



Osteoporosis Prevention & Management

- Using Best Practice & MedicalDirector Clinical Software -

Presented by: Katrina Otto, Train IT Medical



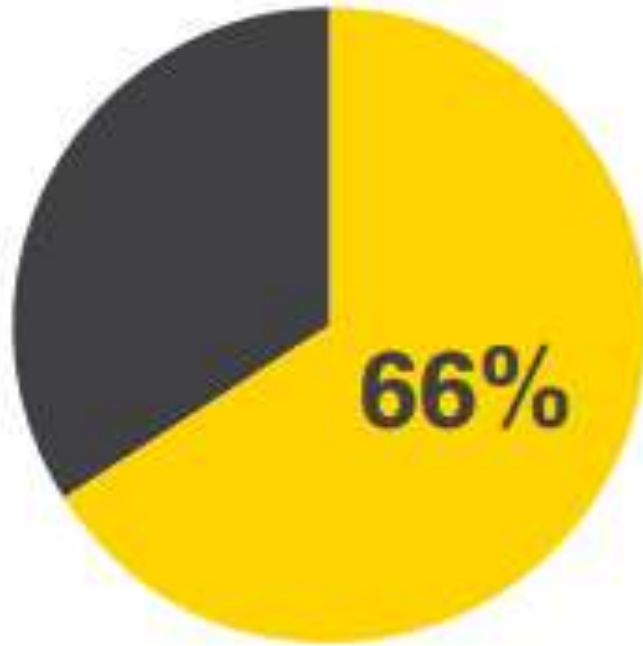
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Learning Objectives:

1. Identify patients at risk of osteoporosis using available clinical software tools.
2. Improve osteoporosis management using Best Practice & MedicalDirector Clinical Software.
3. Develop an understanding of national primary care data quality improvement initiatives.
4. Learn tips for practice quality improvements & change leadership.


Australians over 50 who currently have osteoporosis and osteopenia



**4.74
million**

**AUSTRALIANS OVER 50
WITH POOR BONE HEALTH**

[Osteoporosis Australia](https://osteoporosisaustralia.org.au)



By 2022, it is estimated that 6.2 million
Australians older than 50 years of age will
have osteoporosis or osteopenia.

Total cost...expected to be \$33.6 billion.

Patients over 70 years and at risk of osteoporotic fracture

1. Search > patient > AGE greater than or equal to 70
2. Condition:
DEXA – NOT
DEXA Normal – NOT
3. Currently taking drug:
ALENDRONATE – NOT
RISEDRONATE – NOT
DENOSUMAB – NOT
ZOLEDRONIC ACID – NOT
TERIPARATIDE – NOT
4. Currently taking drug class
HRT – NOT
5. Seen by: Any doctor in last 2 years.

Patients over 50 years with a history of minimal trauma fracture

1. Search > patient > AGE greater than or equal to 50
2. Condition:
 - Fracture – Colles - OR
 - Wrist Fracture – OR
 - Femoral Fracture – OR
 - Femoral Shaft – OR
 - Femoral Neck – OR
 - Fracture – Vertebra – OR
 - Spinal Fracture – ADD to SEARCH CRITERIA
3. Currently taking drug:
 - ALENDRONATE – NOT
 - RISEDRONATE – NOT
 - DENOSUMAB – NOT
 - ZOLEDRONIC ACID – NOT
 - TERIPARATIDE (Forteo) – NOT
4. Currently taking drug class
 - HRT – NOT
5. Seen by: Any doctor in last 2 years.

