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# Evidence2Practice - COPD Management Tool v. 1.0.0 - User Guide

#### A. Introduction

EMR tools from the Evidence2Practice Ontario (E2P) program are comprised of condition-specific modules (scalable to multiple conditions) based on the core clinical functions of quality standards developed to make it easier for clinicians to access and apply best practice information and quality standards at the point of care.

This guide provides a walk-through of the tool with examples, highlighting the most important functionalities.

### **B. Purpose of the Tool**

Our objective was to create an EMR-integrated tool that supports clinicians in the screening and management of chronic obstructive pulmonary disease (COPD).

The E2P COPD tool engages a modular approach format to assist primary care providers with capturing critical information during an encounter while also supporting quality improvement initiatives where possible.

The tool is divided into 3 separate forms to support the:

- 1) Screening & diagnosis of COPD
- 2) Management of COPD
- 3) COPD Action Plan

#### C. Overview

Some key features of the tool include:

- Additional considerations for clinics/practices using CDM worksheets to work in harmony with the E2P COPD tool
- New and improved lab result manual entry and summary review table
- Optimized guidance on EMR and tool collaboration
- Generate Note function for COPD management
- Macros to support documentation consistency and efficiency



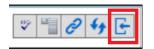
# **D. Getting Started**

### A. Navigating to the modules within the tool:

To go to the different modules, use the left and right page arrows.



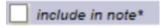
### **B.** Import values:



Clicking the **Import Values** button will pull the previous values/information from any previously completed E2P COPD form into the current form.

#### C. Generate Letter:

New to E2P tools for Accuro QHR is the generate letter feature!



In the tool, users will see the "include in note\*" checkbox this will be for specific sections that will allow users to decide if they would like to include a section into the note.

This means the user can include if something was ordered or discussed during the current visit in the visit note, saving precious documentation time, while also still recording the date that something was ordered/discussed which can be viewed at a future visit.

# E. Icon Library

	Blue tooltip icon – Pop-up text				
	Click your mouse over this icon to view the content.				
	Asterisk symbol – Hover over text				
*	Hold your mouse over this area to view the content.				
	Blue text with underline – Hyperlink				
Give feedback	Click your mouse on this text to open the website in a new				
	window.				



### F. Using the Tool

While we recognize that the forms can appear overwhelming at first glance, please rest assured that we have designed our tools with the intention that they are to be used over time; forms do not need to be completed in one visit. Users can pull the information that was documented in the previous patient visit and continue to add to it, making your documentation more comprehensive as time goes on.

### G. COPD Screening & Diagnosis Form

This form will allow the user to flag the symptoms and the associated risk factors the patient has, record the resulting actions (such as if the patient needs to be referred to spirometry or if the patient declined spirometry), and update the diagnosis status.

This feature offers an opportunity for clinicians who want to measure that they are performing screening and/or capture if they are reviewing the patient's risk for COPD, even if they do not move forward with a COPD diagnosis or visit form.

### Evidence2Practice Ontario E2P COPD Screening and Diagnosis Screening last completed: Patients are clinically suspected of having COPD if they have at least one respiratory symptom and one risk factor Screen patients for at least one respiratory symptom and one risk factor Symptoms Persistent shortness of breath that worsens with activity and/or exercise Chronic cough Regular sputum production Recurrent respiratory infections Chronic wheezing Chest tightness Activity and/or exercise limitation owing to breathlessness Risk Factors Current or past tobacco smoking Exposure to second-hand smoke Exposure to occupational lung irritants, such as dust, vapours, fumes, gases, and other chemicals Childhood factors, such as low birthweight, recurrent respiratory infections, and other lung development issues Exposure to significant air pollution Family history of COPD (alpha - 1 antitrypsin deficiency) Genetic predisposition History of asthma Use of biomass fuels for indoor heating or cooking without proper ventilation If at least one selection made in both symptoms and risk factors: refer patients for spirometry (use input field below to update status to suspect) indicate if spirometry declined (use input field below to update status to unconfirmed) Diagnosis status: | Last updated: | Update status: 0 If diagnosis is unconfirmed, please indicate reason

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### H. COPD Management Visit Form

