



# Primary Care Asthma Program (PCAP)

PROGRAM MANUAL

Version 2021

# 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 (MOH), as one of the initiatives of the Asthma Plan of Action (APA), now called the Asthma and COPD Program. 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 ( $p < 0.0001$ ).<sup>1</sup>

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)

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<sup>1</sup> 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 12 PCAP sites funded by the MOHLTC AP in Ontario.**

PCAP is part of Ontario's Asthma and COPD Program, an integrated strategy of thirteen initiatives based on the Canadian Asthma Consensus Guidelines<sup>2,3</sup> and the Canadian Thoracic Society Guidelines for occupational asthma.<sup>4</sup> 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 MOH funded PCAP sites and non-MOH 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.

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<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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 111 sites across Ontario  
(47 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)
- Emergency Department Asthma Care Pathway (EDACP) for adult and pediatric population
- Asthma Surveillance and Asthma Performance Indicators (PC-API)

## 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 <https://hcp.lunghealth.ca/clinical-programs/> 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 mandatory 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 5<sup>th</sup> 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

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# PCAP Patient Process Map—A Guide For Educators

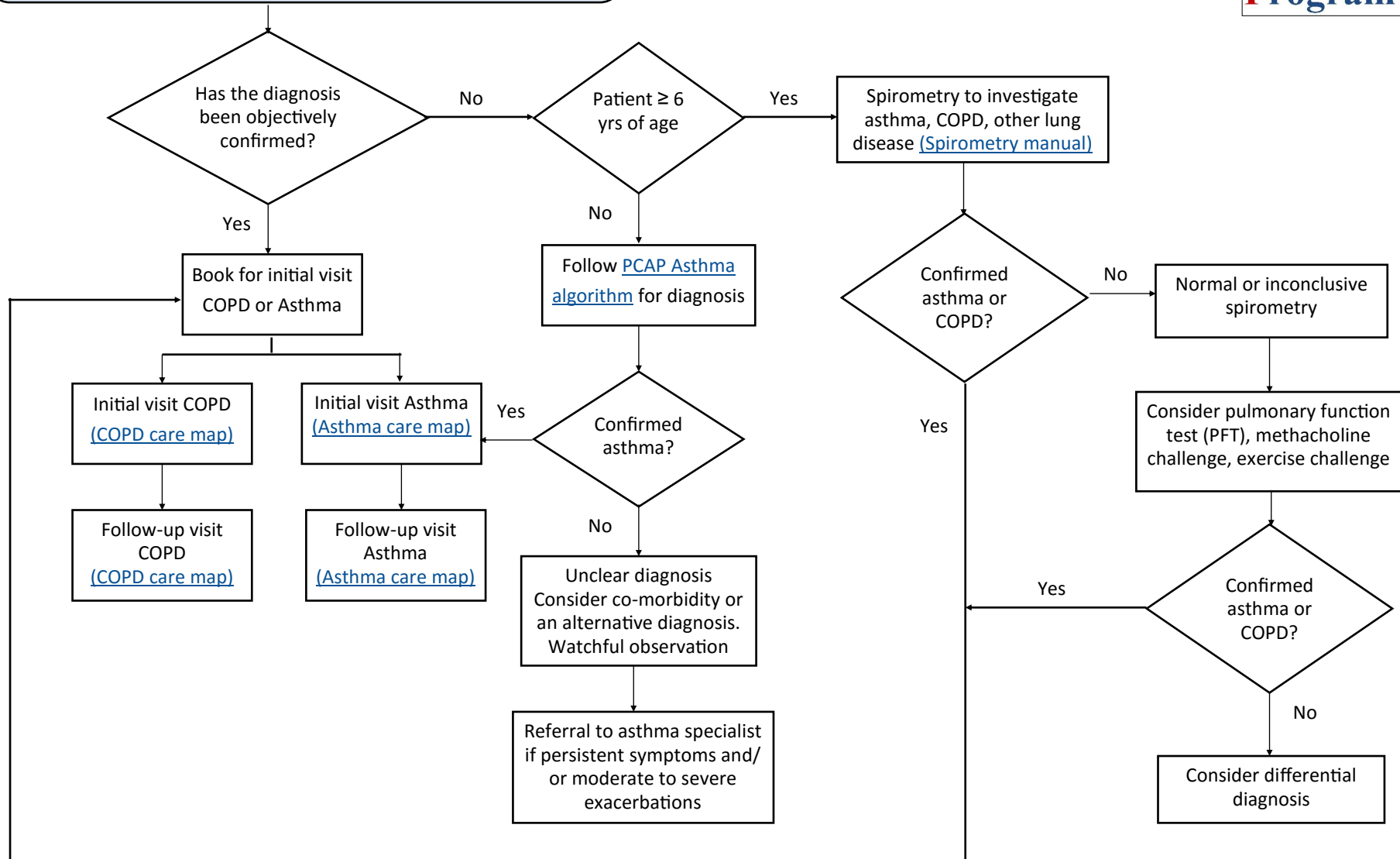
## Referral to certified respiratory educator (CRE) for:

- 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](http://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](http://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](http://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:

# Primary Care Asthma Program

## Space and Design Checklist

The following section has been developed to provide some guidance on 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 (follow requirements related to infection control practices and policies)
- ❑ Ergonomically designed environment
- ❑ Sufficient space for patient and family/caregivers. Allow for more space according to infection control practices and policies set in place
- ❑ Access to Computer/phone/fax and or space to lock/keep secure patient records
- ❑ Access to educational materials
- ❑ Efficient patient flow
- ❑ Flexibility for different activities (spirometry testing, education, smoking cessation, virtual visit)
- ❑ Multidisciplinary environment (access to referral process)
- ❑ Safe learning environment for both staff and patient
- ❑ Possible requirements for more space depending if you include a community pulmonary rehabilitation or maintenance exercise program within your primary care site
- ❑ At least another room during pandemic times to allow for settle time requirements with spirometry testing

## PCAP Chart Audit Tool

### **Introduction:**

Along with government legislation in documentation of personal health records, providers are accountable to their licensing colleges as well as their employer. This chart audit tool has been designed for the respiratory educators delivering the Primary Care Asthma Program (PCAP) and outlines the minimum documentation expectations. This tool is best used in conjunction with the PCAP Best Practice Checklist. The purpose of this tool is to:

- a) Promote ongoing compliance with College documentation standards
- b) Support continuous quality improvement initiatives and should not be punitive in nature

This tool has been created as an e-fillable PDF document. In order to ensure that results are informative, please follow the instructions below:

- 1. Ensure responses are completed as posed (for example, Yes/No/not applicable) and insert any comments only within the comments section at the bottom of the page
- 2. Once chart audits are completed, results may be collated electronically or manually, and be reviewed by a peer or supervisor.

		<b>Asthma</b>	<b>COPD</b>
1	Which care map tool was used for this encounter?		