Reframe Group 3

Patients diagnosed with Osteoporosis but non-adherent with their management plan



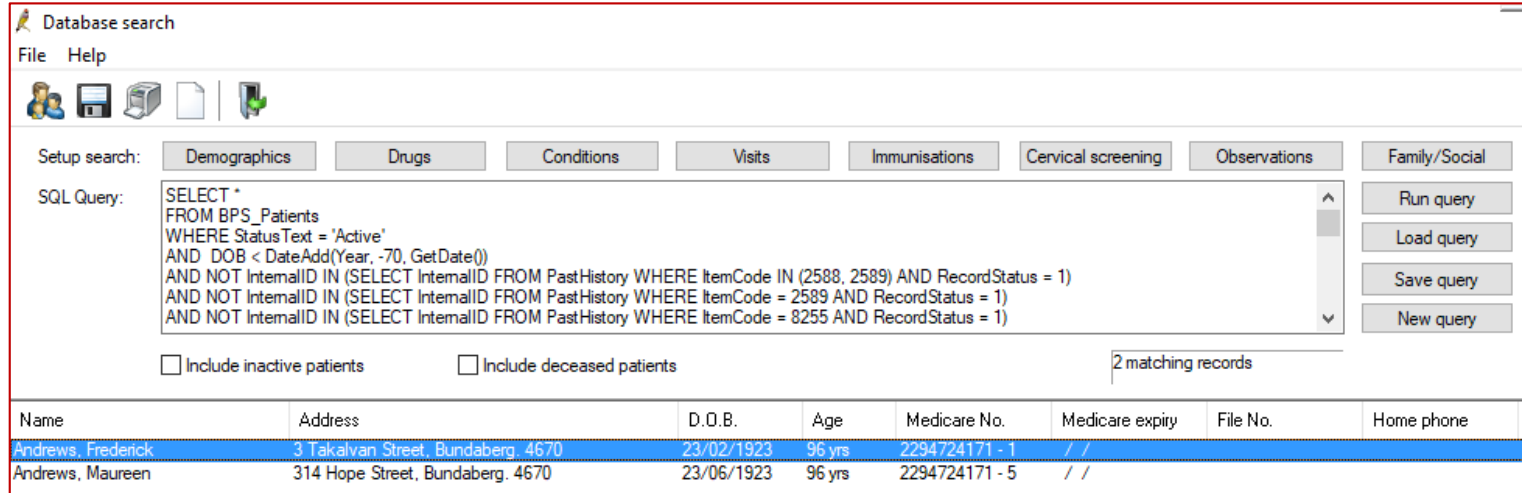
MedicalDirector

1. Search > patient > **AGE greater than or equal to 70**
2. Previous script for drug:
**ALENDRONATE or
RISEDRONATE
DENOSUMAB
ZOLEDRONATE**
3. Seen by: **Any doctor in last 2 years.**

Reframe Group 1



Patients over 70 years and at risk of osteoporotic fracture



Database search

File Help

Setup search: Demographics Drugs Conditions Visits Immunisations Cervical screening Observations Family/Social

SQL Query:

```
SELECT *
FROM BPS_Patients
WHERE Status Text = 'Active'
AND DOB < DateAdd(Year, -70, GetDate())
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode IN (2588, 2589) AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode = 2589 AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode = 8255 AND RecordStatus = 1)
```

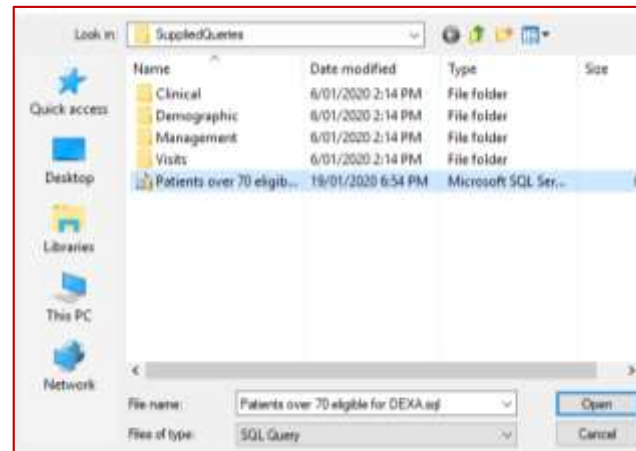
Include inactive patients Include deceased patients 2 matching records

Name	Address	D.O.B.	Age	Medicare No.	Medicare expiry	File No.	Home phone
Andrews, Frederick	3 Takalvan Street, Bundaberg. 4670	23/02/1923	96 yrs	2294724171 - 1	//		
Andrews, Maureen	314 Hope Street, Bundaberg. 4670	23/06/1923	96 yrs	2294724171 - 5	//		



1. Build query.
2. Run query.
3. Save query.

NEXT TIME:
4. Load query
5. Run query.

