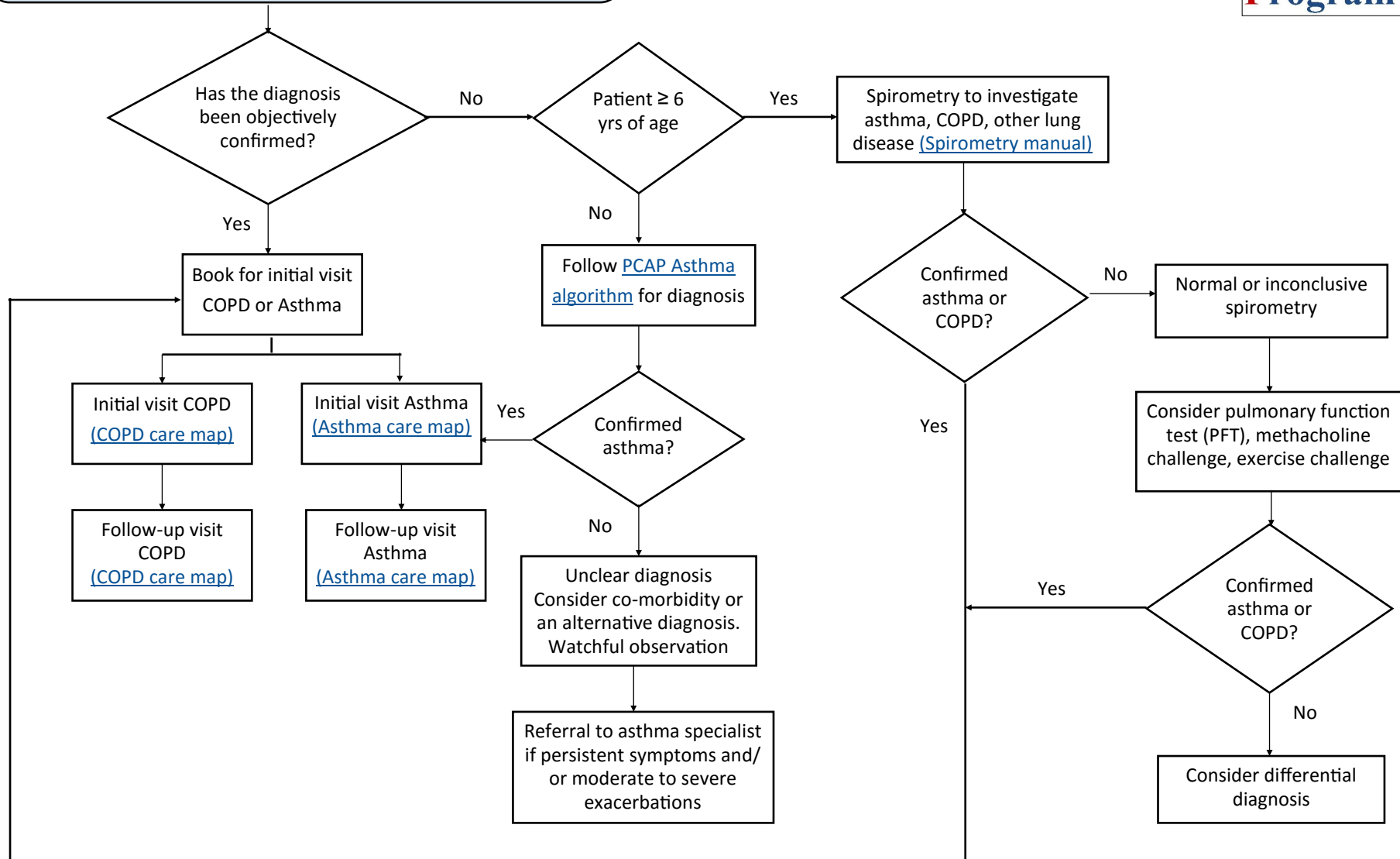
Referral to certified respiratory educator (CRE) for:

- Spirometry to support objective diagnosis of Asthma
- Spirometry to support objective diagnosis of COPD
- Symptoms of cough, wheeze, chest tightness, dyspnea, sputum production, nocturnal awakening with symptoms, exercise limitation, current/prior respiratory tract infection

Referrals could come from:

- Physician or NP
- Other site staff
- Hospital, ER
- CCAC/community care
- Self-referral

**Primary
Care
Asthma
Program**



PCAP Patient Process Map—A Guide For Educators

These are elements of best practice that should be followed as much as possible over time in follow-up visits.

COPD Initial (90 minutes) - use the COPD care map and algorithm to guide you

- Pre and Post Spirometry
- Determining patient goals
- Baseline assessment (symptom assessment, MRC, CAT score, depression score, health care utilization)
- Smoking history—smoking cessation if applicable
- Pathophysiology
- Medications (what they are, proper inhaler technique, adherence, medication access)
- Importance of alleviating dyspnea (exercise, energy conservation, breathing exercise)
- Triggers and occupational exposures
- Importance of immunizations (Influenza, pneumococcal)
- Social determinants of health (other addictions, access to care, cultural considerations, literacy)
- Address co-morbidities and referrals to other team staff or community programs as necessary (pulmonary rehabilitation)
- Develop a COPD action plan
- Consider referral to specialists if necessary
- Determine next follow-up appointment (frequency depends on client needs)

Asthma Initial (90 minutes) - use the asthma care map and algorithm to guide you

- Pre and Post Spirometry
- Determine patient goals
- Personal history (smoking, healthcare utilization, triggers including work-related, co-morbidities)
- Smoking cessation - if applicable (assess first, second and third-hand exposure)
- Family history of allergies and asthma
- Pathophysiology
- Environmental control
- Medications (what they are, proper inhaler technique, adherence, medication access)
- Importance of immunizations (influenza and pneumococcal)
- Social determinants of health (other addictions, access to care, cultural considerations, literacy)
- Address co-morbidities and referrals to other team staff or community programs as necessary)
- Consider referral to specialists if necessary
- Develop a written asthma action plan
- Determine next follow-up appointment (frequency depends on client needs but follow-up recommended every 3-4 months for preschoolers)

COPD follow-up (60 minutes) - use the COPD care map and algorithm to guide you

- Pre and Post Spirometry (if clinically indicated)
- Reviewing patient goals
- Follow-up assessment (symptom assessment, MRC, CAT score, health care utilization and exacerbations)
- Smoking cessation (if applicable)
- Medication and guideline review (CTS, GOLD)
- Education components: nutrition, travel, sleep and sex, breathing techniques chest clearance techniques, relaxation techniques, energy conservation, exercise, medication and inhaler technique, flare-ups/exacerbations
- Activities of daily living skills, coping skills
- Address co-morbidities and referrals to other team staff or community programs as necessary (pulmonary rehabilitation)
- If applicable: oxygen therapies, advanced directives/end-of-life care, invasive and non-invasive ventilation
- Importance of immunizations (Influenza, pneumococcal)
- Review or revise COPD action plan
- Consider referral to specialists if necessary
- Determine next follow-up appointment (frequency depends on client needs)

Asthma follow-up (60 minutes)- use the asthma care map and algorithm to guide you

- Pre Spirometry (Post if indicated) - follow-up to assess relation to baseline (level of control)
- Review patient goals
- Follow-up assessment (review control, health care utilization and exacerbations)
- Smoking cessation - if applicable (assess first, second and third-hand exposure)
- Medication and guideline review (CTS)
- Education components: symptom control, trigger and environmental management, medication and inhaler technique, importance of activity and exercise, coping skills, flare-ups/exacerbations
- Adherence to medications (social determinants of health)
- Address co-morbidities and referrals to other team staff or community programs as necessary
- Importance of immunizations (Influenza, pneumococcal)
- Review written action plan and revise as necessary
- Consider referral to specialists if necessary
- Determine next follow-up appointment (frequency depends on client needs but follow-up recommended every 3-4 months for preschoolers)

Section 3: Educator Tools

PRIMARY CARE ASTHMA PROGRAM – EDUCATOR PRACTICE SELF-ASSESSMENT (ASTHMA)

The following tool is intended to be used by the Certified Respiratory Educator (CRE) as a self-reflective practice assessment or by a peer educator for the purpose of peer assessment for inclusion in the educator's professional portfolio. There are three components of this tool: 1. Educator's knowledge of asthma, 2. Educator's knowledge of COPD and 3. Educator's skills. This tool is not intended for rapid assessment and may require more than one session. This tool should be used to evaluate the educator's skills and abilities and be used for quality improvement. Please continue to refer to the latest CNRC learning objectives (www.cnrchome.net)

Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's Knowledge and ability to teach asthma	Application of the latest CTS guidelines to supplement history with spirometry for diagnosis			
	Asthma pathophysiology (hyper-responsiveness, inflammation, obstruction)			
	Asthma control/signs and symptoms			
	Triggers (allergens and irritants)			
	Asthma exacerbation/flare-up			
	Special considerations (Adherence to medications and strategies, pregnancy, premenstrual period, certain medications [e.g., NSAID and beta-blocker interaction])			
	Asthma action plan knowledge (knowing how to complete the actions for the green and yellow-zones)			
	Asthma action plan teaching (indications, components, peak flows)			
	Recognition of comorbidities as it relates to asthma (e.g., GERD, sinusitis, rhinitis, obesity)			

Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's Knowledge and ability to teach asthma	Asthma diary (indications, tracking symptoms/peak flows, triggers)			
	Medications (controller/reliever, indication (CTS), mechanism of action, side effects, dosages, inhaler device technique and financial coverage options)			
	Asthma considerations in school			
	Work-related asthma (Differentiate between Work-exacerbated asthma and Occupation asthma) – definitions, risk factors, recognition, triggers, diagnosis, treatment			
	Air quality and asthma (Air quality health index – AQHI)			
	Smoking cessation minimal intervention/counselling/knowledge of Nicotine Replacement Therapies (NRT) and other smoking cessation options			
	Availability of asthma resources that align with the patient's learning style (e.g., technology) and is evidence-based, current and accessible			
	Indication for when to refer to a specialist			

Learning Objectives:

PRIMARY CARE ASTHMA PROGRAM – EDUCATOR PRACTICE SELF-ASSESSMENT (COPD)

The following tool is intended to be used by the Certified Respiratory Educator (CRE) as a self-reflective practice assessment or by a peer educator for the purpose of peer assessment for inclusion in the educator's professional portfolio. There are three components of this tool: 1. Educator's knowledge of asthma, 2. Educator's knowledge of COPD and 3. Educator's skills. This tool is not intended for rapid assessment and may require more than one session. This tool should be used to evaluate the educator's skills and abilities and be used for quality improvement. Please continue to refer to the latest CNRC learning objectives (www.cnrchome.net)

Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's Knowledge and ability to teach COPD	Application of the latest CTS guidelines to supplement history with spirometry for diagnosis			
	Awareness of the Canadian Lung Health test			
	COPD pathophysiology (chronic bronchitis, emphysema)			
	COPD signs and symptoms			
	COPD exacerbation/flare-up (purulent vs. non-purulent)			
	Severity assessment (using spirometry values and MRC scale)			
	COPD action plan knowledge (knowing how to complete the actions for the green and yellow-zones)			
	COPD action plan teaching (indications, components, signs and symptoms to look for an exacerbation)			
	Knowledge of other tests (e.g., CBC to rule out polycythemia, ABG, AAT blood test, etc.)			
	Medications (controller/reliever, indication (CTS), mechanism of action, side effects, dosages, inhaler device technique and financial coverage options)			

Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's Knowledge and ability to teach COPD	Identification of risk factors			
	Client education on management strategies of dyspnea (e.g., energy conservation, various breathing techniques, etc.)			
	Air quality and COPD (Air quality health index – AQHI)			
	Smoking cessation minimal intervention/counselling/knowledge of Nicotine Replacement Therapies (NRT)			
	Awareness of patient resources on advanced care directives and end-of-life care when appropriate			
	Recommendation of pulmonary rehabilitation program when appropriate			
	Education on vaccinations (influenza and pneumococcal)			
	Recognition of patient's co-morbidities as it relates to COPD			
	Addresses sexuality and relevance to managing dyspnea (appropriate referral to other staff when necessary)			
	Understanding of the various delivery forms of long term oxygen			
	Awareness of the role of non-invasive and invasive mechanical ventilation			
	Knowledge of the surgical options for COPD			
	Indications for when to refer to a specialist			
	Availability of COPD resources that align with the patient's learning style (e.g., technology) and is evidence-based, current and accessible			

Learning Objectives:

PRIMARY CARE ASTHMA PROGRAM EDUCATOR PRACTICE SELF-ASSESSMENT (EDUCATION)

The following tool is intended to be used by the Certified Respiratory Educator (CRE) as a self-reflective practice assessment or by a peer educator for the purpose of peer assessment for inclusion in the educator's professional portfolio. There are three components of this tool: 1. Educator's knowledge of asthma, 2. Educator's knowledge of COPD and 3. Educator's skills. This tool is not intended for rapid assessment and may require more than one session. This tool should be used to evaluate the educator's skills and abilities and be used for quality improvement. Please continue to refer to the latest CNRC learning objectives (www.cnrchome.net)

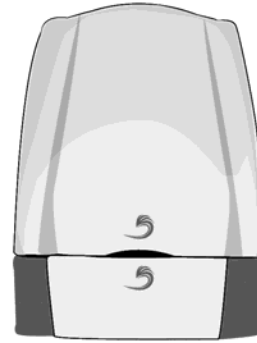
Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's skills in teaching	Interaction with patients in an ethical manner (beneficence, non-maleficence, autonomy, justice, confidentiality, and respect for value of others)			
	Interpersonal skills – greets, active listening, provide empathy and support			
	Information gathering skills – open vs. close-ended questions, uses silence, clarifies patient expectations, sequencing events, and summarizes information			
	Information giving skills – puts important things first, clear and simple information, repetition, problem solving skills, categorizes information			
	Conflict resolution and negotiation – reflects internally, organizes the meeting, starts on a positive note, and facilitates the heart of the meeting			
	Skills for motivating patient adherence – provides rationale for change, sets realistic and short term objectives, seeks mutual agreement, allows opportunity for rehearsal of plan, feedback, tailors the plan to the patient's lifestyle			
	Appropriate eye contact, facial expressions, proximity, handshake, posture, gesture, silence and personal mannerisms			
	Assessment patient's stage of change: pre-contemplation-contemplation-preparation-action-maintenance			

Educator Principles	Competencies	Needs Improvement	Meets competency	Comments
Educator's skills in teaching	Integration of Motivation Interviewing (MI) skills in practice			
	Identification predisposing, enabling and reinforcing factors			
	Ability to maintain objectivity			
	Provision of appropriate learning environment			
	Collaboration with the patient to assess characteristics and needs relevant to learning (health literacy, determinants of health, motivation and readiness to learn, etc.)			
	Engagement of the patient to practice mastery and promote self-efficacy			
	Linkage of the patient's new learning to existing knowledge			
	Collaboration with the client to determine health goals that are SMART (specific, measurable, achievable, relevant and time-bound)			
	Integration theoretical frameworks of health promotion and care into practice (expanded chronic care model, PRECEDE/PROCEED model, social support)			
	Selection of an instructional method (e.g., questioning, role play, gaming) based on assessment results			
	Application of technology to benefit patient's learning			
	Inter-professional and inter-sectoral collaboration			
	Consideration and application of social determinants of health when teaching (cultural issues, financial barriers, lack of support, language barrier, etc.)			

Learning Objectives:

Medications available:

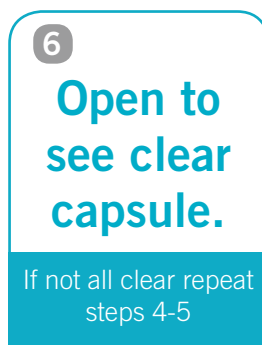
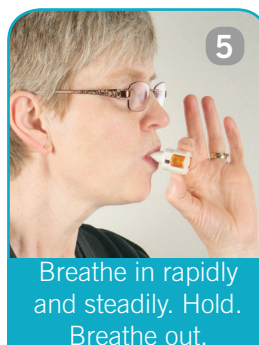
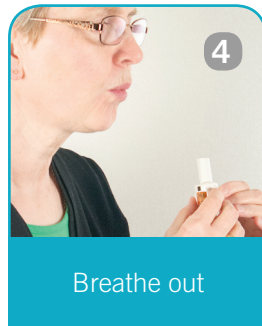
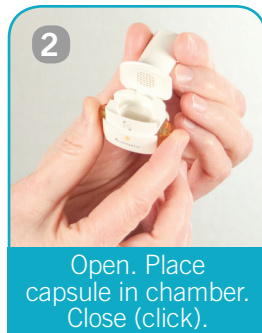
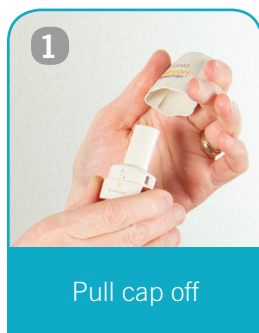
- **Onbrez[®]** (indacaterol maleate)
- **Seebri[®]** (glycopyrronium bromide)
- **Ultibro[®]** (glycopyrronium bromide/
(indacaterol maleate)



BREEZHALER[®]

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Pull cap off				
2. Tilt mouthpiece to open inhaler				
3. Place capsule in chamber				
4. Close inhaler until you hear a “click”				
5. Press both buttons ONCE & release				
6. Breathe out away from mouthpiece				
7. Place mouthpiece between lips				
8. Breathe in rapidly but steadily				
9. Hold breath for 5-10 seconds				
10. Breathe out				
11. Open to see clear capsule. If not all clear, repeat steps 6-10				
12. Discard empty capsule				
13. Wash hands				
14. Rinse mouth (if using an inhaled steroid)				



How do I use my Breezhaler®?