	<b>Documentation Standards</b>	<b>Yes</b>	<b>No</b>	<b>Not applicable</b>
2	The PCAP care map tool (asthma and/or COPD) is documented in the chart			
3	Each encounter with the PCAP educator is documented with the accurate date, time and location specified			
4	An order or medical directive is obtained for pre/post bronchodilator spirometry			
5	If applicable, action plan is documented with date, time, patient name and primary care provider specified			
6	All respiratory medications are clearly and accurately listed with the medication name, dose, frequency			

	and route within the patient encounter			
7	Each encounter has a reason for visit documented			
8	Each encounter has documentation of the review of possible contraindications for performing spirometry and any side effects to medication were identified (if applicable). Any patient refusals for offered services (i.e spirometry) were documented with stated reason.			
9	If spirometry was done, results were brought to the attention of the primary care provider (this could include simply stating in the documentation that Spirometry was performed and the report was provided/left for the Primary Care Provider for interpretation).			
10	Each encounter has a documented plan for the patient			
11	Each encounter with the PCAP educator is signed with credentials			
12	In your opinion, the encounter included appropriate referrals			
13	In your opinion, each encounter with the PCAP educator was documented objectively vs. subjectively*			
14	In your opinion, the encounter met the college standards which the educator belongs to			
Comments:				

\*Examples of objective vs. subjective documentation

Objective	Subjective
"the patient was crying"	"the patient was sad"
"the patient complained of shortness of breath on exertion and was dyspneic with movement"	"the patient appeared uncomfortable"
"the treatment was not performed because..." list the facts	"this treatment was not in the best interest of the patient"
"Writer informed Dr. Smith by telephone of the changes to the patient's status as charted in the flow sheet"	"The doctor is aware"

(Reference: <http://www.crto.on.ca/pdf/PPG/Documentation.pdf>)



## 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"/>																																																														
<b>Family History of Lung Disease</b> <input type="checkbox"/> N/A		<b>Risk Factors for Exacerbations</b> <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)																																																														
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allergy seafood</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Fumes</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Fungi/Mould</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Gas stove</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Grasses</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>High humidity</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Medications</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Outdoor pollution</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input 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type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cockroaches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cold air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dogs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dust/Dust mites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emotion/Stress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feather bedding/Pillows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fireplace/Woodstove	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Food allergy nut	<input type="checkbox"/>	<input 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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"/> Retired <input type="checkbox"/> Modified duties <input type="checkbox"/> Off work due to respiratory health <input type="checkbox"/> Other _____ Current Employment _____ Did your Asthma symptoms start at work? <input type="checkbox"/> Yes <input type="checkbox"/> No Do/ did your Asthma symptoms worsen at work? <input type="checkbox"/> Yes <input type="checkbox"/> No If the response options are YES consider completing the WRASQ(L) questionnaire Complete WRASQ(L)© today? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																													
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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

Glaucoma/Cataracts

Adenoid hypertrophy

Immune deficiency

Allergic bronchoplumunary aspergillosis

Dysfunctional breathing  
(Laryngeal Dysfunction and/or Hyperventilation Syndrome)

Allergic rhinoconjunctivitis

MI

Anaphylaxis

Osteopenia/ Osteoporosis

ASA sensitivity

Panic disorders

Cancer

Respiratory failure

COPD

Rhinitis/ Nasal polyposis/ Sinusitis

Cor Pulmonale/ heart failure

Sleep apnea

Cerebrovascular accident (CVA)

Swallowing dysfunction/Dysphagia

Eczema/ Hives/ Urticaria

Other cardiovascular disease

Eosinophilia

Eosinophilic granulomatosis with polyangiitis (EGPA)  
(Churg-Strauss Syndrome)

Other

Gastroesophageal reflux disease (GERD)

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 is ≤ 2 days/week

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 is ≤ 2

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

Yes

No

%

Control=≤2-3%

FEV<sub>1</sub> or PEF ≥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 2021 CTS Guideline - a focused update on the management of very mild and mild asthma  
Any ONE element NOT in control- OVERALL NOT in control.

Spirometry

LLN

PRE

POST

Actual

Actual

% Pred

Actual

% Pred

FEV<sub>1</sub>

Litres (L)

Litres (L)

%

Litres (L)

%

FVC

Litres (L)

Litres (L)

%

Litres (L)

%

PEF

Litres (L)/Sec

Litres (L)/Sec

%

Litres (L)/Sec

%

FEV<sub>1</sub> / FVC

Peak Flow Meter

Actual

Predicted PEF

Litres (L)/Min

Personal Best PEF

Litres (L)/Min

Actual PEF

Litres (L)/Min

PEF % pred

% pred

PEF % Personal Best

% PB

Methacholine

Actual

PC<sub>20</sub> or PD<sub>20</sub>

mg/mL or mcg

Additional Notes

Asthma Action Plan

N/A

Written asthma action plan provided

Yes

No

YYYY/MM/DD

Written asthma action plan revised

YYYY/MM/DD

Asthma action plan reviewed & not changed

YYYY/MM/DD

Yellow or red zone of action plan followed, since last vist

# 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

lung health starts now

lung health foundation

Lung Health Information Line 1-888-344-LUNG (5864)

Page 4

Client Name <input style="width: 250px;" type="text"/>		Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																																									
<b>Immunizations</b> <input type="checkbox"/> N/A		<b>Referrals</b> <input type="checkbox"/> N/A																																																																									
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Mini Asthma Quality of Life questionnaire score	<input style="width: 50px;" type="text" value="#"/>																																																																										
<b>Follow-up Visit Scheduled in</b> (time frame from current visit) <input type="checkbox"/> N/A																																																																											
<input type="checkbox"/> 1 Week <input type="checkbox"/> 1 Month <input type="checkbox"/> 4-6 Months <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"																																																																											
Other <input style="width: 400px;" type="text"/>																																																																											
<b>Additional Notes / Plan</b>																																																																											

