

CAT4 Cross Tabulation Guide – COPD patients with last visit 6-12 months and missing/overdue influenza and CDM review not recorded in past 12 months

Select most recent data extract utilising the 'view extract' button - <https://help.pencs.com.au/display/CG/Navigating+CAT4>

If data extract > 1 month old, consider collecting a new data set to obtain up to date information -

<https://help.pencs.com.au/display/CG/COLLECTING+DATA+SETS>

Step 1 – Define your population

NB: Using the active patient filter will help narrow down current practice patients as it will only include patients who have attended the practice three or more times in the past 2 years.

The screenshot shows the 'General' filter tab in the CAT4 software. The 'Activity' section is highlighted with a red box, showing the 'Active (3x in 2yrs)' option selected. Other visible filters include Gender (Male, Female, Other), DVA (DVA < Any Color >, non DVA), Health Cover (Medicare No., No), Age (Start Age, End Age, Yrs, Mths, No Age), Last Visit (Any, < 6 mths, < 24 mths, Date Range), First Visit (None, < 15 mths, < 30 mths), Postcode (Include, Exclude), and City/Suburb (Include, Exclude). A 'Clear General' button is located at the bottom right.

In the Filters section, under the conditions tab, select COPD - 'Yes'

The screenshot shows the 'Conditions' filter tab in the CAT4 software. The 'Respiratory' section is highlighted with a red box, showing the 'COPD' option selected. Other visible conditions include Diabetes (Yes, No, Type II, Type I, Undefined Diabetic, Type I or II, Gestational), Cardiovascular (Hypertension, Heart Failure, Cardiovascular Disease (CVD), CHD, Stroke, MI, PAD, Carotid Stenosis, Renal Artery Stenosis), Musculoskeletal (Inflammatory Arthritis, Musculoskeletal Other, Bone Disease, Osteoporosis, Osteoarthritis), and Renal Impairment (Chronic Renal Failure, Acute Renal Failure, Dialysis, Kidney Transplant). A 'Clear Conditions' button is located at the bottom right.

Under the Date Range (results) tab, select <=12 months

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Clear Filters Recalculate

General Ethnicity Conditions Medications **Date Range (Results)** Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

Date Range for Last Recorded Result or Event

The date range selected will filter out results or events that are not within the selected period and treat them as not recorded. This filter is not applicable to graphs that display time periods.

All <= 6 mths <= 12 mths <= 15 mths <= 24 mths

Date Range (from - to)

01/03/2020 01/03/2020

Use for:
Measurements
Pathology
MBS Items
Maternal Health (birth date/weight)
Visit Types
Digital Health (SHS/ES uploads)
Smoking/Alcohol
Influenza
Cervical Screenings

Clear Results

In the top right corner click 'Recalculate'

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Clear Filters Recalculate

General Ethnicity Conditions Medications **Date Range (Results)** Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

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01/03/2020 01/03/2020

Use for:
Measurements
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MBS Items
Maternal Health (birth date/weight)
Visit Types
Digital Health (SHS/ES uploads)
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Influenza
Cervical Screenings

Clear Results

Step 2 – Identify your measures

In the reports section, click on the Visits tab and click on the 6-12 months

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Clear Filters Recalculate

General Ethnicity Conditions Medications Date Range (Results) Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

Chronic Mental Health Cancer Other

Diabetes	Respiratory	Cardiovascular	Musculoskeletal	Renal Impairment
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type II <input type="checkbox"/> No <input type="checkbox"/> Type I <input type="checkbox"/> No <input type="checkbox"/> Undefined Diabetic <input type="checkbox"/> No <input type="checkbox"/> Type I or II <input type="checkbox"/> Gestational <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Asthma <input type="checkbox"/> No <input checked="" type="checkbox"/> COPD <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Hypertension <input type="checkbox"/> No <input type="checkbox"/> Heart Failure <input type="checkbox"/> No <input type="checkbox"/> <u>Cardiovascular Disease (CVD)</u> <input type="checkbox"/> CHD <input type="checkbox"/> No <input type="checkbox"/> PAD <input type="checkbox"/> No <input type="checkbox"/> Stroke <input type="checkbox"/> No <input type="checkbox"/> Carotid Stenosis <input type="checkbox"/> No <input type="checkbox"/> MI <input type="checkbox"/> No <input type="checkbox"/> Renal Artery Stenosis <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Inflammatory Arthritis <input type="checkbox"/> No <input type="checkbox"/> Musculoskeletal Other <input type="checkbox"/> No <input type="checkbox"/> <u>Bone Disease</u> <input type="checkbox"/> Osteoporosis <input type="checkbox"/> No <input type="checkbox"/> Osteoarthritis <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Chronic Renal Failure <input type="checkbox"/> No <input type="checkbox"/> Acute Renal Failure <input type="checkbox"/> No <input type="checkbox"/> Dialysis <input type="checkbox"/> No <input type="checkbox"/> Kidney Transplant <input type="checkbox"/> No