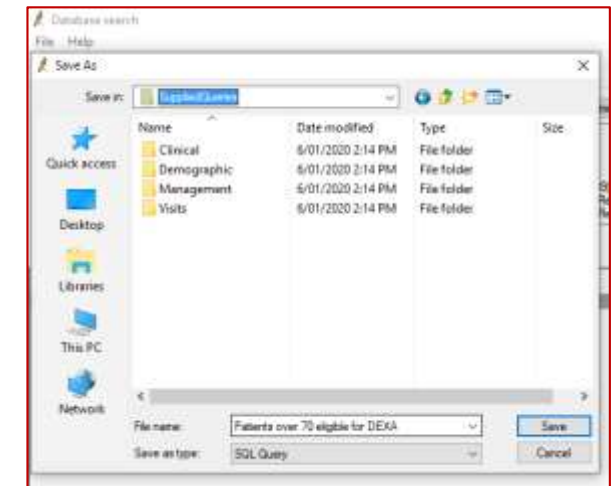


Look in: SuppliedQueries

Name	Date modified	Type	Size
Clinical	6/01/2020 2:14 PM	File folder	
Demographic	6/01/2020 2:14 PM	File folder	
Management	6/01/2020 2:14 PM	File folder	
Visits	6/01/2020 2:14 PM	File folder	
Patients over 70 eligib...	18/01/2020 6:54 PM	Microsoft SQL Ser...	

File name: Patients over 70 eligible for DEXA.sql

File of type: SQL Query



Save As

Save in: SuppliedQueries

Name	Date modified	Type	Size
Clinical	6/01/2020 2:14 PM	File folder	
Demographic	6/01/2020 2:14 PM	File folder	
Management	6/01/2020 2:14 PM	File folder	
Visits	6/01/2020 2:14 PM	File folder	

File name: Patients over 70 eligible for DEXA

Save as type: SQL Query


```

SELECT *
FROM BPS_Patients
WHERE StatusText = 'Active'
AND DOB < DateAdd(Year, -70, GetDate())
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode IN (2588, 2589) AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode = 2589 AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM PastHistory WHERE ItemCode = 8255 AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM VisitReason WHERE Reason LIKE '%Osteoporosis%' AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM VisitReason WHERE Reason LIKE '%Osteoporosis, steroid induced%' AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM VisitReason WHERE Reason LIKE '%Bone densitometry%' AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM VisitReason WHERE Reason LIKE '%Bone density scan%' AND RecordStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE DrugName LIKE 'Aclasta%' AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE DrugName LIKE 'Actonel%' AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE DrugName LIKE 'Evista%' AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE DrugName LIKE 'Forteo%' AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (10677,11126,9676,10523,208,206,207,209,9923,10867,11685,10165,12388,11135,11766,12743,14440,16908,3033,3031,3032,3034,9922,10866,11519,10166,10524,10167)
AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (16930,16931,15833) AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (11725,12177,11726,12178) AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (12843,2756,17085,6248) AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (12897,11966,12014,109,108,11995,11996,11997,110,9805,12689,10699,11133,17335,11993,12909,6408,6407,9410,12001,11132,12002,9804,12003,10700) AND
RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (11088,11089) AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT InternalID FROM CurrentRx WHERE ProductID IN (10857,23709,17143,17145,17151,7969,7968,17152,10961,18690,7975,7974,17153) AND RecordStatus = 1 AND RxStatus = 1)
AND NOT InternalID IN (SELECT ScriptItems.InternalID FROM ScriptItems INNER JOIN Prescriptions ON ScriptItems.ScriptID = Prescriptions.ScriptID WHERE ProductName LIKE 'Aclasta%' AND Prescriptions.RecordStatus = 1)
AND NOT InternalID IN (SELECT ScriptItems.InternalID FROM ScriptItems INNER JOIN Prescriptions ON ScriptItems.ScriptID = Prescriptions.ScriptID WHERE ProductName LIKE 'Actonel%' AND Prescriptions.RecordStatus = 1)
AND NOT InternalID IN (SELECT ScriptItems.InternalID FROM ScriptItems INNER JOIN Prescriptions ON ScriptItems.ScriptID = Prescriptions.ScriptID WHERE ProductName LIKE 'Evista%' AND Prescriptions.RecordStatus = 1)
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AND NOT InternalID IN (SELECT ScriptItems.InternalID FROM ScriptItems INNER JOIN Prescriptions ON ScriptItems.ScriptID = Prescriptions.ScriptID WHERE ProductID IN (12843,2756,17085,6248) AND Prescriptions.RecordStatus = 1)
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AND NOT InternalID IN (SELECT ScriptItems.InternalID FROM ScriptItems INNER JOIN Prescriptions ON ScriptItems.ScriptID = Prescriptions.ScriptID WHERE ProductID IN (10857,23709,17143,17145,17151,7969,7968,17152,10961,18690,7975,7974,17153)
AND Prescriptions.RecordStatus = 1)
AND InternalID IN (SELECT InternalID FROM Visits WHERE VisitDate >= '20180119' AND RecordStatus = 1)
ORDER BY surname, firstname

