



Zoledronate infusion / Aclasta

Zoledronate (also called zoledronic acid) is a powerful type of bisphosphonate. Bisphosphonates are used to treat osteoporosis and Paget's disease, and to prevent some forms of cancer from spreading in the bones.

How bisphosphonates work

Your bones are in a constant state of change. As new bone is added by cells called *osteoblasts*, old bone is dissolved by cells called *osteoclasts*. Bisphosphonates help to prevent the *osteoclasts* from dissolving (or *resorbing*) your bones.

Treatment with zoledronate

Zoledronate is given directly into your arm via a drip. This is called intravenous infusion. It takes between 15 and 30 minutes and is done every one or two years.

Benefits of zoledronate

Zoledronate:

- increases bone density in people with osteoporosis
- reduces fracture rates by 35 to 70%
- reduces bone pain in people with bone disease.

Side effects

Some people have flu-like symptoms after their first treatment of zoledronate, but apart from that, side effects aren't common. When considering zoledronate treatment, it's important to balance the small risk of side effects against the much greater risk of a major fracture (break).

Known side effects

- Flu-like feelings About 30% of people have a flu-like feeling after their first treatment. It usually lasts two to four days but can occasionally last longer, sometimes with muscle or joint aches. This is usually treated with paracetamol. The chances of this side effect happening after the second or third zoledronate infusion is much lower (about 3 to 4%).
- Kidney damage If you already have severe kidney damage, your kidney function can sometimes get worse after having zoledronate. That's why it's important to drink extra fluid on the day of the infusion. Your doctor may also advise you to stop taking any medication that can affect your kidneys. Zoledronate isn't normally given to people whose kidneys aren't functioning well.











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Rare side effects

- Osteonecrosis of the jaw (ulcers in tooth sockets or the gums) This problem has been found in cancer patients (where they're given high doses of bisphosphonates). It rarely happens in people being treated for osteoporosis. It's often associated with poor oral (mouth) hygiene and can happen after dental extractions. For this reason, doctors suggest that the infusion is delayed until you've had any major dental treatment you might need. It's also important to maintain good mouth hygiene and have regular dental checks. But if you aren't having any problems with your teeth, you don't need a dental check before having zoledronate.
- Upper leg fractures There's a very small risk of unusual leg fractures after using zoledronate acid infusions for longer periods.
- Inflammation of the eye (uveitis) This causes a red painful eye and changes in vision. If you have any
 new eye symptoms contact your doctor immediately.

Preparing for the infusion

Before the infusion

Your own GP may do your zoledronate infusion or you may be referred to another GP or specialist. The following steps need to be done before you have the infusion.

- Your doctor will check that you're able to have this type of medication. They'll explain about the medication and what to expect, including possible side effects. Either your doctor or the person performing the infusion will make sure that you're happy to proceed and will ask you to sign a consent form.
- Your doctor will give you a prescription for the infusion. You'll need to take it to a pharmacy and arrange to pick up the infusion on the day of your procedure.
- If you need any dental treatment, you should have it done before your infusion. If you haven't had a recent dental check, consider having one and talking to your dentist about the infusion. But if you aren't having any problems with your teeth, this isn't essential.
- Your doctor will arrange for you have a blood test one week before the infusion.
- If you aren't already taking vitamin D tablets, your doctor will ask you to take two calciferol (vitamin D) tablets one week before your infusion.

On the day of the infusion

- You shouldn't take any anti-inflammatory medication (like aspirin or ibuprofen) or diuretic medication (like furosemide or bendroflumethiazide) on the day of your appointment. If you aren't sure whether this applies to any medication you're taking, ask your doctor.
- Remember to pick up the infusion from your pharmacy.
- Eat and drink as normal. Also, drink two large glasses of water before or during the infusion.
- Take two paracetamol tablets 30 to 60 minutes before your appointment. You'll also be given paracetamol to take regularly for three days after the infusion.

See your doctor before attending the appointment if you have any questions about the procedure or about the medicine or your bone condition.

Written by Auckland Bone Density. Adapted by HealthInfo clinical advisers. Last reviewed May 2020.







