

Respiratory clinical dashboard user guide

June 2024

This guide will walk you through Pinnacle's respiratory clinical dashboard. It can be used in conjunction with the video: [Respiratory Clinical Dashboard with Dr Jo Scott-Jones](#).

Assumptions: This guide assumes you have a basic understanding of Power BI. We encourage you to review our video: [Introduction to Power BI](#).

Additional resources: [New Zealand Adolescent and Adult Asthma Guidelines](#)

Introduction

Kia ora koutou,

Pinnacle's respiratory clinical dashboard contains more information than the diabetes and CVD dashboards. We've brought together disease burden and standards around the conditions of asthma, COPD, bronchiectasis, lung cancer and smoking.

All these criteria have been developed in collaboration with Pinnacle clinicians, discussion with other PHO clinical leaders, and the subject matter experts — the respiratory consultants at Waikato Hospital.

The data shared is from an anonymised practice with anonymised NHI numbers, so there are no privacy issues around sharing this information.

As you may remember, with the clinical dashboards you have the series of reports on the left, the series of filters on the right, and the main body of the report contains a narrative which explains the content of the graphs and maybe asks some reflective clinical questions to help guide your thinking.

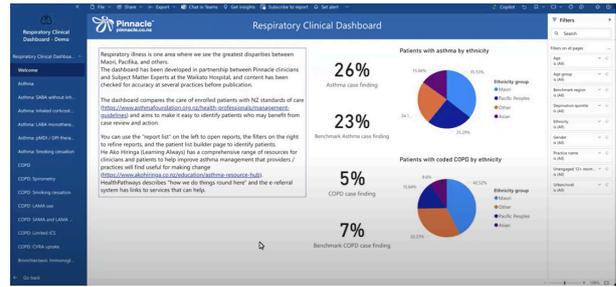
My hope with the clinical dashboards is that you will use them to explore and challenge yourselves and the quality of the care we're providing at a population level. The clinical dashboards provide not just those standard reports, but the ability to use the patient list builder to drill down to the NHI numbers, and hopefully you'll see that the approach we've taken in the respiratory dashboard gives you an easier way of doing that.

Ngā mihi,
Jo Scott-Jones

Note: This guide uses asthma as a scenario and primarily uses Taranaki as a benchmark region.

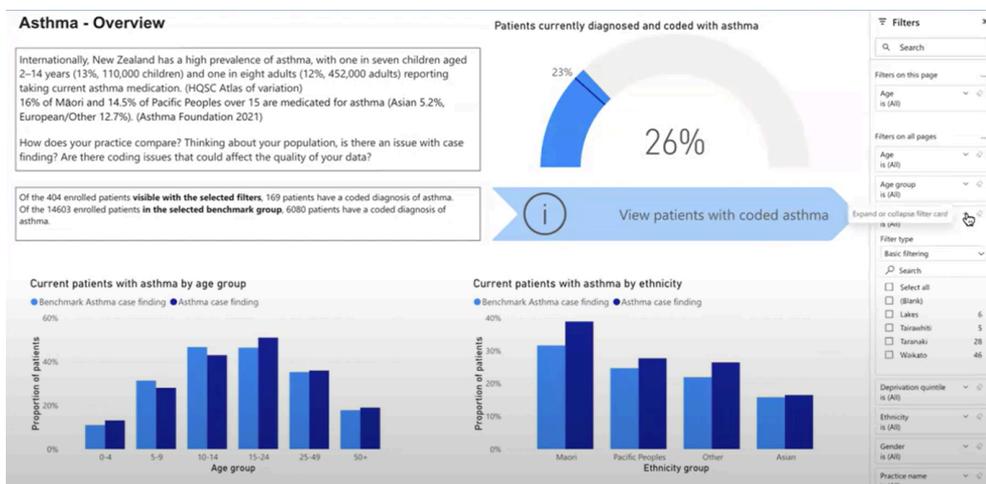
Getting started

1. Access the dashboard: Steps on how to access the dashboard will vary depending on your specific system.
2. Explore the reports: Each disease category (asthma, COPD, etc.) has its own report with:
 - A narrative explaining the report's content and referencing relevant guidelines.
 - Graphs comparing your practice's data to a benchmark (network average or chosen district).



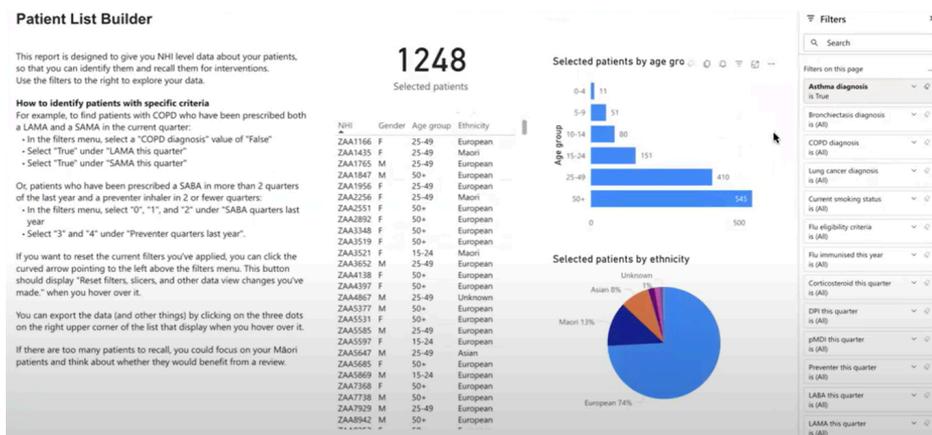
Understanding the benchmark

1. By default, the benchmark is the average for the entire Pinnacle network.
2. You can select a specific district from the filter on the right to compare your practice to that region.
3. The blue line or shaded area represents your practice's data.