Clear Conditions

Please select your GP Application from the Preferences: Extract Date: 01/03/2020 3:08 AM, Filtering By: Active Patient, Last Results <= 12 mths, Conditions (COPD - Yes), Selected: Last Visit (6-<12mths)

Demographics Ethnicity Data Quality Data Cleansing Allergies Smoking Alcohol Measures Pathology Disease Screening Co-morbidities Medications Diabetes SIP Items CKD Musculoskeletal CV Event Risk CHA₂DS₂/VA Score Immunisations Standard Reports MBS Items MBS Eligibility Sexual Health Viral Hepatitis Maternal Health Care **Visits** Dv

Last Visit • Visits Last Week (New Patients) Assigned Provider Visit Types Episode Count Contacts by OSR Worker Type Age Gender Visit Count Disease Visit Count

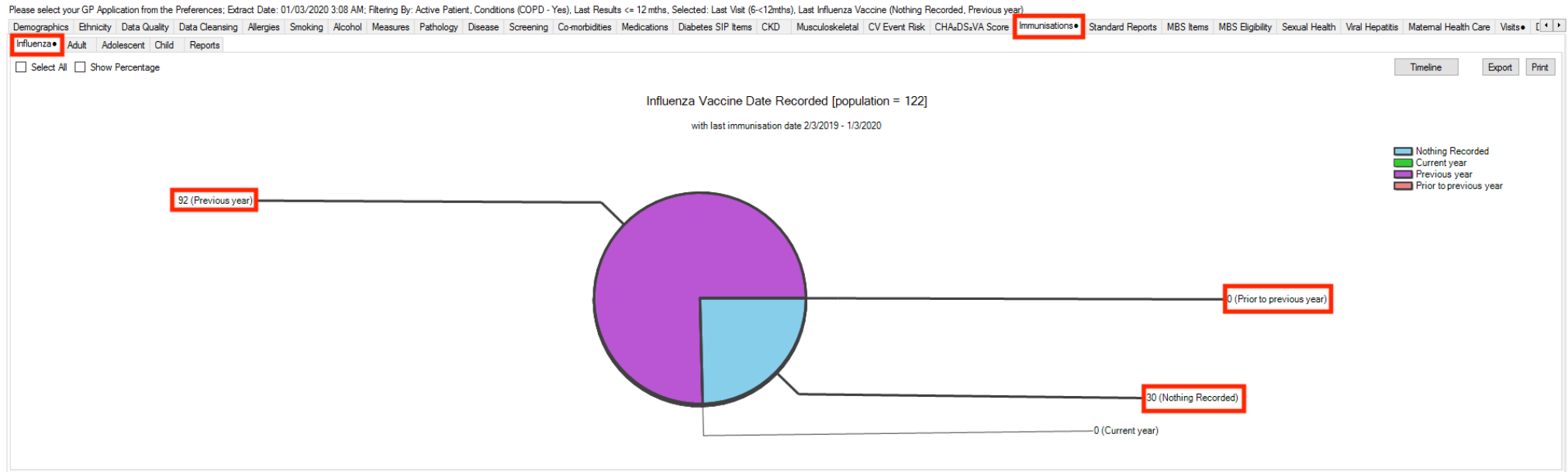
Select All Show Percentage

Timeline Export Print

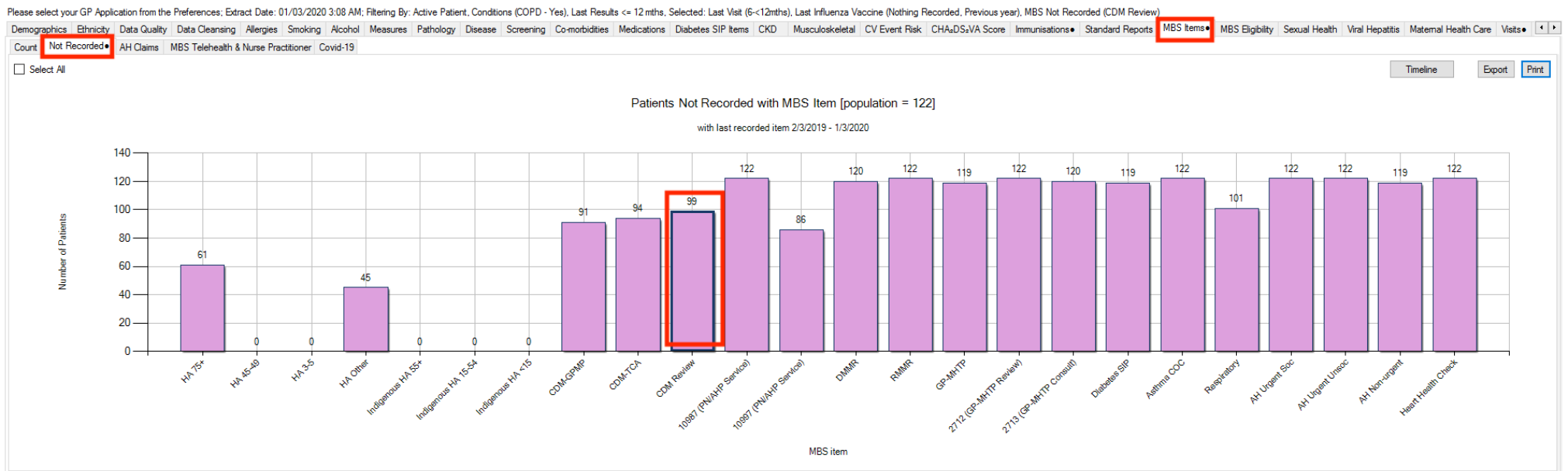