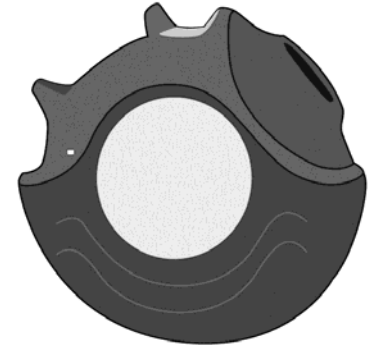
1. Pull cap off.
2. Hold base of inhaler and tilt mouthpiece to open inhaler. Place capsule in centre chamber. Close inhaler until you hear a “click”.
3. Hold Breezhaler® upright and press both buttons ONCE and release.
4. Breathe out fully away from the mouthpiece
5. Place mouthpiece between lips and breathe in **rapidly** but **steadily** (whirring sound should be heard). Hold breath for 5-10 seconds. Breathe out.
6. Open to see clear capsule. If not all clear, repeat steps 4-5.
7. Discard empty capsule. Close Breezhaler®. Wash hands.

Care of my Breezhaler®

1. Wipe the mouthpiece with a dry cloth or tissue.
2. Never wash the Breezhaler®.

Medications available:

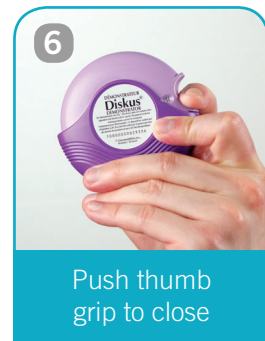
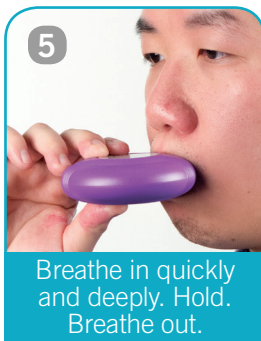
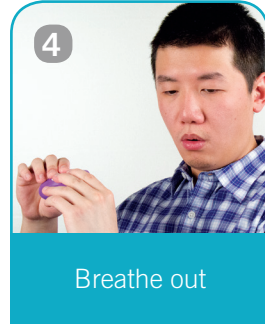
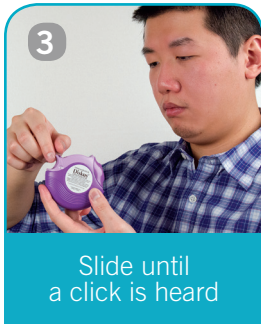
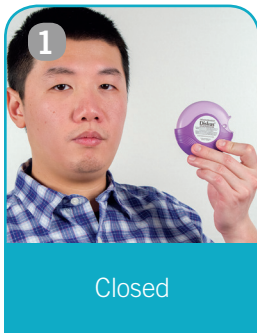
- **Advair**[®] (fluticasone/salmeterol)
- **Flovent**[®] (fluticasone propionate)
- **Serevent**[®] (salmeterol xinafoate)
- **Ventolin**[®] (salbutamol sulphate)



DISKUS[®]

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date & Initial	Date & Initial	Date & Initial	Date & Initial	Date & Initial
1. Check the dose counter					
2. Push the thumb grip open					
3. Slide the lever until a “click” is heard					
4. Breathe out away from mouthpiece					
5. Place mouthpiece between lips					
6. Breathe in quickly and deeply					
7. Hold breath for 5 - 10 seconds					
8. Breathe out					
9. Push thumb grip to close the Diskus					



How do I use my Diskus®?

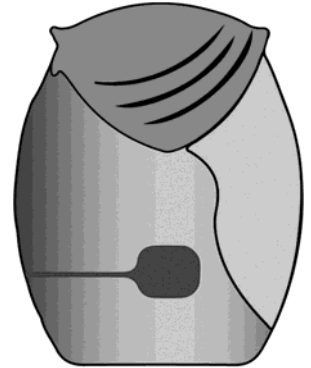
1. Closed.
2. To open: hold the outer case in one hand and put the thumb of the other hand on the thumb grip. Push the thumb as far as it will go until a click is heard.
3. Slide the lever as far as it will go until a click is heard.
4. Hold the Diskus® inhaler away from the mouth in a horizontal position and breathe out.
5. With the mouthpiece to the lips, breathe in **quickly** and **deeply**. Remove the Diskus® inhaler. Hold your breath for up to 10 seconds, then breathe out slowly.
6. Close: push the thumb grip as far as it will go until it snaps shut.

Care of a Diskus®

1. Wipe mouth piece with a dry tissue or cloth.
2. Store the device in a dry place, not in a damp environment i.e. bathroom.
3. Diskus® is to be closed when not in use; only slide open when ready to take dose.
4. Diskus® is to be kept away from direct frost, heat or sunlight and from high temperatures (above 30°C).
5. Check the number in the dose window counter to see how many doses are left. The indicator in the window will turn red when there are 5 doses left in the inhaler.

Medications available:

- **Anoro™** (umeclidinium bromide/vilanterol trifenate)
- **Arnuity™** (fluticasone furoate)
- **Breo™** (fluticasone furoate/vilanterol trifenate)
- **Incruse™** (umeclidinium bromide)



ELLIPTA®

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date & Initial	Date & Initial	Date & Initial	Date & Initial	Date & Initial
1. Check the dose counter					
2. Open cover of inhaler					
3. Breathe out away from the mouthpiece					
4. Place mouthpiece between lips					
5. Breathe in a long, steady and deep breath					
6. Remove inhaler and hold breath for 5-10 seconds					
7. Breathe out					
8. Close the inhaler					
9. Rinse mouth (if using an inhaled steroid)					



Closed



Open the cover



Breathe out away from the mouthpiece



Breathe in long, steady, and deep



Hold breath.
Breathe out.



Close the inhaler

How do I use my Ellipta™?

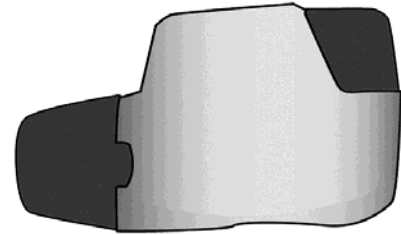
1. Closed.
2. Open the cover of the inhaler. Slide the cover down to expose the mouthpiece. You should hear a “click”.
3. Breathe out away from the mouthpiece.
4. Put the mouthpiece between lips, and close lips firmly around it. Breathe in a **long, steady,** and **deep** breath (do not block air vent on inhaler with hands).
5. Remove inhaler from mouth and hold breath 5-10 seconds or as long as comfortable. Breathe out.
6. Close the inhaler (slide cover up and over the mouthpiece). Rinse mouth.

Care of an Ellipta™

1. The Ellipta™ comes in a foil tray. When ready to use, peel back the lid to open the tray.
2. The tray contains a desiccant to reduce moisture. Throw it away.
3. WRITE the “Tray Opened” and “Discard” dates ON the inhaler. The “Discard” date is 6 WEEKS from the date the tray is opened.
4. The mouthpiece may be cleaned after use, if needed, using a dry tissue before the cover is closed. Routine cleaning is not required.
5. When there are less than 10 doses remaining in the inhaler, the left half of the counter shows RED. This is a reminder to get a refill. After the last dose has been inhaled, the counter will show “0” and be empty. Discard the empty inhaler.

Medications available:

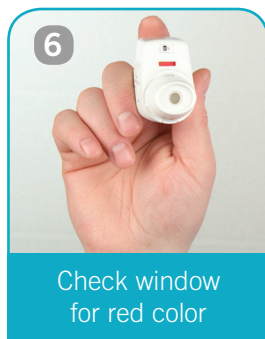
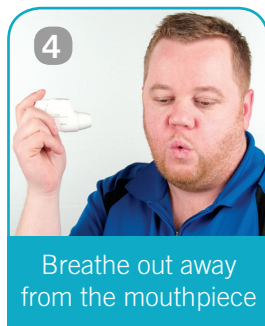
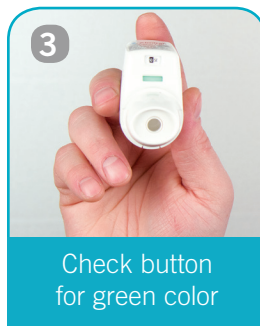
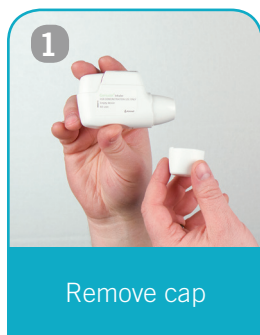
- **Duaklir™** (formoterol fumarate dehydrate/ acclidinium bromide)
- **Tudorza™** (aclidinium bromide)



GENUAIR®

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check the dose counter				
2. Remove cap				
3. Press green button ONCE and release				
4. Check color control window is green				
5. Breathe out away from mouthpiece				
6. Place mouthpiece between lips				
7. Breathe in strongly and deeply (keep breathing even after “click” is heard)				
8. Hold breath for 5 - 10 seconds				
9. Breathe out				
10. Check color control window is red (if not red, repeat steps 5-7).				
11. Replace cap				



How do I use my Genuair®?

1. Remove the cap (lightly squeeze the arrows).
2. Press the green button all the way down ONCE and release.
3. Check that the color control window is green. Green means ready.
4. Breathe out away from the mouthpiece.
5. Place your lips around the mouthpiece. Breathe in **strongly** and **deeply** through the mouthpiece. Keep breathing in even after you hear the inhaler “click”. Hold breath for 5-10 seconds. Breathe out.
6. Check that the color control window has turned to red.
7. If the window has not turned red repeat steps 4-6.
8. Replace cap.

Note: When a red band begins to appear in the dose counter this means you are nearing your last dose. The Genuair® locks after the last dose.

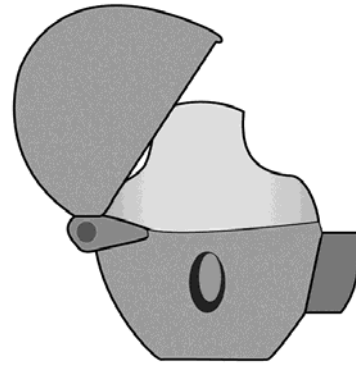
Care of a Genuair®

1. Wipe the mouthpiece with a dry tissue or cloth.

Medications available:

Medications available:

- **Spiriva®** (tiotropium bromide)

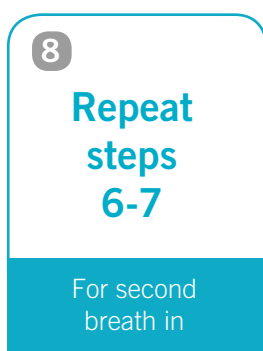
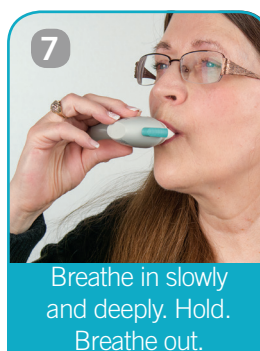
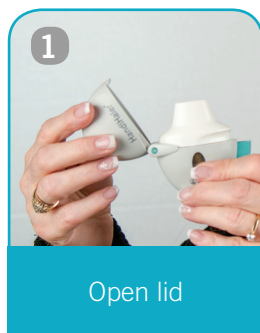


HANDIHALER®

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Open lid				
2. Open mouthpiece				
3. Place capsule in centre chamber				
4. Close mouthpiece until you hear it click				
5. Hold Handihaler® upright and press green button ONCE and release				
6. Breathe out away from mouthpiece				
7. Close lips around mouthpiece				
8. Breathe in slowly and deeply				
9. Hold breath for 5 – 10 seconds or as long as possible				
10. Breathe out				
11. Repeat: steps 6-10				
12. Open mouthpiece and empty the used capsule				
13. Close mouthpiece and lid				
14. Wash hands				

Handihaler®



For video instruction:
www.sk.lung.ca/devices

How do I use my HandiHaler®?

Fold and separate the two blister strips. Tear down the middle. Peel back foil on flat side, exposing only one capsule. Flip the blister strip over and let the capsule drop out. Remember: the capsules are sensitive to light and moisture.

1. Open lid by pulling upwards.
2. Open mouthpiece by pulling upwards.
3. Place one capsule in the capsule chamber right before use.
4. Close the mouthpiece firmly until you hear a click, leaving the lid open.
5. Hold the HandiHaler® with the mouthpiece upright and press the piercing button ONCE and release.
6. Breathe out away from the mouthpiece.
7. Close lips around mouthpiece. Breathe in **slowly** and **deeply** until lungs are full. Remove the HandiHaler® from your mouth while still holding your breath for a count of up to 10.
8. Repeat steps 6-7 for a second breath in.
9. Open the mouthpiece and tip the used capsule into the garbage. Close the mouthpiece and lid.
10. Wash Hands.

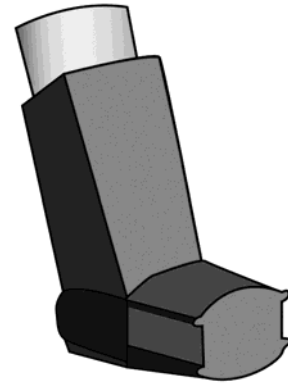
Care of a HandiHaler®

The HandiHaler needs to be cleaned once a month or as needed.

1. Open the lid and lift up the mouthpiece. Then lift up the piercing button to open the base.
2. Rinse the HandiHaler® with warm water to remove any powder. Do not use soap.
3. Dry the HandiHaler® completely by leaving the lid, mouthpiece & base open to air-dry.

Medications available (not inclusive):

- **Advair[®]** (fluticasone propionate/salmeterol xinafoate)
- **Airomir[™]** (salbutamol sulphate)
- **Alvesco[®]** (ciclesonide)
- **Atrovent[®]** (ipratropium bromide)
- **Flovent[®]** (fluticasone propionate)
- **Qvar[™]** (beclomethasone dipropionate)
- **Ventolin[®]** (salbutamol sulphate)
- **Zenhale[™]** (mometasone furoate/formoterol)



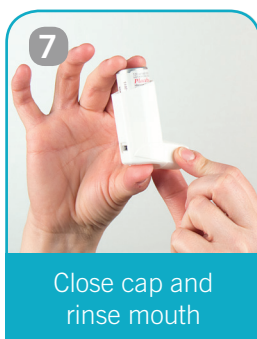
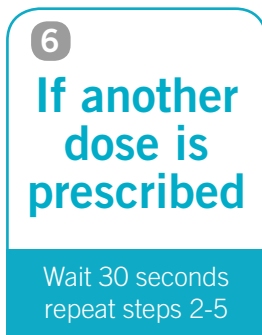
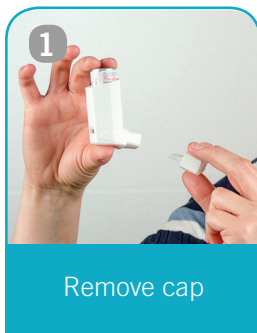
METERED-DOSE INHALER (MDI)

(Whenever possible use a holding chamber with the MDI)

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose counter (if available)				
2. Remove cap				
3. Shake inhaler				
4. Breathe normally and slowly				
5. Breathe out				
6. Place mouthpiece between lips				
7. Breathe in and depress canister ONCE				
8. Breathe in slowly and deeply breath				
9. Hold breath for 5-10 seconds or as long as possible				
10. Breathe out slowly				
11. Wait for 30 seconds if second dose is required. Repeat steps 2-9.				
12. Replace cap.				
13. Rinse mouth (if using an inhaled steroid)				

Metered-Dose Inhaler



How do I use my Metered-Dose Inhaler (MDI)?

1. Remove the cap from the inhaler.
2. Shake the inhaler.
3. Breathe out away from the inhaler.
4. Place the mouthpiece in your mouth between your teeth and close your mouth around it. Begin to breathe in slowly and press the top of the inhaler ONCE. Continue to breathe in slowly and deeply through the mouth until the breath is complete.
5. Hold your breath for 5-10 seconds and breathe out slowly.
6. If an additional inhalation is prescribed, wait 30 seconds before taking it, then repeat steps 2-5 for the prescribed number of inhalations.
7. Close the cap and rinse your mouth.

Note: using an inhaler without a spacer is not recommended.

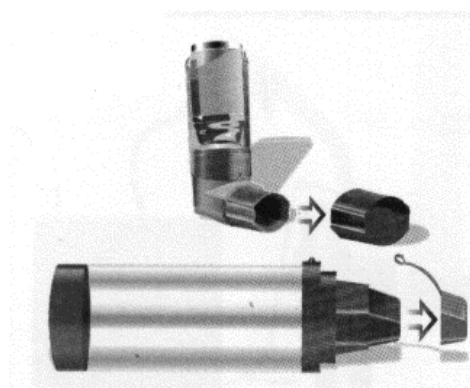
Note: Always check the instructions included with your MDI for directions on priming and proper use

Care of an MDI

1. Once a week, remove the medication canister from the plastic casing and wash the casing in warm, soapy water. Let the parts dry in the air. When the casing is dry, replace the medication canister in the casing and put the cap on the mouthpiece.
2. Ensure the hole is clear.

