

discharge during treatment with Denosumab. While on treatment, invasive dental procedures should be performed only after careful consideration and be avoided in close proximity to Denosumab administration. The management plan of the patients who develop ONJ should be set up in close collaboration between the treating physician and a dentist or oral surgeon with expertise in ONJ. Temporary interruption of Denosumab treatment should be considered until the condition resolves and contributing risk factors are mitigated where possible.

Osteonecrosis of the external auditory canal

Osteonecrosis of the external auditory canal has been reported with Denosumab. Possible risk factors for osteonecrosis of the external auditory canal include steroid use and chemotherapy and/or local risk factors such as infection or trauma. The possibility of osteonecrosis of the external auditory canal should be considered in patients receiving Denosumab who present with ear symptoms including chronic ear infections.

Atypical fractures of the femur

Atypical femoral fractures have been reported in patients receiving Denosumab (**see section Undesirable effects**). Atypical femoral fractures may occur with little or no trauma in the subtrochanteric and diaphyseal regions of the femur. Specific radiographic findings characterise these events. Atypical femoral fractures have also been reported in patients with certain co-morbid conditions (e.g., vitamin D deficiency, rheumatoid arthritis, hypophosphatasia) and with use of certain pharmaceutical agents (e.g., bisphosphonates, glucocorticoids, and proton pump inhibitors). These events have also occurred without antiresorptive therapy. Similar fractures reported in association with bisphosphonates are often bilateral; therefore the contralateral femur should be examined in Denosumab -treated patients who have sustained a femoral shaft fracture. Discontinuation of Denosumab therapy in patients suspected to have an atypical femur fracture should be considered pending evaluation of the patient based on an individual benefit-risk assessment. During Denosumab treatment, patients should be advised to report new or unusual thigh, hip, or groin pain. Patients presenting with such symptoms should be evaluated for an incomplete femoral fracture.

Hypercalcaemia following treatment discontinuation in patients with giant cell tumour of bone and in patients with growing skeletons

Clinically significant hypercalcaemia requiring hospitalisation and complicated by acute renal injury has been reported in Denosumab -treated patients with giant cell tumour of bone weeks to months following treatment discontinuation.

After treatment is discontinued, monitor patients for signs and symptoms of hypercalcaemia, consider periodic assessment of serum calcium and re-evaluate the patient's calcium and vitamin D supplementation requirements (**see section Undesirable effects**).

Denosumab is not recommended in patients with growing skeletons (**see section Dosage and method of administration**). Clinically significant hypercalcaemia has also been reported in this patient group weeks to months following treatment discontinuation.

Multiple Vertebral Fractures (MVF) Following Treatment Discontinuation

Multiple vertebral fractures (MVF), not due to bone metastases, may occur following discontinuation of treatment with Denosumab, particularly in patients with risk factors such as osteoporosis or prior fractures. Advise patients not to interrupt Denosumab therapy without their physician's advice. When Denosumab treatment is discontinued, evaluate the individual patient's risk for vertebral fractures.

Others

Denosumab contains the same active ingredient as found in Evfaxy (Denosumab). Patients being treated with Denosumab should not be treated concomitantly with other Denosumab containing medicinal products (for osteoporosis indications).

Patients being treated with Denosumab should not be treated concomitantly with bisphosphonates.

Warnings for excipients

This medicinal product contains sorbitol. Patients with rare hereditary problems of fructose intolerance should not take this medicinal product.

This medicinal product contains less than 1 mmol sodium (23 mg) per 120 mg, i.e. essentially 'sodium-free'.

Interactions with Other Medicaments

No interaction studies have been performed.

In clinical trials, Denosumab has been administered in combination with standard anti-cancer treatment and in subjects previously receiving bisphosphonates. There were no clinically-relevant alterations in trough serum concentration and pharmacodynamics of Denosumab (creatinine adjusted urinary N-telopeptide, uNTx/Cr) by concomitant chemotherapy and/or hormone therapy or by previous intravenous bisphosphonate exposure.

Fertility, Pregnancy and Lactation

Pregnancy

There are no adequate data from the use of Denosumab in pregnant women. Reproductive toxicity was shown in a study of cynomolgus monkeys, dosed throughout pregnancy with Denosumab at AUC exposures 12-fold higher than the human dose (**see section Preclinical safety data**).

