

Indicated Conditions Report Details

Indicated CKD with no Diagnosis Report

The "Indicated CKD with no Diagnosis" Report displays patients where the staging of CKD, as determined by the combined results of kidney function (eGFR) and kidney damage (the level of albuminuria using ACR), indicates the possibility of CKD. The report displays:

- eGFR, ACR and the resulting Indicated Staging of CKD
- Color code for the Clinical Action Plan to manage CKD
- Other CKD Risk Factors

Patients on dialysis are displayed as 'level 5' CKD.

Patients with an eGFR = 0 and no ACR are displayed without action plan level and just with the word 'Stage' to indicate that there is some data in their record that requires review.

Red •Clinical Action Plan to be monitored 1-3 monthly	Orange •Clinical Action Plan to be monitored 3-6 monthly	Yellow •Clinical Action Plan to be monitored 12 monthly	No Colour patients without a CKD diagnosis and with a eGFR < 60 and no ACR
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For more information refer to Kidney Health Australia web site and the CKD Guideline Booklet available at www.kidney.org.au
Detection of CKD requires follow up testing once an abnormal result is recorded. The outcome of 3 tests over a 3 month period will inform a diagnosis. CAT4 is only using the most recent eGFR and ACR, not the last 3 results. This will

- inform a diagnosis if 3 tests have been done or
- flag that a patient should be recalled for follow up testing if there are not 3 results in the Patient Record.

		Albuminuria Stage		
Kidney Function Stage	GFR (mL/min/1.73m ²)	Normal (urine ACR mg/mmol) Male: < 2.5 Female: < 3.5	Microalbuminuria (urine ACR mg/mmol) Male: < 2.5 -25 Female: < 3.5-35	Macroalbuminuria (urine ACR mg/mmol) Male: > 25 Female: > 35
1	≥90	Not CKD unless haematuria, structural or pathological abnormalities present		
2	60-89			
3a	45-59			
3b	30-44			
4	15-29			
5	<15 or on dialysis			

Pen CS wishes to acknowledge the input of Dr Craig Nelson in the creation of this report.

Data Cleansing

Missing Demographics

Missing Clinical/Accreditation Items

Indicated CKD with no diagnosis

Indicated Diabetes with no diagnosis

Indicated Mental Health with no diagnosis

Indicated COPD with no diagnosis

Medication Review

Indicated

Reviewed

Patient List page 1 of 2 [count = 35]

Save & Remove

Export

Double-click a patient to open it in your clinical system (MD BP Zedmed)

Page No. 1

Go

Prev Page

Next Page

Clinical Action Plan

1-3mths

3-6mths

12mths

Note: CKD Stage is calculated using only the last eGFR and ACR.