Medications available in an MDI (not inclusive):

- **Advair[®]** (fluticasone propionate/salmeterol xinafoate)
- **Airomir[™]** (salbutamol sulphate)
- **Alvesco[®]** (ciclesonide)
- **Atrovent[®]** (ipratropium bromide)
- **Flovent[®]** (fluticasone propionate)
- **Qvar[™]** (beclomethasone dipropionate)
- **Ventolin[®]** (salbutamol sulphate)
- **Zenhale[™]** (mometasone furoate/formoterol)



METERED-DOSE INHALER – MDI WITH SPACER

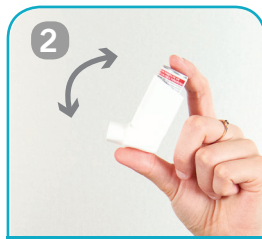
Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose counter on the inhaler (if available)				
2. Remove the caps				
3. Shake the inhaler				
4. Assemble the inhaler mouthpiece in the spacer				
5. Seal lips around the spacer device mouthpiece				
6. Breathe out				
7. Depress inhaler into spacer ONCE				
8. Breathe in slowly and deeply				
9. Hold breath for 5-10 seconds or as long as possible				
10. Breathe out				
11. Wait 30 seconds if second dose is required; repeat steps 3-10.				
12. Replace caps				
13. Rinse mouth (if using an inhaled steroid)				

Metered-Dose Inhaler with a Spacer Device



Remove cap



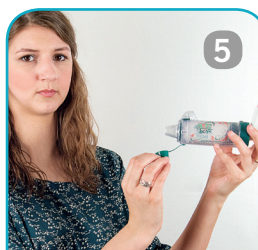
Shake inhaler



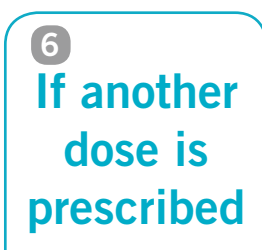
Remove spacer cap.
Insert inhaler
into spacer



Breathe out, press down
ONCE and complete slow
deep breath in.



Hold breath.
Breathe out.



**If another
dose is
prescribed**

Wait 30 seconds
repeat steps 2-5



Close cap and
rinse mouth

How do I use my Metered-Dose Inhaler (MDI) with a spacer device?

1. Remove the cap from the inhaler.
2. Shake the inhaler.
3. Remove the cap on the spacer and insert the mouthpiece of the inhaler into the opening at the end of the spacer.
4. Place the spacer mouthpiece in mouth between your teeth and close your lips around the mouthpiece, making sure there are no air leaks. Breathe out. Press down on the MDI canister **ONCE** to allow the medication to enter the spacer. Breathe in **slowly** and **deeply** for about 3-5 seconds.
5. After the inhalation, hold your breath for as long as possible, up to a count of ten and breathe out. Note: If you hear a whistle, you are breathing in too fast. Note: If you have trouble breathing deeply and holding your breath, breathe in and out more normally into the spacer 3 or 4 times.
6. If you need more than one dose, repeat steps 2-5 each time, waiting 30 seconds between inhalations.
7. Close the cap on the spacer and on the inhaler. Rinse your mouth.

Note: using an inhaler without a spacer is not recommended.

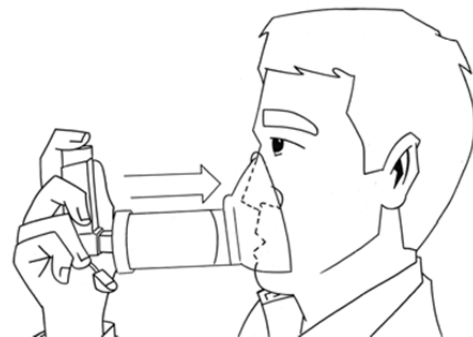
Note: Always check the instructions included with your inhaler for directions on priming and proper use.

Care of a Spacer

1. Clean the spacer about once a week. Immerse the spacer in warm, mildly soapy water and agitate.
2. Shake off excess water and leave to dry overnight.

Medications available in an MDI (not inclusive):

- **Advair**[®] (fluticasone propionate/salmeterol xinafoate)
- **Airomir**[™] (salbutamol sulphate)
- **Alvesco**[®] (ciclesonide)
- **Atrovent**[®] (ipratropium bromide)
- **Flovent**[®] (fluticasone propionate)
- **Qvar**[™] (beclomethasone dipropionate)
- **Ventolin**[®] (salbutamol sulphate)
- **Zenhale**[™] (mometasone furoate/formoterol)

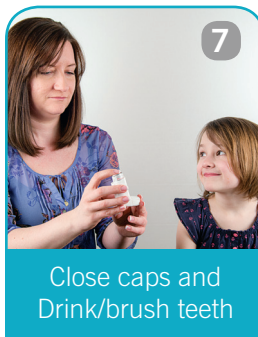
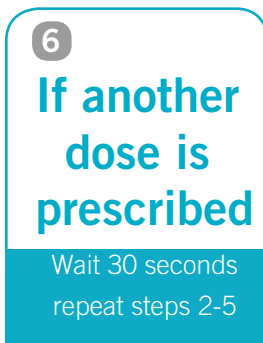
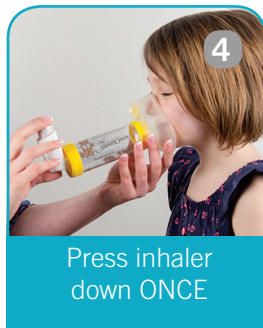
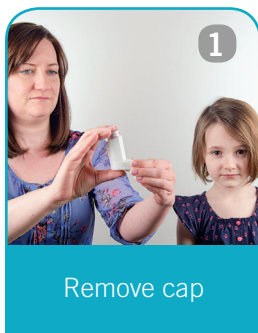


METERED-DOSE INHALER – MDI WITH SPACER AND MASK

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose counter on the inhaler (if available)				
2. Remove the inhaler cap				
3. Shake the inhaler				
4. Assemble the inhaler mouthpiece in the spacer				
5. Apply the mask to the face.				
6. Breathe out				
7. Depress inhaler ONCE				
8. Breathe in slowly and deeply				
9. Hold breath for 5-10 seconds or as long as possible; or if not possible breathe in and out ~5 times.				
10. Breathe out				
11. Wait 30 seconds if second dose is required; repeat steps 3-10.				
12. Replace inhaler cap				
13. Rinse mouth (if using an inhaled steroid)				
14. Wash face (if using an inhaled steroid)				

Metered-Dose Inhaler with Spacer and Mask



How do I use my Metered-Dose Inhaler (MDI) with a spacer and mask?

1. Remove the cap from the inhaler.
2. Shake the inhaler.
3. Insert the mouthpiece of the inhaler into the opening at the end of the spacer.
4. Apply the mask to face so there are no leaks between face and mask. The valve should open with breathing. Depress the canister ONCE to allow medication to enter the spacer.
5. Encourage a slow deep breath and hold for up to 10 seconds. If not possible (infants and young children) have them breathe normally into the device 5-6 times.
6. If you need more than one dose, repeat steps 2-5, waiting 30 seconds between inhalations.
7. Close caps and rinse your mouth/drink/or brush your teeth.

Note: using an inhaler without a spacer is not recommended.

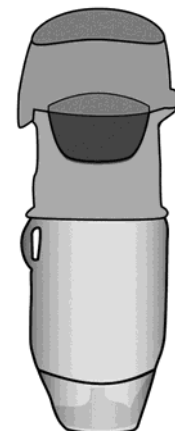
Note: Always check the instructions included with your inhaler for directions on priming and proper use.

Care of a Spacer

1. Clean the spacer about once a week. Immerse the spacer in warm, mildly soapy water and agitate.
2. Shake off excess water and leave to dry in the air overnight.

Medications available:

- **Combivent**[®] (salbutamol sulphate and ipratropium bromide)
- **Inspiralto**[™] (tiotropium bromide monohydrate/olodaterol hydrochloride)
- **Spiriva**[®] (tiotropium bromide monohydrate)



RESPIMAT[®]

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

Goal: Mastery of skills	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose indicator				
2. Hold the inhaler upright with cap closed				
3. Turn the base a half turn in the direction of black arrows until it “clicks”				
4. Open the cap until it snaps				
5. Breathe out slowly and fully				
6. Close lips around the mouthpiece				
7. Start breathing in and press the dose release button ONCE				
8. Breathe in slowly for as long as you can				
9. Hold breath for 5-10 seconds or as long as possible				
10. Breathe out				
11. Close the cap				

Can use acronym **TOP** to teach skill: **T**urn **O**pen and **P**ress



Hold inhaler upright



TURN base until it "clicks"



OPEN cap until it snaps fully open



Breathe out slowly and fully



While breathing slow and deep PRESS dose release button



Hold breath. Breathe out.



Close cap

How do I use my Respimat®?

1. Hold the inhaler upright with cap closed.
2. **TURN** the clear base in the direction of arrows on the label until it "clicks" (half turn).
3. Flip the cap **OPEN** until it snaps fully open.
4. Breathe out slowly and fully.
5. Put the mouthpiece between lips. Close lips around the mouthpiece without covering the air vents. Point the inhaler towards the back of throat. While taking a **slow, deep** breath, **PRESS** the dose release button and continue to breathe in slowly.
6. Remove inhaler from mouth and hold breath for 10 seconds or as long as you can. Breathe out.
7. Close the cap.

Note: The acronym **TOP** – Turn **O**pen **P**ress is a quick reference for device instruction.

Care of a Respimat®

1. All that is required to keep the inhaler clean is to wipe the mouthpiece inside and out once a week with a damp cloth. Any slight discoloration of the mouthpiece will not affect the performance of the inhaler.
2. Once assembled, the inhaler must NOT be taken apart.
3. Check the dose indicator to see approximately how many doses are left. When the pointer enters the red area of the scale a new prescription is needed. When the arrow reaches the end of the scale the inhaler locks automatically.

Respimat®



Two pieces



Remove clear base



Push cartridge into inhaler



Push firmly down on the inhaler



Put clear base back into place



Hold upright. **TURN** base until it “clicks”.



OPEN cap until it snaps fully open



Point down. **PRESS** dose release button.



**Repeat
steps
1-3**

3 more times

How do I use my Respimat®?

Assembly:

1. The Respimat® comes in two pieces. An inhaler, and a medication cartridge.
2. With cap closed, press safety catch to remove clear base of the inhaler.
3. Push the narrow end of the cartridge into the inhaler as far as it will go.
4. Place inhaler upright on a firm surface and push firmly down on inhaler to ensure cartridge has gone all the way in.
5. Put the clear base back into place.

Note: Once assembled, the inhaler must NOT be taken apart.

Priming:

1. Hold the inhaler upright with cap closed. **TURN** the base in the direction of the arrows on label until it “clicks” (half turn).
2. Flip the cap **OPEN** until it snaps fully open.
3. Point the inhaler towards the ground. **PRESS** the dose release button. A soft mist will appear. Close the cap.
4. Repeat steps 1-3, 3 more times to ensure inhaler is prepared for use.

- **Bricanyl[®]** (terbutaline sulphate)
- **Oxeze[®]** (formoterol fumarate)
- **Pulmicort[®]** (budesonide)
- **Symbicort[®]** (budesonide/formoterol fumarate)



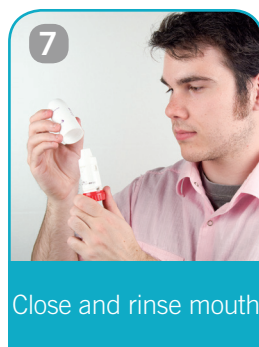
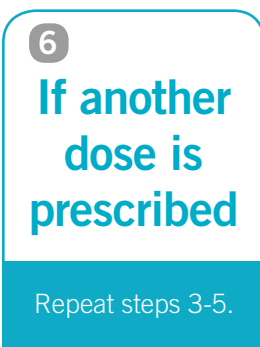
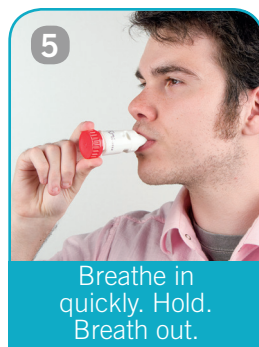
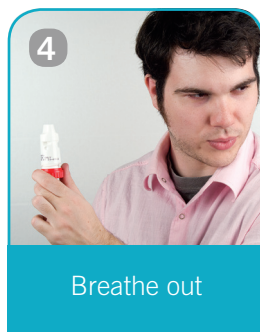
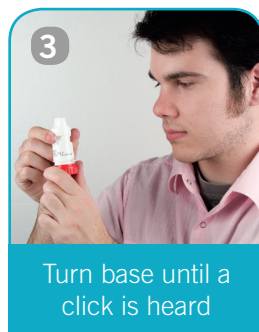
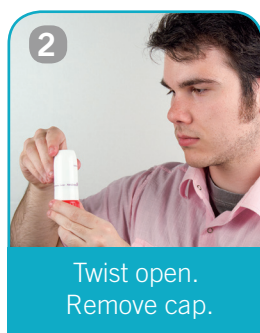
TURBUHALER[®]

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

Goal: Mastery of skills	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose counter				
2. Hold inhaler upright				
3. Twist and remove cap				
4. Turn the base until a click is heard				
5. Breathe out away from the mouthpiece				
6. Place mouthpiece between lips				
7. Breathe in quickly and deeply				
8. Breath hold for 5 - 10 seconds or as long as possible				
9. Breathe out				
10. Repeat steps 3-10 if second dose is required				
11. Twist to close cap.				
12. Rinse mouth (if using an inhaled steroid)				

- **Asmanex[®]** (mometasone furoate)
(remember to gargle and spit following use of an inhaled steroid)

Turbuhaler®



How do I use my Turbuhaler®?

1. Hold upright.
2. Hold the colored base and twist the cap counter-clockwise to remove cap.
3. Hold the colored base and turn as far as possible in one direction, then turn back until a “click” is heard. Note: Do not shake or blow into the device.
4. Breathe out away from the mouthpiece.
5. Bring the inhaler up to your mouth in a horizontal position. Place the mouthpiece between your teeth and close your lips around it. Breathe in **quickly** and **deeply** through the mouthpiece. Remove Turbuhaler® from mouth and hold breath for 5-10 seconds. Breathe out.
6. Repeat steps 3-5 for the prescribed number of inhalations.
7. Twist cap to close and rinse mouth.

Care of a Turbuhaler®

1. Clean mouthpiece using a dry tissue or cloth, gently wiping away any particles which have collected inside the mouthpiece.
Never wash the Turbuhaler®.
2. Check the number in the dose window to see how many doses are left.
3. Some Turbuhalers® may not have a window counter. When a red mark appears in the window underneath the mouthpiece, the Turbuhaler® has approximately 20 doses left. When the red mark reaches the bottom edge of the window the Turbuhaler® is empty.

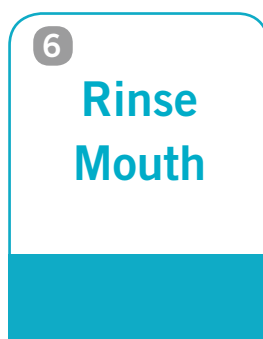
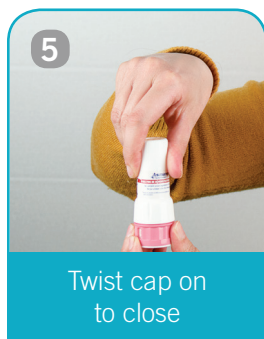
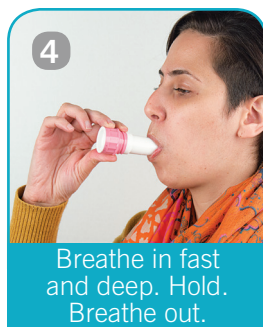
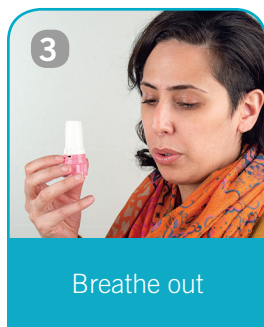
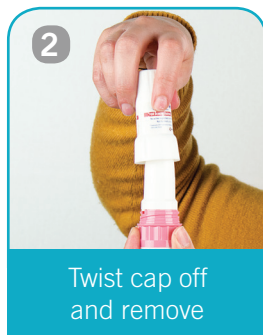
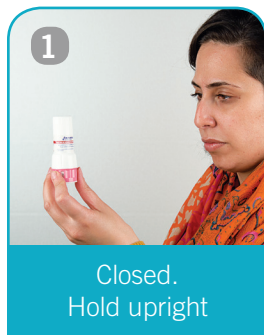
TWISTHALER®

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

Goal: Mastery of skills	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Check dose counter				
2. Hold inhaler upright.				
3. Twist and remove cap				
4. Breathe out				
5. Place mouthpiece between lips				
6. Breathe in fast and deep				
7. Hold breath for 5 – 10 seconds				
8. Breathe out				
9. Twist to close cap				
10. Rinse mouth (if using an inhaled steroid)				

Medications available (not inclusive):

- **Atrovent**® (ipratropium bromide)
- **Combivent**® (salbutamol sulphate/ipratropium bromide)
- **Pulmicort**® (budesonide)
- **Ventolin**® (salbutamol sulphate)



How do I use my Twisthaler®?

1. Hold the inhaler upright with the colored portion (or base) down.
2. Hold the colored base and twist the cap counter clockwise to remove it. As you lift off the cap, the dose counter on the base will count down by one.
3. Breathe out fully away from the mouthpiece.
4. Bring the inhaler up to your mouth in a horizontal position, close your lips around the mouthpiece and take in a **fast, deep** breath. Remove the inhaler from your mouth and hold your breath for up to 10 seconds, or for as long as is comfortable. Breathe out.
5. Replace the cap by twisting it clockwise while gently pressing the cap down until a click sound is heard. Firmly closing the inhaler right away after use loads the dose for your next inhalation.
6. Rinse your mouth.

Care of a Twisthaler®

1. Wipe the mouthpiece with a dry cloth or tissue.
2. Never wash the Twisthaler®.
3. When the dose counter reads "01", this indicates the last remaining dose. After "01", the counter will read "00" and the cap will lock. Discard the unit.

NEBULIZER

Please date and initial after you have directly observed the patient demonstrate the skill and if the patient has mastered each step. Instructions with diagrams are included on the back of this sheet.

