# Adding Prolia® (denosumab) to SystmOne



Amgen have fully funded the development, by Oberoi Consulting, of this user guide

## How to order Prolia<sup>®</sup> (denosumab)

Prolia<sup>®</sup> can be delivered directly to your practice within 24 hours.

To order, contact Movianto UK – Product code 9001231.

| Telephone: | 01234 248631 (08:30 to 16:30 Mon-Fri) |
|------------|---------------------------------------|
| Fax:       | 01234 248705                          |
| Email:     | orders.uk@movianto.com                |

Alternatively, Prolia<sup>®</sup> can be provided to patients through retail pharmacy by writing an FP10.

### How to store Prolia<sup>®</sup>

Prolia<sup>®</sup> should be stored in a refrigerator (2°C - 8°C). Do not freeze. Keep the pre-filled syringe in the outer carton to protect from light.

Prolia<sup>®</sup> has a shelf life of 36 months and may be stored at room temperature (25°C) for up to 30 days in the original container. Once removed from the refrigerator it must be used within this 30 day period<sup>1</sup>.

For further information contact Amgen medical information

Telephone: 01223 436441

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## Prolia<sup>®</sup> (denosumab)

Prolia<sup>®</sup> is indicated for the treatment of osteoporosis in postmenopausal women at increased risk of fractures. Prolia<sup>®</sup> significantly reduces the risk of vertebral, non vertebral and hip fractures.

## Administration of Prolia<sup>®</sup>

The recommended dose of Prolia<sup>®</sup> is 60 mg administered as a single subcutaneous injection once every 6 months into the thigh, abdomen or the upper arm. Administration should be performed by an individual who has been adequately trained in injection techniques. Hypocalcaemia is a contraindication and patients must be adequately supplemented with calcium and vitamin D. Clinical monitoring of calcium levels is recommended before each dose and, in patients predisposed to hypocalcaemia, within 2 weeks after the initial dose. Regular monitoring of calcium levels is especially important in patients with severe renal impairment or on dialysis. Measure calcium levels if suspected symptoms of hypocalcaemia occur.

### Ensuring subsequent doses are administered

Prolia<sup>®</sup> is often initiated in secondary care with the responsibility for the administration of further doses subsequently transferred to primary care<sup>2,3</sup>.

It is critical to enter Prolia<sup>®</sup> correctly onto your primary care clinical system for patients to be able to receive subsequent doses within the recommended time frame.

This guide has been designed to help you enter Prolia<sup>®</sup> correctly into SystmOne specifically, following initiation of treatment in secondary care.

In addition, this guide will show you how to create a search to identify patients for whom Prolia<sup>®</sup> is overdue which is automatically run on a monthly basis. A "Task", from SystmOne, is then sent to the assigned person so the patient can be proactively followed up.

# Ensuring the right patients are identified and treated to impact your Osteoporosis QOF outcomes

### 2014/2015 – Osteoporosis: Secondary Prevention of Fragility Fractures

| Indicator  | Points | Achievement<br>thresholds |
|--|--------|---------------------------|
| Records  |        |                           |
| <b>OST004</b> . The contractor establishes and maintains a register of patients:<br>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, and<br>2. Aged 75 or over with a record of a fragility fracture on or after 1 April 2014 and a diagnosis of osteoporosis <i>NICE 2011 menu ID: NM29</i> | 3      |                           |
| Ongoing Management   |        |                           |
| <b>OST002</b> . The percentage of patients aged 50 or over and who have not attained the age of 75, with a record of 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.<br><i>NICE 2011 menu ID: NM30</i>   | 3      | 30-60%                    |
| <b>OST005</b> . The percentage of patients aged 75 or over with a record of a fragility fracture on or after 1 April 2014 and a diagnosis of osteoporosis, who are currently treated with an appropriate bone-sparing agent <i>NICE 2011 menu ID: NM31</i>   | 3      | 30-60%                    |

#### Disease register

Although the register indicator OST004 defines two separate registers, the disease register for the purposes of calculating the Adjusted Disease Practice Factor is defined as the sum of the number of patients on both registers.

