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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.

| O Version: 0 | O Page: 1/3 O | 🖶 Print | 🛄 Fax | Reviewed | ОК | Close |
|--------------|---------------|---------|-------|----------|----|-------|

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!

include in note*

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. |



E2D CODD Sereening and Diagnosis

F. Using the Tool

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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.

| Ontario | EZP COPD screening and Diagnosis |
|---|--|
| | Screening last completed: |
| Patients are clinically suspected of having COPI Screen patients for at least o | D if they have at least one respiratory symptom and one risk factor ne respiratory symptom and one risk factor |
| Symptoms | |
| Persistent shortness of breath that worsens with activity and/or e Chronic cough Regular sputum production Recurrent respiratory infections Chronic wheezing Chest tightness Activity and/or exercise limitation owing to breathlessness | exercise |
| Risk Factors | |
| Current or past tobacco smoking Exposure to second-hand smoke Exposure to occupational lung irritants, such as dust, vapours, fu Childhood factors, such as low birthweight, recurrent respiratory 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 | mes, gases, and other chemicals infections, and other lung development issues r 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: If diagnosis is unconfirmed, please indicate reason | |
| | |



H. COPD Management Visit Form

Assessment Section

| Contario | E2P COPD Management Tool 0 v 1.0 |
|--|--|
| Screening last completed: | Visit form last completed: |
| The E2P COPD tool is based on the following guidelines: CTS, Va/ | DoD, GOLD, OH QS |
| Assessment | |
| Diagnosis status: Last updated: Update status: 0 | Spirometry: () FEV1/FVC (%) |
| If diagnosis is unconfirmed, please indicate reason | ~ |
| Subjective Objective | LLN* |
| Reason for visit: Initial visit V Since last vis | sit, patient feels: Same V FEV1(%) |
| Current symptoms | ~ |
| Persistent breathlessness () At rest () On exertion () Chest tightness () Wheezing | Chronic cough Include in note* |
| Regular sputum production Frequent colds Chest pain Ac | tivity and/or exercise limitation Echo MM/DD/YYYY |
| Physical exam | ECG MM/DD/YYYY Blood MM/DD/YYYY |
| breath sounds. O Normal breath sounds O Abhormal breath sounds. | CT MM/DD/YYYY |
| Appearance: Barrel chested Clubbing Cachectic Other: | 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

| Vaccinations | Action | Lifestyle C | Considerations |
|--------------------------|----------------|------------------|--|
| to a to a second a to de | Action | Include in note1 | |
| Last completed* | | molude in note* | Last completed* |
| MM/DD/YYYY | Influenza V | educated | on inhaler technique - MM/DD/YYYY uses aerochamber |
| | Pneumococcal ~ | dicussed | physical activity - MM/DD/YYYY |
| MM/DD/YYYY S | Shingles V | discusse | d self-management and education* - MM/DD/YYYY |
| MM/DD/YYYY | Covid V | smoking cess | ation () discussed - MM/DD/YYYY N/A () ex-smoker () non-smoker |
| MM/DD/YYYY | RSV ~ | | |
| MM/DD/YYYY 1 | Tdap 🗸 | | |
| | | | |

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

| Medications | | | | |
|---|-----------------------------------|---|--|--|
| 1 measure degree of disability 2 identify severity, document curr | rent plan 🖪 review | v adherence and document updates to pharma | acotherapy plan | |
| A | 🕨 Criteria 🔤 | CTS Severity | select CURRENT Plan | |
| FEV1 83 % 10-Jui-2024 | CAT < 10 | mild | | |
| CAT 25 /40 18-May-2024 | mMRC = 1 FEV1 ≥ 80 % | Low symptom burden | LAMA or LABA | |
| MMRC 4.18-May-2024 | | moderate | | |
| latest recorded AECOPD moderate 18-May-2024 | CAT ≥ 10 mMPC > 2 | <2 moderate AECOPD in the past year Low AECOPD risk | LAMA/LABA | |
| has there been another since 18-May-2024 ? | FEV1 < 80% | severe | | |
| if yes, enter severity Exacerbation history | | >1 severe AECOPD High AECOPD in the past year | LAMA/LABA/ICS LAMA/LABA/ICS + Prophylactic macrolide/ PDE-4 inhibitor | |
| On oxygen therapy? ON OY | A SABD rescue diagnosed with (| inhaler should be offered to all people COPD | SAMA or SABA | |

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

| Medication monitoring and adherence | 0 |
|-------------------------------------|--|
| Taking as directed? OY ON | Update plan Consider reviewing the medication reference table when starting or optimizing medications. |
| Is the medication helping? OY ON | ✓ ✓ |
| Side effects experienced? OY ON | ✓ ✓ |
| Severity of side effects n/a 🗸 | additional notes |
| | |
| | |

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* | |
|--|--------------|
| i respirologist i pulmonary rehab i smoking cessation COPD education i spirometry PFT Other: | |
| Next visit booked fo | r 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.