<div>Asthma Care Map for Primary Care</div> <div>Follow -Up Assessment</div>							<div>N/A</div>		<div>Demographics</div>			<div>N/A</div>							
<div>Date</div> <div>YYYY/MM/DD</div>		<div>Asthma and COPD overlap</div> <div><input type="checkbox"/> Yes <input type="checkbox"/> No</div>					<div>Client Name (please print)</div>				<div>Date of Birth</div> <div>YYYY/MM/DD</div>								
<div>Visit Type</div> <div><input type="checkbox"/> Scheduled <input type="checkbox"/> Unscheduled</div> <div><input type="checkbox"/> Telephone f/u <input type="checkbox"/> Urgent (Acutely Ill)</div>							<div>Client Identifier Type</div> <div>e.g. Jurisdictional Health Number</div>					<div>Client Identifier Assigning Authority</div> <div>e.g. OHIP</div>							
<div>Anthropometric Vitals</div>												<div>N/A</div>							
<div>Height</div> <div>cm</div>		<div>Weight</div> <div>kg</div>		<div>BMI</div> <div></div>															
<div>Asthma Diagnosis</div>														<div>N/A</div>					
<div><input type="checkbox"/> Unknown <input type="checkbox"/> Confirmed <div>YYYY/MM/DD</div> <div>Date Confirmed/Excluded</div> (If uncertain indicate "unknown" in the provided field) <input type="checkbox"/> Spirometry or PEF attached</div>																			
<div><input type="checkbox"/> Suspected <input type="checkbox"/> Excluded <div>#</div> <div>Age asthma was confirmed</div></div>																			
<div>Method used to confirm Asthma Diagnosis</div> <div>(for individuals 6 years and older and younger individuals able to do spirometry)</div> <div><input type="checkbox"/> spirometry showing reversible airflow obstruction</div> <div><input type="checkbox"/> PEF variability</div> <div><input type="checkbox"/> MCT or exercise challenge</div>								<div>Method used to confirm Asthma Diagnosis</div> <div>(for individuals 1-5 years of age NOT able to do spirometry)</div> <div><input type="checkbox"/> documented airflow obstruction</div> <div><input type="checkbox"/> documented reversibility of airflow obstruction</div> <div><input type="checkbox"/> no clinical evidence of an alternative diagnosis</div>											
<div>Medications</div>														<div>N/A</div>					
<div>Respiratory Medications</div>		<div>Drug Name</div>	<div>Strength</div>	<div>Unit of Measure</div>	<div>Dose</div>	<div>Route</div>	<div>Rx Date</div>	<div>Adherence issues known or suspected</div>		<div>Patient has a spacing device</div> <div>Yes <input type="checkbox"/> No <input type="checkbox"/></div>									
<div>Reliever</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>	<div>Does at least one prescribed medication allow for a spacing device to be used?</div> <div><input type="checkbox"/> <input type="checkbox"/></div>									
<div>Inhaled Corticosteriod (ICS)</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>ICS/LABA combination</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Long Acting Beta-Agonists (LABA)*</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>	<div>Unfilled prescriptions.</div> <div>In the last 6 months has the patient been prescribed any asthma medications he/she has not obtained.</div> <div><input type="checkbox"/> <input type="checkbox"/></div>									
<div>Leukotriene receptor antagonist (LTRA)</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>	<div>Past Medications</div>									
<div>Reliever/Controller</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Prednisone</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Biologics</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Nicotine product</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Medications prescribed at this visit</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>	<div>Yellow Zone Medications</div>									
<div>Long acting muscarinic antagonists (LAMA)</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>Other</div>								<div>Yes</div> <div><input type="checkbox"/></div>	<div>No</div> <div><input type="checkbox"/></div>										
<div>* Should not be used as a standalone</div>																			
<div>Risk Factors for Exacerbations</div>																<div>N/A</div>			
<div>Risk factors changed since last visit?</div> <div><input type="checkbox"/> Yes <input type="checkbox"/> No</div>																<div>If yes, please specify:</div> <div></div>			
<div>Smoking</div>																		<div>N/A</div>	
<div>Smoking Status</div> <div><input type="checkbox"/> Non-Smoker <input type="checkbox"/> Ex-Smoker <input type="checkbox"/> Current Smoker</div>								<div>Passive Smoking Risk</div> <div><input type="checkbox"/> Yes <input type="checkbox"/> No</div>											
<div>Quit Date</div> <div>YYYY/MM/DD</div>								<div>Other</div> <div><input type="checkbox"/> e-cigarette/vaping <input type="checkbox"/> Cannabis use <input type="checkbox"/> Use of other tobacco</div> <div><input type="checkbox"/> Inhalation vapor use <input type="checkbox"/> Other inhaled substances</div>											
<div>Quit Duration</div> <div>When was the last time you smoked a cigarette, even a puff?</div> <div><input type="checkbox"/> &gt; 6 months <input type="checkbox"/> 1-6 months <input type="checkbox"/> &lt; 1 month</div>								<div>Stages of Change Addressed</div> <div><input type="checkbox"/> pre-contemplation <input type="checkbox"/> contemplation</div> <div><input type="checkbox"/> preparation <input type="checkbox"/> action <input type="checkbox"/> maintenance</div>						<div>Smoking Cessation Quit Intentions</div> <div>Are you planning to quit smoking?</div> <div><input type="checkbox"/> within a month</div> <div><input type="checkbox"/> within 6 months</div> <div><input type="checkbox"/> beyond 6 months</div> <div><input type="checkbox"/> not planning to quit</div>					
<div>Pack Years</div> <div>Cig Smoked/day</div> <div></div> <div>/ 20 x</div> <div>Years smoked</div> <div></div> <div>=</div> <div>Pack years</div> <div></div>								<div>Smoking Cessation Addressed</div> <div><input type="checkbox"/> Ask <input type="checkbox"/> Advise <input type="checkbox"/> Arrange</div>											

Client Name <input style="width: 250px;" type="text"/>				Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																																																																																			
<b>Asthma Severity</b> <input type="checkbox"/> N/A				<b>Typical Symptoms</b> <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"/>																																																																																																																							
Visit(s) to a specialist for asthma <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">No</td> <td style="width: 10%;">Unknown</td> <td style="width: 10%;">&lt; 1 year</td> <td colspan="3"></td> </tr> <tr> <td>Respirologist</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="3"></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> <td colspan="3"></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> <td colspan="3"></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> <td colspan="3"></td> </tr> </table>									Yes	No	Unknown	< 1 year				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"/>																																																																											
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<b>Triggers and Exposures</b> <input type="checkbox"/> Unchanged from last visit <input type="checkbox"/> N/A																																																																																																																							
Category <small>If yes select patient reported triggers &amp; exposures from list.</small>	Triggers <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			Exposures <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown																																																																																																																			
Birds	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																	
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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"/>																																																																																																																	
Feather bedding/Pillows	<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 nut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																	
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Gas stove	<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"/>																																																																																																																	
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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"/>																																																																																																																	
Trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																	
Other <input style="width: 80px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																	
<b>Breath Sounds</b> <input type="checkbox"/> N/A																																																																																																																							
Any new symptoms since last visit (e.g., chest pain)? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please specify: <input style="width: 150px;" type="text"/>																																																																																																																							
<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: 150px;" type="text"/>																																																																																																																							
<b>Allergy History</b> <input type="checkbox"/> N/A																																																																																																																							
Allergic Condition <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, select from the list of possible allergic conditions (Self/Parent report) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">No</td> <td style="width: 10%;">Unknown</td> <td colspan="4"></td> </tr> <tr> <td>Anaphylaxis</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td>Bronchospasm</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td>Conjunctivitis</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td>Eczema</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td>Rhinitis</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td colspan="4"></td> </tr> </table>									Yes	No	Unknown					Anaphylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Bronchospasm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Conjunctivitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Eczema	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					Rhinitis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																				
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Allergic Skin Prick Test <input type="checkbox"/> Negative <input type="checkbox"/> Positive <input type="checkbox"/> Not done <input type="checkbox"/> Self/Parent-report Date <input style="width: 80px;" type="text"/>																																																																																																																							
If positive identify positive response to possible allergens listed <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">No</td> <td colspan="5"></td> </tr> <tr><td>Cat</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Cockroaches</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Dog</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Dust/Dust mites</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Feathers</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Fungi/Mould</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Grasses</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Pollen</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Ragweed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Trees</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Occupational sensitizers</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td colspan="5"></td></tr> <tr><td>Other pets</td><td colspan="7"><input style="width: 150px;" type="text"/></td></tr> <tr><td>Other</td><td colspan="7"><input style="width: 150px;" type="text"/></td></tr> </table>									Yes	No						Cat	<input type="checkbox"/>	<input type="checkbox"/>						Cockroaches	<input type="checkbox"/>	<input type="checkbox"/>						Dog	<input type="checkbox"/>	<input type="checkbox"/>						Dust/Dust mites	<input type="checkbox"/>	<input type="checkbox"/>						Feathers	<input type="checkbox"/>	<input type="checkbox"/>						Fungi/Mould	<input type="checkbox"/>	<input type="checkbox"/>						Grasses	<input type="checkbox"/>	<input type="checkbox"/>						Pollen	<input type="checkbox"/>	<input type="checkbox"/>						Ragweed	<input type="checkbox"/>	<input type="checkbox"/>						Trees	<input type="checkbox"/>	<input type="checkbox"/>						Occupational sensitizers	<input type="checkbox"/>	<input type="checkbox"/>						Other pets	<input style="width: 150px;" type="text"/>							Other	<input style="width: 150px;" type="text"/>						
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<b>Occupational History</b> <input type="checkbox"/> N/A																																																																																																																							
<input type="checkbox"/> Unchanged from last visit 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"/> Retired <input type="checkbox"/> Modified duties <input type="checkbox"/> Off work due to respiratory health <input type="checkbox"/> Other _____ Current Employment _____ Did your Asthma symptoms start at work? <input type="checkbox"/> Yes <input type="checkbox"/> No Do/did your Asthma symptoms worsen at work? <input type="checkbox"/> Yes <input type="checkbox"/> No If the response options are YES consider completing the WRASQ(L) questionnaire Complete WRASQ(L)© today? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																							



