

Zoledronic Acid Injection Uses

Bisphosphonates were originally synthesized in the 19th century and used in industry for their antiscaling and anticorrosive properties. In the late 1960s their potential to treat diseases related to the metabolism of the bones became evident. The first generation of bisphosphonates included etidronic acid and clodronic acid which were introduced in the 1970s and 1980s. They were the first bisphosphonate drugs to be used successfully in the clinic. They have since then been developed... f0c56daa45 Denosumab is a human IgG2 monoclonal antibody that inhibits the protein RANKL (receptor activator of nuclear factor kappa-B ligand). RANKL is essential for the formation, function and survival of decreasing the development of osteoclasts, which are cells that resorb (break down) bone. Denosumab binds to RANKL with high affinity and specificity, preventing the interaction between RANKL and RANK (receptor activator of nuclear factor-kappa B). This leads to a reduction in osteoclast numbers and function, and a decrease in bone resorption in cortical and trabecular bones, including cancer-induced bone destruction. It was developed by the biotechnology company Amgen. f0c56daa45

Prostate cancer Other bone-modifying agents like zoledronic acid and denosumab Prostate cancer is the uncontrolled growth of cells in the prostate, a gland in the male reproductive system below the bladder. chemotherapeutics used for metastatic prostate cancer can reduce pain as they shrink tumors. Abnormal growth of prostate tissue is usually detected through screening tests, typically blood tests that check for prostate-specific antigen (PSA) levels. Those with high levels of PSA in their blood are at increased risk for developing prostate cancer f0c56daa45

== Approved for human use == f0c56daa45 The list is divided into core items and complementary items. The core items are deemed to be the most cost-effective options for key health problems and are usable with little additional health care resources. The complementary items either require additional infrastructure such as specially trained health care providers or diagnostic equipment or have a lower benefit–cost ratio. About 25% of items are in the complementary list. Some medications are listed as both core and complementary. While most medications on the list are available as generic products, being under patent does not prevent inclusion. f0c56daa45

Disease-modifying osteoarthritis drug NCT02905864), Metformin (anti-diabetic drug: NCT04767841, NCT05034029), Zoledronic acid (anti-osteoporotic drug: NCT04303026), etc. Since the main hallmark of osteoarthritis is cartilage loss, a typical DMOAD would prevent the loss of cartilage and potentially regenerate it. Other DMOADs may attempt to help repair adjacent tissues by reducing inflammation. A successful DMOAD would be expected to show an improvement in patient pain and function with an improvement of the health of the joint tissues. Paroxetine has been deemed A disease-modifying osteoarthritis drug (DMOAD) is a disease-modifying drug that would inhibit or even reverse the progression of osteoarthritis f0c56daa45

Most prostate tumors remain small and cause no health problems. These are managed with active surveillance, monitoring the tumor with regular tests to ensure it has not grown. Tumors more likely to be dangerous can be destroyed with radiation therapy or surgically removed by radical prostatectomy. Those whose cancer spreads beyond the prostate are treated with hormone therapy, which reduces levels of... f0c56daa45

Addison's disease Symptoms generally develop slowly and insidiously and may include abdominal pain and gastrointestinal abnormalities, weakness, and weight loss. Rapid onset of symptoms indicates acute adrenal failure, which is a clinical emergency. "Adrenal Crisis as An Adverse Reaction to Zoledronic

Acid in a Patient With Primary Adrenal Insufficiency: A Case Report and Addison's disease, also known as primary adrenal insufficiency, is a rare long-term endocrine disorder characterized by inadequate production of the steroid hormones cortisol and aldosterone by the two outer layers of the cells of the adrenal glands (adrenal cortex), causing adrenal insufficiency. Mood changes may also occur. Vaz Wicks CL (2023-03-01). Darkening of the skin in certain areas may also occur. An adrenal crisis can be triggered by stress, such as from an injury, surgery, or infection. Under certain circumstances, an adrenal crisis may occur with low blood pressure, vomiting, lower back pain, and loss of consciousness f0c56daa45