Denosumab is not recommended for use in pregnant women and women of childbearing potential not using contraception. Women should be advised not to become pregnant during and for at least 5 months after treatment with Denosumab. Any effects of Denosumab are likely to be greater during the second and third trimesters of pregnancy since monoclonal antibodies are transported across the placenta in a linear fashion as pregnancy progresses, with the largest amount transferred during the third trimester.

Breast-feeding

It is unknown whether Denosumab is excreted in human milk. A risk to the newborns/infants cannot be excluded. Knockout mouse studies suggest absence of RANKL during pregnancy may interfere with maturation of the mammary gland leading to impaired lactation post-partum (**see section Preclinical safety data**). A decision must be made on whether to abstain from breast-feeding or to abstain from Denosumab therapy taking into account the benefit of breast-feeding to the newborn/infant and the benefit of therapy for the woman.

Fertility

No data are available on the effect of Denosumab on human fertility. Animal studies do not indicate direct or indirect harmful effects with respect to fertility (**see section Preclinical safety data**).

Undesirable Effects

Summary of the safety profile

Overall safety profile is consistent in all approved indications for Vevzuo™.

Hypocalcaemia has very commonly been reported following Vevzuo™ administration, mostly within the first 2 weeks. Hypocalcaemia can be severe and symptomatic (**see section Undesirable effects - description of selected adverse reactions**). The decreases in serum calcium were generally

appropriately managed by calcium and vitamin D supplementation. The most common adverse reactions with Vevzuo™ are musculoskeletal pain. Cases of osteonecrosis of the jaw (**see sections Special warnings and precautions for use and section Undesirable effects - description of selected adverse reactions**) have been commonly observed in patients taking Vevzuo™.

Tabulated list of adverse reactions

The following convention has been used for the classification of the adverse reactions based on incidence rates in four phase III, two phase II clinical studies and post-marketing experience are presented in Table 3: very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), rare (≥ 1/10,000 to < 1/1,000), very rare (< 1/10,000) and not known (cannot be estimated from the available data. Within each frequency grouping and system organ class, adverse reactions are presented in order of decreasing seriousness.

Table 3: Adverse reactions reported in patients with advanced malignancies involving bone, multiple myeloma, or with giant cell tumour of bone

MedDRA system organ class	Frequency category	Adverse reactions
Neoplasms benign, malignant and unspecified (including cysts and polyps)	Common	New primary malignancy ¹
Immune system disorders	Rare	Drug hypersensitivity ¹
Rare		Anaphylactic reaction ¹
Metabolism and nutrition disorders	Very common	Hypocalcaemia ^{1, 2}
Common		Hypophosphataemia
Uncommon		Hypercalcaemia following treatment discontinuation in patients with giant cell tumour of bone ³
Respiratory, thoracic and mediastinal disorders	Very common	Dyspnoea
Gastrointestinal disorders	Very common	Diarrhoea
Common		Tooth extraction
Skin and subcutaneous tissue disorders	Common	Hyperhidrosis
Common		Alopecia
Uncommon		Lichenoid drug eruptions ¹
Musculoskeletal and connective tissue disorders	Very Common	Musculoskeletal pain ¹
Common		Osteonecrosis of the jaw ¹
Uncommon		Atypical femoral fracture ¹
Rare		Multiple vertebral fractures following treatment discontinuation ^{1, 3}
Not known		Osteonecrosis of the external auditory canals ⁴

1 See section Description of selected adverse reactions

2 See section other special populations

3 See section Special warnings and precautions for use

4 Class effect

Description of selected adverse reactions

Hypocalcaemia

A higher incidence of hypocalcaemia among subjects treated with Denosumab compared to Zoledronic Acid has been observed in SRE prevention clinical trials.

The highest incidence of hypocalcaemia was observed in a phase III trial in patients with multiple myeloma. Hypocalcaemia was reported in 16.9% of patients treated with Denosumab and 12.4% of patients treated with Zoledronic Acid. A grade 3 decrease in serum calcium levels was experienced in 1.4% of patients treated with Denosumab and 0.6% of patients treated with Zoledronic Acid. A grade 4 decrease in serum calcium levels was experienced in 0.4% of patients treated with Denosumab and 0.1% of patients treated with Zoledronic Acid.

In three phase III active-controlled clinical trials in patients with advanced malignancies involving bone, hypocalcaemia was reported in 9.6% of patients treated with Denosumab and 5.0% of patients treated with Zoledronic Acid.