```

Actions, Recalls and Reminders – a quick overview

OSTEOPOROSIS MEDS REVIEW REQUIRED (>= 12 MONTHS SINCE LAST SCRIPT)

The screenshot displays a medical software interface for a patient named Mrs Julie ANDREWS. The patient's details include DOB: 03/03/1936, Gender: Female, Occupation: Retired, and a photo. A table of medications is visible, listing MAREVAN TABLET with strengths of 3mg and 1mg. An 'Outstanding Actions' dialog box is open, titled 'Add Action to List'. It features a 'Doctor' dropdown set to 'Dr A Practitioner' and an 'Action Due Date' of '06/03/2018'. The 'Action description' field is highlighted with a red box and contains the text 'OSTEOPOROSIS MEDS REVIEW REQUIRED (>= 12 MONTHS SINCE LAST SCRIPT)'. Below this is a scrollable list of other actions: ANNUAL HEALTH ASSESSMENT, ASTHMA REVIEW, BLOOD PRESSURE REVIEW, CHOLESTEROL REVIEW, COLONOSCOPY, DEPO RALOVERA, DIABETES REVIEW, FULL MEDICAL CHECK-UP, GARDASIL DOSE 2, GARDASIL DOSE 3, GENERAL CHECK-UP, and GLUCOSE. The 'Save' button at the bottom of the dialog is also highlighted with a red box.



Actions, Recalls and Reminders – a quick overview

OSTEOPOROSIS MEDS REVIEW REQUIRED (>= 12 MONTHS SINCE LAST SCRIPT)

Mr Alan Abbott

File Open Request Clinical View Utilities Bp Comms Help

Family members: Mr Alan Abbott Jump Open

Name: Alan Abbott D.O.B.: 09/03/1972 Age: 47 yrs Birth Sex: Male 1m 36s Finalise visit

Address: 1 Harmony Street Rosebud 3939 Phone: (m) 0424580286 Gender: Not Recorded Pronouns:

Medicare No.: Record No.: Pension No.: 838383838 Comment:

Occupation: Tobacco: Non smoker Alcohol: Elite sports: Ethnicity: Australian

Blood Group: Advance Care Directive:

Allergies / Adverse Drug Reactions: Reactions Notifications:

Item	Reaction	Severity	Type	Due	Reason
Aspirin	Anaphylaxis	Severe	Action	19/01/2020	Osteoporosis Meds Review Required (>= 12 months since last script)
			Preventive health	19/01/2020	A 40 - 49 year old Diabetes Risk Assessment should be considered!
			Preventive health	19/01/2020	A 45 - 49 year old Health Check should be considered!