GOAL: Mastery of skill	Date and Initial	Date and Initial	Date and Initial	Date and Initial
1. Attach tubing to air outlet.				
2. Unscrew the top of the medicine cup.				
3. Fill the cup with the medication dose.				
4. Screw on the top.				
5. Turn on the compressor				
6. Place either mask on face <i>or</i> mouthpiece in mouth.				
7. Attach nebulizer tubing to compressor				
8. Turn the compressor on				
9. Breathe in and out slowly through mouth.				
10. Complete treatment.				
11. Turn the compressor off.				
12. Rinse mouth (if using an inhaled steroid)				
13. Wash face (if using a mask with a steroid inhaler)				

How do I use my Nebulizer®?

1. Ensure nebulizer is plugged in & functioning.
2. Attach tubing to compressor air outlet.
3. Unscrew the top of the medicine cup.
4. Add the medication dose to the cup.
5. Screw on the top.
6. Turn on the compressor; ensure medication is misting.
7. Place either a mask on face or mouthpiece in mouth.
8. Complete the treatment.
9. Turn off the compressor.

Care of a Nebulizer®

1. Wash mask and nebulizer medication chamber in warm, soapy water.
2. Rinse well and allow them to air-dry before reuse.

For video instruction:
www.sk.lung.ca/devices

Primary Care Asthma Program

Space and Design Checklist

The following section has been developed for this Manual by the Standards Working Group. It outlines the overall design considerations, special requirements for all patients, considerations for the location, and room requirements.

Overall considerations for Delivering a Respiratory Program

The following design features should be considered in the planning of the Respiratory Education Centre in the primary care setting:

- ❑ Accessibility/wheelchair access/clinical setting
- ❑ Office/room well ventilated (window optional)
- ❑ Ergonomically designed environment
- ❑ Sufficient space for patient and family/care givers
- ❑ Access to Computer/phone/fax and or space to lock up/keep secure patient records
- ❑ Access to educational materials
- ❑ Efficient patient flow
- ❑ Flexibility for different activities
- ❑ Multidisciplinary environment (access to referral process)
- ❑ Safe learning environment for both staff and client

Section 4: Program Tools

■ N/A

Client Name (please print)

☐ N/A

This information was originally published in *CAN Resp*. [2015;22(3):135-143]

	N/A
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Page 1

Client Name <input style="width:250px;" type="text"/>		Jurisdictional Health Number <input style="width:200px;" type="text"/>																																																														
Family History of Lung Disease <input type="checkbox"/> N/A		Risk Factors for Exacerbations <input type="checkbox"/> N/A																																																														
Family History of Asthma, Allergy and/or COPD <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If yes select allergic conditions from a list and indicate which relative)		Risk Factors <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes select from a list below) Exposure to Second-Hand Smoke <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown																																																														
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Pack Years Cig Smoked/day <input style="width:40px;" type="text"/> / 20 x Years smoked <input style="width:40px;" type="text"/> = Pack years <input style="width:40px;" type="text"/> Passive Smoking Risk <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> e-cigarette/vaping <input type="checkbox"/> Cannabis use <input type="checkbox"/> Use of other tobacco <input type="checkbox"/> Inhalation vapor use <input type="checkbox"/> Other inhaled substances		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>Breathlessness</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Chest tightness</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Wheeze</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Cough</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Sputum</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Frequent colds</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>If yes frequency</td><td><input type="checkbox"/> 0-3/year <input type="checkbox"/> 4-7/year <input type="checkbox"/> ≥8/year</td><td></td></tr> <tr><td>Colds that last longer than 7 days</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Symptoms worse at morning(including cough)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Symptoms worse at night(including cough)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Chest pain</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>			Yes	No	Breathlessness	<input type="checkbox"/>	<input type="checkbox"/>	Chest tightness	<input type="checkbox"/>	<input type="checkbox"/>	Wheeze	<input type="checkbox"/>	<input type="checkbox"/>	Cough	<input type="checkbox"/>	<input type="checkbox"/>	Sputum	<input type="checkbox"/>	<input type="checkbox"/>	Frequent colds	<input type="checkbox"/>	<input type="checkbox"/>	If yes frequency	<input type="checkbox"/> 0-3/year <input type="checkbox"/> 4-7/year <input type="checkbox"/> ≥8/year		Colds that last longer than 7 days	<input type="checkbox"/>	<input type="checkbox"/>	Symptoms worse at morning(including cough)	<input type="checkbox"/>	<input type="checkbox"/>	Symptoms worse at night(including cough)	<input type="checkbox"/>	<input type="checkbox"/>	Chest pain	<input type="checkbox"/>	<input type="checkbox"/>																									
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Sputum	<input type="checkbox"/>	<input type="checkbox"/>																																																														
Frequent colds	<input type="checkbox"/>	<input type="checkbox"/>																																																														
If yes frequency	<input type="checkbox"/> 0-3/year <input type="checkbox"/> 4-7/year <input type="checkbox"/> ≥8/year																																																															
Colds that last longer than 7 days	<input type="checkbox"/>	<input type="checkbox"/>																																																														
Symptoms worse at morning(including cough)	<input type="checkbox"/>	<input type="checkbox"/>																																																														
Symptoms worse at night(including cough)	<input type="checkbox"/>	<input type="checkbox"/>																																																														
Chest pain	<input type="checkbox"/>	<input type="checkbox"/>																																																														
Stages of Change Addressed <input type="checkbox"/> pre-contemplation <input type="checkbox"/> contemplation <input type="checkbox"/> preparation <input type="checkbox"/> action <input type="checkbox"/> maintenance Smoking Cessation Addressed <input type="checkbox"/> Ask <input type="checkbox"/> Advise <input type="checkbox"/> Arrange		Smoking Cessation Quit Intentions Are you planning to quit smoking? <input type="checkbox"/> within a month <input type="checkbox"/> within 6 months <input type="checkbox"/> beyond 6 months <input type="checkbox"/> not planning to quit																																																														
Asthma Severity <input type="checkbox"/> N/A		Barriers <input type="checkbox"/> N/A																																																														
Visit(s) to family physician in the last 12 months for asthma symptoms If Yes, indicate the number of primary care visits for asthma in the last 12 months Routine primary care visits <input style="width:40px;" type="text"/> Urgent primary care visits <input style="width:40px;" type="text"/>		Barriers <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes select from the list below)																																																														
Visit(s) to a specialist for asthma <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th>Unknown</th> <th>Last 12 Months</th> </tr> </thead> <tbody> <tr><td>Respirologist</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>General Internist</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Allergist</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pediatrician</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>			Yes	No	Unknown	Last 12 Months	Respirologist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General Internist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Allergist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pediatrician	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>Adherence</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Cultural issue</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Effect of substances abuse</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Financial issue</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Lack of private drug plan</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Language</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Literacy</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Medication side effects</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pregnancy</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Social/Family issues</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other <input style="width:100px;" type="text"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>			Yes	No	Adherence	<input type="checkbox"/>	<input type="checkbox"/>	Cultural issue	<input type="checkbox"/>	<input type="checkbox"/>	Effect of substances abuse	<input type="checkbox"/>	<input type="checkbox"/>	Financial issue	<input type="checkbox"/>	<input type="checkbox"/>	Lack of private drug plan	<input type="checkbox"/>	<input type="checkbox"/>	Language	<input type="checkbox"/>	<input type="checkbox"/>	Literacy	<input type="checkbox"/>	<input type="checkbox"/>	Medication side effects	<input type="checkbox"/>	<input type="checkbox"/>	Pregnancy	<input type="checkbox"/>	<input type="checkbox"/>	Social/Family issues	<input type="checkbox"/>	<input type="checkbox"/>	Other <input style="width:100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
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ED visits ever for asthma <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Recent < 1yr <input type="checkbox"/> Total # ever <input style="width:40px;" type="text"/> Hospitalized ever for asthma <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Recent < 1yr <input type="checkbox"/> Total # ever <input style="width:40px;" type="text"/> Near fatal asthma episode (coma/intubated/icu/CO2) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Recent < 1yr <input type="checkbox"/> Total # ever <input style="width:40px;" type="text"/> Recent best FEV ₁ or PEF < 60% predicted <input style="width:40px;" type="text"/> # <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown # ICU admissions <input style="width:40px;" type="text"/> # intubations <input style="width:40px;" type="text"/> ICU admissions in the last 12 months <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Date last used <input style="width:40px;" type="text"/> Total # ever <input style="width:40px;" type="text"/> Systemic steroid use ever <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Date last used <input style="width:40px;" type="text"/> Total # ever <input style="width:40px;" type="text"/>		Breath Sounds <input type="checkbox"/> N/A <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal If abnormal, select auscultatory finding <input type="checkbox"/> Wheezes <input type="checkbox"/> Crackles <input type="checkbox"/> Reduced <input type="checkbox"/> Bronchial (harsh and prolonged inspiration and expiration) Additional Notes <input style="width:250px;" type="text"/>																																																														

Client Name <input style="width: 90%;" type="text"/>	Jurisdictional Health Number <input style="width: 90%;" type="text"/>
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Allergy History <input style="float: right;" type="checkbox"/> N/A	Triggers and Exposures <input style="float: right;" type="checkbox"/> N/A																																																																																																																																																						
<div style="margin-bottom: 10px;"> Allergic Condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <small>If yes, select from the list of possible allergic conditions (Self/Parent report)</small> </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">Unknown</th> </tr> <tr><td>Anaphylaxis</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Bronchospasm</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Conjunctivitis</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: 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Ragweed	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																					
Respiratory Infections	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																					
Second hand smoke	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																					
Trees	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																					
Other <input style="width: 80px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																					

Occupational History <input style="float: right;" type="checkbox"/> N/A
<p>Current Employment Status: Check all the apply. <i>Note - This includes self-employment and working from home:</i></p> <p> <input type="checkbox"/> Full-Time <input type="checkbox"/> Part-Time <input type="checkbox"/> Shift work <input type="checkbox"/> Retired <input type="checkbox"/> Modified duties <input type="checkbox"/> Off work due to respiratory health <input type="checkbox"/> Other <input style="width: 150px;" type="text"/> </p> <p>Current Employment <input style="width: 150px;" type="text"/></p> <p>Did your Asthma symptoms start at work? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Do/ did your Asthma symptoms worsen at work? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><small>If the response options are YES consider completing the WRASQ(L) questionnaire</small></p> <p>Complete WRASQ(L)© today? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

Environmental Controls <input style="float: right;" type="checkbox"/> N/A																																																																																								
<p>Environmental Control Measures in Place <input type="checkbox"/> Yes <input type="checkbox"/> No <small>(If Yes, Select patient-reported, control measures in place. Optional: repeat questions for individuals with a secondary home.)</small></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">Suggested</th> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">Suggested</th> </tr> <tr> <td style="padding: 5px;">Air conditioning in summer</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">Humidifier in winter (desired target < 50%)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 5px;">Central or hepa-filter 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Client Name

Jurisdictional Health Number

Comorbidities

N/A

Comorbid Conditions

☐ Yes
☐ No

(If yes select relevant asthma comorbid diagnosis from a list)

	Yes	No	Unknown		Yes	No	Unknown
A-1 Antitrypsin deficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Glaucoma/Cataracts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adenoid hypertrophy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Immune deficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allergic bronchoplumunary aspergillosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dysfunctional breathing (Laryngeal Dysfunction and/or Hyperventilation Syndrome)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allergic rhinoconjunctivitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anaphylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Osteopenia/ Osteoporosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASA sensitivity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Panic disorders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cancer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Respiratory failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rhinitis/ Nasal polyposis/ Sinusitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cor Pulmonale/ heart failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sleep apnea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cerebrovascular accident (CVA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Swallowing dysfunction/Dysphagia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eczema/ Hives/ Urticaria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other cardiovascular disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eosinophilia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Eosinophilic granulomatosis with polyangiitis (EGPA) (Churg-Strauss Syndrome)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gastroesophageal reflux disease (GERD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Asthma Control

N/A

Pulmonary Function Test

N/A

(Note time interval for capturing asthma control data is the last four weeks)

Daytime Symptoms
(Average number of day/week in the last 4 weeks with dyspnea, cough, wheeze and/or chest tightness)

of Days/Week

Control= ≤ 4 (control ≤ 2 for preschoolers 1-5 years if age)

Nighttime Symptoms
(Average number of night/weeks in the last 4 weeks with dyspnea, cough, wheeze and/or chest tightness)

of Nights/Week

Control= ≤ 1

Physical activity limited
(Due to asthma in the last 4 weeks)

☐ Yes
☐ No

Exacerbations since last visit
(Hospital admission, ED visit, Walk-in-Clinic)

☐ Yes
☐ No

of Exacerbations

Dates of Exacerbations
(Hospital admission, ED visit, Walk-in-Clinic)

YYYY/MM/DD

YYYY/MM/DD

School/Work/Social activity absences due to asthma
(Average number of days/week in the last 4 weeks)

☐ Yes
☐ No

of Days/Week

Needs Reliever
(Average number of day/week in the last 4 weeks)

of Doses/Week

Control= ≤ 4

Sputum Eosinophils
(Measured Yes/No: if yes, %)

☐ Yes
☐ No

%

Control= ≤ 2 -3%

FEV₁ or PEF $\geq 90\%$ predicted or personal best

☐ Yes
☐ No

PEF diurnal variation $<15\%$ over a 2 week period

☐ Yes
☐ No

Asthma Controlled

☐ Yes
☐ No

Based on control criteria from the Canadian Thoracic Society 2012 Asthma Guidelines and 2017 Position Paper.

Any ONE element NOT in control- OVERALL NOT in control.

Spirometry	LLN	PRE	POST
	Actual	Actual	% Pred
FEV ₁	L/Min	L/Min	%
FVC	L/Min	L/Min	%
PEF	L/Min	L/Min	%
FEV ₁ / FVC			
Peak Flow Meter	Actual		
Predicted PEF	L/Min		
Personal Best PEF	L/Min		
Actual PEF	L/Min		
PEF % pred	% pred		
PEF % Personal Best	% PB		
Methacholine	Actual		
PC ₂₀ or PD ₂₀	mg/mL or mcg		

Additional Notes

Asthma Action Plan

N/A

	Yes	No
Written asthma action plan provided	<input type="checkbox"/>	<input type="checkbox"/>
Written asthma action plan revised	<input type="checkbox"/>	<input type="checkbox"/>
Asthma action plan reviewed & not changed	<input type="checkbox"/>	<input type="checkbox"/>
Yellow or red zone of action plan followed, since last vist	<input type="checkbox"/>	<input type="checkbox"/>

of Times

Asthma Control Zone

N/A

(Provider assessment based upon prior Asthma Control parameter responses)

If Asthma controlled option answer is Green

☐ Green

If Asthma uncontrolled option is yellow or red

☐ Yellow ☐ Red

Client Name <input style="width: 250px;" type="text"/>		Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																																									
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Please see appendix for abbreviations listed in this algorithm

Asthma Diagnosis and Management Algorithm for Primary Care

Patient Presents with Asthma Symptoms

(cough, dyspnea, chest tightness, wheezing, sputum production, nocturnal symptoms/awakenings)

Objectively Confirm Diagnosis: 2012 Asthma Guidelines and 2015 Preschool asthma guidelines: <http://www.respiratoryguidelines.ca/>

Preschoolers - Children 1-5 yrs of age (Spirometry not possible) (2)*
Diagnosis of asthma considered in children one to five years with frequent (≥8 days/month) asthma-like symptoms or recurrent (≥2) exacerbations showing all of the following:

1. Airflow Obstruction:
A) Wheezing documented by a trained HCP using stethoscope (preferred)
B) Parents report 'wheezing' (alternative)

2. Reversibility of airflow obstruction
A) documented response to SABA (+/- oral steroids) by a trained physician or HCP during acute exacerbation (preferred)
B) Parental report of symptomatic response to a 3 month therapeutic trial of medium dose ICS with SABA as needed (alternative)

3. No clinical suspicion of alternate diagnosis

Children ≥ 6 yrs to 11yrs:
1. Preferred: Spirometry showing reversible airway obstruction:
• FEV₁/FVC ratio < LLN (approx. < 0.80-0.90) based on age, sex, height and ethnicity
• And ≥12% change in FEV₁ post bronchodilator or after course of controller therapy
2. Alternative: Improvement in PEF:** ≥20% post bronchodilator or after course of controller therapy (diurnal variation not recommended)
3. Alternative: Positive Challenge Test (if spirometry inconclusive): Methacholine challenge testing or Exercise challenge

Adults (≥ 12 yrs):

1. Preferred: Spirometry showing reversible airway obstruction:
• FEV₁/FVC ratio < LLN (approx. < 0.75-0.80) based on age, sex, height and ethnicity
• And ≥12% and min ≥200 mL change in FEV₁ post bronchodilator or after course of controller therapy

2. Alternative: Improvement in PEF:** 60L/min (min ≥20%) (post bronchodilator or after course of controller therapy) or diurnal variation >8% (based on 2 times/day reading), >20% (based on multiple daily readings)

3. Alternative: Positive Challenge Test (if spirometry inconclusive): Methacholine challenge testing or Exercise challenge

Asthma Not Confirmed

Consider

- Was testing done when patient was not exposed to any triggers or asymptomatic? (If yes, consider repeat testing when patient exposed/symptomatic or consider methacholine and/or exercise challenge test) or allergy testing
- Differential diagnosis: examples include COPD, CF, IPF, VCD, GERD, CHF, primary ciliary dyskinesia, infectious/allergic rhinosinusitis, upper airway narrowing, bronchiectasis, pertussis, foreign-body inhalation, aspiration, pneumonia, atelectasis, tuberculosis, eosinophilic esophagitis, immune dysfunction, swallowing problem, pulmonary edema (2)

Asthma Confirmed

Patient Assessment

Discuss:

- History of exacerbations
- Family history of asthma/allergies
- Smoking history (and exposure to smoke)
- Respiratory medication history (check for β-blocker, NSAID/ASA use, medic alert bracelet, epinephrine auto injector) and client's drug plan
- History of triggers (skin testing may be indicated)
- irritant triggers (especially colds in children)
- Relevant co-morbidities (i.e., sinusitis, rhinitis, GERD, obesity)
- Work-related triggers
- Special considerations (i.e., adherence, cultural issues, financial issues, lack of support)

