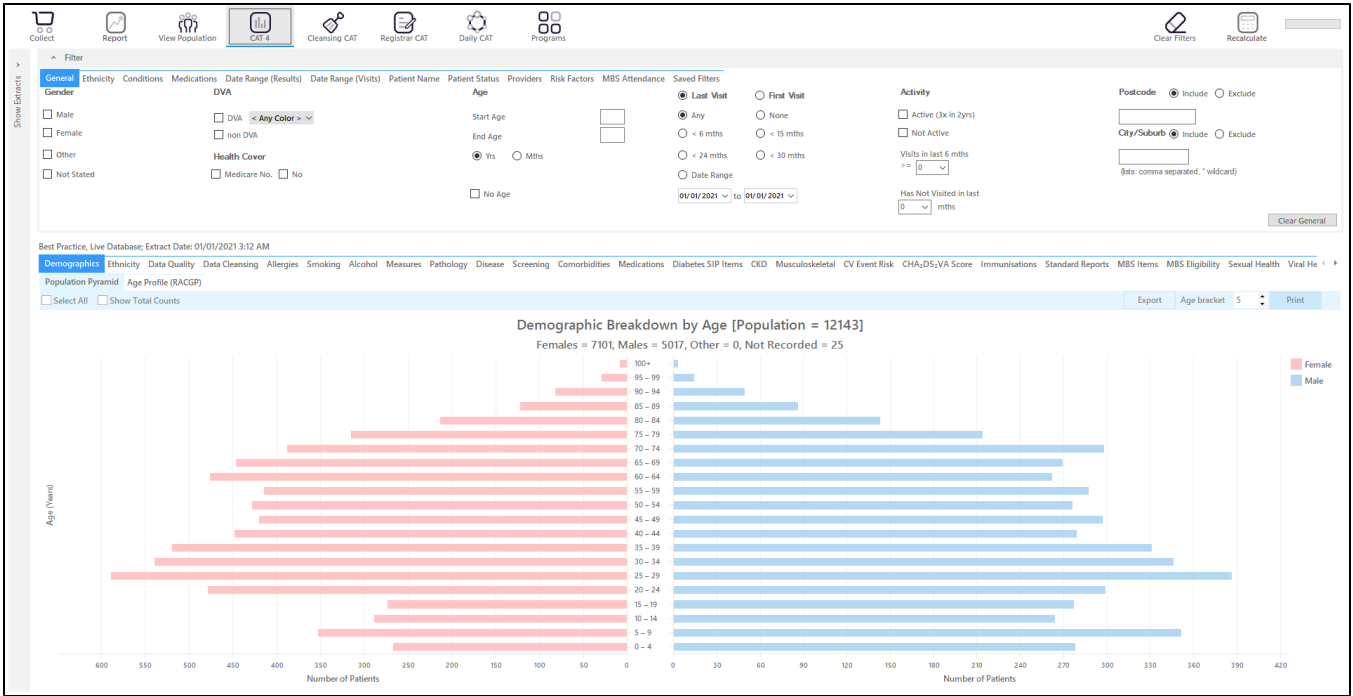# Find patients eligible for My Health For Life with high CV Event risk

Recipe Name:	Find patients eligible for My Health For Life with high CV Event risk
Rationale:	My health for life will help people at high risk of developing chronic conditions such as heart disease, stroke and type 2 diabetes make healthy lifestyle changes. The steps in this recipe show how to identify patients meeting all or most of the eligibility criteria. Further information and resources are available here: https://www.myhealthforlife.com.au/
Target:	To identify all patients with no current diagnosis of diabetes, Heart Failure, CVD or chronic kidney disease who are eligible to be referred to the 'My Health For Life' program and are at high risk of a cardiovascular event in the next five years based on the absolute CV risk assessment.
CAT Starting Point:	1. CAT Open - CAT4 view (all reports) loaded 2. Population Extract Loaded and Extract Pane "Hidden" a. Filter Pane open and under the 'General' tab 'Active Patients' (3x <2 years) selected (this step can be omitted if you want to search for all patients).

We provide other recipes showing how to find patients based on a single eligibility criteria on our My Health For Life recipe page here: My Health For Life Recipes

> ⊘ This recipe can be combined with the other recipes, for example you could use the recipe for patients with familial hypercholesterolaemia and then find who out of that group is at high risk of a CV event risk.

CAT Start screen

RECIPE Steps Filters:

- In the Start Age box type 18 to show patients older than 18.
- OPTIONAL: In the "General" filter tab click on 'Active (3x in 2yrs)' - this will only show those patients with at least 3 visits in the last 2 years

- Click on "Conditions" tab under Diabetes select "No"
- Select "No" for Heart Failure
- Select "No" for all conditions listed under the *CVD* group
- Select "No" for "Chronic Renal Failure"

We have now created a filter to find patients older than 18, with no diagnosis of diabetes, Heart Failure, CVD or chronic renal disease.