Last Visit Date [population = 122]

Visit Duration	Count
Nothing Recorded	0
< 6mths	106
6-<12mths	13
12-<15mths	0
15-<24mths	3
24-<30mths	0
30-<36mths	0
>=36mths	0

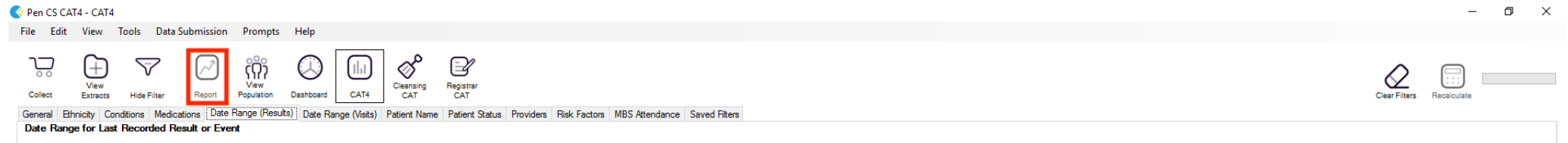
Click on the Immunisations tab and select Nothing Recorded, Previous Year and Prior to previous year



Click on the MBS items tab and then click on the not recorded tab. Select CDM review.



Click on the report tab located near the top of the screen



A patient list report will open showing all COPD patients with a last visit 6-12months, Influenza missing/overdue and CDM review not recorded.

Cross Tabulation Reidentify Report [patient count = 12]
Filtering By: Active Patient, Conditions (COPD - Yes), Last Results <= 12 mths, Selected: Last Visit (6-<12mths), Last Influenza Vaccine (Nothing Recorded, F Not Recorded (CDM Review))