Management

Pharmacological (Baseline Maintenance Therapy):

Based on the CTS 2012 Asthma Management continuum (3) and the CTS 2015 Asthma guideline for pre-schoolers (2), to determine medication needed to achieve control (baseline maintenance therapy)

Adjust therapy to achieve and maintain control and prevent future risk:

- All should be on a reliever on demand: SABA***
- Still Uncontrolled (refer to “Review Control” table):** Add regular controller therapy (ICSs are the first-line controller therapy for all ages)
- Still Uncontrolled:**
Children (1-5 yrs and 6-11yrs): increase low dose ICS to medium dose ICS
Adults and children ≥12 yrs : add LABA if on ICS (ideally in the same inhaler device)
- Still Uncontrolled:**
Children (1-5 yrs): referral to asthma specialist
Children (6-11yrs): add LABA or LTRA
Adults and children ≥12 yrs : Add LTRA
- Still Uncontrolled:**
Refer to specialist, consider adding prednisone

Pharmacological (Asthma Exacerbation):

CTS 2012 recommended controller step-up therapy when patient has acute loss of control on their baseline maintenance therapy (yellow zone of **ASTHMA ACTION PLAN)**

Children (1-5 yrs and 6-11yrs) Step-up

If the patient has no baseline maintenance medication: consider starting regular controller therapy
If baseline maintenance medication is ICS: add prednisone 1mg/kg x 3-5 days

Adults (≥12 years) Step-up

If the patient has no baseline maintenance medication: consider starting regular controller therapy
If baseline maintenance medication is ICS: 1st choice: Trial ≥ 4-fold ↑ in ICS (dosing should not exceed manufacturer's recommended maximum daily dose) for 7-14 days. 2nd choice: Add prednisone 30-50mg for at least 5 days

If baseline maintenance medication is ICS/LABA (BUD/FORM): 1st choice: ↑ to max 4 puffs BID for 7-14 days (Max 8 puffs/day). 2nd choice: Add prednisone 30-50mg for at least 5 days

If baseline maintenance medication is ICS/LABA (FP/SALM or MOM/FORM):

1st choice: Trial ≥ 4-fold ↑ in ICS for 7-14 days. 2nd choice: Add prednisone 30-50mg for at least 5 days

Note: Post-exacerbation, diligent follow-up should be done to consider stepping down add-on therapy

Non-Pharmacological (Education)

- Refer to Certified Asthma/Respiratory Educator, if available
- Discuss asthma pathophysiology, triggers, comorbidities, inhaler technique, reliever vs. controller, medication safety and side effects, adherence, asthma control
- Smoking cessation counselling when appropriate
- Create and review written **ASTHMA ACTION PLAN** (instruction for when there is loss of control) Note: If, after reviewing control, it is determined that the patient is uncontrolled on their baseline maintenance therapy, they are in the yellow zone and the CTS 2012 recommended controller step-up therapy should be started
- Prevention of exacerbations: environmental control (i.e. work, home and school environment), tobacco smoke exposure, environmental triggers, irritant triggers, vaccination (influenza), immunotherapy

Review Control

(Reassess at each visit)*

Resources: [Asthma Action Plan \(hcp.lunghealth.ca/clinical-tools\)](http://hcp.lunghealth.ca/clinical-tools)

Control indicates all of the following criteria are met

Daytime symptoms (dyspnea, cough, wheeze, chest tightness): < 4 days/week	Need for a reliever: < 4 doses/week (pre-exercise doses should be included in weekly limit)
Night time symptoms: < 1 night/week	FEV ₁ or PEF: ≥ 90% of personal best
Physical activity: normal	Diurnal variability in PEF < 10%-15% over a 2 week period (readings morning and night)
Asthma exacerbations within the last 12 months: mild, infrequent	Formula = $\frac{\text{Highest PEF} - \text{Lowest PEF}}{\text{Highest PEF}} \times 100$
No absence from school/work due to asthma	Sputum eosinophils† < 2-3%

† Consider as an additional measure of asthma control in individuals ≥ 18 years with moderate to severe asthma who are assessed in specialized centres. *preschoolers with ≥8 days/month of asthma symptoms or ≥2 severe exacerbations should be considered poorly controlled and should have ICS therapy initiated

Consider Referral to a Specialist:

- Not certain of diagnosis
- Sputum eosinophil monitoring
- Difficulty in determining baseline medication regimen
- Severe asthma requiring alternate therapy
- Recent ER/hospital admission or recurring exacerbations (≥2 for preschoolers [2])

Follow-Up

- Regularly reassess control (every 3-4 months for preschoolers[2]), inhaler technique, adherence, triggers, comorbidities, spirometry or PEF****
- Review medication regime and consider modifying maintenance therapy (consider stepping down add-on therapy or decrease ICS dose if asthma is well-controlled between visits)
- Review/Revise written **ASTHMA ACTION PLAN**

***CTS guidelines for Preschoolers (2):** Please refer to latest CTS guidelines for detailed diagnosis algorithm for preschoolers

****Spirometry** is the preferred method of documenting airflow limitation (12)

*****ICS/LABA**, in a formulation approved for use as a reliever for 12 years of age and older (BUD/FORM), may be considered as a reliever in individuals with mod. asthma and poor control despite fixed-dose maintenance ICS/LABA combination or for exacerbation prone individuals with uncontrolled asthma despite high maintenance dose of ICS or ICS/LABA

****** Spirometry** is the preferred objective measure to help objectively assess asthma control (9).

Appendix:

Acronym:

BUD: Budesonide
COPD: Chronic Obstructive Pulmonary Disease
CF: Cystic Fibrosis
CHF: Congestive Heart Failure
ER: Emergency room
FORM: Formoterol
GERD: Gastroesophageal Reflux Disorder
HCP: Health care professional
ICS: Inhaled Corticosteroid
IPF: Idiopathic Pulmonary Fibrosis
LABA: Long-Acting Beta₂-Agonist
LTRA: Leukotriene-Receptor Antagonist

MOM: Mometasone

PEF: Peak Expiratory Flow

SABA: Short Acting Beta₂-Agonist

SALM: Salmeterol

VCD: Vocal Cord Dysfunction

Definitions:

FEV₁: volume of air expired in the first second of the FVC (used to assess flow resistive properties of airway)

FVC: Maximum volume of air that can be expired forcefully and completely after complete inspiration

FEV₁/FVC: used for the assessment of airflow obstruction

LLN (Lower Limit of Normal): the value below the 5th percentile for the normal population (8)

This document has been modified with permission by the Ontario Lung Association from the original version developed by Dr Itamar Tamari, Primary Care Asthma Program (PCAP)
The content of this algorithm is based on current available evidence and has been reviewed by medical experts. It is provided for information purposes only. It is not intended to be a substitute for sound clinical judgement.



Adult Asthma Action Plan (16yrs+)

NAME: _____ DATE: _____

Review your action plan with your healthcare provider at every visit.

EMERGENCY CONTACT: _____ PHONE: _____

PHYSICIAN NAME: _____ PHONE: _____

PERSONAL BEST PEAK FLOW _____ litres per minute.

The goal of asthma treatment is to live a healthy, active life. It is very important to remain on your maintenance medication, even if you are not having any asthma symptoms.

Go: Maintain Therapy

DESCRIPTION:

You have **ALL** of the following:

- Use your reliever **no more than** 3 times per week
- Cough, wheezing, shortness of breath or chest tightening **no more than** 3 days per week
- Can do physical activities and sports without difficulty
- Night asthma symptoms less than 1 night per week
- No missed regular activities or school/work

Peak flow: > 80% personal best, or > ____.

Other:

INSTRUCTIONS:

MEDICATION	PUFFER COLOUR	DOSE	PUFFS	TIMES PER DAY
CONTROLLER				
RELIEVER				

Other:

Caution: Step Up Therapy

DESCRIPTION:

You have **ANY** of the following:

- Use your reliever **more than** 3 times per week
- Have daytime cough, wheezing, shortness of breath or chest tightening **more than** 3 days per week
- Physical activity is limited due to symptoms
- Asthma symptoms at night or in early AM 1 or more nights per week

Peak flow: 60-80% personal best, or ____ to ____.

Other:

INSTRUCTIONS:

- ☐ Increase _____ controller (_____) to: _____ puffs _____ times per day for _____ days.
- ☐ Add _____ controller (_____): _____ puffs _____ times per day for _____ days
- ☐ Take _____ reliever (_____) 1-2 puffs every 4 to 6 hours as needed.
- ☐ If no improvement in your symptoms and/or peak flows in 2-3 days, or your reliever only lasts for 2-3 hours, go to the red zone.

Other:

Stop: Get Help Now

DESCRIPTION:

You have **ANY** of the following:

- Reliever lasts for 2-3 hours or less
- Continuous asthma symptoms
- Continuous cough
- Wheezing all the time
- Severe shortness of breath
- Sudden severe attack of asthma

Peak flow: <60% personal best, or < ____.

Other:

INSTRUCTIONS:

Take _____ reliever (_____) _____ puffs every 10-30 minutes as needed.

Asthma symptoms can get worse quickly. When in doubt, seek medical help.

Asthma can be life-threatening - DO NOT WAIT!

If you cannot contact your doctor:

Call 911 for an ambulance, or go directly to the Emergency Department!

Bring this asthma action plan with you to the emergency room or hospital.

Stay calm.

Other:

Controller - has a lasting effect, treats inflammation, prevents asthma attacks, may take time to act.

Reliever - rapidly relieves symptoms of cough, wheeze, lasts 4 hours.

Allergies may be triggering your asthma - avoid the things that you are allergic to and have allergy skin testing if you are unsure.

Pediatric Asthma Action Plan (1-15 years)

Always remain on your green zone medication, even if you are having no symptoms of asthma.

NAME: _____ DATE: _____

HEALTHCARE PROVIDER: _____ PHONE: _____

Review your action plan with your healthcare provider at every visit.

Go: Maintain Therapy

DESCRIPTION

You/your child has **ALL** of the following:

- Use of reliever puffer **no more than 3** times per week*
- Daytime symptoms (cough, wheeze or breathing problems) **no more than 3** times per week*
- Ability to do physical activity (playing, running, or sports) without difficulty
- No nighttime asthma symptoms
- Not missing regular activities or school
- No symptoms of a cold



*1 time a week if 1 to 5 years old.

Other:

INSTRUCTIONS

MEDICATION	PUFFER COLOUR	DOSE	PUFFS	TIMES A DAY
CONTROLLER				
RELIEVER				
				every 4 hrs as needed

☐ Use reliever before exercise

Other:

Caution: Step Up Therapy

DESCRIPTION

You/your child has **ANY** of the following:

- Use your reliever puffer **more than 3** times per week*
- Daytime symptoms (cough, wheeze or breathing problems) **more than 3** times per week*
- Difficulty with physical activity (playing, running) or sports
- Asthma symptoms for 1 or more nights per week
- Missing regular activities or school
- Symptoms of a cold



*1 time a week if 1 to 5 years old.

Other:

INSTRUCTIONS

- ☐ Take _____ reliever ____ puffs (colour) every 4 hours as needed, and:
- ☐ Continue to take your green zone medication
- ☐ If reliever puffer is needed consistently every 4 hours, or if there is no improvement in your symptoms in 2-3 days, contact your healthcare provider

Other:

Stop: Get Help Now

DESCRIPTION

You/your child has **ANY** of the following:

- Reliever puffer lasts **less than 3** hours
- "Pulling in" of skin in the neck or between or below ribs
- Feeling very short of breath
- Difficulty talking
- Continuous wheeze or cough



Other:

INSTRUCTIONS

Take _____ reliever 4-6 puffs every (colour) 15-20 minutes, and
 Call 911 or go directly to the emergency department
 Asthma symptoms can get worse quickly
 Asthma can be a life-threatening illness
- DO NOT WAIT!
 Bring this asthma action plan with you to the emergency department
 Stay calm

Other:

Pediatric Asthma Action Plan (1-15 years)

The goal of asthma treatment is to live a healthy, active life

This Asthma Action Plan outlines steps for you to self-manage asthma when you start having more symptoms. Your healthcare provider might also change your usual asthma treatment according to the level of asthma control over time. Review all symptoms and this plan regularly with your healthcare provider.

Asthma Triggers



Colds are the most common trigger
- wash hands often



Smoking or being in a house
or a car where someone smokes



**Fumes, chemicals
and strong scents**

Check the Air Quality Health Index before you leave home: airhealth.ca.

Allergies may be triggering your asthma

Follow the instructions below if you are allergic to any of these:
(have allergy skin testing if you are unsure)



Pets with fur or feathers - If you have pets, wash them regularly
and keep them out of bedrooms.



Pollen (eg. flowers, grass, trees) - Try to stay inside on high pollen
days and avoid freshly cut grass.



Dust and dust mites - Wash bedsheets in hot water and vacuum
with a HEPA filter or central vacuum regularly; consider mattress
and pillow covers.



Mould - Keep bathroom and basement dry, clean visible mould,
avoid decomposing leaves in the fall.

Simple ways to take care of your asthma:

- ✓ Avoid triggers.
- ✓ Know your medications and how and when to take them.
Take controller medications regularly.
- ✓ Follow your action plan.
- ✓ After any emergency room visit, schedule a follow-up
appointment with your healthcare provider in the next
2 weeks.
- ✓ Always have your reliever medication with you.
- ✓ Use appropriate spacer (holding chamber)
with metered dose inhaler.



For Healthcare Providers

At every visit, re-assess adherence to therapy, inhaler technique, asthma control criteria and environmental control.

For children 1-5 years, refer to the figure provided and the 2015 Diagnosis and Management of Asthma in Preschoolers position statement** to determine treatment and medication doses required to maintain ongoing asthma control. For children 6 years and over, refer to the CTS 2012 Asthma guideline update†.

An exacerbation requiring rescue systemic corticosteroids or hospitalization is an indication of suboptimal control and should prompt reassessment.

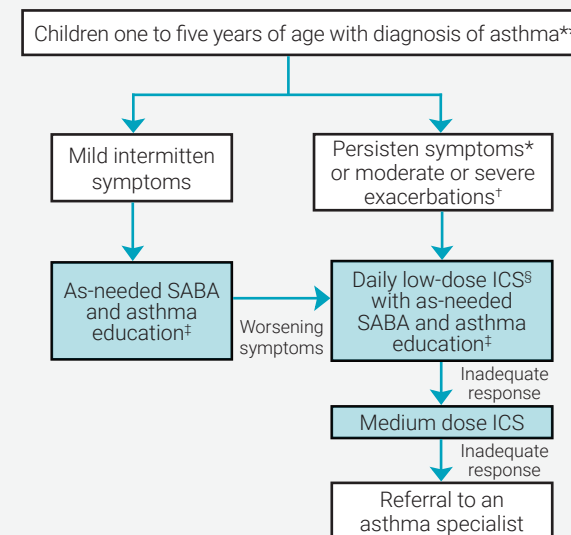


Figure 2) Treatment algorithm for preschoolers with asthma.*Symptoms occurring ≥ 8 days/month, ≥ 8 days/month with use of inhaled short-acting β_2 -agonists (SABA), ≥ 1 night awakening due to symptoms/month, any exercise limitation/month or any absence from usual activities to asthma symptoms; †Episodes requiring rescue oral corticosteroids or hospital admission; ‡Asthma education including environmental control and a written self-management plan; §Inhaled corticosteroids (ICS) are more effective than leukotriene receptor antagonists (LTRA)

This asthma action plan was adapted from Gupta S., et al. Respiration 2012; 84(5):406-15. Pictograms in the asthma action plan were adapted from Tulloch J., et. al. Can Respir J. 2012 Jan-Feb;19(1):26-31 Instructions were designed to align with: **Ducharme FM, Dell SD, Radhakrishnan D, et al. Diagnosis and management of asthma in preschoolers: A Canadian Thoracic Society and Canadian Paediatric Society position paper. Can Respir J 2015; 22(3):135-143 and †Loughheed MD, Lemiere C, Ducharme F, et al. Canadian Thoracic Society 2012 guideline update: Diagnosis and management of asthma in preschoolers, children and adults. Can Respir J 2012; Vol 19(2), 127-64.