Pen CS TOPBAR



Amgen REFAME Topbar App



Easy access to reporting relating to patients that have osteoporosis risk factors.

Simple view of the patient's risk and other relevant factors in one table.

- Patients 70 years of age and older and never had a DXA, or have not had a DXA within the last 2 years.
or
- Patients that have experienced a fracture since the age of 50.

When a patient meeting one of the criteria above is opened in MD or Bp, the app will become active and show a notification in a red circle.

[Watch free Topbar webinar](#)



Coding is essential



Free CSIRO Data Quality Courses

Three course cards are displayed side-by-side. Each card has a white background with a teal border and a teal square icon at the bottom right. The top of each card features the "Free" logo and the "Train IT Medical" logo. The first card is for "MedicalDirector" software, the second for "Bp Premier" software, and the third for "COMMUNICARE" software. Each card includes the text "CSIRO Primary Care Data Quality Education Package Using [Software Name]", a "See more..." button, and a progress indicator at the bottom that says "87% COMPLETE".

Free Train IT Medical MedicalDirector
CSIRO Primary Care Data Quality Education Package Using MEDICAL DIRECTOR CLINICAL SOFTWARE
An educational learning activity
Train IT Medical Pty Ltd
See more...

Free Train IT Medical Bp Premier
CSIRO Primary Care Data Quality Education Package Using BP PREMIER SOFTWARE (BP)
An educational learning activity
Train IT Medical Pty Ltd
See more...

Free Train IT Medical
CSIRO Primary Care Data Quality Education Package Using COMMUNICARE
An educational learning activity
Train IT Medical Pty Ltd
See more...

CSIRO Primary Care Data Quality Education Package – MedicalDirector

CSIRO Primary Care Data Quality Education Package – Bp Premier Software

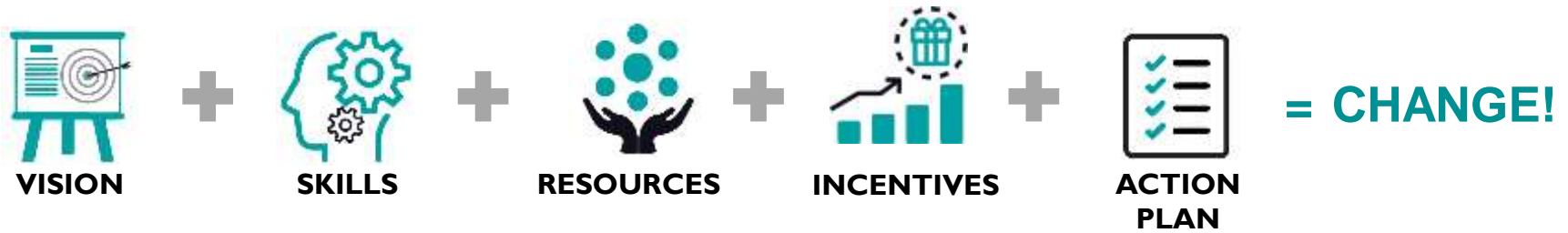
CSIRO Primary Care Data Quality Education Package – COMMUNICARE

87% COMPLETE

courses.trainitmedical.com.au



Leading Improvements





Improve
health
outcomes

Improve
revenue

Improve
relationships

Improve
data





Extra Links and Learning

[RACGP Supporting clinical judgements for osteoporosis](#)

[Burden of Osteoporosis, Osteopenia and Associated Fractures - Osteoporosis Australia](#)

[Best Practice Online help](#)

[Best Practice Vimeo channel](#)

[MedicalDirector online help & learning videos](#)

[Train IT Medical Best Practice free resources](#)

[Train IT Medical MedicalDirector free resources](#)

[Train IT Medical & CSIRO Primary Care Data Quality Improvement – free eLearning on data quality](#)

[What you need to know about osteoporosis – Osteoporosis Australia](#)

[An audit of osteoporotic patients in an Australian general practice](#)

[Pen CS – Data Mapping](#)

[Reframe Osteoporosis Program – CAT4/Topbar](#)



Thank you for inviting me, with best wishes, Katrina Otto

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