	Surname	Firstname	DOB	Indication Date	Sex	eGFR	ACR	CKD	BSL	FBG	Smoking	Diabetes (Dx or HbA1c >= 6.5, BSL > 11.1 or FBG > 7)	Hypertension (Dx or BP > 140/90)	Obesity (BMI > 30)	CVD Dx	Indigenous and Age > 30	Assigned Provider	Confirm Condition Does Not Exist
▶	Surname	Firstname_1043	12/02/1961	23/01/2015	F	51.0	0.3	Stage 3a	5.4	5.2	Never smoked	Y		Y			Surname	☐
	Surname	Firstname_1122	12/02/1952	09/02/2015	F	77.0	8.2	Stage 2	5.2		Never smoked						Surname	☐
	Surname	Firstname_1224	12/02/1953	02/01/2015	M	49.0	0.3	Stage 3a	5.6	6.5							Surname	☐
	Surname	Firstname_1312	12/02/1954	27/01/2015	M	80.0	2.7	Stage 2	5.0		Never smoked	Y	Y				Surname	☐
	Surname	Firstname_1339	12/02/1954	06/01/2015	M	87.0	2.5	Stage 2	5.8		Ex smoker	Y	Y				Surname	☐
	Surname	Firstname_14	12/02/1921	08/04/2014	M	37.0	2.4	Stage 3b		6.8	Ex smoker						Surname	☐
	Surname	Firstname_1611	12/02/1957	20/11/2014	F	0.0	1.1	Stage 5	5.4				Y				Surname	☐
	Surname	Firstname_1796	12/02/1958	05/01/2015	F	58.0	0.6	Stage 3a	6.6		Never smoked	Y		Y			Surname	☐
	Surname	Firstname_187	12/02/1934	08/12/2014	M	68.0	4.4	Stage 2	5.0		Never smoked		Y		Y		Surname	☐
	Surname	Firstname_2022	12/02/1960	02/12/2014	M	80.0	28.4	Stage 3	5.5				Y	Y			Surname	☐
	Surname	Firstname_223	12/02/1936	14/01/2015	M	59.0	0.6	Stage 3a	6.9	5.5	Ex smoker	Y					Surname	☐
	Surname	Firstname_256	12/02/1937	26/09/2014	M	59.0	21.3	Stage 3a	7.3		Ex smoker	Y	Y	Y	Y		Surname	☐
	Surname	Firstname_2706	12/02/1967	17/11/2014	M	79.0	2.6	Stage 2	6.2		Ex smoker	Y					Surname	☐
	Surname	Firstname_326	12/02/1940	11/12/2014	F	40.0	0.4	Stage 3b	6.3		Never smoked		Y				Surname	☐
	Surname	Firstname_3498	12/02/1974	30/10/2014	F	109.9	56	Stage 1			Never smoked						Surname	☐
	Surname	Firstname_397	12/02/1942	12/01/2015	F	59.0	1.0	Stage 3a	5.7		Ex smoker						Surname	☐
	Surname	Firstname_429	12/02/1942	15/12/2014	M	87.0	3.0	Stage 2	6.9		Ex smoker	Y	Y	Y	Y		Surname	☐
	Surname	Firstname_453	12/02/1943	16/01/2015	M	56.0	0.8	Stage 3a	5.6		Ex smoker				Y		Surname	☐
	Surname	Firstname_47	12/02/1925	25/10/2013	F	56.0	0.7	Stage 3a	5.8	5.9	Ex smoker		Y		Y		Surname	☐
	Surname	Firstname_472	12/02/1943	05/12/2014	F	63.0	4.6	Stage 2	5.2		Ex smoker						Surname	☐

Indicated Diabetes with no Diagnosis Report

The "Indicated Diabetes with no Diagnosis" Report will display the likelihood of Diabetes based on HbA1c, Anti-diabetic Medication and/or FBG being recorded in the patient record without a diagnosis:

- Red = likely
- Orange = possible
- Yellow = flag for review

Red: ANY of the following •HbA1c >= 6.5 •OR HbA1c recorded AND on an Anti-diabetic Medication •OR FBG > 7	Orange: ANY of the following •HbA1c >6 and <6.5 •OR on an Anti-diabetic Medication excluding Metformin	Yellow : ANY of the following •on Metformin
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Medications need to be long term to be included.

The report displays

- HbA1c, Anti-diabetic Medication, FBG and the resulting likelihood
- Diabetes Care items that have been recorded

Pen CS wishes to acknowledge the input of Dr Ralph Audehm in the creation of this report.