This will most likely produce a large list of patients, in this case more than 3000 patients.

To find patients at high risk of a CV event we will use the CV Event risk report in CAT4 - full details can be found here: CV (Cardiovascular) Event Risk CAT calculated

Limitations:

> ⊘ The CV Event risk report uses blood pressure and lipid results regardless of when the result was entered/taken. The most recent result will be used to calculate the risk. The reason behind this process is that a patient who was at high risk some time ago and doesn't have any recent results should be reviewed.

CV Event Risk report

To find the patients at high risk of a CV event in the next five years, click on the CV Even Risk report tab and select the 16- >=30% ranges, then click on 'Export'

Demographics Ethnicity Data Quality Data Cleansing Allergies Smoking Alcohol Measures Pathology Disease Screening Comorbidities Medications Diabetes SIP Items CKD Musculoskeletal **CV Event Risk●** CHA₂DS₂VA Score Immunisations ◄ ►

CAT Calculated● CIS Calculated

☐ Select All   Export   Age bracket 5 ⬍   Print

Count Excluded and Incomplete

5 Year Risk of a Cardiovascular Event [Total Population = 9487 Eligible Population = 4698]
Count = 2535 (Percentage = 54.0%)

Legend: Low Risk < 10%; Medium Risk 10 – 15%; High Risk > 15%; Automatic High Risk; Not Calculated

Calculation uses the Absolute Cardiovascular Disease Risk Assessment (Framingham Risk Equation)
Based on the publication "National Vascular Disease Prevention Alliance. Absolute cardiovascular disease management. Quick reference guide for health professionals. 2012. ©2012 National Stroke Foundation".
Used with permission from the Heart Foundation. Updates to these guidelines and an online version of the CVD risk calculator can be found in www.cvdcheck.org.au.

This will show a list of all patients at 16% or higher risk of a CV event in the next five years, with the selected demographic filter (18+) and with no diagnosis of heart disease, diabetes or chronic kidney disease.