| COPD Assessment | Test (CAT) | | | | La | test s | core 25 /40 | Last | completed 05/18/2024 |
|--|---|------|--|----------------------|---|--|---|---|------------------------------|
| | I never cough | 0 | 01 | 02 | O 3 | 0 | 4 () 5 | I cough all the time | |
| l have no phlegm (n | nucus) in my chest at all | 0 | 01 | 02 | 3 | 0 | 4 () 5 | My chest is complete | ely full of phlegm (mucus) |
| My chest | does not feel tight at all | 0 | 01 | O 2 | ○ 3 | 04 | 4 () 5 | My chest feels very | tight |
| When I wai s | k up a hill or one flight of tairs I am not breathless | 0 | 01 | 0 2 | ○ 3 | 0 | 4 () 5 | I am very limited doin | g activities at home |
| I am not limited doin | g any activities at home | 0 | 01 | 02 | 03 | 04 | 4 () 5 | I am very limited doing | g activities at home |
| I am confident I | eaving my home despite my lung condition | 0 | 01 | 02 | ○ 3 | 04 | 05 | I am not at all confide of my lung condition | nt leaving my home because |
| I sleep soundly | | 0 0 | 01 | 02 | ○ 3 | 04 | 4 () 5 | I don't sleep soundly | because of my lung condition |
| | I have lots of energy | | 01 | 02 | ○ 3 | 04 | 05 | I have no energy at a | all |
| | | | | | | | tot | alscore 0.00 | record score* |
| Modified Medical R | esearch Council (r | nMRC | C) Dys | onea s | Scale | | Late | est score 4. | Last completed 05/18/2024 |
| 0 | 1 | | | 2 | | | | 3 | 4 |
| 0 | 0 | | 0 | | | | 0 | | 0 |
| I only get breathless with strenuous exercise | get breathless I get short of breath when On level ground, I walk si threnuous exercise hurrying on level ground or walking up a slight hill because of breathlessne have to stop for breath w walking at my own pace | | alk slowe ame age ssness, o ath when ace | er Le 11 or of | stop for brea 00 yards or a n level groun | th after walking about after a few minutes d | I am too breathless to leave the house or I am breathless when dressing | | |
| total score 0.00 record score* | | | | | | record score* | | | |

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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. | | Result | 2024-Jun-24 | 2024-Mar-05 | | | |
| (2) Select Manage from the list displayed. The Edit Lab Symmetry | Configurations is displayed | FEV1/FVC (post) 101 | | | | | |
| (2) Select Manage from the list displayed. The Edit Lab Summary | configurations is displayed. | FEV1% predicted (post) | | 100 | | | |
| (3) Click the green '+' Add button. | | LLN (FEV1/FVC) | 67 | | | | |
| (4) In the name field type in the name of the group being created (| (COPD) | CAT 23 | | | | | |
| (5) Click the green '+' Add button. The Lab Search Results window | w is displayed. | AECOPD | moderate, | | | | |
| | | dxStatusCOPD | unconfirmed | 8 | | | |
| (6) Type in the results to be added to the group and click the Sele | ct button to add them to the list | | | | | | |
| (7) Repeat this step until you have added all the required results t | to your list, select OK to save. | | | | | | |
| Using macros in forms | | | | | | | |
| copdmgmt | | | | | | | |
| -discussed/provided action plan -reviewed Living with COPD | (1) Go to Tools > Template Wizard. | | | | | | |
| resource -reviewed OH patient guide | (2) Click on the "Edit Macros" circle select at the top of the Template Wizard, Click New | | | | | | |
| condsmk | | cicci at the top of the | , remplate w | izuru. oliok iv | | | |
| | (3) Enter a title (the word you will nee | ed to type to insert th | e macro). Us | e "_" rather ti | nan a space | | |
| pack years, cannabis use, vape use, ready to quit, NRT | (4) Enter/paste the sentence or parag | graph in the main typi | ng area unde | er the title. | | | |
| | (5) Save | | | | | | |
| copdresp | | | | | | | |
| Resp: Chest clear bilaterally to both bases, no adventitious sounds | | | | | | | |
| copdhrt | | | | | | | |
| HS: S1/S2, po added acuada or murmura: IV/B pormal No. | | | | | | | |
| peripheral edema | | | | | | | |
| | | | | | | | |
| Linking a template to the form | | | | | | | |
| This form contains unique tags that will assist in generating a 'lett | er' (or encounter note) that is searchab | e from the virtual cha | art | | | | |
| (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 feel free to reach out to our team at <u>EMRtools@amplifycare.com</u> to book a training session.



J. COPD Action Plan

Contario E2P COPD Action Plan and Patient Resources My Symptoms I Feel Well ל׳ח I Feel Much Worse Changes in my sputum for My symptoms are not better after taking I have sputum My usual sputum colour is at least 2 days my flare-up medicine for 48 hours NY N When I do this: Lam very short of breath, nervous I feel short of More short of breath than usual for confused and/or drowsy, and/or at least 2 days Y breath I have chest pain. Stay Well Call For Help If I checked 'Yes' to one or both of I will call my support contact, and/or I use my daily puffers as directed. the above, I use my prescriptions for see my doctor and/or go to the COPD flare-ups. nearest emergency department. **My Actions** I use my daily puffers as usual. If I am I will dial 911. more short of breath than usual. I will If I am on oxygen, I use L/m puffs of take up to a maximum of times per day. Notes Important information: I will tell my doctor, I use my breathing and relaxation respiratory educator, or case manager methods as taught to me. I pace myself within 2 days If I had to use any of my to save energy. flare-up prescriptions. I will also make If I am on oxygen, I will increase it follow-up appointments to review my COPD Action Plan twice a year. L/m to L/m from These prescriptions may be refilled two rimes 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.

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

| ٦ | Ontario Health | Patient Guide | - https://link.ce | n health/e2ncondt2 |
|---|-----------------|----------------|-------------------|--------------------|
| _ | ontario ricalin | r anomi o'aldo | - mupo.minn.cou | p.mounnozpoopulz |

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:

please click here to provide feedback for this tool

L. Contact

As part of the Evidence2Practice Ontario (E2P) program, <u>Amplify Care</u> (formerly the eHealth Centre of Excellence) 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 <u>EMRtools@amplifycare.com</u> and we will be happy to help!

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

