

Data and Business Rules – Osteoporosis: Secondary Prevention of Fragility Fractures (OST) IndicatorSet					
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New GMS Contract QOF Implementation

Dataset and Business Rules

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Osteoporosis: Secondary Prevention of Fragility Fractures (OST)

Northern Ireland

Amendment History:

Version	Date	Amendment History
25.0NI	13-May-2013	V25 Department of Health QOF ruleset (28/03/13) used as a base and adapted to reflect the NI 2013/13 agreement - NI indicators IDs updated; 15 mth rules accepted; indicator wording checked
26.0NI	13-Sept-2013	April 2013 Read Code Release following review
27.0NI	12-Nov-2013	November 2013 Read Code Release
28.0NI	14-May-2014	DRAFT Business rules update
28.1NI	11-Jun-2014	Formatting changes and version update to bring in line with other rulesets
28.2NI	27-Jun-2014	Amendments to codes and rules following review
	10-Jul-2014	Included additional information for OST002 and OST005. Updated the diagnostic codes for Osteoporosis (V2 and CTV3)
29.0NI	24-Oct-2014	April 2014 Read Code Updates
30.0NI	24-Oct-2014	October 2014 Read Code Updates
32.0NI	30-June-2015	April 2015 Read Code Updates
32.1NI	28-Sep-2015	Post review changes 2015/16
33.0NI	07-Jan -2016	October Read Code Updates and V32.1 fixes
34.0NI	06-Sep-2016	Read code changes.

New GMS contract Q&O framework implementation

Dataset and business rules – Osteoporosis: Secondary Prevention of Fragility Fractures (OST)

Notes

- 1) The specified dataset and rulesets are to support analysis of extracted data to reflect the status at a specified point in time of patient records held by the practice. In the context of this document that specified time point is designated the "Reference date" and identified by the abbreviation "REF_DAT". In interpreting the specification REF_DAT should be taken to mean midnight of the preceding day (i.e. a REF_DAT of 01.04.2003 equates to midnight on 31.03.2003).
- 2) To support accurate determination of the population of patients to which the indicators should relate (the denominator population) these rulesets have been compiled with a prior assumption that the reference date is specified prior to extraction of data and is available for computation in the data extraction routine. The reference date will also be required to be included in the data extraction to support processing of rules that are dependent upon it. It is possible that an alternative approach could be adopted in which rules to determine the denominator population by registration status would be applied as a component of rule processing. If this second approach were to be adopted it would be essential to specify default time criteria for determining the registration characteristics of the denominator population during the data extraction process. Additionally there would be a requirement to supplement the dataset and rulesets to support identification of the appropriate denominator population.
- 3) Clinical codes quoted are (where known) from the October 2015 release of Read codes version 2 and clinical terms version 3 (CTV3). The codes are shown within the document as a 5 character value to show that the Read Code is for a 5-Byte system.
 - i) Where a "%" wildcard is displayed, the Read Code is filled to 5 characters with full stops. When implementing a search for the Read Code, only the non full-stop values should be used in the search, For example, a displayed Read Code of c1...% should be implemented as a search for c1%, i.e. should find c1 and any of its children.
 - ii) Where a range of read codes are displayed, the Read Code is filled to 5 characters with full-stops. When implementing the search, only the non full-stop values should be used in the search, For example, a displayed Read Code range of G342. – G3z.. should find all codes between G342 and G3z (including any children where applicable).

The version number starts at 7.1 in order to coincide with existing datasets and business rules.

- 4) Datasets comprise a specification of two elements:
 - a) Patient selection criteria. These are the criteria used to determine the patient population against whom the indicators are to be applied.
 - i) Registration status. This determines the current patient population at the practice.
 - ii) Diagnostic code status. This determines the current patient population (register size) for a given clinical condition.

There are three scenarios within the diagnostic code status, these are where

- There is a single morbidity patient population (disease register) required (e.g. within CHD). Where this occurs, a single set of rules for identifying the patient population is provided.
 - There is a single co-morbidity patient population (disease register) required (e.g. within Smoking). Where this occurs, a set of rules for each morbidity is provided. A patient must only be included in the patient population (register size) once.
 - There are multiple patient populations (disease registers) required (e.g. within Heart Failure). Where this occurs, a single set of rules for each patient population is provided.
- N.B. where there are multiple patient populations (disease registers), it is possible that one or more will also be a co-morbidity patient population (e.g. within Depression).