#### **Assessment Section**

Evidence2Practice Ontario	2P COPD Management Tool 🛂
Screening last completed:	Visit form last completed:
The E2P COPD tool is based on the following guidelines: CTS, Va/Do	D, GOLD, OH QS
Assessment	
Diagnosis status:   Last updated:   Update status: 0	Spirometry: ① FEV1/FVC (%)
Subjective   Objective  Reason for visit: Initial visit  Since last visit,	patient feels: Same > FEV1(%)
Current symptoms	<u> </u>
Persistent breathlessness At rest On exertion Chest tightness Wheezing  Regular sputum production Frequent colds Chest pain Activity  Physical exam  Breath sounds: Normal breath sounds Abnormal breath sounds:  Appearance: Barrel chested Clubbing Cachectic Other:	Eco   MM/DD/YYYY     CT   MM/DD/YYYY   Other:
Additional notes	Latest Vitals  BP: 180 / 88 ( 2023-Aug-14 )  Wt: 88 kg ( 2023-Aug-14 )  O2: 98 % ( 2023-Aug-14 )  HR: 154 bpm ( 2023-Aug-14 )  BMI: 17.4 ( 14-Aug-2023 )

To support QI initiatives, this form will pull in the date the last screening form was completed and the date the last visit form was completed. Whether a screening form was completed or not, the COPD diagnosis status will flow to both the screening and visit forms. The diagnosis status is saved in a lab result that has three status options: unconfirmed, suspected, and confirmed.

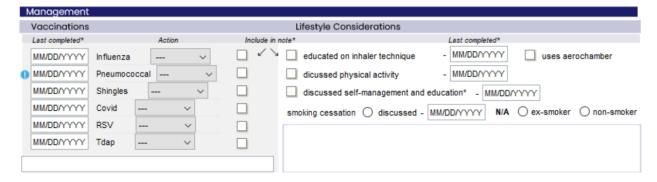
Spirometry results can easily be entered in this section using the drop-down menu. For clinics/practices that have CDM worksheets embedded, please ensure that you follow the installation instructions to connect these lab results. \*Note: CDM worksheets are not required to use this tool.

The assessment section allows for the documentation of subjective and objective information, as well as the ability to update spirometry results, record the date an investigation has been ordered, and review the patient's latest vital measurements.

Users can capture the patient's current symptoms and conduct a physical exam. Macros can be used in the additional notes section. For more information on adding macros specific to COPD, see page 3 in the tool.

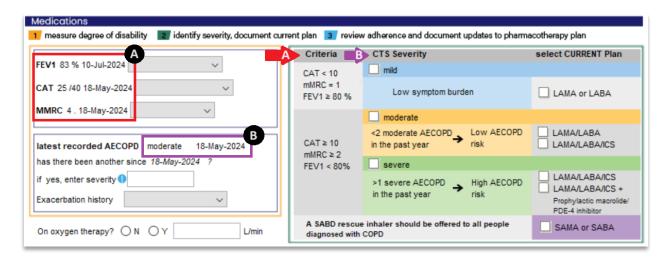


#### **Management Section**



The management section contains areas to document vaccination information. Users can record whether a vaccination was actioned: discussed, declined, or updated, and the date it was completed. In this section, information regarding lifestyle considerations (such as if the user discussed inhaler technique, physical activity, any self-management or education, and smoking cessation/status) can also be efficiently tracked and managed here.

#### **Medications Section**



This form supports the creation of pharmacological treatment based on CTS severity. CTS severity considers the symptom burden for patients, which is calculated using spirometry, the number of acute exacerbations of COPD (AECOPD), the CAT, and mMRC screeners. The intended workflow is as follows: **Step 1) measures the degree of disability**. This is done manually; the form contains the screeners for the user to complete, enables the user to record multiple AECOPDs, and defines the CTS severity, enabling the user to select the treatment plan.



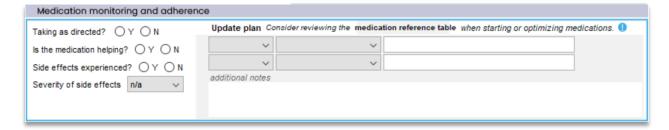
Page 2 in the tool offers calculators that capture the scores of the other screening/assessment tools. For patients who have 1 or the other who only have spirometry (FEV1) or have a CAT and an mMRC grade, users can still use either result to drive them to **step 2**) identifying the severity.