In order to ensure the QOF Osteoporosis indicators are met it is imperative the below information is correctly Read coded from the hospital discharge letters.

If information is missing the hospital department should be contacted to establish the information.

- DXA Scans When entering the DXA scan result, make sure that you check the recommended recall schedule for the patient. This date could be between 2 and 5 years, depending on the individual patient's circumstances.
   Pages 7-8 show you how to create a system wide recall for DXA scans and Read code the scan correctly
- **T-Scores** Page 8 shows you how to enter T-Scores correctly
- **Fragility Fractures** Unless fragility fractures are entered the Disease Register incidence will be affected, this will in turn affect the value of each QOF point for the osteoporosis domain.
- **Medication** If Prolia<sup>®</sup> is incorrectly entered this will affect indicators **OST002** and **OST005** as these patients will appear to be on no medication.

## Creating a system wide "New Recall Type" for "DXA scan"

Create a system wide "New Recall Type" - This step is only ever carried out once.

1. Go to Setup > Data Entry > Recall Types.



- 2. Create a New "Recall Type", called "DXA scan recall"
- 3. Change the "default recall period", from the default setting of 12 months to 5 years

| 4 <b>Add</b> in the following linked <b>read codes</b> | New Recall Type                                   | ×                                     |
|--|---|---------------------------------------|
|  | Recall type name DXA scan recall                  |                                       |
| (optional) :   | Category Miscellaneous                            | <ul> <li>New Category</li> </ul>      |
|  | Applicable genders 🔽 Males                        |                                       |
| XaPE2 Femoral neck DEXA scan result osteoporotic       | Females   |                                       |
| XaITW Hip DXA scan result osteoporotic                 | Minimum applicable age                            |                                       |
| XaITb Lumbar DXA scan result osteoporotic              |   | 1                                     |
| XaPDy Femoral neck DEXA scan T score                   | Maximum applicable age                            |                                       |
| YalTU Hin DYA scan Tissoro                             | Default recall period 5 7 Years                   | <ul> <li>Repeats when seen</li> </ul> |
|  | Availability 🔲 Cytology smear dialog (for waiting | for results)                          |
| XaliZ Lumbar spine DXA scan i score                    | Cytology result dialogs (for schedu               | ling peyt smear)                      |
|  |   | ning floxe shieldry                   |
| This will remove any DXA recalls due once any          | _ vaccination dialog                              |                                       |
| This will remove any DAA recalls due once any          | Contraception dialog                              |                                       |
| of the above codes are added to the patients           | Linked Band and an U. Code Description            |                                       |
| record.  | XaPE2 Femoral neck DE                             | XA scan result osteopor 🔺             |
|  | XaITW Hip DXA scan res                            | ult osteoporotic                      |
|  | XalTb Lumbar DXA scar                             | n result osteoporotic                 |
| 5. Click OK —  | XaPDy Femoral neck DE                             | AA scan i score                       |
|  | <u>O</u> k <u>C</u> ancel                         |                                       |
|  |   |                                       |

## Coding the DXA scan result for Osteoporotic patients

Depending on your workflow and practice processes you may code your DXA scan results before during or after you scan the paperwork or when you receive the result electronically.

If the OCR workflow doesn't pick up a Read code then a osteoporotic code if applicable can be entered.

The codes below can be entered as part of your scan workflow or as a Read coded entry if the patient is osteoporotic.

| Description                                |       |
|--|-------|
| Lumbar DXA scan result osteoporotic        | XalTb |
| Hip DXA scan result osteoporotic           |       |
| Femoral neck DEXA scan result osteoporotic |       |

## These Read codes will populate your QOF domain for Osteoporosis if a Fragility Fracture code has also been entered and the patient is aged between 50 and 74 years.

Numeric results cannot be entered as part of the SystmOne scan workflow.