Where this occurs, details of which register population applies to which indicator(s) are provided. Where the register size applies to an indicator, this is the base denominator population for that indicator.

- b) Clinical data extraction criteria. These are the data items to be exported from the clinical system for subsequent processing to calculate points allocations. They are expressed in the form of a MIQUEST "Report-style" extract of data.

The record of each patient that satisfies the appropriate selection criteria for a given indicator will be interrogated against the clinical data criteria (also appropriate to that indicator). A report of the data contained in the selected records will be exported in the form of a fixed-format tabular report. Each selected patient will be represented by a single row in the report, unless the operator "ALL" is used.

The "ALL" statement is used within the Qualifying Criteria for the Clinical data extraction criteria. Typically the selection for a READCODE_COD cluster field is based on a date of "LATEST" or "EARLIEST". The "ALL" statement is used to select all occurrences of any of the codes within the READCODE_COD cluster. It selects an array of instances, of which there may be more than one for each patient.

Rows will contain a fixed number of fields each containing a single data item. The number of fields in each row and their data content will be determined by the clinical data criteria. Data items that match the clinical data criteria will be exported in the relevant field of the report. Where there is no data to match a specific clinical criterion a null field will be exported.

- 5) Rulesets are specified as multiple rules to be processed sequentially. Processing of rules should terminate as soon as a "Reject" or "Select" condition is encountered.
- 6) Rules are expressed as logical statements that evaluate as either "true" or "false" The following operators are required to be supported:
- | | |
|---------------------|--------|
| a) > (greater than) | e) AND |
| b) < (less than) | f) OR |
| c) = (equal to) | g) NOT |
| d) ≠ (not equal to) | |

- 7) Where date criteria are specified with intervals of multiples of months or years these should be interpreted as calendar months or calendar years.

Dataset Specification

1) Patient selection criteria

a) Registration status

<i>Current registration status</i>	<i>Qualifying criteria</i>
Currently registered for GMS	Most recent registration date < (REF_DAT)
Previously registered for GMS	Any sequential pairing of registration date and deregistration date where both of the following conditions are met: registration date < (REF_DAT); and deregistration date >= (REF_DAT)

b) Diagnostic code status - the register is made up of two groups of patients:

i) Patients aged 50 – 74

<i>Included*</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest< (REF_DAT) AND >= 01.04.2012
	N331N N331M	XaNSP XaIIP	
	<i>(Fragility fracture codes)</i>		
<i>Included*</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest< (REF_DAT)
	N330.% (Excluding N3308, N3309) N3312 N3313 N3316 N3318 – N331B N331H – N331M NyuB0 NyuB1 NyuB8 N3314 N3315 N3746 NyuB2	Xa0AZ% (excluding X70Au) XE1GA, N330., N3300, N3304 N330B, N330z, X70CK%, N3313 N3316, N331B, XaD4K,XaD4J XaD4I, NyuB0, NyuB1, NyuB8 Xallp, XaC12, N3307, N330A , N3314, N3315 N3746, X70Av%, NyuB2	
<i>(Osteoporosis codes)</i>			

<i>Included*</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
	58EG. 58EM. 58EV.	XaITW XaITb XaPE2	
	<i>(DXA codes) a DXA scan result of osteoporotic without a value</i>		
<i>Included**</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT)
	58EE. 58EK. 58ES.	XaITZ XaITU XaPDy	
	<i>(DXA codes) a DXA scan result with a T score value</i>		
<i>Required</i>	<i>T score value <= -2.5</i>		<i>Chosen record</i>
<i>Excluded</i>	<i>Age < 50 yrs at REF_DAT or Age > 74 yrs at REF_DAT</i>		

*N.B**.* The presence of either 'DXA codes – osteoporotic without an associated value' OR 'DXA codes – with an associated T score value that is <= -2.5' is required

*Codes required to be present from all groups to qualify a patient for inclusion

ii) Patients aged 75 and over

<i>Code Criteria</i>	<i>Qualifying diagnostic codes</i>		<i>Time criteria</i>
<i>Required</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < (REF_DAT) AND >= 01.04.2012
	N331N N331M	XaNSP XaIIp	
	<i>(Fragility fracture codes)</i>		
<i>Excluded</i>	Age < 75 yrs at REF_DAT		

Notes

The DXA scan codes will only be those that indicate a positive result of osteoporosis or a T- score <= -2.5

The implementation date 1 April 2012 is fixed i.e. will not be reset each year.