A grade 3 decrease in serum calcium levels was experienced in 2.5% of patients treated with Denosumab and 1.2% of patients treated with Zoledronic Acid. A grade 4 decrease in serum calcium levels was experienced in 0.6% of patients treated with Denosumab and 0.2% of patients treated with Zoledronic Acid (**see section Special warnings and precautions for use**).

In two phase II single-arm clinical trials in patients with giant cell tumour of bone, hypocalcaemia was reported in 5.7% of patients. None of the adverse events was considered serious.

In the post-marketing setting, severe symptomatic hypocalcaemia (including fatal cases) has been reported, with most cases occurring in the first weeks of initiating therapy. Examples of clinical manifestations of severe symptomatic hypocalcaemia have included QT interval prolongation, tetany, seizures and altered mental status (including coma) (**see section Special warnings and precautions for use**). Symptoms of hypocalcaemia in clinical studies included paraesthesiae or muscle stiffness, twitching, spasms and muscle cramps.

Osteonecrosis of the Jaw (ONJ)

In clinical trials, the incidence of ONJ was higher with longer duration of exposure; ONJ has also been diagnosed after stopping treatment with Denosumab with the majority of cases occurring within 5 months after the last dose. Patients with prior history of ONJ or osteomyelitis of the jaw, an active dental or jaw condition requiring oral surgery, non-healed dental/oral surgery, or any planned invasive dental procedure were excluded from the clinical trials.

A higher incidence of ONJ among subjects treated with Denosumab compared to Zoledronic Acid has been observed in SRE prevention clinical trials. The highest incidence of ONJ was observed in a phase III trial in patients with multiple myeloma. In the double-blind treatment phase of this trial, ONJ was confirmed in 5.9% of patients treated with Denosumab (median exposure of 19.4 months; range 1 - 52) and in 3.2% of patients treated with zoledronic acid. At the completion of the double-blind treatment phase of this trial, the patient-year adjusted incidence of confirmed ONJ in the Denosumab group (median exposure of 19.4 months; range 1 - 52), was 2.0 per 100 patient-years during the first year of treatment, 5.0 in the second year, and 4.5 thereafter. The median time to ONJ was 18.7 months (range: 1 - 44).

In the primary treatment phases of three phase III active-controlled clinical trials in patients with advanced malignancies involving bone, ONJ was confirmed in 1.8% of patients treated with Denosumab (median exposure of 12.0 months; range 0.1 – 40.5) and 1.3% of patients in the Zoledronic Acid. Clinical characteristics of these cases were similar between treatment groups. Among subjects with confirmed ONJ, most (81% in both treatment groups) had a history of tooth extraction, poor oral hygiene, and/or use of a dental appliance. Most subjects were receiving or had received chemotherapy.

The trials in patients with breast or prostate cancer included a Denosumab extension treatment phase (median overall exposure of 14.9 months; range 0.1 – 67.2). ONJ was confirmed in 6.9% of patients with breast cancer and prostate cancer during the extension treatment phase.

The patient-year adjusted overall incidence of confirmed ONJ was 1.1 per 100 patient-years during the first year of treatment, 3.7 in the second year and 4.6 thereafter. The median time to ONJ was 20.6 months (range: 4 - 53).

In a phase III trial in patients with non-metastatic prostate cancer (a patient population for which Denosumab is not indicated), with longer treatment exposure of up to 7 years, the patient-year adjusted incidence of confirmed ONJ was 1.1 per 100 patient-years during the first year of treatment, 3.0 in the second year and 7.1 thereafter.

In a long-term phase I open-label clinical trial in patients with giant cell tumour of bone in Study 6 (**see section Pharmacodynamic properties**), ONJ was confirmed in 6.8% of patients, including one adolescent (median number of 34 doses; range 4 – 116). At the completion of the trial, median time on trial including safety follow-up phase was 60.9 months (range: 0 – 112.6). The patient-year adjusted incidence of confirmed ONJ was 1.5 per 100 patient-years overall (0.2 per 100 patient-years during the first year of treatment, 1.5 in the second year, 1.8 in the third year, 2.1 in the fourth year, 1.4 in the fifth year, and 2.2 thereafter). The median time to ONJ was 41 months (range: 11 - 98).