A T-Score value can only be entered through numeric results, not via the Read code browser, using the QOF Read codes as shown in the table below

| Description                    |       |
|--------------------------------|-------|
| Lumbar spine DXA scan T score  | XaITZ |
| Hip DXA scan T score           | XaITU |
| Femoral neck DEXA scan T score |       |

The table overleaf, on page 9, shows a full list of CTV3 Read codes that can be used to code all DXA results including normal and Osteopenia results.

| Description  | Code  | QOF code | Numeric |
|--|-------|----------|---------|
| Lumbar DXA scan result normal                        | XalTa |          |         |
| Lumbar DXA scan result osteoporotic                  | XalTb | Yes      |         |
| Lumbar DXA scan result osteopenic                    | XalTc |          |         |
| Forearm DXA scan                                     | XaITC |          |         |
| Heel DXA scan  | XaITD |          |         |
| Hip DXA scan   | XaITE |          |         |
| Lumbar spine DXA scan                                | XalTF |          |         |
| Forearm DXA scan Z score                             | XaITJ |          | Yes     |
| Forearm DXA scan T score                             | XaITK |          | Yes     |
| Forearm DXA scan result normal                       | XaITL |          |         |
| Forearm DXA scan result osteoporotic                 | XaITM |          |         |
| Forearm DXA scan result osteopenic                   | XaITN |          |         |
| Heel DXA scan Z score                                | XaITO |          | Yes     |
| Heel DXA scan T score                                | XaITP |          | Yes     |
| Heel DXA scan result normal                          | XaITQ |          |         |
| Heel DXA scan result osteoporotic                    | XalTR |          |         |
| Heel DXA scan result osteopenic                      | XaITS |          |         |
| Hip DXA scan Z score                                 | XalTT |          | Yes     |
| Hip DXA scan T score                                 | XaITU | Yes      | Yes     |
| Hip DXA scan result normal                           | XaITV |          |         |
| Hip DXA scan result osteoporotic                     | XalTW | Yes      |         |
| Hip DXA scan result osteopenic                       | XaITX |          |         |
| Lumbar spine DXA scan Z score                        | XaITY |          | Yes     |
| Lumbar spine DXA scan T score                        | XaITZ | Yes      | Yes     |
| Dual energy X-ray photon absorptiometry              | X70pr |          |         |
| Dual energy X-ray photon absorptiometry scan T score | XaP6z |          |         |
| Femoral neck DEXA scan                               | XaPDm |          |         |
| Femoral neck DEXA scan Z score                       | XaPDr |          | Yes     |
| Femoral neck DEXA scan T score                       | XaPDy | Yes      | Yes     |
| Femoral neck DEXA scan result normal                 | XaPE1 |          |         |
| Femoral neck DEXA scan result osteoporotic           | XaPE2 | Yes      |         |
| Femoral neck DEXA scan result osteopenic             | XaPE4 |          |         |

### Creating a DXA recall within the patients record

Once the "DXA Scan" recall has been created, this can be used to create recalls for those patients where a DXA scan has been carried out.

- 1. On the **Clinical Tree**, right click "**recalls**" to create the recall.
- 2. Create the recall, changing the default time from 5 years to the timescale indicated on your local guidelines, if required.

The recall can be viewed at any time in the patient record.

If you are unsure how to create a recall follow the steps shown on page 14.

## How to record Prolia<sup>®</sup> correctly on SystmOne

#### The step-by-step instructions will guide you how to:

- Step 1 How to record an initial issue of Prolia<sup>®</sup> given in secondary care
- Step 2 Set up a system wide "New Recall Type" for "Prolia<sup>®</sup> Injections Due"
- Step 3 Set up a system wide "New Recall Type" for "Pre-injection calcium blood test"
- Step 4 Set up a recall for each Prolia<sup>®</sup> patient to ensure subsequent doses are not missed & "Pre-injection calcium blood test" carried out
- Step 5 Set up a search to proactively identify patients that may be overdue a repeat dose of Prolia®
- Step 6 Set up a monthly task assigned to the relevant person in the practice for overdue patients

All 6 steps **must** be followed the first time the system is set up.