<i>required</i>	<i>Read codes v2</i>	<i>CTV3</i>	Earliest< (REF_DAT)
	N330.% (Excluding N3308, N3309) N3312 N3313 N3316 N3318 – N331B N331H – N331M NyuB0 NyuB1 NyuB8 N3314 N3315 N3746 NyuB2	Xa0AZ% (excluding X70Au) XE1GA, N330., N3300, N3304 N330B, N330z, X70CK%, N3313 N3316, N331B, XaD4K,XaD4J XaD4I, NyuB0, NyuB1, NyuB8 Xallp, XaC12, N3307, N330A , N3314, N3315 N3746, X70Av%, NyuB2	
Excluded	<i>Age < 75 yrs at REF_DAT</i>		

2) Clinical data extraction criteria

<i>Field Number</i>	<i>Field name</i>	<i>Data item</i>		<i>Qualifying criteria</i>
1	PAT_ID	Patient ID number		Unconditional
2	REG_DAT	Date of patient registration		Latest < (REF_DAT)
3	PAT_AGE	Patient age (years) at REF_DAT		Unconditional
4	OSTEOEXC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < (REF_DAT)
		9hP..%	XaX3Q%	
		<i>(Osteoporosis exception reporting codes)</i>		
5	OSTEOEXC_DAT	Date of OSTEOEXC_COD		Chosen record
6	BSA_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT
		fo1..% fo4..% fo6..% fo8..% fv1..% fu3..% fu5..% fu9..% fo7..% 8BP1. 8B6c. 8B6b. 8BPW., 8BPX., 8BPZ., 8BPY.	fo1..% fo4..% fo6..% fo8..% fv1..% fu3..% fu5..% fu9..% fo7..% XaKb0 XaR9b XaX0V XaVxl Xaagz, Xaah0, Xaah2, Xaah1	
		<i>(Bone sparing agent codes)</i>		
7	BSA_DAT	Date of BSA_COD		Chosen record

8	FF_COD	<i>Read codes v2</i>	<i>CTV3</i>	Earliest < REF_DAT
		N331N N331M	XaNSP XaIip	
		<i>(Fragility fracture codes)</i>		
9	FF_DAT	Date of FF_COD		Chosen record
10	XBSACAT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT
		14LT., ZV14K, 14La., 14Lb., 14LW., ZV14H, 14Lc., 14LT0, 14LT3, 14LT2, 14LT4, 14LT1	XaKar , XaKdW, XaYSa, XaYSb, XaKat, XaKdj, XaZei, XaZef, XaZfj, XaZfi, XaZfk, XaZeh	
		<i>(Bone sparing agent contra-indications: persistent)</i>		
11	XBSACAT_DAT	Date of XBSACAT_COD		Chosen record
12	TXBSACAT_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest < REF_DAT
		8I3e., 8I6R., 8I7E., 8I2V., 8I6p., 8I7P., 8IEH., 8I2l., 8I6q., 8I7Q., 8IED., 8I2m., 8I3h., 8I6V., 8I7H., 8I2Y., 8I2p., 8I2V0, 8IEW., 8I3e0, 8I7S., 8I7E0, 8I612, 8I6R0, 8I2V3, 8I3e3, 8I6R3, 8I7E3, 8I2V2, 8I3e2, 8I6R2, 8I7E2, 8I2V4, 8I3e4, 8I6R4, 8I7E4, 8I3e1, 8I6R1, 8I7E1, 8I2V1	XaKaQ, XaKaP, XaKaR, XaKaO, XaYSX, XaYSZ, XaYSu, XaYSV, XaYSY, XaYSc, XaYSv, XaYSW, XaKav, XaKax, XaKaw, XaKau, XaZdG, XaZdH, XaZeT, XaZeQ, XaZeX, XaZeV, XaZec, XaZeZ, XaZfm, XaZfa, XaZfg, XaZfd, XaZfl, XaZfZ, XaZff, XaZfc, XaZfn, XaZfb, XaZfh, XaZfe, XaZdJ, XaZeS, XaZea, XaZeW	
		<i>(Bone sparing agent contra-indications: expiring)</i>		
13	TXBSACAT_DAT	Date of TXBSACAT_COD		Chosen record

