

Pamidronate Disodium is excreted intact primarily via the kidney, thus the risk of renal adverse reactions may be greater in patients with impaired renal function.

Due to the risk of clinically significant deterioration in renal function which may progress to renal failure, single doses of Pamidronate Disodium should not exceed 90 mg, and the recommended infusion time should be observed.

As with other IV bisphosphonates renal monitoring is recommended, for instance, measurement of serum creatinine prior to each dose of Pamidronate Disodium.

Patients treated with Pamidronate Disodium for bone metastases or multiple myeloma should have the dose withheld if renal function has deteriorated.

Pamidronate Disodium should not be administered to patients with severe renal impairment (creatinine clearance < 30 mL/min) unless in cases of life-threatening tumour-induced hypercalcaemia where the benefit outweighs the potential risk. Because there is only limited pharmacokinetic data with severe renal impairment no dose recommendations for this patient population can be made. Pamidronate Disodium should not be given with other bisphosphonates because their combined effects have not been investigated. There is very little experience of the use of Pamidronate Disodium in patients receiving haemodialysis.

Hepatic Insufficiency

As there are no clinical data available in patients with severe hepatic insufficiency, no specific recommendations can be given for this patient population.

Calcium and Vitamin D Supplementation

In the absence of hypercalcaemia, patients with predominantly lytic bone metastases or multiple myeloma, who are at risk of calcium or Vitamin D deficiency (e.g. through malabsorption or lack of exposure to sunlight) and patients with Paget's disease of the bone should take oral calcium and vitamin D supplementation in order to minimize the potential risk of hypocalcaemia.

Osteonecrosis of the jaw

Osteonecrosis of the jaw has been reported predominantly in cancer patients treated with bisphosphonates, including Pamidronate Disodium. Many of these patients were also receiving chemotherapy and corticosteroids. The majority of reported cases have been associated with dental procedures such as tooth extraction. Many had signs of local infection including osteomyelitis.

A dental examination with appropriate preventive dentistry should be considered prior to treatment with bisphosphonates in patients with concomitant risk factors (e.g. cancer, chemotherapy, corticosteroids, poor oral hygiene).

While on treatment, these patients should avoid invasive dental procedures if possible. For patients who develop osteonecrosis of the jaw while on bisphosphonate therapy, dental surgery may exacerbate the condition. For patients requiring dental procedures, there are no data available to suggest whether discontinuation of bisphosphonate treatment reduces the risk of osteonecrosis of the jaw. Clinical judgement of the treating physician should guide the management plan of each patient based on individual benefit/risk assessment.

Osteonecrosis of the external auditory canal has been reported with bisphosphonates, mainly in association with long-term therapy. 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 bisphosphonates who present with ear symptoms including chronic ear infections.

Musculoskeletal Pain

Severe and occasionally incapacitating bone, joint, and/or muscle pain has been reported in patients taking bisphosphonates. This category of drugs includes Pamidronate Disodium for infusion. The time to onset of symptoms varied from one day to several months after starting the drug with the majority occurring within a few days. Most patients had relief or improvement of symptoms after stopping treatment. A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate.

Effects on the ability to drive or operate machinery

Patients should be warned that somnolence and/or dizziness may occur following Pamidronate Disodium infusion, in which case they should not drive, operate potentially dangerous machinery or engage in other activities that may be hazardous because of decreased alertness.

DRUG INTERACTIONS:

Pamidronate Disodium has been administered concomitantly with commonly used anticancer agents eg. commonly used antitumour drugs (including aminogluthethimide, cisplatin, corticosteroids, cyclophosphamide, cytarabine, doxorubicin, etoposide, flurouracil, megestrol, melphalan, methotrexate, mitoxantrone, paclitaxel, tamoxifen, vinblastine and vincristine) without interactions occurring.

Pamidronate Disodium has been used in combination with calcitonin in patients with severe hypercalcaemia, resulting in a synergistic effect producing a more rapid fall in serum calcium.

Caution is indicated when Pamidronate Disodium is used with other potentially nephrotoxic drugs. In multiple myeloma patients, the risk of renal dysfunction may be increased when Pamidronate Disodium is used in combination with thalidomide.

Pamidronate Disodium should not be used concomitantly with other bisphosphonates.

Incompatibilities

Infusion bags made from polyvinylchloride and polyethylene (prefilled with 0.9% w/v sodium chloride solution or 5% w/v glucose solution), showed no incompatibility with Pamidronate Disodium.