Client Name

Jurisdictional Health Number

Environmental Controls

N/A

Environmental Control Measures in Place

Yes

No

Suggested

Yes

No

Suggested

Air conditioning in summer

Humidifier all year round (desired target < 50%)

Central or hepa-filter vacuum

Non-feather blanket

Dehumidifier (desired target < 50%)

Pets kept out of bedrooms

Dust mite mattress cover

Regular furnace filter change

Dust mite pillow cover

Remove pets from home

Removed carpets

Wash linens in hot water

Heat exchanger

Wash pets once a week

Heating gas/Oil

Wear mask or respirator as needed

Heating electric/Radiator

Other

Alternative to wood heat (fireplaces, wood stoves, furnaces) or mitigation strategies

Comorbidities

N/A

Asthma Control

N/A

Comorbid Conditions

Yes

No

Unchanged from last visit

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

Yes

No

Unknown

A-1 Antitrypsin deficiency

Adenoid hypertrophy

Allergic bronchopulmonary aspergillosis

Allergic rhinoconjunctivitis

Anaphylaxis

ASA sensitivity

Cancer

COPD

Cor Pulmonale/ heart failure

Cerebrovascular accident (CVA)

Eczema/ Hives/ Urticaria

Eosinophilia

Eosinophilic granulomatosis with polyangiitis (EGPA) (Churg-Strauss Syndrome)

Gastroesophageal reflux disease (GERD)

Glaucoma/Cataracts

Immune deficiency

Dysfunctional breathing (Laryngeal Dysfunction and/or Hyperventilation Syndrome)

MI

Osteopenia/ Osteoporosis

Panic disorders

Respiratory failure

Rhinitis/ Nasal polypsis/ Sinusitis

Sleep apnea

Swallowing dysfunction/Dysphagia

Other cardiovascular disease

Other

(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 is  $\leq 2$

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 is  $\leq 2$

Sputum Eosinophils

(Measured Yes/No: if yes, %)

Yes

No

%

Control=<2-3%

FEV<sub>1</sub> 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 2021 CTS Guideline - a focused update on the management of very mild and mild asthma

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

Pulmonary Function Test

N/A

Spirometry	LNN	PRE		POST	
	Actual	Actual	% Pred	Actual	% Pred
FEV <sub>1</sub>	Litres (L)	Litres (L)	%	Litres (L)	%
FVC	Litres (L)	Litres (L)	%	Litres (L)	%
PEF	Litres (L)/Sec	Litres (L)/Sec	%	Litres (L)/Sec	%
FEV <sub>1</sub> / FVC					

Peak Flow Meter	Actual	Methacholine	Actual
Predicted PEF	Litres (L)/Min	PC <sub>20</sub> or PD <sub>20</sub>	mg/mL or mcg
Personal Best PEF	Litres (L)/Min	Additional Notes	
Actual PEF	Litres (L)/Min		
PEF % pred	% pred		
PEF % Personal Best	% PB		

lung health starts now

lung health foundation

Lung Health Information Line 1-888-344-LUNG (5864)

Page 3

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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:**  
• FEV<sub>1</sub>/FVC ratio < LLN (approx. < 0.80-0.90) based on age, sex, height and ethnicity  
• And ≥12% change in FEV<sub>1</sub> 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:**  
• FEV<sub>1</sub>/FVC ratio < LLN (approx. < 0.75-0.80) based on age, sex, height and ethnicity  
• And ≥12% and min ≥200 mL change in FEV<sub>1</sub> 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 <sub>1</sub> 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	<b>Formula =</b> $\frac{\text{Highest PEF} - \text{Lowest PEF}}{\text{Highest PEF}} \times 100$
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 Beta<sub>2</sub>-Agonist  
**LTRA:** Leukotriene-Receptor Antagonist

**MOM:** Mometasone  
**PEF:** Peak Expiratory Flow  
**SABA:** Short Acting Beta<sub>2</sub>-Agonist  
**SALM:** Salmeterol  
**VCD:** Vocal Cord Dysfunction

#### **Definitions:**

**FEV<sub>1</sub>:** 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  
**FEV<sub>1</sub>/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: \_\_\_\_\_

PRESCRIBER 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 2** times per week
- Cough, wheezing, shortness of breath or chest tightening **no more than 2** 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:**  $\geq 90\%$  personal best, or  $> \rule{1cm}{0.4pt}$ .

Other: If you consistently need your reliever 3 times per week or have symptoms 3 days per week, your provider may need to adjust your maintenance medications.

### INSTRUCTIONS:

MEDICATION	PUFFER COLOUR	DOSE	PUFFS	TIMES PER DAY
<b>CONTROLLER</b>				
<b>RELIEVER</b>				

Other:

## Caution: Step Up Therapy

### DESCRIPTION:

You have **ANY** of the following:

- Use your reliever **4 or more** times per week\*
- Have daytime cough, wheezing, shortness of breath or chest tightening **4 or more** days per week\*
- Physical activity is limited due to symptoms
- Asthma symptoms at night or in early AM 1 or more nights per week

\*These criteria for an asthma flare may differ from what your provider uses to decide if your asthma is well controlled overall

**Peak flow:** 60-80% personal best, or \_\_\_\_\_ to \_\_\_\_\_.

Other:

### INSTRUCTIONS:

Increase \_\_\_\_\_ controller ( \_\_\_\_\_ ) to:  
(colour) (medication)  
\_\_\_\_\_ puffs \_\_\_\_\_ times per day for \_\_\_\_\_ days.

Add \_\_\_\_\_ controller ( \_\_\_\_\_ ):  
(colour) (medication)  
\_\_\_\_\_ puffs \_\_\_\_\_ times per day for \_\_\_\_\_ days.

Take \_\_\_\_\_ reliever ( \_\_\_\_\_ ) 1-2 puffs  
(colour) (medication)  
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  $< \rule{1cm}{0.4pt}$ .