14	BSAEXC_COD	<i>Read codes v2</i>	<i>CTV3</i>	Latest <= REF_DAT
		8I615	Xab9J	
		<i>(Bone sparing agent therapy not indicated)</i>		
15	BSAEXC_DAT	Date of BSAEXC_COD		Chosen record

Indicator rulesets

Indicator OST001: The contractor establishes and maintains a register of patients:

1. Aged 50 or over and who have not attained the age of 75 with a record of a fragility fracture on or after 1 April 2012 and a diagnosis of osteoporosis confirmed on DXA scan.
2. Aged 75 or over with a record of a fragility fracture on or after 1 April 2012

The terms of this indicator will be satisfied if the practice is able to produce a data extraction according to the above criteria.

No numerator or denominator determination is required.

Indicator OST002: The percentage of patients aged 50 or over and who have not attained the age of 75, with a fragility fracture on or after 1 April 2012, in whom osteoporosis is confirmed on DXA scan, who are currently treated with an appropriate bone-sparing agent.

Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients aged between 50 and 74 with a fragility fracture and confirmed osteoporosis. The aspect that is being measured is that relating to treatment with appropriate bone-sparing agents.

Disease register

This indicator is based on the part of the register for patients aged between 50 and 74:

In patients aged 50-74 years:

- A fragility fracture at any point on or after the implementation date (1st April 2012)
- The earliest DXA scan with a positive result of osteoporosis.
- The earliest diagnosis of osteoporosis

Numerator and Denominator

The success criteria for this indicator (numerator) are achieved for those patients in the denominator who have a record of a prescription for a bone- sparing agent in the preceding 6 months (relative to REF_DAT).

The patients that make up the denominator for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

Exclusions

For this indicator there is one exclusion

- The indicator is specifically looking at patients aged between 50 and 74 years. Any patients aged under 50 years old and over 74 years old are excluded.

Exceptions

For this indicator the exceptions are:

- Any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a prescription for bone-sparing agents - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- Any patient that has a relevant bone sparing agent exception code recorded within the preceding 15 months.
- Any patient that has a relevant osteoporosis exception code recorded within the preceding 15 months.
- Any patient that has been diagnosed with a fragility fracture within the last 3 months of the year (new diagnosis of fragility fracture).

- Any patient with a record of a contraindication (persisting or expiring) to bone-sparing treatment.

Please note that a persisting contraindication can be recorded once anywhere in the record whereas an expiring contraindication must be recorded within the last 15 months i.e. ([REF_DAT](#) – 15 months)

Indicator OST002: The percentage of patients aged 50 or over and who have not attained the age of 75, with a fragility fracture on or after 1 April 2012, in whom osteoporosis is confirmed on DXA scan, who are currently treated with an appropriate bone-sparing agent.

a) Denominator ruleset

<u>Rule number</u>	<u>Rule</u>	<u>Action iftrue</u>	<u>Action iffalse</u>
1	If <u>PAT_AGE</u> < 50 OR If <u>PAT_AGE</u> > 74	Reject	Next rule
2	If <u>BSA_DAT</u> >= (<u>REF_DAT</u> – 6 months)	Select	Next rule
3	If <u>BSAEXC_DAT</u> > (<u>REF_DAT</u> – 15 months)	Reject	Next rule
4	If <u>REG_DAT</u> >= (<u>REF_DAT</u> – 3 months)	Reject	Next rule
5	If <u>OSTEOEXC_DAT</u> >= (<u>REF_DAT</u> – 15 months)	Reject	Next rule
6	If <u>FF_DAT</u> >= (<u>REF_DAT</u> – 3 months)	Reject	Next rule
7	If <u>XBSACAT_COD</u> = Null AND If <u>TXBSACAT_DAT</u> = Null	Select	Next rule
8	If <u>XBSACAT_COD</u> = Null AND If <u>TXBSACAT_DAT</u> < (<u>REF_DAT</u> – 15 months)	Select	Reject

b) Numerator ruleset: To be applied to the above denominator population.