For information on how this action plan was developed, or to download a copy of this action plan and/or for associated resources, please visit <https://hcp.lunghealth.ca/programs-tools/clinical-tools/>

■ N/A

☐ N/A

■ N/A

☐ N/A☐ N/A

*ensure a diagnosis of COPD is made with post-bronchodilator spirometry testing to meet the Canadian Thoracic Society criteria
Post-bronchodilator FEV₁/FVC ratio < LLN or < 0.70

☐ Scheduled ☐ Yes ☐ No ☐ Post ED Visit ☐ Yes ☐ No

☐ Post Hospital Visit ☐ Yes ☐ No

If yes: ☐ Within 7 days post-hospital visit ☐ Within 14 days post-hospital visit ☐ More than 14 days post-hospital visit

N/A

No

Client Name <input style="width: 250px;" type="text"/>		Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																															
Family History of Lung Disease <input type="checkbox"/> N/A		Current Symptoms <input type="checkbox"/> N/A																																																															
Family History of COPD, Allergy and/or Asthma <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If yes select conditions from a list and indicate which relative) COPD <input type="checkbox"/> Parent <input type="checkbox"/> Sibling Allergy <input type="checkbox"/> Parent <input type="checkbox"/> Sibling Alpha-1 Antitrypsin <input type="checkbox"/> Parent <input type="checkbox"/> Sibling Asthma <input type="checkbox"/> Parent <input type="checkbox"/> Sibling		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Breathlessness <input type="checkbox"/> at rest <input type="checkbox"/> on exertion</td> <td style="width: 10%; text-align: center;">Yes</td> <td style="width: 10%; text-align: center;">No</td> </tr> <tr> <td>Chest tightness</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Wheeze</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Cough</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sputum production</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="3">Sputum colour _____</td> </tr> <tr> <td colspan="3">Sputum consistency _____ Sputum volume _____</td> </tr> <tr> <td>Hemoptysis</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Frequent colds</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="3">If yes frequency <input type="checkbox"/> 0-3/year <input type="checkbox"/> 4-7/year <input type="checkbox"/> ≥8/year</td> </tr> <tr> <td>Colds that last longer than 7 days</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Symptoms worse at night (including cough)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Chest pain</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Limitation of activities at home</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sleep soundly</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Decreased energy level</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		Breathlessness <input type="checkbox"/> at rest <input type="checkbox"/> on exertion	Yes	No	Chest tightness	<input type="checkbox"/>	<input type="checkbox"/>	Wheeze	<input type="checkbox"/>	<input type="checkbox"/>	Cough	<input type="checkbox"/>	<input type="checkbox"/>	Sputum production	<input type="checkbox"/>	<input type="checkbox"/>	Sputum colour _____			Sputum consistency _____ Sputum volume _____			Hemoptysis	<input type="checkbox"/>	<input type="checkbox"/>	Frequent colds	<input type="checkbox"/>	<input type="checkbox"/>	If yes frequency <input type="checkbox"/> 0-3/year <input type="checkbox"/> 4-7/year <input type="checkbox"/> ≥8/year			Colds that last longer than 7 days	<input type="checkbox"/>	<input type="checkbox"/>	Symptoms worse at night (including cough)	<input type="checkbox"/>	<input type="checkbox"/>	Chest pain	<input type="checkbox"/>	<input type="checkbox"/>	Limitation of activities at home	<input type="checkbox"/>	<input type="checkbox"/>	Sleep soundly	<input type="checkbox"/>	<input type="checkbox"/>	Decreased energy level	<input type="checkbox"/>	<input type="checkbox"/>														
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<input type="checkbox"/> Normal breath sounds <input type="checkbox"/> Abnormal breath sounds If abnormal, select auscultatory finding <input type="checkbox"/> Wheezes <input type="checkbox"/> Crackles <input type="checkbox"/> Reduced Breath Sounds <input type="checkbox"/> Bronchial (harsh and prolonged inspiration and expiration) <input type="checkbox"/> Barrel chested <input type="checkbox"/> Clubbing <input type="checkbox"/> Cachectic (skinny)																																																																	
Vitals: HR _____ RR _____ BP _____																																																																	
Smoking <input type="checkbox"/> N/A																																																																	
Smoking Status <input type="checkbox"/> Non-Smoker <input type="checkbox"/> Ex-Smoker <input type="checkbox"/> Smoker (# of cigarettes per day ____) <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Quit Date <input style="width: 80px;" type="text" value="YYYY/MM/DD"/> Quit Duration When was the last time you smoked a cigarette, even a puff? <input type="checkbox"/> > 6 months <input type="checkbox"/> 1-6 months <input type="checkbox"/> < 1 month </div> <div style="width: 30%;"> Pack Years Cig Smoked/day <input style="width: 40px;" type="text"/> /20 x Years smoked <input style="width: 40px;" type="text"/> = Pack years <input style="width: 40px;" type="text"/> </div> </div> <div style="margin-top: 10px;"> Smoke Type <input type="checkbox"/> non-traditional tobacco (e.g. cigarettes/ cigarillo/ cigar) <input type="checkbox"/> Cannabis use <input type="checkbox"/> e-cigarette user <input type="checkbox"/> traditional tobacco (e.g. smudging ceremonies) <input type="checkbox"/> Inhalation vapor user <input type="checkbox"/> hooka <input type="checkbox"/> shisha </div>		Smoking Cessation Quit Intentions Are you planning to quit smoking? <input type="checkbox"/> within a month <input type="checkbox"/> within 6 months <input type="checkbox"/> beyond 6 months <input type="checkbox"/> not planning to quit Stages of Change Addressed <input type="checkbox"/> pre-contemplation <input type="checkbox"/> contemplation <input type="checkbox"/> preparation <input type="checkbox"/> action <input type="checkbox"/> maintenance Smoking Cessation Addressed <input type="checkbox"/> Ask <input type="checkbox"/> Advise <input type="checkbox"/> Arrange Smoking Cessation Aids <input type="checkbox"/> Nicotine Replacement Therapy (NRT)																																																															
COPD Healthcare Utilization <input type="checkbox"/> N/A		Barriers <input type="checkbox"/> N/A																																																															
Visit(s) to primary care physician in the last 12 months for COPD symptoms <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, indicate the number of primary care visits for COPD in the last 12 months Routine primary care visits <input style="width: 40px;" type="text"/> Urgent primary care visits <input style="width: 40px;" type="text"/>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Barriers <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td style="width: 10%; text-align: center;">Yes</td> <td style="width: 10%; text-align: center;">No</td> </tr> <tr> <td colspan="3">(If yes select from the list below)</td> </tr> <tr> <td>Adherence</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Cultural issue</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Financial issue</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Lack of private drug plan</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Language</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Literacy</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Medication side effects</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Other <input style="width: 100px;" type="text"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Effect of substances addiction</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> </tr> <tr> <td>Social/Family issue</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> </tr> </table>		Barriers <input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	No	(If yes select from the list below)			Adherence	<input type="checkbox"/>	<input type="checkbox"/>	Cultural issue	<input type="checkbox"/>	<input type="checkbox"/>	Financial issue	<input type="checkbox"/>	<input type="checkbox"/>	Lack of private drug plan	<input type="checkbox"/>	<input type="checkbox"/>	Language	<input type="checkbox"/>	<input type="checkbox"/>	Literacy	<input type="checkbox"/>	<input type="checkbox"/>	Medication side effects	<input type="checkbox"/>	<input type="checkbox"/>	Other <input style="width: 100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	Effect of substances addiction	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Social/Family issue	<input type="checkbox"/> Yes	<input type="checkbox"/> No																										
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<input type="checkbox"/> mMRC 0: I only get breathless with strenuous exertion <input type="checkbox"/> mMRC 1: I get SOB when hurrying on the level or walking up a slight hill <input type="checkbox"/> mMRC 2: I walk slower than other people of the same age on the level, or stop for breath when walking at my own pace <input type="checkbox"/> mMRC 3: I stop for breath after walking 100 meters or after a few minutes <input type="checkbox"/> mMRC 4: I am too breathless to leave the house or I am breathless when dressing or undressing		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Category <small>If yes select patient reported triggers & exposures from list.</small></th> <th colspan="3">Triggers</th> <th colspan="3">Exposures</th> </tr> <tr> <th><input type="checkbox"/> Yes</th> <th><input type="checkbox"/> No</th> <th><input type="checkbox"/> Unknown</th> <th><input type="checkbox"/> Yes</th> <th><input type="checkbox"/> No</th> <th><input 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fresheners</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pollen</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Ragweed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Respiratory Infections</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Second hand smoke</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr> <td>Other <input style="width: 100px;" type="text"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		Category <small>If yes select patient reported triggers & exposures from list.</small>	Triggers			Exposures			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown	Beta Blockers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cockroaches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cold air/ Windy day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dogs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dust/Dust mites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emotion/ Stress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fireplace/Woodstove	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Food allergy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fumes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fungi/Mould	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grasses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	High humidity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Medications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Outdoor pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perfume/Air fresheners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pollen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ragweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Respiratory Infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Second hand smoke	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other <input style="width: 100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Category <small>If yes select patient reported triggers & exposures from list.</small>	Triggers				Exposures																																																																																																																																																																												
	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown																																																																																																																																																																											
Beta Blockers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Cats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Cockroaches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Cold air/ Windy day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Dogs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Dust/Dust mites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Emotion/ Stress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Fireplace/Woodstove	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Food allergy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Fumes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Fungi/Mould	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Grasses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
High humidity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Medications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Outdoor pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Perfume/Air fresheners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Pollen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Ragweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Respiratory Infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Second hand smoke	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
Other <input style="width: 100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
CAT Score (https://www.catestonline.org) <input type="checkbox"/> N/A																																																																																																																																																																																	
CAT Score	Impact level																																																																																																																																																																																
5	Upper limit of normal in healthy non-smokers																																																																																																																																																																																
< 10	Low																																																																																																																																																																																
10 - 20	Medium																																																																																																																																																																																
> 20	High																																																																																																																																																																																
> 30	Very High																																																																																																																																																																																
CAT Score _____																																																																																																																																																																																	
CTS severity score (symptom burden and the risk of future exacerbations) <input type="checkbox"/> N/A																																																																																																																																																																																	
<input type="checkbox"/> Mild: CAT < 10, mMRC 1, No AECOPD* <input type="checkbox"/> Moderate: CAT ≥ 10, mMRC ≥ 2, Low Risk of AECOPD* <input type="checkbox"/> Severe: CAT ≥ 10, mMRC ≥ 2, High Risk of AECOPD*																																																																																																																																																																																	
<small>*Patients are considered at Low Risk of AECOPD with ≤ 1 moderate AECOPD in the last year (moderate AECOPD is an event with prescribed antibiotic and/or oral corticosteroids), and did not require hospital admission/ ED visit; or at High Risk of AECOPD with ≥ 2 moderate AECOPD or ≥ 1 severe exacerbation in the last year (severe AECOPD is an event requiring hospitalization or ED visit).</small>																																																																																																																																																																																	
Occupational History <input type="checkbox"/> N/A																																																																																																																																																																																	
Current Employment Status: Check all the apply. Note - This includes self-employment and working from home:																																																																																																																																																																																	
<input type="checkbox"/> Full-Time <input type="checkbox"/> Part-Time <input type="checkbox"/> Shift work <input type="checkbox"/> Modified duties <input type="checkbox"/> Off work due to respiratory health <input type="checkbox"/> Retired <input type="checkbox"/> Other _____ Current Employment _____																																																																																																																																																																																	
Significant work exposure _____																																																																																																																																																																																	
Environmental Controls <input type="checkbox"/> N/A																																																																																																																																																																																	
Environmental Control Measures in Place <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, Select patient-reported, control measures in place. Optional: repeat questions for individuals with a secondary home.)																																																																																																																																																																																	
	Yes	No	Suggested																																																																																																																																																																														
Air conditioning in summer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Central or hepa-filter vacuum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Dehumidifier (desired target < 50%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Dust mite mattress cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Dust mite pillow cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Removed carpets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Heat exchanger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Heating gas/Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Heating electric/Radiator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Alternative to wood heat (fireplaces, wood stoves, furnaces) or mitigation strategies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Humidifier in winter (desired target < 50%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Humidifier all year round (desired target < 50%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Non-feather blanket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Pets kept out of bedrooms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Regular furnace filter change	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Remove pets from home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Wash linens in hot water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Wash pets once a week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Wear mask or respirator as needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														
Other <input style="width: 100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																														

Client Name

Jurisdictional Health Number

Comorbidities

N/A

Comorbid Conditions ☐ Yes ☐ No (If yes, select relevant comorbid diagnosis from the list provided)

Respiratory	Yes	No	Unknown	Cardiovascular	Yes	No	Unknown	Upper Airways	Yes	No	Unknown
A-1 Antitrypsin deficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aneurysms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Anaphylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASA Reaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Angina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nasal Polyps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eczema	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aortic Stenosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oral Thrush	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emphysema	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aortic Valve Regurgitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rhinitis/ Sinusitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lung Cancer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Arrhythmias	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sleep Apnea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chronic Bronchitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Atrial Fibrillation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upper Respiratory Tract Infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Lung Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cardiomyopathy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other			
Pleurisy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cerebral Vascular Accident	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Arthritis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumonia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coronary Artery Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cancer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumothorax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Congestive Heart Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cataracts/Glaucoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary Edema	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cor Pulmonale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frequent Colds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary Effusion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coronary Artery Bypass Surgery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GERD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary Embolism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Deep vein thrombosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Heartburn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulmonary Hypertension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Defibrillator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kidney Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mental Health				Heart Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Liver Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anxiety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	High Blood Pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Osteopenia/ Osteoporosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dementia/Alzheimer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hyperlipidemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rheumatoid Arthritis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hypertension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other			
Panic Disorder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Implantable Cardioverter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Metabolic				Mitral Valve Regurgitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Diabetes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Myocardial Infarction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Hypothyroidism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Myocarditis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Metabolic Syndromes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pacemaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				Pedal Swelling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				Peripheral Vascular Disease	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				Syncope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				Transient Ischemic Attack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

COPD Action Plan

N/A

Pulmonary Function Test

N/A

	Yes	No		Spirometry	LLN	PRE		POST	
					Actual	% Pred	Actual	% Pred	
Written COPD action plan provided	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FVC	L/Min	L/Min	%	L/Min	%
Written COPD action plan revised	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV1	L/Min	L/Min	%	L/Min	%
COPD action plan reviewed & not changed	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV ₁ / FVC	L/Min	L/Min	%	L/Min	%
Yellow or red zone of action plan followed,	<input type="checkbox"/>	<input type="checkbox"/>	# of Times	PEF					
				DLCO	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Results			

Additional Notes/ Plans

Client Name <input style="width: 250px;" type="text"/>			Jurisdictional Health Number <input style="width: 200px;" type="text"/>				
Immunizations <input type="checkbox"/> N/A			Referrals <input type="checkbox"/> N/A				
	Yes	No	Unknown		Yes	No	Suggested
Immunizations discussed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Allergist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Influenza vaccination received	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COPD Education Program/ CRE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date of last influenza vaccination	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			Respirologist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conjugated vaccine (PNEU-C-13)	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			Smoking cessation counselling/support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyvalent Pneumococcal vaccine	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			Dietitian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci.html				Mental health counselling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Investigations <input type="checkbox"/> N/A				Sleep testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chest CT	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Results <input style="width: 100px;" type="text"/>	Allergy testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bone Mineral Density Test (BMD Test)				Home O2 assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date of last	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>	Results	<input style="width: 80px;" type="text" value="g/cm²"/>	ABGs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (past diagnostics)				Social Worker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha-1 Antitrypsin blood work done	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Pharmacist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Results	<input style="width: 150px;" type="text"/>			Full PFT testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ABG on room air done and date (consider when FEV ₁ < 40% or resting SpO ₂ < 90%)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Pulmonary Rehabilitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date of last	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			OTN tele-monitoring program (if available)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Results: pH ____ PO ₂ ____ PCO ₂ ____ HC03 ____ SaO ₂ ____				Other specialist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 minute walk test	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Follow-up Visit Scheduled in (time frame from current visit) <input type="checkbox"/> N/A			
Results	<input style="width: 100px;" type="text"/>			<input type="checkbox"/> 1 Week	<input type="checkbox"/> 1 Month	<input type="checkbox"/> 4-6 Months	Other <input style="width: 80px;" type="text"/>
				<input type="checkbox"/> 2 Weeks	<input type="checkbox"/> 2 Months	<input type="checkbox"/> 6-12 Months	
				<input type="checkbox"/> 3 Weeks	<input type="checkbox"/> 3 Months	<input type="checkbox"/> "Wait and see"	
Education Interventions <input type="checkbox"/> N/A							
Education provided at this visit				<input type="checkbox"/> Yes	<input type="checkbox"/> No		
(Identify education provided by selecting from the list below)							
	Yes	No		Yes	No		
Adherence to medications	<input type="checkbox"/>	<input type="checkbox"/>	Immunotherapy	<input type="checkbox"/>	<input type="checkbox"/>		
Barriers addressed	<input type="checkbox"/>	<input type="checkbox"/>	Inhaler technique	<input type="checkbox"/>	<input type="checkbox"/>		
COPD Action Plan	<input type="checkbox"/>	<input type="checkbox"/>	Medications	<input type="checkbox"/>	<input type="checkbox"/>		
COPD pathophysiology	<input type="checkbox"/>	<input type="checkbox"/>	Provide patient education materials	<input type="checkbox"/>	<input type="checkbox"/>		
Coping strategies addressed	<input type="checkbox"/>	<input type="checkbox"/>	Self management goal	<input type="checkbox"/>	<input type="checkbox"/>		
Device technique optimal	<input type="checkbox"/>	<input type="checkbox"/>	Smoking cessation	<input type="checkbox"/>	<input type="checkbox"/>		
Early recognition & treatment of exacerbations	<input type="checkbox"/>	<input type="checkbox"/>	Triggers & environmental controls	<input type="checkbox"/>	<input type="checkbox"/>		
Environmental tobacco smoke exposure	<input type="checkbox"/>	<input type="checkbox"/>	Other <input style="width: 100px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Exercise	<input type="checkbox"/>	<input type="checkbox"/>	Patient understanding of education/Information provided at this visit	<input type="checkbox"/> Poor	<input type="checkbox"/> Fair	<input type="checkbox"/> Good	<input type="checkbox"/> Excellent
Additional Notes/ Plans							
Healthcare Professional Role Type <input style="width: 150px;" type="text"/>				Signature <input style="width: 150px;" type="text"/>			

COPD Action Plan Instructions

The **goal of a COPD Action Plan** is to help those with COPD prevent and manage exacerbations in conjunction with the healthcare professional team (the physician*, the certified respiratory educator and the pharmacist), i.e., **collaborative self-management**. The healthcare professional team should complete/review the following information with the patient:

- a list of persons to contact when he/she needs help
- a list of baseline symptoms and the actions to be taken to stay well (green zone)
- the symptoms indicating worsening COPD and the actions to be taken to manage the exacerbation (yellow zone)
- the symptoms which require urgent treatment (red zone)

Early and appropriate intervention may help to prevent or minimize the impact of an exacerbation.

REMEMBER: The **COPD Action Plan** is a tool to facilitate communication between the COPD patient and his/her healthcare professional team. Once completed, the Action Plan should be brought to **each** follow-up visit, **reviewed** regularly and modified as necessary. Follow up should include a discussion on past exacerbations and how the patient used their Action Plan and managed flare-ups.