Drug related hypersensitivity reactions

In the post-marketing setting, events of hypersensitivity, including rare events of anaphylactic reactions, have been reported in patients receiving Denosumab.

Atypical fractures of the femur

In the clinical trial programme, atypical femoral fractures have been reported uncommonly in patients treated with Denosumab and the risk increased with longer duration of treatment. Events have occurred during treatment and up to 9 months after the treatment was discontinued (**see section Special warnings and precautions for use**).

Multiple vertebral fractures

In the clinical trial program, multiple vertebral fractures, (not due to bone metastases), were reported rarely, following discontinuation of treatment with Denosumab, in patients with risk factors such as osteoporosis or prior (non-vertebral or vertebral) fractures (**see section Special warnings and precautions for use**).

Musculoskeletal Pain

In the post-marketing setting, musculoskeletal pain, including severe cases, has been reported in patients receiving Denosumab. In clinical trials, musculoskeletal pain was very common in both the Denosumab and Zoledronic Acid treatment groups. Musculoskeletal pain leading to discontinuation of study treatment was uncommon.

New primary malignancy

In the primary double-blind treatment phases of four phase III active-controlled clinical trials in patients with advanced malignancies involving bone, new primary malignancy was reported in 54/3691 (1.5%) of patients treated with Denosumab (median exposure of 13.8 months; range: 1.0–51.7) and 33/3688 (0.9%) of patients treated with Zoledronic Acid (median exposure of 12.9 months; range: 1.0–50.8).

The cumulative incidence at one year was 1.1 % for Denosumab and 0.6 % for Zoledronic Acid, respectively.

No treatment-related pattern in individual cancers or cancer groupings was apparent.

Lichenoid Drug Eruptions

In the post-marketing experience, lichenoid drug eruptions (e.g., lichen planus-like reactions) have been observed.

Paediatric population

Denosumab was studied in an open label trial that enrolled 28 skeletally mature adolescents with giant cell tumour of bone. Based on these limited data, the adverse event profile appeared to be similar to adults. Clinically significant hypercalcaemia after treatment discontinuation has been reported in the postmarketing setting in paediatric patients (**see section Special warnings and precautions for use**).

Other special populations

Renal Impairment

In a clinical study of patients without advanced cancer with severe renal impairment (creatinine clearance < 30 mL/min) or receiving dialysis, there was a greater risk of developing hypocalcaemia in the absence of calcium supplementation. The risk of developing hypocalcaemia during Denosumab treatment is greater with increasing degree of renal impairment. In a clinical study in patients without advanced cancer, 19% of patients with severe renal impairment (creatinine clearance < 30 mL/min) and 63% of patients receiving dialysis developed hypocalcaemia despite calcium supplementation. The overall incidence of clinically significant hypocalcaemia was 9%.

Accompanying increases in parathyroid hormone have also been observed in patients receiving Denosumab with severe renal impairment or receiving dialysis. Monitoring of calcium levels and adequate intake of calcium and vitamin D is especially important in patients with renal impairment (**see section Special warnings and precautions for use**).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions as per local regulations.

Overdose

There is no experience with overdose clinical studies. Denosumab has been administered in clinical studies using doses up to 180 mg every 4 weeks and 120 mg weekly for 3 weeks.

Ability to Drive and Use Machines

Vevzuo™ has no or negligible influence on the ability to drive and use machines.

Special precautions for storage

Store in a refrigerator (2°C – 8°C).

Do not freeze.

Keep the vial in the outer carton in order to protect from light. Do not shake.

Once removed from the refrigerator, Vevzuo™ may be stored at room temperature (up to 25°C) for up to 30 days in the original container.

Nature and Contents of Container

1.7 mL solution (70 mg/mL) in a single use vial (Type I glass) with chlorobutyl rubber stoppers (Fluorect® coated) and sealed with clear flip-off aluminium seal.

Pack size of one.

Shelf Life

Refer to Carton/Label.

Instructions for Use

Special Precautions for Disposal and Other Handling

- Before administration, the Vevzuo™ solution should be inspected visually. Do not inject the solution if it is cloudy or discoloured.
- Do not shake.
- To avoid discomfort at the site of injection, allow the vial to reach room temperature (up to 25°C) before injecting and inject slowly.
- The entire contents of the vial should be injected.
- A 27 gauge needle is recommended for the administration of Vevzuo™.
- The vial should not be re-entered.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

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4. Date of Revision: April 2026