<u>Rule number</u>	<u>Rule</u>	<u>Action iftrue</u>	<u>Action iffalse</u>
1	If <u>BSA_DAT</u> >= (<u>REF_DAT</u> – 6 months)	Select	Reject

Additional notes:

Denominator

Exclusions

Rule 1: The aim of this rule is to identify if the patient is aged between 50 and 74 years. Any patient that is aged less than 50 or more than 74 should not be considered for this indicator and therefore should be rejected. If a patient is aged between 50 and 74 years then they are passed on to the next rule.

Success

Rule 2: The aim of this rule is to identify those patients who have a record of a prescription for a bone-sparing agent within the preceding 6 months. If there is such a record then the patient is selected into the denominator otherwise they are passed on to the next rule.

Exceptions

It is worth remembering at this point that if a patient has a recording of a prescription for a bone-sparing agent within the preceding 6 months they will already have been selected into the denominator in Rule 2.

Rule 3: The aim of this rule is to identify any patient that has a relevant bone sparing agent exception code recorded. If this has been recorded in the preceding 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

Rule 4: The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

Rule 5: The aim of this rule is to identify any patient that has a relevant osteoporosis exception code recorded. If this has been recorded in the preceding 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

Rule 6: The aim of this rule is to identify any patient that has been 'recently diagnosed' with a fragility fracture. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is passed on to the next rule.

Rule 7: The aim of this rule is to identify any patient with a contraindication (persistent or expiring) to bone-sparing treatment.
If a patient does not have a record of either an expiring or persistent contraindication to bone-sparing treatment they are selected into the denominator. Otherwise they are passed on to the next rule.

Rule 8: The aim of this rule is to identify any patient without a persisting contraindication to bone-sparing treatment who has an expiring contraindication to bone-sparing treatment recorded outside the appropriate time frame.

If a patient without a persisting contraindication to bone-sparing treatment has an expiring contraindication to bone-sparing treatment recorded outside the appropriate time frame they are selected into the denominator.

All remaining records can be excepted and are not included in the denominator.

Numerator

The success criterion for this indicator is as per Denominator Rule 2.

Indicator OST005: The percentage of patients aged 75 or over with a fragility fracture on or after 1 April 2012, who are currently treated with an appropriate bone-sparing agent.

Overview

This indicator has been developed to measure the effectiveness of the provision of a clinical care component for patients aged 75 years and over who have a fragility fracture. The aspect that is being measured is that relating to treatment with appropriate bone-sparing agents.

Disease register

This indicator is based on the part of the register for patients aged 75 years and over

In patients aged ≥ 75 years:

- A fragility fracture at any point on or after the implementation date (1st April 2012)

Numerator and Denominator

The success criteria for this indicator (numerator) are achieved for those patients in the denominator who have a record of a prescription for a bone- sparing agent in the preceding 6 months.

The patients that make up the denominator for this indicator are those patients where it is appropriate for the care component to be carried out. This is the relevant disease register adjusted for exclusions and exceptions.

Exclusions

For this indicator there is one exclusion

- The indicator is specifically looking at patients aged 75 years and over. Any patients aged under 75 years old are excluded.

Exceptions

For this indicator the exceptions are:

- Any patient who has been registered within the last 3 months of the qualifying year (new patient). New patients may be regarded as exceptions if they fulfil the criteria of the indicator but have not yet had a prescription for bone-sparing agents - maybe because there hasn't been an opportunity in the qualifying year to arrange it.
- Any patient that has a relevant bone sparing agent exception code recorded within the preceding 15 months.
- Any patient that has a relevant osteoporosis exception code recorded within the preceding 15 months.
- Any patient that has been diagnosed with a fragility fracture within the last 3 months of the year (new diagnosis of fragility fracture).
- Any patient with a record of a contraindication (persisting or expiring) to bone-sparing treatment.