ID	Surname	First Name	Known As	Sex	D.O.B (Age)	Address	City	Postcode	Phone (H/W)	Phone (M)	Last Visit	Last Influenza Vaccine
2324	Surname	Firstname_1941	Firstname_1941	F	01/03/1957 (63)	12 John St	Suburb Town	5669	H:07 50505050 W:07 505099999	1234999999	21/08/2019	24/0 Fluor Tetra 291
3010	Surname	Firstname_2425	Firstname_2425	M	01/03/1933 (87)	12 Jogger St	Suburb Town	3462	H:07 50505050 W:07 505099999	1234999999	15/07/2019	Not Rec
10172	Surname	Firstname_4597	Firstname_4597	F	01/03/1963 (57)	12 John St	Suburb Town	4423	H:07 50505050 W:07 505099999	1234999999	18/07/2019	01/0 Fluor
1520	Surname	Firstname_4956	Firstname_4956	M	01/03/1935 (85)	12 Jogger St	Suburb Town	4939	H:07 50505050 W:07 505099999	1234999999	29/04/2019	30/0 Fluor High Dos AB
6419	Surname	Firstname_6146	Firstname_6146	M	01/03/1937 (83)	12 Jogger St	Suburb Town	3240	H:07 50505050 W:07 505099999	1234999999	18/04/2019	18/0 Fluor 2561
5943	Surname	Firstname_7477	Firstname_7477	M	01/03/1939 (81)	12 Jogger St	Suburb Town	5694	H:07 50505050 W:07 505099999	1234999999	09/05/2019	16/0 Fluor

Number of Patients

MBS Item	Number of Patients
Hk 755	61
Hk 86-90	0
Hk 3-5	0
Hk Other	45
Indigenous HA 55+	0
Indigenous HA 15-54	0
Indigenous HA <15	0
CDM GPIP	0
CDM CA	0
CDM Review	0
10987 (P/W/APP Service)	0
10987 (P/W/APP Service)	0
DDMR	0
RMMR	0
GP MTP	0
212 (GP MTP Review)	0
212 (GP MTP Consent)	0
Diabetes 51P	0
Adminn OCC	22
Respiratory	101
AM Urgent Goc	122
AM Urgent Unseen	122
AM Nonurgent	119
Warm Health Check	122

Suggestion – your patient list should ideally have between 50-100 patients. If your patient list has a higher number, consider proceeding to step 3

Step 3 (optional) – To further narrow down your patient list please include one of the following options:

NB: A total of 5 items only can be used in a cross tabulation report

Option 1: No spirometry recorded

- In the report section click on Measures > Spirometry and select 'Nothing Recorded'. **Click the report tab to generate patient list.**

The screenshot shows the Pen CS CAT4 - CAT4 software interface. The 'Measures' tab is selected, and the 'Spirometry' filter is applied. The report title is 'Spirometry - Post-Bronchodilator Testing [population = 117] with last recorded result 2/6/2019 - 1/6/2020'. The pie chart shows the following data:

Category	Count
Nothing Recorded	100
FEV1/FVC < 0.7	8
FEV1/FVC >= 0.7	9

Option 2: No weight recorded

- In the report section click on Measures > BMI > Incomplete and select 'Missing Weight'. **Click the report tab to generate patient list.**

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General Ethnicity Conditions Medications Date Range (Results) Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

Chronic Mental Health Cancer Other

Diabetes		Respiratory		Cardiovascular		Musculoskeletal		Renal Impairment	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Type II	<input type="checkbox"/> No	<input type="checkbox"/> Asthma	<input type="checkbox"/> No	<input type="checkbox"/> Hypertension	<input type="checkbox"/> No	<input type="checkbox"/> Inflammatory Arthritis	<input type="checkbox"/> No	<input type="checkbox"/> Chronic Renal Failure	<input type="checkbox"/> No
<input type="checkbox"/> Type I	<input type="checkbox"/> No	<input checked="" type="checkbox"/> COPD	<input type="checkbox"/> No	<input type="checkbox"/> Heart Failure	<input type="checkbox"/> No	<input type="checkbox"/> Musculoskeletal Other	<input type="checkbox"/> No	<input type="checkbox"/> Acute Renal Failure	<input type="checkbox"/> No
<input type="checkbox"/> Undefined Diabetic	<input type="checkbox"/> No			<input type="checkbox"/> <u>Cardiovascular Disease (CVD)</u>		<input type="checkbox"/> <u>Bone Disease</u>	<input type="checkbox"/> No	<input type="checkbox"/> Dialysis	<input type="checkbox"/> No
<input type="checkbox"/> Type I or II				<input type="checkbox"/> CHD	<input type="checkbox"/> No	<input type="checkbox"/> Osteoporosis	<input type="checkbox"/> No		
<input type="checkbox"/> Gestational	<input type="checkbox"/> No			<input type="checkbox"/> Stroke	<input type="checkbox"/> No	<input type="checkbox"/> Osteoarthritis	<input type="checkbox"/> No	<input type="checkbox"/> Kidney Transplant	<input type="checkbox"/> No
				<input type="checkbox"/> MI	<input type="checkbox"/> No	<input type="checkbox"/> Renal Artery Stenosis	<input type="checkbox"/> No		