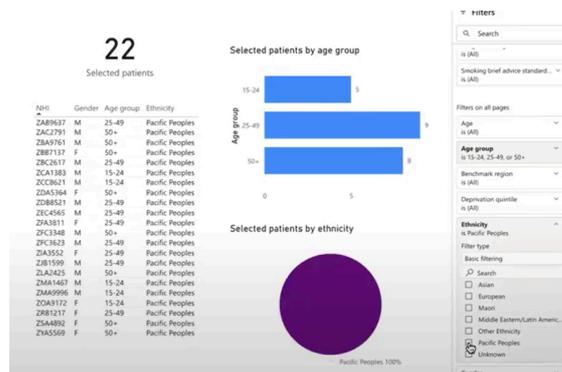
Drilling down with patient list builder

1. Click the blue arrow next to the report title (e.g., asthma).
2. This generates a list of all patients in your practice with that diagnosis (e.g., all those patients that have a diagnosis of asthma).
3. Use the filters on the right to refine the list based on demographics (age, ethnicity) or clinical characteristics.



Filter examples

- Refine asthma list: Filter by age group (e.g., over 15) and ethnicity (e.g., Pasifika) to see how this specific group is doing.
- Focus on specific COPD cases: For example, filter COPD patients by age (e.g. over 40) to target medication reviews.



Using the patient list builder independently

You can use the filters independent of a specific report.

1. Example 1: Find all patients with bronchiectasis and see if they have had recent immunoglobulin tests by filtering by diagnosis and then test type.
2. Examples of key information: People over a certain age, e.g. 12, who have a diagnosis of asthma should not be taking a short-acting beta agonist without an inhaled corticosteroid.

Patient List Builder

This report is designed to give you NHI level data about your patients, so that you can identify them and recall them for interventions. Use the filters to the right to explore your data.

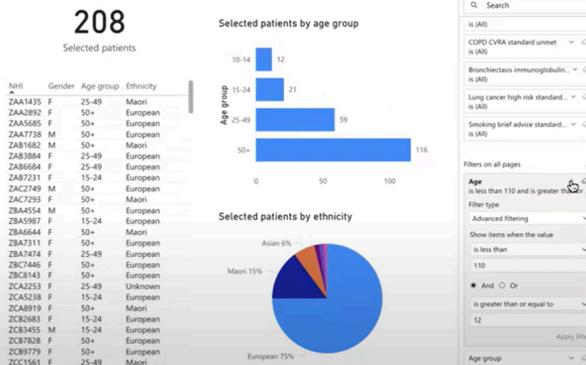
How to identify patients with specific criteria
 For example, to find patients with COPD who have been prescribed both a LAMA and a SAMA in the current quarter:
 - In the filters menu, select a "COPD diagnosis" value of "False"
 - Select "True" under "LAMA this quarter"
 - Select "True" under "SAMA this quarter"

Or patients who have been prescribed a SABA in more than 2 quarters of the last year and a preventer inhaler in 2 or fewer quarters:
 - In the filters menu, select "0", "1", and "2" under "SABA quarters last year"
 - Select "3" and "4" under "Preventer quarters last year".

If you want to reset the current filters you've applied, you can click the curved arrow pointing to the left above the filters menu. This button should display "Reset filters, slicers, and other data view changes you've made" when you hover over it.

You can export the data (and other things) by clicking on the three dots on the right upper corner of the list that display when you hover over it.

If there are too many patients to recall, you could focus on your Maori patients and think about whether they would benefit from a review.



Asthma - SABA without inhaled corticosteroids

The NZ Adolescent and Adult Asthma guideline indicates when there is good control of asthma, reliever medication is used minimally (less than two days per week).

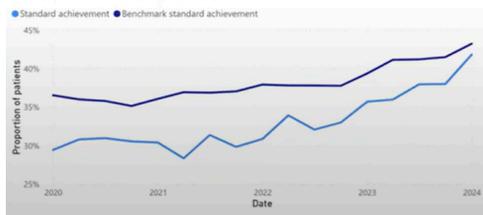
Short acting beta agonist as sole therapy is no longer recommended.

How is your practice doing compared to others?

SABA may be prescribed without an ICS in children (<12) with infrequent wheeze - what do the figures say about your population?

Of the 404 patients **visible with the selected filters** who have been dispensed a short-acting beta agonist in more than two of the past four quarters, 169 patients were not also dispensed an inhaled corticosteroid. Of the 4142 patients in the **selected benchmark group** who have been dispensed a short-acting beta agonist in more than two of the past four quarters, 1791 patients were not also dispensed an inhaled corticosteroid.

Patients on SABA without ICS over time



Key reports and actions

- Asthma control: Identify patients potentially not receiving recommended treatment (use the patient list builder to target interventions).
- COPD medication review: Find patients with COPD who might be prescribed unsuitable medications (use patient list builder for targeted reviews).
- Bronchiectasis review: See if patients with bronchiectasis are receiving immunoglobulin testing (use patient list builder for follow-up on untested patients).
- High-risk lung cancer: Identify patients at high risk for lung cancer (consider recalls or prompting for further investigation if symptoms arise).
- Smoking status: Find patients who haven't had their smoking status documented (use patient list builder to address this during future consultations).

Exporting patient data

1. Click the three dots next to the patient list for "More Actions."
2. Select "Export Data" to download the list into an Excel spreadsheet for further analysis or note reviews.

Conclusion

The respiratory clinical dashboard allows you to explore patient data, identify areas for improvement, and target interventions to specific patient populations. By using the reports, filters, and patient list builder effectively, you can make informed decisions to enhance the quality of care for your patients with respiratory conditions.

Contact details

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