Other:

### INSTRUCTIONS:

Take \_\_\_\_\_ reliever ( \_\_\_\_\_ )  
(colour) (medication)  
\_\_\_\_\_ 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 (1-15years)

**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 2** times per week
- Daytime symptoms (cough, wheeze or breathing problems) **no more than 2** times per week
- Ability to do physical activity (playing or sports)
- No nighttime asthma symptoms
- Not missing regular activities or school
- No symptoms of a cold



Other: If you consistently need your reliever 3 times per week or have symptoms 3 days per week, your provider may need to adjust your maintenance medications.

### INSTRUCTIONS

MEDICATION	PUFFER COLOUR	DOSE	PUFFS	TIMES A DAY
<b>CONTROLLER</b>				
<b>RELIEVER</b>				
				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 **4 or more** times per week\*
- Daytime symptoms (cough, wheeze or breathing problems) **4 or more** times per week\*
- Difficulty with physical activity (playing or sports)
- Asthma symptoms for 1 or more nights per week
- Missing regular activities or school
- Symptoms of a cold



\*These criteria for an asthma flare may differ from what your provider uses to decide if your asthma is well controlled overall.

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](http://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.

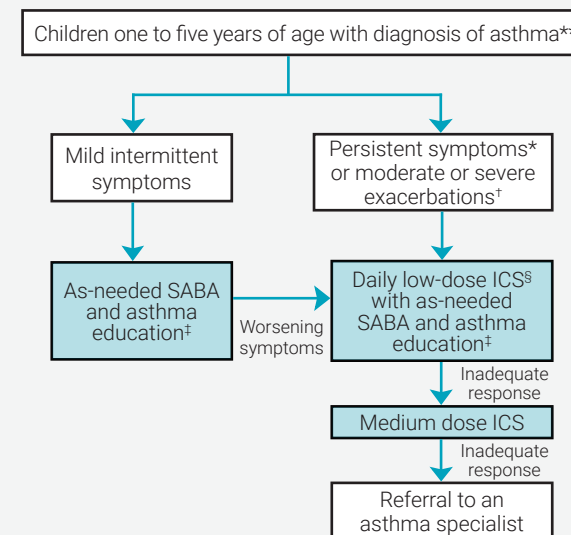


## For Healthcare Providers

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  $\geq 8$  days/month,  $\geq 8$  days/month with use of inhaled short-acting  $\beta_2$ -agonists (SABA),  $\geq 1$  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/>

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<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 10%;">Unknown</th> <th style="width: 10%;">Recent &lt; 1yr</th> <th style="width: 10%;">Total # ever</th> </tr> <tr> <td>ED visits ever for COPD</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="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> <tr> <td>Hospitalized ever for COPD</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="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> <tr> <td>ICU admissions in the last 12 months</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="text-align: center;"><input style="width: 40px;" type="text"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;"># ICU admissions</td> <td style="text-align: center;"># intubations</td> </tr> <tr> <td>Systemic steroid use ever</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="text-align: center;"><input style="width: 40px;" type="text"/></td> <td style="text-align: center;"><input style="width: 40px;" type="text"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">Date last used</td> <td style="text-align: center;">Total # ever</td> </tr> </table>			Yes	No	Unknown	Recent < 1yr	Total # ever	ED visits ever for COPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 40px;" type="text"/>	Hospitalized ever for COPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 40px;" type="text"/>	ICU admissions in the last 12 months	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 40px;" type="text"/>	<input style="width: 40px;" type="text"/>					# ICU admissions	# intubations	Systemic steroid use ever	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 40px;" type="text"/>	<input style="width: 40px;" type="text"/>					Date last used	Total # ever	Effect of substances addiction <input type="checkbox"/> Yes <input type="checkbox"/> No Social/Family issue <input type="checkbox"/> Yes <input type="checkbox"/> No							
	Yes	No	Unknown	Recent < 1yr	Total # ever																																														
ED visits ever for COPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 40px;" type="text"/>																																														
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Client Name <input style="width: 250px;" type="text"/>		Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																																																																																																																																															
<b>Modified Medical Research Council Classification</b> <input type="checkbox"/> N/A		<b>Triggers and Exposures</b> <input type="checkbox"/> N/A																																																																																																																																																																															
<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 &amp; 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 type="checkbox"/> Unknown</th> </tr> </thead> <tbody> <tr><td>Beta Blockers</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>Cats</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>Chemicals</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>Cockroaches</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>Cold air/ Windy day</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>Dogs</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>Dust/Dust mites</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>Emotion/ Stress</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>Exercise</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>Fireplace/Woodstove</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>Food allergy</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>Fumes</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>Fungi/Mould</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>Grasses</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>High humidity</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>Medications</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>Outdoor pollution</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>Perfume/Air 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 &amp; 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 &amp; exposures from list.</small>	Triggers				Exposures																																																																																																																																																																												
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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"/>																																																																																																																																																																											
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Fungi/Mould	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																											
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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"/>																																																																																																																																																																											
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<b>CAT Score (<a href="https://www.catestonline.org">https://www.catestonline.org</a>)</b> <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 _____																																																																																																																																																																																	
<b>CTS severity score (symptom burden and the risk of future exacerbations)</b> <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 <b>Low Risk of AECOPD</b> 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 <b>High Risk of AECOPD</b> with ≥ 2 moderate AECOPD or ≥ 1 severe exacerbation in the last year (severe AECOPD is an event requiring hospitalization or ED visit).</small>																																																																																																																																																																																	
<b>Occupational History</b> <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 _____																																																																																																																																																																																	
<b>Environmental Controls</b> <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/AComorbid 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	Actual	% Pred	Actual	% Pred
Written COPD action plan provided	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FVC	Litres (L)	Litres (L)	%	Litres (L)	%
Written COPD action plan revised	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV1	Litres (L)	Litres (L)	%	Litres (L)	%
COPD action plan reviewed & not changed	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV <sub>1</sub> / FVC	Litres (L)	Litres (L)	%	Litres (L)	%
Yellow or red zone of action plan followed,	<input type="checkbox"/>	<input type="checkbox"/>	# of Times	PEF	Litres (L)/Sec			Litres (L)/Sec	
				DLCO <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Results <input type="text"/>					