COPD LAMA/LABA Medications	SPILOTO RESPIMAT (Tiotropium/Olodaterol) BRIMICA GENUAIR (Aclidinium/Formoterol) ULTIBRO BREEZHALER (Indacaterol/glycopyrronium) ANORO ELLIPTA (Umeclidinium/vilanterol)
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Data Cleansing																
Missing Demographics Missing Clinical/Accreditation Items Indicated CKD with no diagnosis Indicated Diabetes with no diagnosis Indicated Mental Health with no diagnosis Indicated COPD with no diagnosis Medication Review																
Indicated Reviewed																
Patient List page 1 of 2 [count = 22]																
Double-click a patient to open it in your clinical system (MD.BP.Zedmed) Page No. 1 Go Save & Remove Export Prev Page Next Page																
☐ Likely ☐ Possible																
Surname	Firstname	DOB	Indication Date	Sex	Tiotropium Medication	Spirometry FEV1/FVC	CVD	Osteoporosis	Depression	Anxiety	Smoking	Physical Activity	Flu vaccination	Pneumococcal vaccination	Assigned Provider	Confirm Condition Does Not Exist
Surname	Firstname_1176	12/02/1963	20/06/2014	M	Y										Surname	☐
Surname	Firstname_123	12/02/1931	14/08/2014	M	Y		Y						Y		Surname	☐
Surname	Firstname_1298	12/02/1954	19/01/2011	F	Y						Smoker				Surname	☐
Surname	Firstname_1305	12/02/1954	12/05/2003	M	Y						Ex smoker		Y	Y	Surname	☐
Surname	Firstname_1551	12/02/1956	09/08/2014	M	Y						Smoker				Surname	☐
Surname	Firstname_167	12/02/1933	13/06/2012	M	Y						Never smoked		Y	Y	Surname	☐
Surname	Firstname_1841	12/02/1959	07/02/2007	M	Y						Smoker				Surname	☐
Surname	Firstname_2012	12/02/1960	13/09/2013	M	Y						Smoker				Surname	☐
Surname	Firstname_2117	12/02/1961	09/04/2014	M	Y				Y	Y			Y		Surname	☐
Surname	Firstname_2194	12/02/1962	27/06/2013	M	Y						Smoker		Y		Surname	☐
Surname	Firstname_221	12/02/1936	20/08/2014	M	Y										Surname	☐
Surname	Firstname_2357	12/02/1964	27/12/2014	M	Y						Smoker				Surname	☐
Surname	Firstname_2585	12/02/1965	08/12/2014	F	Y				Y		Ex smoker				Surname	☐
Surname	Firstname_2771	12/02/1968	05/02/2014	F	Y					Y	Smoker				Surname	☐
Surname	Firstname_289	12/02/1939	23/04/2013	F	Y		Y				Smoker		Y	Y	Surname	☐
Surname	Firstname_296	12/02/1939	22/09/2014	F	Y		Y				Smoker		Y	Y	Surname	☐
Surname	Firstname_348	12/02/1940	19/07/2013	F	Y		Y		Y		Ex smoker		Y	Y	Surname	☐
Surname	Firstname_368	12/02/1941	27/01/2004	M	Y		Y				Ex smoker		Y	Y	Surname	☐
Surname	Firstname_556	12/02/1945	22/09/2012	M	Y						Never smoked		Y		Surname	☐
Surname	Firstname_587	12/02/1946	31/05/2013	F	Y								Y		Surname	☐

A FEV1/FVC ratio of less than 0.7 indicates airflow limitation.

The predicted normal values are dependent on age, gender and height. The tables are provided in Appendix B of 'The Spirometry Handbook'.

Indicated Osteoporosis with no Diagnosis

The "Indicated Osteoporosis with no diagnosis" prompt will display when a patient meeting the criteria below is opened in the clinical system. The likelihood of the patient having osteoporosis rises from Yellow over Orange to Red as per the table below.

Red - Likely	Orange – Possible	Yellow – Review
- Aged > 50 with a coded history of a Minimal trauma fracture) - On treatment and without a cancer diagnosis	On treatment (Medication) and with a coded history of a Minimal trauma fracture and with a cancer diagnosis	On treatment (Medication) and with a cancer diagnosis

The report will provide the following fields:

- Surname
- First name
- Date of Birth
- Indication Date
- Sex
- Age
- Minimal Trauma Fracture (Type)
- Treatment (Y/N)
- Cancer (Y/N)
- Vitamin D
- BMD (Date)
- Assigned Provider

The following medications are currently considered:

- Bisphosphonates: alendronate, risedronate, zoledronic acid, pamidronate
- Selective oestrogen modulating drugs: raloxifene
- RANK Ligand Inhibitor: denosumab
- Anabolic drugs: teriparatide/pamathyroid tumor hormone (1-34)

Missing Demographics

Missing Clinical/Accreditation Items

Indicated CKD with no diagnosis

Indicated Diabetes with no diagnosis

Indicated Mental Health with no diagnosis

Indicated COPD with no diagnosis

Indicated Osteoporosis with no diagnosis

Medication Review

Indicated

Reviewed

Patient List page 1 of 8 [count = 144]

Save & Remove

Export

Double-click a patient to open it in your clinical system (MD.BP.Zedmed)

Page No.

1

Go

Prev Page

Next Page

Clinical Action Plan

Likely

Possible

Review

	Surname	Firstname	DOB	Indication Date	Sex	Age	Fracture (minimum-trauma)	Osteoporosis Medication	Cancer	Vitamin D	BMD	Assigned Provider	Confirm Condition Does Not Exist
▶	Surname	Firstname_101	20/04/1939	24/02/2010	F	78		Y				Surname_9	☐
	Surname	Firstname_1166	20/04/1945	16/06/2011	F	72		Y	Y			Surname_18	☐
	Surname	Firstname_1213	20/04/1937	08/11/2013	F	80		Y	Y	84		Surname_18	☐
	Surname	Firstname_1241	20/04/1941	31/08/2016	M	76		Y		93		Surname_5	☐
	Surname	Firstname_1250	20/04/1921	20/08/2016	F	96	Fractured femoral neck			72		Surname_8	☐
	Surname	Firstname_1485	20/04/1935	17/10/2013	F	82		Y				Surname_9	☐
	Surname	Firstname_1546	20/04/1932	10/10/2016	F	85		Y	Y	83		Surname_8	☐
	Surname	Firstname_1600	20/04/1928	19/12/1969	M	89	Fracture - Femur					Surname_9	☐
	Surname	Firstname_1623	20/04/1936	12/11/2015	F	81		Y		62		Surname_5	☐
	Surname	Firstname_184	20/04/1947	01/01/2000	M	70	Fracture - Radius					Surname_18	☐