Acute Exacerbations of COPD (AECOPD) are recorded as lab results so that they can be tracked. There are two ways to update the AECOPD, text box (labeled "B" in the image above) or using the drop-down menu. We can review the severity history and date. We have embedded tooltip icons to promote the education of what is an exacerbation with the patient.

The first time the tool is used, the main priority should be to capture the history of AECOPD, which can be done using the lab result window so the history of exacerbations can be backdated and multiple can be entered by clicking "Apply". Otherwise, using the text box will associate the exacerbation with the current date.

Once the user has identified CTS severity using the degree of disability and number of acute exacerbations, the user can now document the current pharmacological treatment plan decision.

#### **Medication Monitoring and Adherence Section**



At the next follow-up visit, users can move to **step 3) review adherence**, and document updates to the pharmacotherapy plan. As the current plan will most likely be tailored to the patient's needs this may mean that it may not directly align with where the patient falls on the CTS severity. The user can go into detail and explain the reasoning for the current treatment plan, why the patient is not currently in alignment, how the medications are working for the patient, and if any updates need to be made in this step.



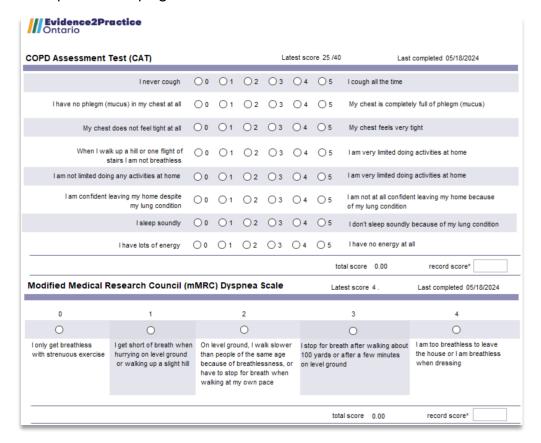
### Referrals & Follow-Up Section

Referrals	include in note*								
respirologist	pulmonary rehab	smoking cessation	COPD education	spirometry	PFT	Other:			
						Next visit	booked for	MM/DD/YYYY	

The documentation for if the patient needs to be referred to an external provider can be recorded in this section. The next visit date can be planned here as well. If the "include in note\*" is checked off this section will be added to the letter that is generated at the end.

### I. Page 2: COPD Assessments

The tool offers calculators that capture the scores that will be used when initiating pharmacological treatment. These assessments include the COPD Assessment Test (CAT) and the Modified Medical Research Council (mMRC) Dyspnea Scale. These assessments will record the scores into their respective lab results: CAT and mMRC which will be pulled into page 1 and can be tracked over time.





### Page 3: Tips and Tricks

#### Creating a lab summary table

A lab summary table is an alternate way to view lab results. This is a convienient way to display labs from different test results in a flowsheet style.

In the Encounter notes window

- (1) Locate the dropdown menu in the labs heading.
- (2) Select Manage from the list displayed. The Edit Lab Summary Configurations is displayed.
- (3) Click the green '+' Add button.
- (4) In the name field type in the name of the group being created (COPD)
- (5) Click the green '+' Add button. The Lab Search Results window is displayed.
- (6) Type in the results to be added to the group and click the Select button to add them to the list
- (7) Repeat this step until you have added all the required results to your list, select OK to save.

#### 

#### Using macros in forms

condmant

-discussed/provided action plan -reviewed Living with COPD resource -reviewed OH patient quide

copdsmk

pack years, cannabis use, vape use, ready to quit, NRT

copdresp

Resp: Chest clear bilaterally to both bases, no adventitious sounds

copdhrt

HS: S1/S2, no added sounds or murmurs; JVP normal No peripheral edema

Go to Tools > Template Wizard.