## Additional Notes/ Plans

Client Name <input style="width: 250px;" type="text"/>		Jurisdictional Health Number <input style="width: 200px;" type="text"/>																																																																																													
<b>Immunizations</b> <input type="checkbox"/> N/A		<b>Referrals</b> <input type="checkbox"/> N/A																																																																																													
<table border="0" style="width: 100%;"> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%; text-align: center;">Unknown</th> </tr> <tr> <td>Immunizations discussed</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>Influenza vaccination received</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>Date of last influenza vaccination</td> <td colspan="3" style="text-align: center;"><input style="width: 80px;" type="text" value="YYYY/MM/DD"/></td> </tr> <tr> <td>Conjugated vaccine (PNEU-C-13)</td> <td colspan="3" style="text-align: center;"><input style="width: 80px;" type="text" value="YYYY/MM/DD"/></td> </tr> <tr> <td>Polyvalent Pneumococcal vaccine</td> <td colspan="3" style="text-align: center;"><input style="width: 80px;" type="text" value="YYYY/MM/DD"/></td> </tr> </table> <p><a href="https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci.html">https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci.html</a></p>			Yes	No	Unknown	Immunizations discussed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Influenza vaccination received	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of last influenza vaccination	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			Conjugated vaccine (PNEU-C-13)	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			Polyvalent Pneumococcal vaccine	<input style="width: 80px;" type="text" value="YYYY/MM/DD"/>			<table border="0" style="width: 100%;"> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%; text-align: center;">Suggested</th> </tr> <tr><td>Allergist</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>COPD Education Program/ CRE</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>Respirologist</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>Smoking cessation counselling/support</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>Dietitian</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>Mental health counselling</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>Sleep testing</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>Allergy testing</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>Home O2 assessment</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>ABGs</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>Social Worker</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>Pharmacist</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>Full PFT testing</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>Pulmonary Rehabilitation</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>OTN tele-monitoring program (if available)</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>Other specialist <input style="width: 150px;" type="text"/></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> </table>			Yes	No	Suggested	Allergist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COPD Education Program/ CRE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Respirologist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Smoking cessation counselling/support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dietitian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mental health counselling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sleep testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Allergy testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Home O2 assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ABGs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Social Worker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pharmacist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Full PFT testing	<input 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<b>Investigations</b> <input type="checkbox"/> N/A		<b>Follow-up Visit Scheduled in</b> (time frame from current visit) <input type="checkbox"/> N/A																																																																																													
Chest CT <input type="checkbox"/> Yes <input type="checkbox"/> No Results <input style="width: 100px;" type="text"/> Bone Mineral Density Test (BMD Test) Date of last <input style="width: 80px;" type="text" value="YYYY/MM/DD"/> Results <input style="width: 100px;" type="text" value="g/cm²"/> Other (past diagnostics) Alpha-1 Antitrypsin blood work done <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Results _____ ABG on room air done and date (consider when FEV <sub>1</sub> < 40% or resting SpO <sub>2</sub> < 90%) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Date of last <input style="width: 80px;" type="text" value="YYYY/MM/DD"/> Results: pH ____ PO <sub>2</sub> ____ PCO <sub>2</sub> ____ HC03 ____ SaO <sub>2</sub> ____ 6 minute walk test <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Results <input style="width: 100px;" type="text"/>		<table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> 1 Week</td> <td><input type="checkbox"/> 1 Month</td> <td><input type="checkbox"/> 4-6 Months</td> <td>Other <input style="width: 80px;" type="text"/></td> </tr> <tr> <td><input type="checkbox"/> 2 Weeks</td> <td><input type="checkbox"/> 2 Months</td> <td><input type="checkbox"/> 6-12 Months</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 3 Weeks</td> <td><input type="checkbox"/> 3 Months</td> <td><input type="checkbox"/> "Wait and see"</td> <td></td> </tr> </table>		<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"																																																																																	
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<b>Education Interventions</b> <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) <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <th style="width: 45%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 45%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> </tr> <tr> <td>Adherence to medications</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Immunotherapy</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Barriers addressed</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Inhaler technique</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>COPD Action Plan</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Medications</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>COPD pathophysiology</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Provide patient education materials</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Coping strategies addressed</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Self management goal</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Device technique optimal</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Smoking cessation</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Early recognition &amp; treatment of exacerbations</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Triggers &amp; environmental controls</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Environmental tobacco smoke exposure</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Other <input style="width: 150px;" type="text"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Exercise</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td colspan="3" style="padding-top: 10px;">           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         </td> </tr> </table>					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: 150px;" 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																																		
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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: 150px;" 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																																																																																												
<b>Additional Notes/ Plans</b>																																																																																															
Healthcare Professional Role Type <input style="width: 200px;" type="text"/>		Signature <input style="width: 150px;" type="text"/>																																																																																													

■ N/A

☐ N/A

Client Name (please print)	
Client Identifier Type e.g. Jurisdictional Health Number	Client Identifier Assigning Authority e.g. OHIP

□ N/A

## COPD Diagnosis\*

□ N/A

\*ensure a diagnosis of COPD is made with post-bronchodilator spirometry testing to meet the Canadian Thoracic Society criteria  
Post-bronchodilator FEV<sub>1</sub>/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

☐ Unchanged since last visit

N/A

lung health starts now  lung health foundation

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		Breathlessness <input type="checkbox"/> at rest <input type="checkbox"/> on exertion Chest tightness <input type="checkbox"/> Yes <input type="checkbox"/> No Wheeze <input type="checkbox"/> Yes <input type="checkbox"/> No Cough <input type="checkbox"/> Yes <input type="checkbox"/> No Sputum production <input type="checkbox"/> Yes <input type="checkbox"/> No Sputum colour <input style="width:100px;" type="text"/> Sputum consistency <input style="width:100px;" type="text"/> Sputum volume <input style="width:100px;" type="text"/> Hemoptysis* <input type="checkbox"/> Yes <input type="checkbox"/> No Frequent colds <input type="checkbox"/> Yes <input type="checkbox"/> No 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"/> Yes <input type="checkbox"/> No Symptoms worse at night (including cough) <input type="checkbox"/> Yes <input type="checkbox"/> No Chest pain <input type="checkbox"/> Yes <input type="checkbox"/> No Limitation of activities at home <input type="checkbox"/> Yes <input type="checkbox"/> No Sleep soundly <input type="checkbox"/> Yes <input type="checkbox"/> No Decreased energy level <input type="checkbox"/> Yes <input type="checkbox"/> No *This symptom must be reported to the client's provider																															
Physical Exam <input type="checkbox"/> N/A																																	
<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  Vitals: HR <input style="width:50px;" type="text"/> RR <input style="width:50px;" type="text"/> BP <input style="width:50px;" type="text"/>																																	
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 <input style="width:30px;" type="text"/> )  Quit Date <input style="width:80px;" type="text"/>  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  Passive Smoking Risk <input type="checkbox"/> Yes <input type="checkbox"/> No		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) <input type="checkbox"/> Prescription medication (e.g., varenicline, bupropion)																															
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"/>  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																																	
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"/>		Barriers <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes select from the list below) <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>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>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"/>	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"/>			
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<b>Modified Medical Research Council Classification</b> <input type="checkbox"/> N/A <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		<b>Triggers and Exposures</b> <input type="checkbox"/> N/A Have there been any changes to your triggers or exposures since last visit <input type="checkbox"/> Yes <input type="checkbox"/> No <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Category <small>If yes select patient reported triggers &amp; 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 type="checkbox"/> Unknown</th> </tr> </thead> <tbody> <tr><td>Beta Blockers</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>Cats</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>Chemicals</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 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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>Exercise</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>Fireplace/Woodstove</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>Food allergy</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>Fumes</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>Fungi/Mould</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>Grasses</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>High humidity</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>Medications</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>Outdoor pollution</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>Perfume/Air 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: 80px;" 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 &amp; 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 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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: 80px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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"/>																																																																																																																																																																											
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<b>CAT Score (<a href="https://www.catestonline.org">https://www.catestonline.org</a>)</b> <input type="checkbox"/> N/A <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAT Score</th> <th>Impact level</th> </tr> </thead> <tbody> <tr><td>5</td><td>Upper limit of normal in healthy non-smokers</td></tr> <tr><td>&lt; 10</td><td>Low</td></tr> <tr><td>10 - 20</td><td>Medium</td></tr> <tr><td>&gt; 20</td><td>High</td></tr> <tr><td>&gt; 30</td><td>Very High</td></tr> </tbody> </table> CAT Score <input style="width: 100px;" type="text"/>		CAT Score	Impact level	5	Upper limit of normal in healthy non-smokers	< 10	Low	10 - 20	Medium	> 20	High	> 30	Very High																																																																																																																																																																				
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<b>CTS severity score (symptom burden and the risk of future exacerbations)</b> <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 <b>Low Risk of AECOPD</b> 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 <b>High Risk of AECOPD</b> with ≥ 2 moderate AECOPD or ≥ 1 severe exacerbation in the last year (severe AECOPD is an event requiring hospitalization or ED visit).</small>																																																																																																																																																																																	
<b>Occupational History</b> Has your occupation changed since last visit? <input type="checkbox"/> Yes <input type="checkbox"/> NO If yes, fill out/click on options below. <input type="checkbox"/> N/A Current Employment Status: Check all the apply. <i>Note - This includes self-employment and working from home:</i> <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 <input style="width: 150px;" type="text"/> Current Employment <input style="width: 150px;" type="text"/> Significant work exposure <input style="width: 250px;" type="text"/>																																																																																																																																																																																	
<b>Environmental Controls</b> <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.) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th>Suggested</th> <th></th> <th>Yes</th> <th>No</th> <th>Suggested</th> </tr> </thead> <tbody> <tr><td>Air conditioning in summer</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Humidifier in winter (desired target &lt; 50%)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Central or hepa-filter vacuum</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Humidifier all year round (desired target &lt; 50%)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Dehumidifier (desired target &lt; 50%)</td><td><input type="checkbox"/></td><td><input 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Client Name