#### Step 1 - How to record an in initial issue of Prolia<sup>®</sup> given in secondary care

22 Eab 2012 Forti oking v25 2013/2014 1. Prolia<sup>®</sup> that has been issued in secondary æ l pa care should be added as "Other Medication". Ö M ? Record Other Medication Pnei past "Record Other Medication" is selected by R 0.5 n Prescr New Variable Dose CD right clicking on the medication section of the 013 Amo / Va Show Medication History 15 ci clinical tree. Comm 013 Para Show Side Effects - Referr 2 pa Print Drug Schedules Recall Requ (1 Select **Clinical Tree Configuration** II .... es & Allerg 🔏 Customise Clinical Tree 0 Ctrl +# Configure Shortcuts 🛃 start 6 😡 🗹 6 🖉 Log O

#### Next, the "Record Other Medication" screen prompts the user to enter the Drug

2. Find Prolia<sup>®</sup> in the **dropdown list** of drugs

| 🝸 Select Drug or Appliance  |   |                         |  |        |
|---|---|-------------------------|--|--------|
| 🖧 Drug & Appliance Browser  | 🖗 Formularies 🗛 non-Multilex  | Settings                |  |        |
| Show  | 🔽 Brands  | Formulary entries       | Product-based search   |        |
|   | 📃 Discontinued / Withdrawn  | 🔽 Frequently used       | 🔿 Free text search   |        |
| 🔎 £   | Non-prescribable / unlicensed   | Full sorted list        | O Product order number   |        |
|   |   | Product sets only       |  |        |
| prolia  |   |                         |  | Search |
| □       ▲ Search results for PROLI         □       ▲ Denosumab 60mg/1         □       ▲ denosumab (form not spectrum)         □       ▲ Prolia 60mg/1 ml solu         □       ▲ Prolia 60mg/1 ml solu | IA<br>mi solution for injection pre-filled sy<br>t specified) 합책 6?<br> | ringes 않                | ñð   |        |
| Sensitivities & Allergies: 🔖 P  | HENOXYMETHYLPENICILLIN sens   | itivity Å Wheat allergy | XaOYT) \Lambda Wheat allergy (XaOYT) \Lambda Allergy to plasters (XaLKU) |        |
|   |   | Ok Cano                 |  |        |

- 3. Change the start date, from the default setting of today's date, to the date of the hospital letter (e.g. "03 Apr 2013")
- 4. Make the **end date** the **end of the 6 month course**; in this case "03 Oct 2013".

1

| R | ecord Other Medicati    | on  |
|---|-------------------------|---|
| [ | Other Details Exact d   | ate & time 🔽 Tue 16 Jul 2013 🗾 11:40 🧖 🗙  |
| c | hanging the consultatio | n date will affect all other data entered. To avoid this, cancel and press the 'Next' button Hide Warning |
|   | Start date              | 03 Apr 2013 🔹   |
|   | End date                | 06 Oct 2013 🔽   |
|   | Medication source       | Other Medication ODental Medication   |
|   | Drug                    | 📳 👔 🐻 🎍 Prolia 60mg/1ml solution for injection pre-filled syringes (Amgen Ltd) 👫                          |
|   | Dose                    |   |
|   | Quantity                |   |
|   | Script notes            |   |
|   | Administrative notes    | Prescribed by xx consultant at xx hospital  |
|   |                         | Ok Ok & Another Cancel  |
|   |                         |   |

- Change the "Medication Source" radio button from the default setting of "Other Medication" to "Hospital Medication"
- Put in the "Administrative notes" which consultant prescribed Prolia<sup>®</sup> and at which hospital it was administered