Please select your GP Application from the Preferences; Extract Date: 01/06/2020 3:12 AM; Filtering By: Active Patient, Conditions (COPD - Yes), Last Results <= 12 mths. Selected: Last Visit (6-<12mths), Last Influenza Vaccine (Nothing Recorded), MBS Items (CDM Review), BMI (Weight Only)

Demographics Ethnicity Data Quality Data Cleansing Allergies Smoking Alcohol Measures Pathology Disease Screening Co-morbidities Medications Diabetes SIP Items CKD Musculoskeletal CV Event Risk CHA₂DS₂-VA Score Immunisations Standard Reports MBS Items MBS Eligibility Sexual Health Viral Hepatitis Maternal Health Care Visits

BMI BMI Child(5-18) Weight/Height Child(0-4) Waist BP Spirometry Physical Activity

Select All Incomplete

Export Age bracket 5 Print

Count Average **Incomplete**

Incomplete Data Values for Calculating BMI
Count = 46
with last recorded weight result 2/6/2019 - 1/6/2020

Category	Number of Patients
Missing Weight + Height	8
Missing Height	4
Missing Weight	37

Option 3: No smoking status recorded

- In the report section click on Smoking > Status and select 'nothing recorded'. **Click the report tab to generate patient list.**

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Clear Filters Recalculate

General Ethnicity Conditions Medications Date Range (Results) Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

Chronic Mental Health Cancer Other

Diabetes	Respiratory	Cardiovascular	Musculoskeletal	Renal Impairment
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Type II <input type="checkbox"/> No	<input type="checkbox"/> Asthma <input type="checkbox"/> No	<input type="checkbox"/> Hypertension <input type="checkbox"/> No	<input type="checkbox"/> Inflammatory Arthritis <input type="checkbox"/> No	<input type="checkbox"/> Chronic Renal Failure <input type="checkbox"/> No
<input type="checkbox"/> Type I <input type="checkbox"/> No	<input checked="" type="checkbox"/> COPD <input type="checkbox"/> No	<input type="checkbox"/> Heart Failure <input type="checkbox"/> No	<input type="checkbox"/> Musculoskeletal Other <input type="checkbox"/> No	<input type="checkbox"/> Acute Renal Failure <input type="checkbox"/> No
<input type="checkbox"/> Undefined Diabetic <input type="checkbox"/> No		<input type="checkbox"/> <u>Cardiovascular Disease (CVD)</u>	<input type="checkbox"/> Bone Disease <input type="checkbox"/> No	<input type="checkbox"/> Dialysis <input type="checkbox"/> No
<input type="checkbox"/> Type I or II		<input type="checkbox"/> CHD <input type="checkbox"/> No <input type="checkbox"/> PAD <input type="checkbox"/> No	<input type="checkbox"/> Osteoporosis <input type="checkbox"/> No	
<input type="checkbox"/> Gestational <input type="checkbox"/> No		<input type="checkbox"/> Stroke <input type="checkbox"/> No <input type="checkbox"/> Carotid Stenosis <input type="checkbox"/> No	<input type="checkbox"/> Osteoarthritis <input type="checkbox"/> No	<input type="checkbox"/> Kidney Transplant <input type="checkbox"/> No
		<input type="checkbox"/> MI <input type="checkbox"/> No <input type="checkbox"/> Renal Artery Stenosis <input type="checkbox"/> No		

Clear Conditions

Please select your GP Application from the Preferences: Extract Date: 01/06/2020 3:12 AM; Filtering By: Active Patient, Conditions (COPD - Yes), Last Results <= 12 mths, Selected: Last Visit (6<12mths), Smoking (Not recorded , Not recorded), Last Influenza Vaccine (Nothing Recorded), MBS Items (CDM Review)