Jurisdictional Health Number

**Comorbidities**Have your co-morbidities changed since last visit? ☐ Yes ☐ No If yes, fill out/click on options below:☐ N/AComorbid 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	Actual	% Pred	Actual	% Pred
Written COPD action plan provided	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FVC	Litres (L)	Litres (L)	%	Litres (L)	%
Written COPD action plan revised	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV1	Litres (L)	Litres (L)	%	Litres (L)	%
COPD action plan reviewed & not changed	<input type="checkbox"/>	<input type="checkbox"/>	YYYY/MM/DD	FEV <sub>1</sub> / FVC	Litres (L)	Litres (L)	%	Litres (L)	%
Yellow or red zone of action plan followed,	<input type="checkbox"/>	<input type="checkbox"/>	# of Times	PEF	Litres (L)/Sec			Litres (L)/Sec	
				DLCO <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Results <input type="text"/>					

**Additional Notes**

Client Name <input style="width: 250px;" type="text"/>			Jurisdictional Health Number <input style="width: 200px;" type="text"/>				
<b>Immunizations</b> <input type="checkbox"/> N/A			<b>Referrals</b> <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: 100px;" type="text" value="YYYY/MM/DD"/>			Respirologist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conjugated vaccine (PNEU-C-13)	<input style="width: 100px;" 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: 100px;" type="text" value="YYYY/MM/DD"/>			Dietitian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci.html">https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci.html</a>				Mental health counselling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Investigations</b> <input type="checkbox"/> N/A				Sleep study	<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: 100px;" type="text" value="YYYY/MM/DD"/>	Results	<input style="width: 100px;" 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 <sub>1</sub> < 40% or resting SpO <sub>2</sub> < 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: 100px;" type="text" value="YYYY/MM/DD"/>			OTN tele-monitoring program (if available)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Results: pH ____ PO2 ____ PCO2 ____ HC03 ____ SaO2 ____				Other specialist <input style="width: 150px;" type="text"/>	<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	<b>Follow-up Visit Scheduled in (time frame from current visit)</b> <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: 100px;" 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"	
<b>Education Interventions</b> <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				
<b>Additional Notes/ Plan</b>							
Healthcare Professional Role Type <input style="width: 150px;" type="text"/>				Signature <input style="width: 150px;" type="text"/>			



1. Do you cough regularly?
2. Do you cough up phlegm regularly?
3. Do even simple chores make you short of breath?
4. Do you wheeze when you exert yourself or at night?
5. Do you get frequent colds that persist longer than those of other people?

## 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 <b>URGENT</b> 
I have sputum.	My usual sputum colour is: _____	Changes in my sputum, for <b>at least</b> 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 <b>at least</b> 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 <b>prescriptions</b> 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 <b>more</b> short of breath than usual, I will take ____ puffs of _____ up to a <b>maximum</b> of ____ times per day.	<b>I will dial 911.</b> 

**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/](http://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](http://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 
I have sputum.	My usual sputum colour is: _____	Changes in my sputum, for <b>at least</b> 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 <b>at least</b> 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 <b>prescriptions</b> 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 <b>more</b> short of breath than usual, I will take ____ puffs of _____ up to a <b>maximum</b> 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 (beta<sub>2</sub>-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<sup>1,2</sup>

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 <b>at least</b> 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 <b>at least</b> 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 <b>prescriptions</b> 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 <b>more</b> short of breath than usual, I will take ____ puffs of _____ up to a <b>maximum</b> 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 ( $\beta_2$ -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<sup>1,2</sup>

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 $\beta$ -lact/ $\beta$ -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 $\beta$ -lactam resistance.	Fluoroquinolone $\beta$ -lact/ $\beta$ -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/](http://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](http://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 ( $\beta_2$ -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.
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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 $\beta$ -lactam resistance.	Fluoroquinolone $\beta$ -lact/ $\beta$ -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.

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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 (beta<sub>2</sub>-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<sup>1, 2</sup>

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 limiting activity. 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 <sub>1</sub> may be improved by therapy, but post-BD FEV <sub>1</sub> /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 <sub>1</sub> /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	<b>*Syndromic diagnosis of airways disease: how to use Box 5-2b</b> <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: Resource Links