#### Prolia<sup>®</sup> will now appear in the medication screen with a flag of a blue "**H**".

|              | 🖀 🗶 🖉 🍋 🚵 🖹 ? 📕 👔 🗞 😽 View All medication 🛛 🔌 🔀 🔀 🛏  |               |      |                  |           |
|--------------|--|---------------|------|------------------|-----------|
| Start Date 🔻 | Drug   | Scheduled End | Days | Medication Type  | Flags     |
| 25 Aug 2011  | Diltiazem 60mg modified-release tablets<br>1 pack of 84 tablet(s) - x2 a day<br><i>Hypertension (XEOUb)</i>                                | 20 Oct 2011   | 56   | Private issue    | iiiz \$   |
| 07 Sep 2011  | Paracetamol 500mg tablets<br>2 packs of 32 tablet(s) - Take one or two tablets 4 times a day When Required (for Pain)                      | 15 Sep 2011   | 8    | Private issue    | iiiz \$   |
| 24 Oct 2011  | Paracetamol 500mg tablets<br>2 packs of 32 tablet(s) - Take one or two tablets 4 times a day When Required (for Pain)                      | 01 Nov 2011   | 8    | Private issue    | iiii \$   |
| 08 Dec 2011  | Aciclovir 200mg tablets (A A H Pharmaceuticals Ltd)<br>25 tablets - take one as directed   | 09 Dec 2011   | 1    | Private issue    | \$        |
| 08 Dec 2011  | Aciclovir 200mg tablets (A A H Pharmaceuticals Ltd)<br>20 tablets - one five times a day   | 12 Dec 2011   | 4    | Private issue    | \$        |
| 23 Feb 2012  | Fortisip Range Starter Pack liquid (Nutricia Ltd)<br>1 pack - prn acbs   | 24 Feb 2012   | 1    | Private issue    | iiii \$ % |
| 24 Oct 2012  | Pneumovax II vaccine solution for injection 0.5ml vials (sanofi pasteur MSD Ltd)<br>0.5 ml -   | 25 Oct 2012   | 1    | NHS issue        |           |
| 03 Apr 2013  | Prolia 60mg/1ml solution for injection pre-filled syringes (Amgen Ltd)<br>Administrative Notes: Prescribed by xx consultant at xx hospital | 03 Oct 2013   | 186  | Hospital         | Hď        |
| 02 May 2013  | Amoxicillin 500mg capsules<br>15 capsules - Take one capsule 3 times a day (antibiotic)  | 07 May 2013   | 5    | Private issue    | \$        |
| 23 May 2013  | Sudocrem antiseptic healing cream (Forest Laboratories UK Ltd)<br>1 - 1<br>Administrative Notes: Brada                                     |               |      | Other medication | ?         |
| 03 Jun 2013  | Paracetamol 500mg tablets<br>2 packs of 32 tablet(s) - Take one or two tablets 4 times a day When Required (for Pain)                      | 11 Jun 2013   | 8    | Private issue    | i波 \$     |

This will ensure the medication is now **correctly entered** within the patient record **and qualifies for QOF.** 

#### Step 2 - Set up a system wide "New Recall Type" for "Prolia® Injections Due"

Create a system wide "New Recall Type" - This step is only ever carried out once.



1. Go to Setup > Data Entry > Recall Types.

- 2. Create a New "Recall Type", called "Prolia Injection Due"
- Change the "default recall period", from the default setting of 12 months to 6 months

4. Tick "**Repeats when** seen" then press **Ok** 

| New Recall Type   |   |  |
|---|---|--|
| Recall type name<br>Category<br>Applicable genders                        | Prolia Injection Due<br>Miscellaneous New Category<br>Males<br>Females  |  |
| Minimum applicable age<br>Maximum applicable age<br>Default recall period | e vears<br>6 Months V Repeats when seen   |  |
| Availability  | Cytology smear dialog (for waiting for results) Cytology result dialogs (for scheduling next smear) Vaccination dialog Contraception dialog |  |
| Linked Read codes   | Code Description  |  |

## Step 3 - Set up a system wide "New Recall Type" for "Pre-injection calcium blood test"

Clinical monitoring of calcium levels is recommended before each dose and, in patients predisposed to hypocalcaemia within two weeks after the initial dose.

Follow the instructions below to set up a **"New Recall Type"** to ensure levels of calcium are monitored.

#### This step is only ever carried out once.

1. Go to Setup > Data Entry > Recall Types.



2. Create a New "Recall Type", called "Pre-injection calcium blood test"



#### Step 4 - Set up a recall for each Prolia<sup>®</sup> patient to ensure subsequent doses are not missed & "Pre-injection calcium blood test" carried out

**Once** the "**Prolia Injection Due**" recall has been created (**Step 2**), this can be used to **create recalls** for those patients where Prolia<sup>®</sup> has been added to SystmOne as a hospital administered medication (**Step 1**).

Open the patient record, if not already open, for the patient where Step 1 has been carried out.