Medication review for Diabetes with elevated HbA1c

The "Medication review > Diabetes with elevated HbA1c" Report will display patients with Type 2 Diabetes whose HbA1c is not being controlled on their current Antidiabetic medications.

Patients will appear on the report where they meet the following criteria:

- Diabetes Type 2
- HbA1c > 8%

The report will display the Antidiabetic medications the patient is currently taking:

Oral Hyperglycaemics	Injectables
•Number of OHA Classes	•GLP-1
•List of OHA Classes	•Insulin

This report provides the opportunity to review and modify the medications being taken to try and bring the HbA1c level into normal range. It also relates to the Diabetes SIP item 'medication review' that should be performed yearly for patients with diabetes.

Data Cleansing

Missing Demographics

Missing Clinical/Accreditation Items

Indicated CKD with no diagnosis

Indicated Diabetes with no diagnosis

Indicated Mental Health with no diagnosis

Indicated COPD with no diagnosis

Medication Review

Diabetes with elevated HbA1c > 8%

Patient List page 1 of 2 [count = 21]

Double-click a patient to open it in your clinical system (MD.BP.Zedmed)

Page No. 1

Go

Prev Page

Export

Next Page

	Surname	Firstname	DOB	Sex	HbA1c	Number of OHA Classes	List of OHA Classes	GLP1	Insulin	Assigned Provider
▶	Surname	Firstname_1123	12/02/1952	M	8.7	0		N	N	Surname
	Surname	Firstname_1268	12/02/1954	M	8.6	2	Metformin,Sulfonylurea	N	N	Surname
	Surname	Firstname_1427	12/02/1955	M	8.3	2	Metformin,Sulfonylurea	N	N	Surname
	Surname	Firstname_1442	12/02/1955	M	12.3	1	Metformin	N	Y	Surname
	Surname	Firstname_1674	12/02/1957	M	9.7	2	Metformin,Sulfonylurea	N	Y	Surname
	Surname	Firstname_184	12/02/1934	F	8.1	2	Metformin,Sulfonylurea	N	N	Surname
	Surname	Firstname_194	12/02/1935	M	9.3	0		N	N	Surname
	Surname	Firstname_2006	12/02/1960	M	8.9	3	Metformin,Sulfonylurea,SGLT-2	N	N	Surname
	Surname	Firstname_2020	12/02/1960	M	11.6	3	Metformin,Sulfonylurea,Glitazone	N	N	Surname
	Surname	Firstname_2275	12/02/1963	M	11.4	0		N	N	Surname
	Surname	Firstname_273	12/02/1938	M	8.2	1	Sulfonylurea	N	N	Surname
	Surname	Firstname_2880	12/02/1969	M	11.9	0		N	N	
	Surname	Firstname_370	12/02/1941	M	8.6	1	Metformin	N	N	Surname
	Surname	Firstname_429	12/02/1942	F	8.4	1	Metformin	N	N	Surname
	Surname	Firstname_463	12/02/1943	M	10.0	1	Metformin	N	Y	Surname
	Surname	Firstname_634	12/02/1946	F	9.7	2	Metformin,Sulfonylurea	N	Y	Surname
	Surname	Firstname_673	12/02/1947	F	9.0	1	Metformin	N	Y	Surname
	Surname	Firstname_730	12/02/1948	F	8.4	2	Metformin,Sulfonylurea	N	N	Surname
	Surname	Firstname_858	12/02/1949	M	8.1	0		N	Y	Surname
	Surname	Firstname_943	12/02/1950	M	8.5	2	Sulfonylurea,DPP-4	N	N	Surname

Accessing a Patient Record (All Reports)