A certified respiratory educator or other qualified member of the healthcare professional team should discuss and review the document with the COPD patient to ensure he/she:

- has a clear understanding of how to recognize worsening COPD symptoms; and
- is confident in knowing when and what actions are to be taken based on the severity of symptoms, including when to fill the prescription for additional medications and when to seek urgent/emergent medical attention.

CAUTION: To be successful, the COPD patient must achieve behavioral change through collaborative self-management, although this is not without risk. Recently, it has been shown in a large clinical trial that patients engaged in a collaborative self-management program, which included the use of an Action Plan, could have unexpected negative outcomes, including increased risk of death.

The COPD Action Plan consists of two parts:

Part I includes written instructions on what actions should be taken by the person with COPD based on symptoms (sputum and shortness of breath) in the green, yellow and red zones. It includes three copies, a copy for the patient, the physician and the respiratory educator. Any member of the healthcare professional team can begin the process for completing the Action Plan.

Part II includes a prescription for medications to be initiated in the case of sustained worsening symptoms. It is completed by a physician. It also includes three copies, a copy for the patient, the physician and the pharmacist.

WARNING: 1) Separate both parts of the Action Plan before completing. Since both parts are carbon copied, ensure that when part I is being completed, part II is not directly underneath, as the information will be transferred. 2) Please ensure the physician signs the pharmacist's copy of the Action Plan. In order for the prescription to be accepted by the pharmacist, an original signature from the physician is required on the pharmacist's copy of the Action Plan.





*or nurse practitioner


My COPD Action Plan _____ Date _____
 Patient's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
 (Name & Phone Number) (Name & Phone Number)

My Symptoms	I Feel Well 	I Feel Worse 	I Feel Much Worse 
I have sputum.	My usual sputum colour is: _____	Changes in my sputum, for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	My symptoms are not better after taking my flare-up medicine for 48 hours.
I feel short of breath.	When I do this: _____ _____	More short of breath than usual for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	I am very short of breath, nervous, confused and/or drowsy, and/or I have chest pain. 

My Actions	Stay Well	Take Action	Call For Help
	I use my daily puffers as directed.	If I checked 'Yes' to one or both of the above, I use my prescriptions for COPD flare-ups.	I will call my support contact and/or see my doctor and/or go to the nearest emergency department.
	If I am on oxygen, I use _____ L/min.	I use my daily puffers as usual. If I am more short of breath than usual, I will take ____ puffs of _____ up to a maximum of ____ times per day.	I will dial 911. 

Notes:

I use my breathing and relaxation methods as taught to me. I pace myself to save energy.

If I am on oxygen, I will increase it from ____ L/min to ____ L/min.

Important information: I will tell my doctor, respiratory educator, or case manager **within 2 days** if I had to use any of my flare-up prescriptions. I will also make follow-up appointments to review my COPD Action Plan twice a year.

COPD ACTION PLAN (Patient's copy)

Why do I need this COPD Action Plan?

- Your Action Plan is a written contract between you and your health care team. It will tell you how to manage your COPD flare-ups. Use it along with any other information you get from your health care team about managing your COPD every day.
- Your Action Plan will help you and your caregivers to quickly recognize and act to treat your flare-ups. This will keep your lungs and you as healthy as possible.

How will I know that I am having a COPD “flare-up”?

- You will often see a change in your amount or colour of sputum and/or you may find that you are more short of breath than usual. Other symptoms can include coughing and wheezing more.
- Your flare-up Action Plan is to be used only for COPD flare-ups. Remember that there are other reasons you may get short of breath, such as when you have pneumonia, are anxious, or have heart problems.
- Before or during a flare-up you may notice changes in your mood, such as feeling down or anxious. Some people have low energy or feel tired before and during a COPD flare-up.

What triggers a “COPD flare-up”?

- A COPD flare-up can sometimes happen after you get a cold or flu, or when you are stressed and run down.
- Being exposed to air pollution and changes in the weather can also cause COPD flare-ups. To learn about the daily air quality in your area, visit Environment Canada's Air Quality Health Index (AQHI) website at www.ec.gc.ca/cas-aqhi/ and click on 'Your Local AQHI Conditions'. Ask your health care team about ways to avoid all possible triggers.

When should I use this COPD Action Plan?

- Your COPD Action Plan is used only for COPD flare-ups.
- Remember that there are other reasons you may get short of breath, such as when you have pneumonia, are anxious, or have heart problems. If you become more short of breath but don't have symptoms of COPD flare-up, see a doctor as soon as possible.

REMEMBER:

- Learn about your COPD from a respiratory educator, credible websites, such as www.lung.ca, and education programs.
- Take your regular daily medicine as prescribed.
- Don't wait more than 48 hours after the start of a COPD flare-up to take your antibiotic and/or prednisone medicines. See your pharmacist quickly to get your prescriptions for COPD flare-up.
- When you start an antibiotic, make sure that you finish the entire treatment.
- Quitting smoking and making sure that your vaccinations are up-to-date (for flu every year and for pneumonia at least once) will help prevent flare-ups.
- Be as active as possible. Inactivity leads to weakness, which may cause more flare-ups or flare-ups that are worse than usual. Ask your doctor about pulmonary rehabilitation and strategies to help reduce your shortness of breath and improve your quality of life.
- Follow up with your doctor within 2 days after using any of your prescriptions for a COPD flare-up.





MY NOTES AND QUESTIONS:


My COPD Action Plan _____ Date _____
 Physician's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
 (Name & Phone Number) (Name & Phone Number)

My Symptoms	I Feel Well 	I Feel Worse 	I Feel Much Worse URGENT 
I have sputum.	My usual sputum colour is: _____	Changes in my sputum, for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	My symptoms are not better after taking my flare-up medicine for 48 hours.
I feel short of breath.	When I do this: _____ _____	More short of breath than usual for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	I am very short of breath, nervous, confused and/or drowsy, and/or I have chest pain. 

My Actions	Stay Well	Take Action	Call For Help
	I use my daily puffers as directed.	If I checked 'Yes' to one or both of the above, I use my prescriptions for COPD flare-ups.	I will call my support contact and/or see my doctor and/or go to the nearest emergency department.
	If I am on oxygen, I use _____ L/min.	I use my daily puffers as usual. If I am more short of breath than usual, I will take ____ puffs of _____ up to a maximum of ____ times per day.	I will dial 911. 

Notes:

I use my breathing and relaxation methods as taught to me. I pace myself to save energy.

If I am on oxygen, I will increase it from ____ L/min to ____ L/min.

Important information: I will tell my doctor, respiratory educator, or case manager **within 2 days** if I had to use any of my flare-up prescriptions. I will also make follow-up appointments to review my COPD Action Plan twice a year.

COPD ACTION PLAN (Physician's copy)

Pharmacological Treatment

1. Short-acting (beta₂-agonists and anticholinergic) bronchodilators to treat wheeze and dyspnea. Continue all of your long acting bronchodilators or inhaled steroids as prescribed.
2. Prednisone (oral) → 30-50 mg once daily for 5-10 days for patients with moderate to severe COPD.
3. Antibiotic choice is prescribed based upon the presence of risk factors as below.
4. Severe AECOPD complicated by acute respiratory failure is a medical emergency. Consider consultation with an emergency specialist or respirologist.

Antibiotic Treatment Recommendations for Acute COPD Exacerbations^{1,2}

Group	Probable Pathogens	First Choice	Alternatives for Treatment Failure
I, Simple Smokers FEV1 > 50% ≤ 3 exacerbations per year	H. influenzae M. catarrhalis S. pneumoniae	Amoxicillin, 2nd or 3rd generation cephalosporin, doxycycline, extended spectrum macrolide, trimethoprim-sulfamethoxazole (in alphabetical order).	Fluoroquinolone β-lact/ β-lactamase inhibitor.
II, Complicated, as per I, plus at least one of the following should be present: FEV1 < 50% predicted; ≥ 4 exacerbations/year; ischemic heart disease; use home oxygen or chronic oral steroids; antibiotic use in the past 3 months.	As in group I, plus: Klebsiella spp. and other Gram-negative bacteria Increased probability of β-lactam resistance.	Fluoroquinolone β-lact/ β-lactamase inhibitor (in order of preference).	May require parenteral therapy. Consider referral to a specialist or hospital.
III, Chronic Suppurative II, plus: Constant purulent sputum; some have bronchiectasis; FEV1 usually < 35% predicted; chronic oral steroid use; multiple risk factors.	As in group II, plus: P. Aeruginosa and multi-resistant Enterobacteriaceae.	Ambulatory - tailor treatment to airway pathogen; P. Aeruginosa is common (ciprofloxacin) Hospitalized - parenteral therapy usually required.	

General Recommendations for the Physician

- Patients need to be instructed to call or visit their treating physician if symptoms persist or worsen after 48 hrs in spite of patient-initiated treatment. Please instruct patients to notify their doctor, respiratory educator, or case manager within 2 days of filling any of their prescriptions for a COPD flare-up.
- Prescriptions for antibiotics and prednisone can be refilled twice each, as needed, for 1 year. Pharmacists may fax the doctor's office after any portion of the prescriptions for COPD flare-up has been filled.
- To reduce the risk of antibiotic resistance, if more than one treatment is required over 3 months, the class of antibiotics should be changed on subsequent courses of therapy.
- Review with your patient measures to prevent future COPD exacerbations including smoking cessation, annual influenza vaccination, pneumococcal vaccination and appropriate use of inhaled daily medications.
- Consider referral to a local respiratory educator and pulmonary rehabilitation program if available.

1 O'Donnell DE, Hernandez P, Kaplan A, Aaron S., et al. CTS recommendations for management of COPD – 2008 update – highlights for primary care. Can Resp J 2008; 15(Suppl A):1A-8A.





2 Balter MS, La Forge J, Low DE, Mandell L., et al. Canadian guidelines for the management of acute exacerbation of chronic bronchitis. Can Resp J 2003; 10(Suppl B):3B-32B.


My COPD Action Plan _____ Date _____
 Educator's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
 (Name & Phone Number) (Name & Phone Number)

My Symptoms	I Feel Well 	I Feel Worse 	I Feel Much Worse 
I have sputum.	My usual sputum colour is: _____	Changes in my sputum, for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	My symptoms are not better after taking my flare-up medicine for 48 hours.
I feel short of breath.	When I do this: _____ _____	More short of breath than usual for at least 2 days. Yes <input type="checkbox"/> No <input type="checkbox"/>	I am very short of breath, nervous, confused and/or drowsy, and/or I have chest pain. 

My Actions	Stay Well	Take Action	Call For Help
	I use my daily puffers as directed.	If I checked 'Yes' to one or both of the above, I use my prescriptions for COPD flare-ups.	I will call my support contact and/or see my doctor and/or go to the nearest emergency department.
	If I am on oxygen, I use _____ L/min.	I use my daily puffers as usual. If I am more short of breath than usual, I will take ____ puffs of _____ up to a maximum of ____ times per day.	I will dial 911. 

Notes:

I use my breathing and relaxation methods as taught to me. I pace myself to save energy.

If I am on oxygen, I will increase it from ____ L/min to ____ L/min.

Important information: I will tell my doctor, respiratory educator, or case manager **within 2 days** if I had to use any of my flare-up prescriptions. I will also make follow-up appointments to review my COPD Action Plan twice a year.

COPD ACTION PLAN (Educator's copy)

Pharmacological Treatment

1. Short-acting (β_2 -agonists and anticholinergic) bronchodilators to treat wheeze and dyspnea. Continue all of your long acting bronchodilators or inhaled steroids as prescribed.
2. Prednisone (oral) → 30-50 mg once daily for 5-10 days for patients with moderate to severe COPD.
3. Antibiotic choice is prescribed based upon the presence of risk factors as below.
4. Severe AECOPD complicated by acute respiratory failure is a medical emergency. Consider consultation with an emergency specialist or respirologist.

Antibiotic Treatment Recommendations for Acute COPD Exacerbations^{1,2}

Group	Probable Pathogens	First Choice	Alternatives for Treatment Failure
I, Simple Smokers FEV1 > 50% ≤ 3 exacerbations per year	H. influenzae M. catarrhalis S. pneumoniae	Amoxicillin, 2nd or 3rd generation cephalosporin, doxycycline, extended spectrum macrolide, trimethoprim-sulfamethoxazole (in alphabetical order).	Fluoroquinolone β -lact/ β -lactamase inhibitor
II, Complicated, as per I, plus at least one of the following should be present: FEV1 < 50% predicted; ≥ 4 exacerbations/year; ischemic heart disease; use home oxygen or chronic oral steroids; antibiotic use in the past 3 months.	As in group I, plus: Klebsiella spp. and other Gram-negative bacteria Increased probability of β -lactam resistance.	Fluoroquinolone β -lact/ β -lactamase inhibitor (in order of preference).	May require parenteral therapy. Consider referral to a specialist or hospital.
III, Chronic Suppurative II, plus: Constant purulent sputum; some have bronchiectasis; FEV1 usually < 35% predicted; chronic oral steroid use; multiple risk factors.	As in group II, plus: P. Aeruginosa and multi-resistant Enterobacteriaceae.	Ambulatory - tailor treatment to airway pathogen; P. Aeruginosa is common (ciprofloxacin) Hospitalized - parenteral therapy usually required.	

General Recommendations for the Educator

- Patients need to be instructed to call or visit their treating physician if symptoms persist or worsen after 48 hrs in spite of patient-initiated treatment. Please instruct patients to notify their doctor, respiratory educator, or case manager within 2 days of filling any of their prescriptions for a COPD flare-up.
- Prescriptions for antibiotics and prednisone can be refilled twice each, as needed, for 1 year.
- To reduce the risk of antibiotic resistance, if more than one treatment is required over 3 months, the class of antibiotics should be changed on subsequent courses of therapy.
- Review with your patient some general measures to prevent future COPD exacerbations including smoking cessation, annual influenza vaccination, pneumococcal vaccination and appropriate use of inhaled daily medications.

1 O'Donnell DE, Hernandez P, Kaplan A, Aaron S., et al. CTS recommendations for management of COPD – 2008 update – highlights for primary care. Can Resp J 2008; 15(Suppl A):1A-8A.

2 Balter MS, La Forge J, Low DE, Mandell L., et al. Canadian guidelines for the management of acute exacerbation of chronic bronchitis. Can Respir J 2003; 10(Suppl B):3B-32B.

My COPD Action Plan _____ Date _____
Patient's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
(Name & Phone Number) (Name & Phone Number)

Prescriptions for COPD flare-up (Patient to take to pharmacist as needed for symptoms)

These prescriptions may be refilled two times each, as needed, for 1 year, to treat COPD flare-ups. Pharmacists may fax the doctor's office once any part of this prescription has been filled.

Patient's Name

Patient Identifier (e.g. DOB, PHN)

1. (A) If **the colour** of your sputum **CHANGES**, start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

(B) If the first antibiotic was taken for a flare-up in the **last 3 months**, use this different antibiotic instead:
Start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

AND / OR

2. If you are **MORE short of breath** than usual, start prednisone _____ Dose: _____ #pills: _____
How often: _____ for #days: _____

Once I start any of these medicines, **I will tell** my doctor, respiratory educator, or case manager within **2 days**.

Doctor's Name

Doctor's Fax

Doctor's Signature

License

Date

COPD ACTION PLAN (Patient's copy)

Why do I need this COPD Action Plan?

- Your Action Plan is a written contract between you and your health care team. It will tell you how to manage your COPD flare-ups. Use it along with any other information you get from your health care team about managing your COPD every day.
- Your Action Plan will help you and your caregivers to quickly recognize and act to treat your flare-ups. This will keep your lungs and you as healthy as possible.

How will I know that I am having a COPD “flare-up”?

- You will often see a change in your amount or colour of sputum and/or you may find that you are more short of breath than usual. Other symptoms can include coughing and wheezing more.
- Your flare-up Action Plan is to be used only for COPD flare-ups. Remember that there are other reasons you may get short of breath, such as when you have pneumonia, are anxious, or have heart problems.
- Before or during a flare-up you may notice changes in your mood, such as feeling down or anxious. Some people have low energy or feel tired before and during a COPD flare-up.

What triggers a “COPD flare-up”?

- A COPD flare-up can sometimes happen after you get a cold or flu, or when you are stressed and run down.
- Being exposed to air pollution and changes in the weather can also cause COPD flare-ups. To learn about the daily air quality in your area, visit Environment Canada's Air Quality Health Index (AQHI) website at www.ec.gc.ca/cas-aqhi/ and click on 'Your Local AQHI Conditions'. Ask your health care team about ways to avoid all possible triggers.

When should I use this COPD Action Plan?

- Your COPD Action Plan is used only for COPD flare-ups.
- Remember that there are other reasons you may get short of breath, such as when you have pneumonia, are anxious, or have heart problems. If you become more short of breath but don't have symptoms of COPD flare-up, see a doctor as soon as possible.

REMEMBER:

- Learn about your COPD from a respiratory educator, credible websites, such as www.lung.ca, and education programs.
- Take your regular daily medicine as prescribed.
- Don't wait more than 48 hours after the start of a COPD flare-up to take your antibiotic and/or prednisone medicines. See your pharmacist quickly to get your prescriptions for COPD flare-up.
- When you start an antibiotic, make sure that you finish the entire treatment.
- Quitting smoking and making sure that your vaccinations are up-to-date (for flu every year and for pneumonia at least once) will help prevent flare-ups.
- Be as active as possible. Inactivity leads to weakness, which may cause more flare-ups or flare-ups that are worse than usual. Ask your doctor about pulmonary rehabilitation and strategies to help reduce your shortness of breath and improve your quality of life.
- Follow up with your doctor within 2 days after using any of your prescriptions for a COPD flare-up.