1. On the **Clinical Tree**, right click "**recalls**" to create the recall, as shown below.



2. Create the recall as shown below

| Cr | eate Recall     |  |
|----|-----------------|--|
|    | ther Details    | Exact date & time 💌 Thu 06 Jun 2013 🔄 14:31 🦉 🗙  |
| Ch | nanging the cor | nsultation date will affect all other data entered. To avoid this, cancel and press the 'Next' button Hide Warning |
|    | Category        | All categories Settings V Hide inappropriate types   |
|    | Туре            | Prolia Injection Due 6 Months  |
|    |                 |  |
|    | Comments        | Requires Prolia injection to be done in practice Presets   |
|    |                 |  |
|    |                 |  |
|    | Recall on       | Thu 03 Oct 2013  |
|    | Initial status  | Pending  |
|    | India Status    |  |
|    |                 | Ok Ok & Another Cancel   |

Repeat Step 4 to create a **recall** for the "Pre-injection calcium blood test".

The due recalls can be viewed at any time in the patient record, as below, and will be shown in **black**.

2 Weeks before Prolia<sup>®</sup> is due a reminder will appear on the home page of the patient's record and appear in **orange**, and on the due day, onwards, the recall reminder will change to **red**.

| Clinical Administrative   | 9 | Recalls     |             |                  |  |         |       | 2          |
|---------------------------|---|-------------|-------------|------------------|--|---------|-------|------------|
| Epilepsy v25 2013/2014    | • |             | 8 🔛 🚸 🔇     | Þ 🕗   📢   🕻      | 🗌 👔 🔰 View Current recalls 💌                     |         |       | 4          |
|                           |   | Created     | Recall D 🔻  | Туре             | Comments   | Status  | Flags | !!         |
| Hypertension v25 2013/20  |   | 03 Jun 2013 | 03 Jun 2013 | Asthma           |  | Pending | i     | <u>^</u> 1 |
| Hypothyroidism v25 2013/2 |   | 06 Jun 2013 | 06 Oct 2013 | Prolia Injection | Requires Prolia injection to be done in practice | Pending |       | 4          |
|                           |   |             |             | Due              |  |         |       | 1          |
|                           |   |             |             |                  |  |         |       |            |

When the **subsequent dose** is administered the HCP must remember to **change the status** on the **recall** to "**seen**".



SystmOne will now prompt the HCP to **automatically create another recall** for the next 6 monthly Prolia<sup>®</sup> injection along with the "Pre-injection calcium blood test".

| linical Administrative        | Recalls   |         |       | 4   |
|-------------------------------|---|---------|-------|-----|
| - Gris Enilensy v25 2013/2014 | 🔲 🗹 😫 🕍 🚸 🕗 🔍 🖳 👔 💓 View Current recalls 💌  |         |       | 4   |
|                               | Created Recall D v Type Comments  | Status  | Flags | 11  |
| Hypertension v25 2013/20      | 03 Jun 2013 03 Jun 2013 Asthma  | Pending | i     | ^ 1 |
| Hypothyroidism v25 2013/:     | 06 Jun 2013 06 Oct 2013 Prolia Injection Requires Prolia injection to be done in practice | Seen    |       | 4   |
|                               | Due   |         |       | 1   |
| Mental Health v25 2013/20     | Question  |         |       |     |
|                               |   |         |       |     |
|                               | Do you want to create another recall for next time?                                       |         |       |     |
|                               |   |         |       |     |
|                               |   |         |       |     |
|                               |   |         |       |     |
|                               |   |         |       |     |
|                               | Yes No  |         |       |     |
|                               |   |         |       |     |

This process will continue for **all subsequent doses** of Prolia<sup>®</sup>, in the future.

## Step 5 - Set up a search to proactively identify patients that may be overdue a repeat dose of Prolia®

#### This step is only ever carried out once.

- 1. Set up a new report called **Prolia**<sup>®</sup> **Injection Recall Due** from "**Clinical Reporting**"; to find patients with "**Prolia Injection Due**".
- Tick recall date and enter the "date" one year ago, from todays date. Then tick the Relative box.