# Primary Care Asthma Program

## Useful links and resources

Lung Health Foundation - <http://www.lunghealth.ca>

<b>Asthma and Allergies</b>
1. AllerGen Canada: <a href="http://www.allergen-nce.ca/">http://www.allergen-nce.ca/</a>
2. Allergy Asthma & Immunology Society of Ontario: <a href="http://allergyasthma.on.ca/">http://allergyasthma.on.ca/</a>
3. Food Allergy Canada: <a href="http://www.foodallergycanada.ca">http://www.foodallergycanada.ca</a>
4. Asthma Society of Canada: <a href="http://www.asthma.ca">http://www.asthma.ca</a>
5. Canadian Asthma Guidelines: <a href="https://cts-sct.ca/guideline-library/">https://cts-sct.ca/guideline-library/</a>
6. Global Initiative for Asthma (GINA): <a href="http://www.ginasthma.org/">http://www.ginasthma.org/</a>
7. Ontario Physical Health and Education Association (OPHEA): <a href="http://www.ophea.net/">http://www.ophea.net/</a>
8. Work-related Asthma: <a href="https://lunghealth.ca/lung-disease/a-to-z/work-related-asthma/">https://lunghealth.ca/lung-disease/a-to-z/work-related-asthma/</a>
9. Asthma Friendly Schools (Ryan's Law): <a href="https://lunghealth.ca/lung-disease/ryans-law/">https://lunghealth.ca/lung-disease/ryans-law/</a>
10. Ontario Asthma Surveillance Information System (OASIS): <a href="http://lab.research.sickkids.ca/oasis/">http://lab.research.sickkids.ca/oasis/</a>
11. Find an asthma program in Canada: <a href="https://www.lung.ca/lung-health/get-help">https://www.lung.ca/lung-health/get-help</a>
12. RESPTREC® Device Mastery Sheets: <a href="https://www.lungsask.ca/healthcare-providers/resptrec-resources">https://www.lungsask.ca/healthcare-providers/resptrec-resources</a>
<b>Air Quality</b>
1. Air Quality Health Index – Environment Canada: <a href="http://www.ec.gc.ca/cas-aqhi/">http://www.ec.gc.ca/cas-aqhi/</a>
2. Your Healthy Home: <a href="http://www.yourhealthyhome.ca/">http://www.yourhealthyhome.ca/</a>
<b>COPD:</b>
1. Canadian COPD Guidelines: <a href="https://cts-sct.ca/guideline-library/">https://cts-sct.ca/guideline-library/</a>
2. Find a COPD program in Canada: <a href="https://www.lung.ca/lung-health/get-help">https://www.lung.ca/lung-health/get-help</a>
3. Global Initiative for Chronic Obstructive Lung Disease (GOLD): <a href="http://www.goldcopd.org/">http://www.goldcopd.org/</a>
4. Living Well With COPD: <a href="http://www.livingwellwithcopd.com/">http://www.livingwellwithcopd.com/</a>
5. RESPTREC® Device Mastery Sheets: <a href="https://www.lungsask.ca/healthcare-providers/resptrec-resources">https://www.lungsask.ca/healthcare-providers/resptrec-resources</a>
<b>Spirometry:</b>
1. American Thoracic Society: <a href="https://www.thoracic.org/statements/pulmonary-function.php">https://www.thoracic.org/statements/pulmonary-function.php</a>
<b>Smoking Cessation:</b>
1. CAMH STOP program: <a href="https://www.nicotinedependenceclinic.com/English/stop/Pages/Home.aspx">https://www.nicotinedependenceclinic.com/English/stop/Pages/Home.aspx</a>
2. Ontario Tobacco Research Unit (OTRU): <a href="http://otru.org/">http://otru.org/</a>
3. Lung Health Foundation Quitting Tobacco Toolkit: <a href="https://lunghealth.ca/tobacco/">https://lunghealth.ca/tobacco/</a>

# Primary Care Asthma Program

<b>Continuing Education:</b>
1. CAMH TEACH program (Smoking cessation): <a href="https://www.nicotinedependenceclinic.com/English/teach/Pages/Home.aspx">https://www.nicotinedependenceclinic.com/English/teach/Pages/Home.aspx</a>
2. Canadian Network For Respiratory Care (CRE certification course): <a href="http://cnrchome.net/">http://cnrchome.net/</a>
3. Provider Education for Health Care Professionals: <a href="https://hcp.lunghealth.ca/events/">https://hcp.lunghealth.ca/events/</a>
4. RespTrec (Respiratory Education) and SpiroTrec (Spirometry training): <a href="http://www.resptrec.org">http://www.resptrec.org</a>
<b>Ontario Organizations:</b>
1. Association of Family Health Teams of Ontario (AFHTO): <a href="http://www.afhto.ca/">http://www.afhto.ca/</a>
2. Association of Ontario Health Centres: <a href="https://www.allianceon.org/">https://www.allianceon.org/</a>
3. Ministry of Health: <a href="http://www.health.gov.on.ca/en/">http://www.health.gov.on.ca/en/</a>
4. Ontario Health: <a href="https://www.ontariohealth.ca/">https://www.ontariohealth.ca/</a>
5. Ontario Health Teams: <a href="https://health.gov.on.ca/en/pro/programs/connectedcare/oht/">https://health.gov.on.ca/en/pro/programs/connectedcare/oht/</a>
6. Local Health Integration Network (LHIN): <a href="http://www.lhins.on.ca/home.aspx">http://www.lhins.on.ca/home.aspx</a>
<b>Practice tools</b>
1. RespTrec Inhaler Device tools (including device mastery sheets): <a href="https://www.lungsask.ca/healthcare-providers/resptrec-resources">https://www.lungsask.ca/healthcare-providers/resptrec-resources</a>
2. CAT test for COPD: <a href="https://www.catestonline.org/">https://www.catestonline.org/</a>
3. Asthma Control Test: <a href="https://www.asthma.com/understanding-asthma/severe-asthma/asthma-control-test/">https://www.asthma.com/understanding-asthma/severe-asthma/asthma-control-test/</a>
4. Ontario eFormulary: <a href="https://www.formulary.health.gov.on.ca/formulary/">https://www.formulary.health.gov.on.ca/formulary/</a>
5. Non-insured Health Benefits: <a href="https://www.sac-isc.gc.ca/eng/1572537161086/1572537234517">https://www.sac-isc.gc.ca/eng/1572537161086/1572537234517</a>
<b>Related Research Articles</b>
1. The Burden of Asthma: Can it be Eased?: <a href="http://www.longwoods.com/content/18644/print">http://www.longwoods.com/content/18644/print</a>
2. Can A Community Evidence-based Asthma Care Program Improve Clinical Outcomes? A Longitudinal Study: <a href="http://www.ncbi.nlm.nih.gov/pubmed/19300316">http://www.ncbi.nlm.nih.gov/pubmed/19300316</a>
3. Examining intra-rater and inter-rater response agreement: A medical chart abstraction study of a community-based asthma care program: <a href="http://www.biomedcentral.com/1471-2288/8/29">http://www.biomedcentral.com/1471-2288/8/29</a>
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: <a href="http://www.biomedcentral.com/1472-6963/9/77">http://www.biomedcentral.com/1472-6963/9/77</a>
5. Is it feasible to use indicators to collect data on asthma care performance in the primary care setting? A feasibility study: <a href="http://www.thepcrj.org/journ/view_article.php?article_id=850">http://www.thepcrj.org/journ/view_article.php?article_id=850</a>
6. Moving Population and Public Health Knowledge Into Action: <a href="http://www.cihr-irsc.gc.ca/e/30751.html#a">http://www.cihr-irsc.gc.ca/e/30751.html#a</a>
7. Primary care asthma program puts evidence into practice, reducing symptoms and visits to emergency departments: <a href="http://www.on.lung.ca/document.doc?id=776">http://www.on.lung.ca/document.doc?id=776</a> <a href="http://www.hqontario.ca/portals/0/Documents/pr/qmonitor-full-report-2009-en.pdf">http://www.hqontario.ca/portals/0/Documents/pr/qmonitor-full-report-2009-en.pdf</a>
8. Asthma in Ontario: Ontario's Asthma Plan of Action: <a href="https://10012.thankyou4caring.org/document.doc?id=772">https://10012.thankyou4caring.org/document.doc?id=772</a>