Reidentify Report [Patient Count = 107]
Filtering By: Age 18+, Conditions (Diabetes - No, CVD - Stroke, CVD - MI, CVD - CHD, CVD - Renal Artery Stenosis, CVD - Carotid Stenosis, CVD - PAD, Renal Chronic - No, CVD - Heart Failure), Selected: CAT Calculated (Risk 16-100%)
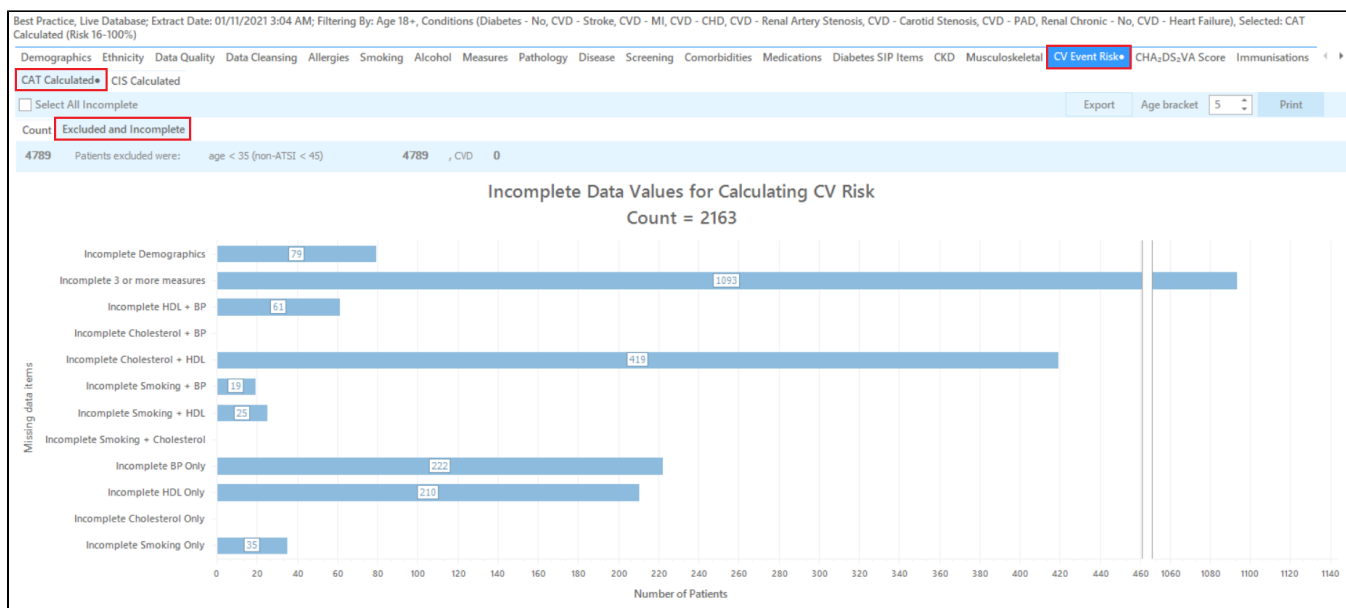
ID	Surname	First Name	Known As	Sex	D.O.B (Age)	Address	City	Postcode	Phone (H/W)	Phone (M)	Medicare	IHI	CV Event 5 Year Risk
884	Surname	Firstname_72	Firstname_72	M	01/11/1940 (81)	12 Jogger St	Suburb Town	4254	H:07 50505050 W:07 50509999	1234999999	1234123412 34		17%
8549	Surname	Firstname_37 2	Firstname_37 2	M	01/11/1937 (84)	12 Jogger St	Suburb Town	2228	H:07 50505050 W:07 50509999	1234999999	1234123412 34		16%
8620	Surname	Firstname_50 0	Firstname_50 0	M	01/11/1946 (75)	12 Jogger St	Suburb Town	3254	H:07 50505050 W:07 50509999	1234999999	1234123412 34		22%
8585	Surname	Firstname_68 2	Firstname_68 2	M	01/11/1945 (76)	12 Jogger St	Suburb Town	3523	H:07 50505050 W:07 50509999	1234999999	1234123412 34		17%
3455	Surname	Firstname_73 3	Firstname_73 3	M	01/11/1951 (70)	12 Jogger St	Suburb Town	4293	H:07 50505050 W:07 50509999	1234999999	1234123412 34		16%
2626	Surname	Firstname_76 2	Firstname_76 2	M	01/11/1956 (65)	12 Jogger St	Suburb Town	4608	H:07 50505050 W:07 50509999	1234999999	1234123412 34		16%
11810	Surname	Firstname_77 1	Firstname_77 1	M	01/11/1944 (77)	12 Jogger St	Suburb Town	3472	H:07 50505050 W:07 50509999	1234999999	1234123412 34		16%
7798	Surname	Firstname_11 93	Firstname_11 93	M	01/11/1963 (58)	12 Jogger St	Suburb Town	3297	H:07 50505050 W:07 50509999	1234999999	1234123412 34		18%
4674	Surname	Firstname_12 73	Firstname_12 73	F	01/11/1946 (75)	12 John St	Suburb Town	3654	H:07 50505050 W:07 50509999	1234999999	1234123412 34		17%
12551	Surname	Firstname_14 63	Firstname_14 63	M	01/11/1949 (72)	12 Jogger St	Suburb Town	2961	H:07 50505050 W:07 50509999	1234999999	1234123412 34		18%
4862	Surname	Firstname_17	Firstname_17	M	01/11/1942	12 Jogger St	Suburb Town	4667	H:07 50505050	1234999999			19%

Refine Selection   Add/Withdraw Patient Consent   GoShare Plus   SMS Recall   Voicemail Recall   Topbar Prompt

Incomplete CV Event risk data

The second tab of the report shows the patients with missing data items:

Best Practice, Live Database; Extract Date: 01/11/2021 3:04 AM; Filtering By: Age 18+, Conditions (Diabetes - No, CVD - Stroke, CVD - MI, CVD - CHD, CVD - Renal Artery Stenosis, CVD - Carotid Stenosis, CVD - PAD, Renal Chronic - No, CVD - Heart Failure), Selected: CAT Calculated (Risk 16-100%)

Demographics   Ethnicity   Data Quality   Data Cleansing   Allergies   Smoking   Alcohol   Measures   Pathology   Disease   Screening   Comorbidities   Medications   Diabetes SIP Items   CKD   Musculoskeletal   CV Event Risk•   CHA₂DS₂VA Score   Immunisations   ◄ ►

CAT Calculated•   CIS Calculated

☐ Select All Incomplete   Export   Age bracket   5 ⬍   Print

Count   Excluded and Incomplete

4789   Patients excluded were: age < 35 (non-ATSI < 45)   4789   , CVD   0

Incomplete Data Values for Calculating CV Risk
Count = 2163

Missing data items:

- Incomplete Demographics — 79
- Incomplete 3 or more measures — 1093
- Incomplete HDL + BP — 61
- Incomplete Cholesterol + BP —
- Incomplete Cholesterol + HDL — 419
- Incomplete Smoking + BP — 19
- Incomplete Smoking + HDL — 25
- Incomplete Smoking + Cholesterol —
- Incomplete BP Only — 222
- Incomplete HDL Only — 210
- Incomplete Cholesterol Only —
- Incomplete Smoking Only — 35

Number of Patients (axis: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 1060, 1080, 1100, 1120, 1140)

Active patients with more than three visits should have most of the data items completed and this report will show if this is the case or not. No CV event risk can be calculated if the data is incomplete.