3. Select **Recall Status** as '**Pending**'.

## Step 6 - Set up a monthly task assigned to the relevant person in the practice for overdue patients

#### This step is only ever carried out once.

 Go to Reporting > Batch Reporting and click 'Create New Batch'



2. Enter the Batch name as "Prolia Injections overdue" and add in the "report created in Step 4".

|                                    |   |   | <u>r r s a m</u>  | <u>+ 201</u> | tll       |   |  |
|------------------------------------|---|---|-------------------|--------------|-----------|---|--|
|                                    | Create New Batch Amend  | Batch Delete Ba   | tch               |              |           |   |  |
|                                    | Name  | Created By  | Created On        | Scheduled 🔻  | Frequency | Last Run  |  |
| 3. Click on<br><b>'Send task</b> ' | Create New Batch Amend<br>Name<br>Batch name Prolia Inje<br>Details<br>Run these reports<br>Add<br>Remove<br>On this date<br>V fihen re-run every<br>Send task<br>-Task details<br>Send task to Unas<br>User<br>Staff<br>Me | Batch Delete Ba<br>Created By<br>rt<br>ctions overdue<br>Prolia Injectio<br>Prolia Injectio<br>16 Jul 2013<br>1 mm<br>signed<br>group<br>member | rth<br>Created On | aneous)      | Frequency | 4. Click<br>mem<br>the m<br>from<br>list, v<br>for ac<br>Prolia | on the " <b>Staff</b><br><b>ber</b> " and select<br>nember of staff,<br>the <b>dropdown</b><br>who is responsible<br><b>dministering</b><br>a® |
|                                    | ⊙ Staff<br>○ Me   | member  Ok Cance  |                   |              |           |   |  |

5. Set the date to run the first report and tick "Then re-run every" and select 1 month.

The "Batch report" created will now **run every month automatically** and send a **task** to the member of staff selected to **administer Prolia**<sup>®</sup>.

#### The task will take the selected member of staff to the report.

Right click on the report and click show patients.



This will show all patients that are either **due a subsequent dose** of **Prolia**<sup>®</sup> or are **overdue**.

## Adding future Prolia<sup>®</sup> patients to SystmOne

The next time new Prolia<sup>®</sup> patients are added to SystmOne only Steps 1 & 3 need to be followed

- Step 1 **Record an initial issue** of Prolia<sup>®</sup> given in secondary care.
- Step 3 Set up a recall for each Prolia<sup>®</sup> patient to ensure subsequent doses are not missed and the pre-injection calcium blood test is carried out.