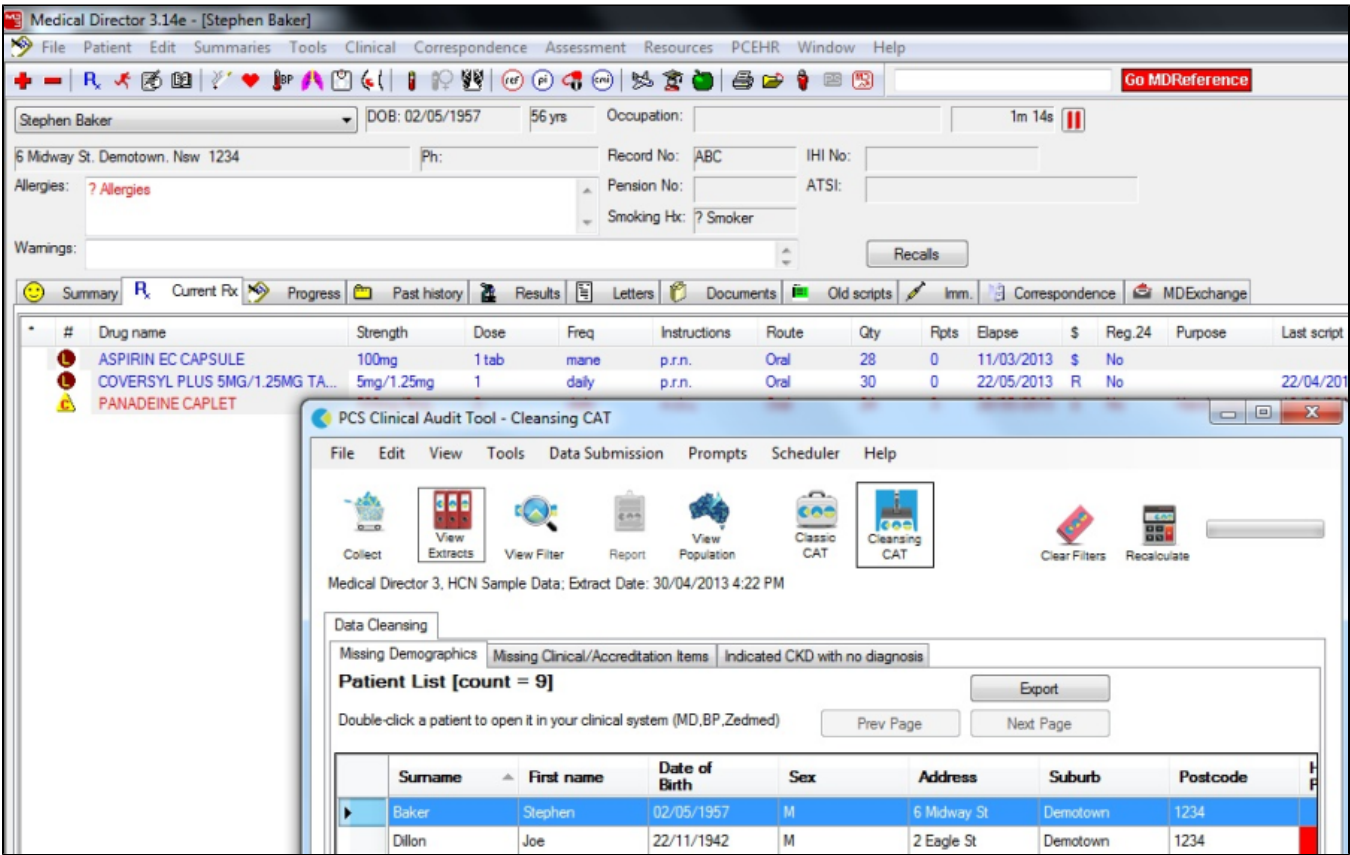
To access a patient record, double-click anywhere on the row containing the patient's details within the displayed report. This will open the patient record within the appropriate clinical system.

Note: The clinical system must be open and logged in for the above step to complete. If the clinical system is not open, an alert message will pop up requesting the clinical system be started.

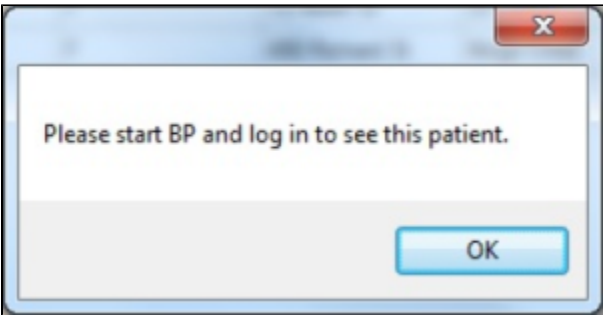
Clinical systems where this functionality is currently provided are

- Medical Director
- Best Practice
- Zedmed

Other clinical systems are planned to be added.