To avoid potential incompatibilities, Pamidronate Disodium Injection is to be diluted with 0.9% w/v sodium chloride solution or 5% w/v glucose solution.

Pamidronate Disodium Injection must not be mixed with calcium-containing solution such as Ringer’s solution.

USE IN PREGNANCY AND LACTATION:

There are no adequate and well-controlled studies in pregnant women and no clinical experience to support the use of Pamidronate Disodium in pregnant women. Therefore, Pamidronate should not be used during pregnancy.

Mothers treated with Pamidronate Disodium should also not breastfeed their infants.

SIDE EFFECTS:

Usually mild to transient. The most common adverse reactions are asymptomatic hypocalcaemia and fever (an increase in body temperature 1-2°C) typically occurring within 1st 48 hrs of infusion. Fever usually resolves spontaneously and does not require treatment.

Infection

Very rare: Reactivation of Herpes simplex and Herpes zoster.

Blood

Common: Anaemia, thrombocytopenia, lymphocytopenia.

Very rare: Leukopenia.

Immune system

Uncommon: Allergic reactions including anaphylactoid reactions, bronchospasm/dyspnoea, Quincke's (angioneutotic) edema.

Very Rare: Anaphylactic shock.

Central Nervous System

Common: Symptomatic hypocalcaemia, headache, insomnia, somnolence.

Uncommon: Siezures, agitation, dizziness, lethargy.

Very Rare: Confusion, visual hallucinations.

Special Senses

Common: Conjunctivitis.

Very rare: Scleritis, episcleritis, xanthopsia.

Cardiovascular system

Common: Hypertension.

Uncommon: Hypotension.

Very Rare: Left ventricular failure (dyspnoea, pulmonary edema), congestive heart failure (edema) due to fluid overload.

Gastrointestinal tract

Common: Nausea, vomiting, anorexia, abdominal pain, diarrhoea, constipation, gastritis.

Uncommon: Dyspnoea.

Skin

Common: Rash.

Uncommon: Pruritis

Musculoskeletal system

Common: Transient bone pain, arthralgia, myalgia and generalized pain.

Uncommon: Muscle cramps.

Very rare: Osteonecrosis of the external auditory canal (bisphosphonate class adverse reaction).

Renal system

Uncommon: Acute renal failure.

Rare: Focal segmental glomerulosclerosis including the collapsing variant, nephritic syndrome.

Very Rare: Deterioration of preexisting renal disease, haematuria.

General disorders and administration site conditions

Very common: Fever and influenza like symptoms sometimes accompanied by malaise, rigor, fatigue and flushes.

Common: Reactions at the infusion site (pain, redness, swelling, induration, phlebitis, thrombophlebitis).

Biochemical changes

Very common: Hypocalcaemia, hypophosphataemia.

Common: Hypokalemia, hypomagnesaemia, increase in serum creatinine.

Uncommon: Abnormal liver function tests, increase in serum urea.

Very Rare: Hyperkalemia, hypernatremia.

Many of these undesirable effects may have been related to the underlying disease.

OVERDOSE AND TREATMENT:

Patients who have received doses higher than those recommended should be carefully monitored. In the event of clinically significant hypocalcaemia with paraesthesia, tetany and hypotension, reversal may be achieved with an infusion of calcium gluconate.

STORAGE:

Store below 30°C. Protect from light. Discard any unused portion after opening.

AVAILABILITY:

Pack of 1 x 10mL vial

For further information, please consult your physician or pharmacist.

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Product Owner:
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BACK SIDE

Product	PAMIDRONATE MYLAN – Pamidronate Disodium Injection 3 mg/mL				
Buyer/Country	Mylan / Malaysia	Component	Pack Insert		
Dimension	280 x 210 mm			Pack	--
New Item Code	50106816 (1200013518)	Old Item Code	1033286 (1200005590)		
Colour Shades	Black			No. of Colours	1
Change Control No.	PR# 3955812				
Design/Style	Front & Back Printing. To be supplied in the folded size 35 x 55 mm - Brand name facing front side.				
Substrate	40/45 GSM Paper.				
Special Instructions	Printing clarity to be clear & sharp.				
Autocartonator Requirements	NA				
Caution to the printer: Before processing, please ensure that the ARTWORK received for printing is exactly in line with APPROVED ARTWORK provided to you. In case of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK, please inform PDC for further action. DO NOT MAKE ANY CHANGE TO THE ARTWORK WITHOUT WRITTEN INSTRUCTIONS FROM PDC.					