#### PROLIA<sup>®</sup> (denosumab)

#### **Brief Prescribing Information**

Please refer to the Summary of Product Characteristics (SmPC) before prescribing Prolia. Pharmaceutical Form: Pre-filled syringe with automatic needle guard containing 60 mg of denosumab in 1 ml solution for injection for single use only. Contains sorbitol (E420). Indication: Treatment of osteoporosis in postmenopausal women and in men at increased risk of fractures. Treatment of bone loss associated with hormone ablation in men with prostate cancer at increased risk of fractures. Dosage and Administration: 60 mg Prolia administered as a subcutaneous injection once every 6 months. Patients must be supplemented with calcium and vitamin D. No dosage adjustment required in patients with renal impairment. Not recommended in paediatric patients under 18 years of age. Contraindications: Hypocalcaemia or hypersensitivity to the active substance or to any of the product excipients. Special Warnings and Precautions: Hypocalcaemia: Identify patients at risk for hypocalcaemia. Hypocalcaemia must be corrected by adequate intake of calcium and vitamin D before initiation of therapy. Clinical monitoring of calcium levels is recommended before each dose and, in patients predisposed to hypocalcaemia, within 2 weeks after the initial dose. Measure calcium levels if suspected symptoms of hypocalcaemia occur. Renal Impairment: Patients with severe renal impairment (creatinine clearance < 30 ml/min) or receiving dialysis are at greater risk of developing hypocalcaemia. Regular monitoring of calcium levels in these patients is especially important. Skin infections: Patients receiving Prolia may develop skin infections (predominantly cellulitis) requiring hospitalisation and if symptoms develop then they should contact a health care professional immediately. Osteonecrosis of the jaw (ONJ): ONJ has been reported rarely with Prolia 60 mg every 6 months. For information on known risk factors for ONJ, please refer to the SmPC. A dental examination is recommended prior to treatment with Prolia in patients with concomitant risk factors. Good oral hygiene practices and routine dental check-ups should be maintained during treatment with Prolia. While on treatment, patients should avoid invasive dental procedures if possible. Atypical femoral fracture (AFF): AFF has been reported in patients receiving Prolia. Discontinuation of Prolia therapy in patients suspected to have AFF should be considered pending evaluation of the patient based on an individual benefit risk assessment. Dry natural rubber: The needle cover of the pre-filled syringe contains dry natural rubber (a derivative of latex) which may cause allergic reactions. Concomitant medication: Patients with rare hereditary problems of fructose intolerance should not use Prolia. Interactions: Prolia did not affect the pharmacokinetics of midazolam, which is metabolized by cytochrome P450 3A4 (CYP3A4). There are no clinical data on the co-administration of denosumab and hormone replacement therapy (HRT), however the potential for pharmacodynamic interactions would be considered low. Pharmacokinetics and pharmacodynamics of Prolia were not altered by previous alendronate therapy. Fertility, pregnancy and lactation: There are no adequate data on the use of Prolia in pregnant women and it is not recommended for use in these patients. It is unknown whether denosumab is excreted in human milk. A risk/benefit decision should be made in patients who are breast feeding. Animal studies have indicated that the absence of RANKL during pregnancy may interfere with maturation of the mammary gland leading to impaired lactation post-partum. No data are available on the effect of Prolia on human fertility. Undesirable Effects: The following undesirable effects have been reported: Very common (> 1/10) pain in extremity, musculoskeletal pain. Common (> 1/100 to < 1/10) urinary tract infection, upper respiratory tract infection, sciatica, cataracts, constipation, abdominal discomfort, rash, and eczema. Uncommon (≥ 1/1000 to < 1/100): Diverticulitis, cellulitis, and ear infection. Rare ( $\geq$  1/10,000 to < 1/1,000): Osteonecrosis of the jaw, hypocalcaemia (including severe symptomatic hypocalcaemia) and atypical femoral fractures. In the postmarketing setting, musculoskeletal pain (including severe cases) rare cases of severe symptomatic hypocalcaemia, and rare events of hypersensitivity (including rash, urticaria, facial swelling, erythema and anaphylactic reactions) have been reported. Please consult the Summary of Product Characteristics for a full description of undesirable effects. Pharmaceutical Precautions: Prolia must not be mixed with other medicinal products. Store at 2°C to 8°C (in a refrigerator). Prolia may be exposed to room temperature (up to 25°C) for a maximum single period of up to 30 days in its original container. Once removed from the refrigerator Prolia must be used within this 30 day period. Do not freeze. Keep in outer carton to protect from light. Legal Category: POM. Presentation, Basic Costs and Marketing Authorisation Number: Prolia 60 mg: Pack of 1 pre-filled syringe with automatic needle guard: £183.00; EU/1/10/618/003. Marketing Authorisation Holder: Amgen Europe B.V., Minervum 7061, NL-4817 ZK Breda, The Netherlands. Further information is available from Amgen Limited, 240 Cambridge Science Park, Milton Road, Cambridge, CB4 0WD. Prolia is a registered trademark of Amgen Inc. Date of PI preparation: August 2014 (Ref: DMB-GBR-AMG-314-2014-P)

Adverse events should be reported. Reporting forms and information can be found at www.mhra.gov.uk/yellowcard. Adverse events should also be reported to Amgen Limited on +44 (0) 1223 436712

#### References

- 1. Prolia<sup>®</sup> (denosumab) Summary of Product Characteristics,
- 2. NICE TA204 http://www.nice.org.uk/nicemedia/live/13251/51293/51293.pdf Issue date: October 2010 (last accessed September 2014)
- SMC advice denosumab (Prolia) http://www.scottishmedicines.org.uk/files/advice/denosumab\_Prolia\_FINAL\_November\_2010\_ for\_website.pdf (last accessed September 2014)