Demographics Ethnicity Data Quality Data Cleansing Allergies **Smoking** Alcohol Measures Pathology Disease Screening Co-morbidities Medications Diabetes SIP Items CKD Musculoskeletal CV Event Risk CHA₂DS₂VA Score Immunisations Standard Reports MBS Items MBS Eligibility Sexual Health Viral Hepatitis Maternal Health Care Visits

Status Cessation

Select All Show Percentage

Timeline Export Print

Smoking Status [population = 117]
with last review date 2/6/2019 - 1/6/2020

Smoking Status	Count
Nothing Recorded	52
Never Smoked	17
Ex Smoker	34
Daily Smoker	14
Irregular Smoker	0
Age<10 and Nothing Recorded	0

Legend:

- Daily Smoker
- Irregular Smoker
- Ex Smoker
- Never Smoked
- Nothing Recorded
- Age<10 and Nothing Recorded

Option 4: Current smoker

- In the report section click on Smoking > Status and select 'Daily Smoker'. **Click the report tab to generate patient list.**

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General Ethnicity Conditions Medications Date Range (Results) Date Range (Visits) Patient Name Patient Status Providers Risk Factors MBS Attendance Saved Filters

Chronic Mental Health Cancer Other

Diabetes		Respiratory		Cardiovascular				Musculoskeletal		Renal Impairment	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Type II	<input type="checkbox"/> No	<input type="checkbox"/> Asthma	<input type="checkbox"/> No	<input type="checkbox"/> Hypertension	<input type="checkbox"/> No	<input type="checkbox"/> Inflammatory Arthritis	<input type="checkbox"/> No	<input type="checkbox"/> Chronic Renal Failure	<input type="checkbox"/> No	<input type="checkbox"/> Chronic Renal Failure	<input type="checkbox"/> No
<input type="checkbox"/> Type I	<input type="checkbox"/> No	<input checked="" type="checkbox"/> COPD	<input type="checkbox"/> No	<input type="checkbox"/> Heart Failure	<input type="checkbox"/> No	<input type="checkbox"/> Musculoskeletal Other	<input type="checkbox"/> No	<input type="checkbox"/> Acute Renal Failure	<input type="checkbox"/> No	<input type="checkbox"/> Acute Renal Failure	<input type="checkbox"/> No
<input type="checkbox"/> Undefined Diabetic	<input type="checkbox"/> No			<input type="checkbox"/> <u>Cardiovascular Disease (CVD)</u>		<input type="checkbox"/> <u>Bone Disease</u>	<input type="checkbox"/> No	<input type="checkbox"/> Dialysis	<input type="checkbox"/> No	<input type="checkbox"/> Dialysis	<input type="checkbox"/> No
<input type="checkbox"/> Type I or II				<input type="checkbox"/> CHD	<input type="checkbox"/> No	<input type="checkbox"/> Osteoporosis	<input type="checkbox"/> No			<input type="checkbox"/> Kidney Transplant	<input type="checkbox"/> No
<input type="checkbox"/> Gestational	<input type="checkbox"/> No			<input type="checkbox"/> Stroke	<input type="checkbox"/> No	<input type="checkbox"/> Osteoarthritis	<input type="checkbox"/> No				
				<input type="checkbox"/> MI	<input type="checkbox"/> No	<input type="checkbox"/> Renal Artery Stenosis	<input type="checkbox"/> No				

Please select your GP Application from the Preferences: Extract Date: 01/06/2020 3:12 AM; Filtering By: Active Patient, Conditions (COPD - Yes), Last Results <= 12 mths, Selected: Last Visit (6<12mths), Smoking (Daily), Last Influenza Vaccine (Nothing Recorded), MBS Items (CDM Review)

Demographics Ethnicity Data Quality Data Cleansing Allergies **Smoking** Alcohol Measures Pathology Disease Screening Co-morbidities Medications Diabetes SIP Items CKD Musculoskeletal CV Event Risk CHA₂DS₂-VA Score Immunisations Standard Reports MBS Items MBS Eligibility Sexual Health Viral Hepatitis Maternal Health Care Visits

Status Cessation

Select All Show Percentage

Timeline Export Print

Smoking Status [population = 117]
with last review date 2/6/2019 - 1/6/2020

Smoking Status	Count
Daily Smoker	14
Irregular Smoker	0
Ex Smoker	34
Never Smoked	17
Nothing Recorded	52
Age<10 and Nothing Recorded	0
(Irregular Smoker)	0