MY NOTES AND QUESTIONS:

My COPD Action Plan _____ Date _____
Physician's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
(Name & Phone Number) (Name & Phone Number)

Prescriptions for COPD flare-up (Patient to fill as needed for symptoms)

These prescriptions may be refilled two times each, as needed, for 1 year, to treat COPD flare-ups. Pharmacists may fax the doctor's office once any part of this prescription has been filled.

Patient's Name

Patient Identifier (e.g. DOB, PHN)

1. (A) If **the colour** of your sputum **CHANGES**, start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

(B) If the first antibiotic was taken for a flare-up in the **last 3 months**, use this different antibiotic instead:
Start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

AND / OR

2. If you are **MORE short of breath** than usual, start prednisone _____ Dose: _____ #pills: _____
How often: _____ for #days: _____

Once I start any of these medicines, **I will tell** my doctor, respiratory educator, or case manager within **2 days**.

Doctor's Name

Doctor's Fax

Doctor's Signature

License

Date

COPD ACTION PLAN (Physician's copy)

Pharmacological Treatment

1. Short-acting (β_2 -agonists and anticholinergic) bronchodilators to treat wheeze and dyspnea. Continue all of your long acting bronchodilators or inhaled steroids as prescribed.
2. Prednisone (oral) → 30-50 mg once daily for 5-10 days for patients with moderate to severe COPD.
3. Antibiotic choice is prescribed based upon the presence of risk factors as below.
4. Severe AECOPD complicated by acute respiratory failure is a medical emergency. Consider consultation with an emergency specialist or respirologist.

Antibiotic Treatment Recommendations for Acute COPD Exacerbations^{1,2}

Group	Probable Pathogens	First Choice	Alternatives for Treatment Failure
I, Simple Smokers FEV1 > 50% ≤ 3 exacerbations per year	H. influenzae M. catarrhalis S. pneumoniae	Amoxicillin, 2nd or 3rd generation cephalosporin, doxycycline, extended spectrum macrolide, trimethoprim-sulfamethoxazole (in alphabetical order).	Fluoroquinolone β -lact/ β -lactamase inhibitor
II, Complicated, as per I, plus at least one of the following should be present: FEV1 < 50% predicted; ≥ 4 exacerbations/year; ischemic heart disease; use home oxygen or chronic oral steroids; antibiotic use in the past 3 months.	As in group I, plus: Klebsiella spp. and other Gram-negative bacteria Increased probability of β -lactam resistance.	Fluoroquinolone β -lact/ β -lactamase inhibitor (in order of preference).	May require parenteral therapy. Consider referral to a specialist or hospital.
III, Chronic Suppurative II, plus: Constant purulent sputum; some have bronchiectasis; FEV1 usually < 35% predicted; chronic oral steroid use; multiple risk factors.	As in group II, plus: P. Aeruginosa and multi-resistant Enterobacteriaceae.	Ambulatory - tailor treatment to airway pathogen; P. Aeruginosa is common (ciprofloxacin) Hospitalized - parenteral therapy usually required.	

General Recommendations for the Physician

- Patients need to be instructed to call or visit their treating physician if symptoms persist or worsen after 48 hrs in spite of patient-initiated treatment. Please instruct patients to notify their doctor, respiratory educator, or case manager within 2 days of filling any of their prescriptions for a COPD flare-up.
- Prescriptions for antibiotics and prednisone can be refilled twice each, as needed, for 1 year. Pharmacists may fax the doctor's office after any portion of the prescriptions for COPD flare-up has been filled.
- To reduce the risk of antibiotic resistance, if more than one treatment is required over 3 months, the class of antibiotics should be changed on subsequent courses of therapy.
- Review with your patient measures to prevent future COPD exacerbations including smoking cessation, annual influenza vaccination, pneumococcal vaccination and appropriate use of inhaled daily medications.
- Consider referral to a local respiratory educator and pulmonary rehabilitation program if available.

1 O'Donnell DE, Hernandez P, Kaplan A, Aaron S., et al. CTS recommendations for management of COPD – 2008 update – highlights for primary care. Can Resp J 2008; 15(Suppl A):1A-8A.

2 Balter MS, La Forge J, Low DE, Mandell L., et al. Canadian guidelines for the management of acute exacerbation of chronic bronchitis. Can Respir J 2003; 10(Suppl B):3B-32B.

My COPD Action Plan _____ Date _____
Pharmacist's Copy (Patient's Name)

This is to tell me how I will take care of myself when I have a COPD flare-up.

My goals are _____

My support contacts are _____ and _____
(Name & Phone Number) (Name & Phone Number)

Prescriptions for COPD flare-up (Patient to fill as needed for symptoms)

These prescriptions may be refilled two times each, as needed, for 1 year, to treat COPD flare-ups. Pharmacists may fax the doctor's office once any part of this prescription has been filled.

Patient's Name

Patient Identifier (e.g. DOB, PHN)

1. (A) If **the colour** of your sputum **CHANGES**, start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

(B) If the first antibiotic was taken for a flare-up in the **last 3 months**, use this different antibiotic instead:
Start antibiotic _____ Dose: _____ #pills: _____
How often _____ for #days: _____

AND / OR

2. If you are **MORE short of breath** than usual, start prednisone _____ Dose: _____ #pills: _____
How often: _____ for #days: _____

Once I start any of these medicines, **I will tell** my doctor, respiratory educator, or case manager within **2 days**.

Doctor's Name

Doctor's Fax

Doctor's Signature

License

Date

COPD ACTION PLAN (Pharmacist's copy)

Pharmacological Treatment

1. Short-acting (beta₂-agonists and anticholinergic) bronchodilators to treat wheeze and dyspnea. Continue all of your long acting bronchodilators or inhaled steroids as prescribed.
2. Prednisone (oral) → 30-50 mg once daily for 5-10 days for patients with moderate to severe COPD.
3. Antibiotic choice is prescribed based upon the presence of risk factors as below.
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Group	Probable Pathogens	First Choice	Alternatives for Treatment Failure
I, Simple Smokers FEV1 > 50% ≤ 3 exacerbations per year	H. influenzae M. catarrhalis S. pneumoniae	Amoxicillin, 2nd or 3rd generation cephalosporin, doxycycline, extended spectrum macrolide, trimethoprim-sulfamethoxazole (in alphabetical order).	Fluoroquinolone β-lact/ β-lactamase inhibitor
II, Complicated, as per I, plus at least one of the following should be present: FEV1 < 50% predicted; ≥ 4 exacerbations/year; ischemic heart disease; use home oxygen or chronic oral steroids; antibiotic use in the past 3 months.	As in group I, plus: Klebsiella spp. and other Gram-negative bacteria Increased probability of β-lactam resistance.	Fluoroquinolone β-lact/ β-lactamase inhibitor (in order of preference).	May require parenteral therapy. Consider referral to a specialist or hospital.
III, Chronic Suppurative II, plus: Constant purulent sputum; some have bronchiectasis; FEV1 usually < 35% predicted; chronic oral steroid use; multiple risk factors.	As in group II, plus: P. Aeruginosa and multi-resistant Enterobacteriaceae.	Ambulatory - tailor treatment to airway pathogen; P. Aeruginosa is common (ciprofloxacin) Hospitalized - parenteral therapy usually required.	

General Recommendations for the Pharmacist

- Patients need to be instructed to call or visit their treating physician if symptoms persist or worsen after 48 hrs in spite of patient-initiated treatment. Please instruct patients to notify their doctor, respiratory educator, or case manager within 2 days of filling any of their prescriptions for a COPD flare-up.
- Prescriptions for antibiotics and prednisone can be refilled twice each, as needed, for 1 year. Even if you have any concerns to discuss with the doctor, please fill at least the minimum quantity of the appropriate prescription based on the patient's symptoms.
- To reduce the risk of antibiotic resistance, if more than one treatment is required over 3 months, the class of antibiotics should be changed on subsequent courses of therapy.
- Review with your patient some general measures to prevent future COPD exacerbations including smoking cessation, annual influenza vaccination, pneumococcal vaccination and appropriate use of inhaled daily medications.

1 O'Donnell DE, Hernandez P, Kaplan A, Aaron S., et al. CTS recommendations for management of COPD – 2008 update – highlights for primary care. Can Resp J 2008; 15(Suppl A):1A-8A.

2 Balter MS, La Forge J, Low DE, Mandell L., et al. Canadian guidelines for the management of acute exacerbation of chronic bronchitis. Can Respir J 2003; 10(Suppl B):3B-32B.

Box 5-2a. Usual features of asthma, COPD and asthma-COPD overlap

Box 5-2b. Features that if present favor asthma or COPD

Feature	Asthma	COPD	Asthma-COPD overlap	More likely to be asthma if several of ...*	More likely to be COPD if several of ...*
<i>Age of onset</i>	Usually childhood onset but can commence at any age.	Usually > 40 years of age	Usually age ≥40 years, but may have had symptoms in childhood or early adulthood	<input type="checkbox"/> Onset before age 20 years	<input type="checkbox"/> Onset after age 40 years
<i>Pattern of respiratory symptoms</i>	Symptoms may vary over time (day to day, or over longer periods), often triggered by exercise, emotions including laughter, dust or exposure to allergens	Chronic usually continuous symptoms, particularly during exercise, with 'better' and 'worse' days	Respiratory symptoms including exertional dyspnea are persistent but variability may be prominent	<input type="checkbox"/> Variation in symptoms over minutes, hours or days <input type="checkbox"/> Symptoms worse during the night or early morning <input type="checkbox"/> Symptoms triggered by exercise, emotions including laughter, dust or exposure to allergens	<input type="checkbox"/> Persistence of symptoms despite treatment <input type="checkbox"/> Good and bad days but always daily symptoms and exertional dyspnea <input type="checkbox"/> Chronic cough and sputum preceded onset of dyspnea, unrelated to triggers
<i>Lung function</i>	Current and/or historical variable airflow limitation, e.g. BD reversibility, AHR	FEV ₁ may be improved by therapy, but post-BD FEV ₁ /FVC < 0.7 persists	Airflow limitation not fully reversible, but often with current or historical variability	<input type="checkbox"/> Record of variable airflow limitation (spirometry, peak flow)	<input type="checkbox"/> Record of persistent airflow limitation (post-bronchodilator FEV ₁ /FVC < 0.7)
<i>Lung function between symptoms</i>	May be normal between symptoms	Persistent airflow limitation	Persistent airflow limitation	<input type="checkbox"/> Lung function normal between symptoms	<input type="checkbox"/> Lung function abnormal between symptoms
<i>Past history or family history</i>	Many patients have allergies and a personal history of asthma in childhood, and/or family history of asthma	History of exposure to noxious particles and gases (mainly tobacco smoking and biomass fuels)	Frequently a history of doctor-diagnosed asthma (current or previous), allergies and a family history of asthma, and/or a history of noxious exposures	<input type="checkbox"/> Previous doctor diagnosis of asthma <input type="checkbox"/> Family history of asthma, and other allergic conditions (allergic rhinitis or eczema)	<input type="checkbox"/> Previous doctor diagnosis of COPD, chronic bronchitis or emphysema <input type="checkbox"/> Heavy exposure to a risk factor: tobacco smoke, biomass fuels
<i>Time course</i>	Often improves spontaneously or with treatment, but may result in fixed airflow limitation	Generally, slowly progressive over years despite treatment	Symptoms are partly but significantly reduced by treatment. Progression is usual and treatment needs are high	<input type="checkbox"/> No worsening of symptoms over time. Symptoms vary either seasonally, or from year to year <input type="checkbox"/> May improve spontaneously or have an immediate response to BD or to ICS over weeks	<input type="checkbox"/> Symptoms slowly worsening over time (progressive course over years) <input type="checkbox"/> Rapid-acting bronchodilator treatment provides only limited relief.
<i>Chest X-ray</i>	Usually normal	Severe hyperinflation & other changes of COPD	Similar to COPD	<input type="checkbox"/> Normal	<input type="checkbox"/> Severe hyperinflation
<i>Exacerbations</i>	Exacerbations occur, but the risk of exacerbations can be considerably reduced by treatment	Exacerbations can be reduced by treatment. If present, comorbidities contribute to impairment	Exacerbations may be more common than in COPD but are reduced by treatment. Comorbidities can contribute to impairment	*Syndromic diagnosis of airways disease: how to use Box 5-2b <i>Shaded columns list features that, <u>when present</u>, best identify patients with typical asthma and COPD. For a patient, count the number of check boxes in each column. If three or more boxes are checked for either asthma or COPD, the patient is likely to have that disease. If there are similar numbers of checked boxes in each column, the diagnosis of ACO should be considered. See Step 2 for more details.</i>	
<i>Airway inflammation</i>	Eosinophils and/or neutrophils	Neutrophils ± eosinophils in sputum, lymphocytes in airways, may have systemic inflammation	Eosinophils and/or neutrophils in sputum.		

Section 5: PCAP-Related Research

Primary Care Asthma Program

Related Research Articles

1. The Burden of Asthma: Can it be Eased?

Andrea Gershon, Chengning Wang, Lisa Cicutto and Teresa To (Healthcare Quarterly Vol 10 No 1. 2007) ICES Reports

<http://www.longwoods.com/content/18644/print>

2. Can A Community Evidence-based Asthma Care Program Improve Clinical Outcomes? A Longitudinal Study

Teresa To et al. (Medical Care • Volume 46, Number 12, December 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/19300316>

3. Examining intra-rater and inter-rater response agreement: A medical chart abstraction study of a community-based asthma care program

Teresa To et al. (BMC Medical Research Methodology 2008, 8:29)

<http://www.biomedcentral.com/1471-2288/8/29>

4. How much do health care providers value a community-based asthma care program? – a survey to collect their opinions on the utilities of and barriers to its uptake

Teresa To et al. (BMC Health Services Research 2009, 9:77)

<http://www.biomedcentral.com/1472-6963/9/77>

5. Is it feasible to use indicators to collect data on asthma care performance in the primary care setting? A feasibility study

Teresa To et al. (The Primary Care Respiratory Journal)

http://www.thepcrj.org/journ/view_article.php?article_id=850

6. Moving Population and Public Health Knowledge Into Action

Nancy Garvey. Ontario's Asthma Plan of Action: Bridging the gap between knowledge and practice

<http://www.cihr-irsc.gc.ca/e/30751.html#a>

Primary Care Asthma Program

Related Research Articles

7. **Primary care asthma program puts evidence into practice, reducing symptoms and visits to emergency departments**
(Ontario Health Quality Council, 2009 Report on Ontario's Health System)

<http://www.hqontario.ca/portals/0/Documents/pr/qmonitor-full-report-2009-en.pdf>
<http://www.on.lung.ca/document.doc?id=776>

8. **Asthma in Ontario: Ontario's Asthma Plan of Action**

<https://10012.thankyou4caring.org/document.doc?id=772>

Section 6: Resource Links

Primary Care Asthma Program

Useful links and resources:

Asthma and Allergies:
1. AllerGen Canada http://www.allergen-nce.ca/
2. Allergy Asthma & Immunology Society of Ontario http://allergyasthma.on.ca/
3. Food Allergy Canada: http://www.foodallergycanada.ca
1. Asthma Society of Canada: http://www.asthma.ca
2. Canadian Asthma Consensus Guidelines: http://www.respiratoryguidelines.ca/guideline/asthma
4. Global Initiative for Asthma (GINA): http://www.ginasthma.org/
5. Ontario Physical Health and Education Association (OPHEA): http://www.ophea.net/
6. Work-Related Asthma: https://lunghealth.ca/lung-disease/a-to-z/work-related-asthma/
7. Asthma Friendly Schools (Ryan's Law) http://www.ryanslaw.ca
8. Ontario Asthma Surveillance Information System (OASIS) http://lab.research.sickkids.ca/oasis/
9. Find an asthma program in Canada https://www.lung.ca/lung-health/get-help
Air Quality:
1. Air Quality Health Index – Environment Canada http://www.ec.gc.ca/cas-aghi/
COPD:
1. Canadian COPD Consensus Guidelines: http://www.respiratoryguidelines.ca/guideline/chronic-obstructive-pulmonary-disease
2. Find a COPD program in Canada https://www.lung.ca/lung-health/get-help
3. Global Initiative for Chronic Obstructive Lung Disease (GOLD): http://www.goldcopd.org/
4. Living Well With COPD http://www.livingwellwithcopd.com/
Spirometry:
1. American Thoracic Society https://www.thoracic.org/statements/pulmonary-function.php
Smoking Cessation:
1. CAMH STOP program: https://www.nicotinedependenceclinic.com/English/stop/Pages/Home.aspx
2. Ontario Tobacco Research Unit (OTRU) http://otru.org/

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Continuing Education:
1. CAMH TEACH program (Smoking cessation): https://www.nicotinedependenceclinic.com/English/teach/Pages/Home.aspx
2. Canadian Network For Respiratory Care (CRE certification course) http://cnrchome.net/
3. Provider Education Program (PEP) for Health Care Professionals: http://hcp.lunghealth.ca
4. RespTrec (Respiratory Education) and SpiroTrec (Spirometry training) http://www.resptrec.org
Ontario Organizations:
1. Association of Family Health Teams of Ontario (AFHTO) http://www.afhto.ca/
2. Alliance for Healthier Communities: https://www.allianceon.org/
3. Ministry of Health (MOH): http://www.health.gov.on.ca/en/
4. Ontario Health: https://www.ontariohealth.ca/
5. Lung Health Foundation: http://www.lunghealth.ca
Professional Organizations:
1. Canadian Network for Respiratory Care (CNRC) http://cnrchome.net/
2. College of Family Physicians and Surgeons: http://www.cfpc.ca/Home/
3. Ontario Respiratory Care Society: https://hcp.lunghealth.ca/respiratory-care-society/
4. Ontario Thoracic Society: https://hcp.lunghealth.ca/ontario-thoracic-society/
5. Registered Nurses Association of Ontario (RNAO): http://rnao.ca/
6. Respiratory Therapy Society of Ontario http://www.rtso.ca/