If your clinical system is not open you will be alerted that you need to start it and login



Condition Does Not Exist Option

CAT4 has an option to remove a patient from the Cleansing View reports by confirming that a particular condition does not exist. This will stop the patient from appearing on the Cleansing View and Cleansing App in Topbar. Only users of Topbar and CAT4 can use this option as it uses the Topbar server to store the information. CAT4 needs to be linked to Topbar in the Edit/Preferences/Topbar settings to activate this function, the details are provided here: Linking CAT4 to Topbar

Excluding patients can be done in CAT4 by using the Cleansing View or in Topbar in the Cleansing App. This guide describes the process for CAT4, please refer to the Cleansing App for Topbar users.

The following reports allow users to exclude patients from future reports and notifications:

- Indicated CKD with no diagnosis
- Indicated Diabetes with no diagnosis
- Indicated Mental Health with no diagnosis
- Indicated COPD with no diagnosis
- Indicated Osteoporosis with no diagnosis

If a patient has new results such as pathology or medications that indicate the condition exists after a patient has been reviewed, the patient will appear again on the 'indicated condition' report. For example:

1. A patient taking anti-diabetic medication since many years but the patient doesn't have diabetes and has thus been removed from the 'indicated diabetes without diagnosis' report and the respective Topbar prompt
2. This patient has a FBG and/or HbA1c done and the values indicate that the patient might have diabetes, but no diagnosis is recorded.
3. Now the patient appears again on the 'indicated diabetes without diagnosis' report and will receive the prompt in Topbar

Each report has a column called 'Confirm Condition Does Not Exist' and a 'Save & Remove' button as shown below:

Data Cleansing

Missing Demographics | Missing Clinical/Accreditation Items | Indicated CKD with no diagnosis | Indicated Diabetes with no diagnosis | Indicated Mental Health with no diagnosis | Indicated COPD with no diagnosis | Medication Review | Topbar Prompts Reports

Indicated | Reviewed

Patient List [count = 2]

Double-click a patient to open it in your clinical system (MD.BP.Zedmed) Page No. Go

Double-click a patient to open it in your clinical system (MD.BP.Zedmed) Page No. Go

■ Likely ■ Possible

	Surname	Firstname	DOB	Indication Date	Sex	Tiotropium Medication	Spirometry FEV1,FVC	CVD	Osteoporosis	Depression	Anxiety	Smoking	Physical Activity	Flu vaccination	Pneumococcal vaccination	Assigned Provider	Confirm Condition Does Not Exist
▶	Andrews	Heather	12/05/1963	18/02/2014	F	Y						Smoker		Y		Dr. A. Practitioner	☐
	Citizen	John	01/02/1949	17/06/2014	M	Y						Never smoked				Dr. A. Practitioner	☐

To remove a patient from the list in CAT4 (and the Topbar notifications) for the displayed chronic condition tick the box in the 'Confirm Condition Does Not Exist' and then click the 'Save & Remove' button.

This will immediately remove the patient from the 'Indicated' report tab shown above and add the patient to the second tab called 'Reviewed':

Indicated | Reviewed

Patient List [count = 2]

Double-click a patient to open it in your clinical system (MD.BP.Zedmed) Page No. Go

Double-click a patient to open it in your clinical system (MD.BP.Zedmed) Page No. Go

■ Likely ■ Possible

	Surname	Firstname	DOB	Indication Date	Sex	Tiotropium Medication	Spirometry FEV1,FVC	CVD	Osteoporosis	Depression	Anxiety	Smoking	Physical Activity	Flu vaccination	Pneumococcal vaccination	Assigned Provider	Reviewed by	Review Date	Software Used
▶	Accept	Three	12/06/1995	24/12/2014	M	Y										Dr. A. Practitioner	Mathias	07/07/2015	Topbar
	Tester	Timothy	12/12/1966	07/07/2015	M	Y										Dr. A. Practitioner	Mathias	07/07/2015	ClinicalAudit

The 'Reviewed' tab shows any patients who have been removed from the 'Indicated' tab for the current indicated chronic condition and also the user name of the person who removed them, the date and software used to remove them. The report will show patients removed by CAT4 as well as those removed by Topbar, as shown above.