- (2) Click on the "Edit Macros" circle-select at the top of the Template Wizard. Click New
- (3) Enter a title (the word you will need to type to insert the macro). Use "\_" rather than a space.
- (4) Enter/paste the sentence or paragraph in the main typing area under the title.
- (5) Save

#### Linking a template to the form

This form contains unique tags that will assist in generating a 'letter' (or encounter note) that is searchable from the virtual chart

- (1) Select the text from the area below (CTRL+A) (2) Right-click and choose copy
- (1) Go to Tools > Template Wizard Press New (2) Enter a title (3) Right Click, Paste in to the content area (4) Save.

This page is intended to provide users with ready-to-use instructions that will help improve the functionality of this form and the EMR. Much of this information may already be known to the user but reassures us that users have the best tools at their fingertips for optimal experience.

This page includes steps on how to in a lab summary table which will enable users to review labs in the most ideal manner, as well as provides condition-related macros that can make documentation within the tool more efficient and consistent, as well as the templates designed specifically for the E2P COPD screening and diagnosis tool and the COPD visit management tool for the generate letter features.

For support with any of these additions, please reach out to <a href="mailto:emrtools@ehealthce.ca">emrtools@ehealthce.ca</a> to book a training session.



### J. COPD Action Plan

Evidence2P Ontario	ractice	E2P COPD Action Plan and Patient Resource			
My Symptoms	I Feel Well	I Feel Worse	l Feel Much Worse		
I have sputum	My usual sputum colour is	Changes in my sputum for at least 2 days	My symptoms are not better after taking my flare-up medicine for 48 hours		
I feel short of breath.	When I do this:	More short of breath than usual for at least 2 days Y N	I am very short of breath, nervous confused and/or drowsy, and/or I have chest pain.		
	Stay Well	Take Action	Call For Help		
My Actions	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/m	luse my daily puffers as usual. If I am more short of breath than usual, I will take puffs of up to a maximum of times per day.	I will dial 911.		
Notes	I use my breathing and relaxation methods as taught to me. I pace myself to save energy.		Important information: I will tell my do respiratory educator, or case manager within 2 days If I had to use any of my flare-up prescriptions. I will also make		
		from Um to Um	follow-up appointments to review my COPD Action Plan twice a year.		
	Prescription for COPD flare-up (	Patient to take to pharmacist as needed fo	r symptoms)		
•	riptions may be refilled two rimes each, as need to f this prescription has been filled.	eded, for 1 year, to treat COPD flare-ups. Phare	rmacists may fax the doctor's office		

The final component of the E2P COPD Management Tool is the COPD Action Plan. The reason for this section to be available in a stand-alone form is to provide users with the option to print this page specifically for the patient without including the other information. This page is meant to be patient-facing as it includes information for the patient to review and take home, such as the COPD action plan, the prescription for flare-ups, as well as additional patient resources which can be found at the bottom of the page.

Additional Resources
Ontario Health Patient Guide - https://link.cep.health/e2pcopdt2
Living with COPD –Lung Health Foundation (contact LHF to request mailed copy) https://link.cep.health/e2pcopdt1
COPD Action Plan- Canadian Thoracic Society - https://link.cep.health/e2pcopdt3
Smoking Treatment for Ontario Patients (STOP) Program - https://link.cep.health/e2pcopdt6
☐ Treating breathing issues: COPD – Choosing Wisely Canada - https://link.cep.health/e2pcopdt22



#### K. Feedback

Included in the tool is a link to provide feedback which allows users to submit their thoughts and communicate any issues they've encountered or any areas they wish to see added to the tool. This section allows you to submit feedback anonymously or allows you to add your email address and name if you wish to be contacted.

\* The link can be found in the COPD Management Tool at the bottom of page 1:



#### L. Contact

As part of the Evidence2Practice Ontario (E2P) program, the <u>eHealth Centre of Excellence</u> is providing change management at no cost to support clinicians with the implementation and optimal use of E2P tools.

If you have any questions, please reach out to <a href="mailto:EMRtools@ehealthce.ca">EMRtools@ehealthce.ca</a> and we will be happy to help!

E2P brings together multi-disciplinary, cross-sector expertise under the joint leadership of the Centre for Effective Practice, eHealth Centre of Excellence, and North York General Hospital. Funding and strategic guidance for E2P is provided by Ontario Health in support of Ontario's Digital First for Health Strategy.