Please note that a persisting contraindication can be recorded once anywhere in the record whereas an expiring contraindication must be recorded within the last 15 months i.e. ([REF DAT](#) – 15 months)

Indicator OST005: The percentage of patients aged 75 or over with a fragility fracture on or after 1 April 2012, who are currently treated with an appropriate bone-sparing agent.

a) Denominator ruleset

<u>Rule number</u>	<u>Rule</u>	<u>Action if true</u>	<u>Action if false</u>
1	If <u>PAT_AGE</u> < 75	Reject	Next rule
2	If <u>BSA_DAT</u> >= (<u>REF_DAT</u> – 6 months)	Select	Next rule
3	If <u>BSAEXC_DAT</u> > (<u>REF_DAT</u> – 15 months)	Reject	Next rule
4	If <u>REG_DAT</u> >= (<u>REF_DAT</u> – 3 months)	Reject	Next rule
5	If <u>OSTEOEXC_DAT</u> >= (<u>REF_DAT</u> – 15 months)	Reject	Next rule
6	If <u>FF_DAT</u> >= (<u>REF_DAT</u> – 3 months)	Reject	Next rule
7	If <u>XBSACAT_COD</u> = Null AND If <u>TXBSACAT_DAT</u> = Null	Select	Next rule
8	If <u>XBSACAT_COD</u> = Null AND If <u>TXBSACAT_DAT</u> < (<u>REF_DAT</u> – 15 months)	Select	Reject

b) Numerator ruleset: To be applied to the above denominator population.

<u>Rule number</u>	<u>Rule</u>	<u>Action if true</u>	<u>Action if false</u>
1	If <u>BSA_DAT</u> >= (<u>REF_DAT</u> – 6 months)	Select	Reject

Additional Notes:

Denominator

Exclusions

Rule 1: The aim of this rule is to identify if the patient is aged 75 years and over. Any patient that is aged less than 75 should not be considered for this indicator and therefore should be rejected. If a patient is aged 75 years and over then they are passed on to the next rule.

Success

Rule 2: The aim of this rule is to identify those patients who have a record of a prescription for a bone-sparing agent within the preceding 6 months. If there is such a record then the patient is selected into the denominator otherwise they are passed on to the next rule.

Exceptions

It is worth remembering at this point that if a patient has a recording of a prescription for a bone-sparing agent within the preceding 6 months they will already have been selected into

the denominator in Rule 2.

Rule 3: The aim of this rule is to identify any patient that has a relevant bone sparing agent exception code recorded. If this has been recorded in the preceding 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passes on to the next rule.

Rule 4: The aim of this rule is to identify any patient that 'recently registered' at the practice. If the patient has registered at the practice in the last 3 months, the patient should not be included in the denominator. If the patient was not registered in the last 3 months they are passed on to the next rule.

Rule 5: The aim of this rule is to identify any patient that has a relevant osteoporosis exception code recorded. If this has been recorded in the preceding 15 months, the patient can be excepted and is not included in the denominator. Otherwise they are passed on to the next rule.

Rule 6: The aim of this rule is to identify any patient that has been 'recently diagnosed' with a fragility fracture. If the patient has been diagnosed in the last 3 months, the patient can be excepted and the patient should not be included in the denominator. Otherwise the patient is passed on to the next rule.

Rule 7: The aim of this rule is to identify any patient with a contraindication (persistent or expiring) to bone-sparing treatment.
If a patient does not have a record of either an expiring or persistent contraindication to bone-sparing treatment they are selected into the denominator. Otherwise they are passed on to the next rule.

Rule 8: The aim of this rule is to identify any patient without a persisting contraindication to bone-sparing treatment who has an expiring contraindication to bone-sparing treatment recorded outside the appropriate time frame.

If a patient without a persisting contraindication to bone-sparing treatment has an expiring contraindication to bone-sparing treatment recorded outside the appropriate time frame they are selected into the denominator.

All remaining records can be excepted and are not included in the denominator.

Numerator

The success criterion for this indicator is as per Denominator Rule 2.