== Medical uses == f0c56daa45 Diagnosis requires a biopsy of the prostate. If cancer is present, the pathologist assigns a Gleason score; a higher score represents a more dangerous tumor. Medical imaging is performed to look for cancer that has spread outside the prostate. Based on the Gleason score, PSA levels, and imaging results, a cancer case is assigned a stage 1 to 4. A higher stage signifies a more advanced, more dangerous disease. f0c56daa45 Common side effects include fever, joint pain, high blood pressure, diarrhea, and feeling tired. Serious side effects may include kidney problems, low blood calcium, and osteonecrosis of the jaw. Use during pregnancy may result in harm to the baby. It is in the bisphosphonate family of medications. It works by blocking the activity of osteoclast cells and thus decreases the breakdown of bone. f0c56daa45 There are currently no DMOADs approved for human use. f0c56daa45 Common side effects include diarrhea, constipation and low platelet count. Like the older bortezomib (which can only be given by injection), it acts as a proteasome inhibitor, has orphan drug status in the US and Europe, and is a boronic acid derivative. f0c56daa45

Ixazomib NCT02516423 for "Ixazomib Citrate, Lenalidomide, Dexamethasone, and Zoledronic Acid or Zoledronic Acid Alone After Radiation Therapy in Treating Patients With Solitary Ixazomib (trade name Ninlaro) is a drug for the treatment

of multiple myeloma, a type of white blood cell cancer, in combination with other drugs. It is taken by mouth in the form of capsules f0c56daa45

Denosumab (as Prolia) is indicated for the treatment of postmenopausal women with osteoporosis at high risk for fracture; to increase bone mass in men with osteoporosis at high risk for fracture; the treatment of glucocorticoid... f0c56daa45 The study relevant for approval included 722 people. In this study, ixazomib increased the median time of progression-free survival from 14.7 months (in the placebo+lenalidomide+dexamethasone study arm including 362 people) to 20.6 months (under ixazomib+lenalidomide+dexamethasone, 360 people), which was a statistically significant effect ($p = 0.012$). 11.7% of patients in the ixazomib group had... f0c56daa45

Prostate cancer treatment Other important factors include the man's age, his general health, and his feelings about potential treatments and their possible side-effects. Treatments also extend to survivorship based interventions. Bisphosphonates such as zoledronic acid have been shown to delay skeletal complications such as fractures or Treatment for prostate cancer may involve active surveillance, surgery, radiation therapy – including brachytherapy (prostate brachytherapy) and external-beam radiation therapy, proton therapy, high-intensity focused ultrasound (HIFU), cryosurgery, hormonal therapy, chemotherapy, or some combination. However, a published review has found only high levels of evidence for interventions that target physical and psychological symptom management and health promotion, with no reviews of interventions for either care coordination or surveillance. Because all treatments can have significant side-effects, such as erectile dysfunction and urinary incontinence, treatment discussions often focus on balancing the goals of therapy with the risks. months for those taking docetaxel + prednisone. The favored treatment option depends on the stage of the disease, the Gleason score, and the PSA level. These interventions are focused on five domains including: physical symptoms, psychological symptoms, surveillance, health promotion and care

coordination f0c56daa45

Denosumab A 2012 meta-analysis found that denosumab was better than placebo, zoledronic acid, and pamidronate, in reducing the risk of fractures in those with cancer Denosumab, sold under the brand names Prolia and Xgeva among others, is a human monoclonal antibody used for the treatment of osteoporosis, treatment-induced bone loss, metastases to bone, and giant cell tumor of bone f0c56daa45

Zoledronic acid is indicated for the prevention of skeletal related events (pathological fractures, spinal compression, radiation or surgery to bone, or tumor-induced hypercalcemia) in people with advanced malignancies involving bone; the treatment... f0c56daa45 As the disease often affects people differently, treatments of Paget's disease can vary. Although there is no cure for Paget's disease, medications (bisphosphonates and calcitonin) can help control the disorder and lessen pain and other symptoms. Medications are often successful in controlling the disorder, especially... f0c56daa45

Paget's disease of bone Zoledronic acid is given as an intravenous infusion; a single dose is effective for Paget's disease of bone (commonly known as Paget's disease or, historically, osteitis deformans) is a condition involving cellular remodeling and deformity of one or more bones. The affected bones show signs of dysregulated bone remodeling at the microscopic level, specifically excessive bone breakdown and subsequent disorganized new bone formation. tap water, taking any medication, or lying down (patient may sit). These structural changes cause the bone to weaken, which may result in deformity, pain, fracture or arthritis of associated joints f0c56daa45

== Medical uses == f0c56daa45 Ixazomib is used in combination with lenalidomide and dexamethasone for the treatment of multiple myeloma in adults after at least one prior therapy. There are no experiences with children and youths under 18 years of age. f0c56daa45

Discovery and development of bisphosphonates Bisphosphonates reduce breakdown of bones by inhibiting osteoclasts, they have a long history of use and today there are a few different types of bisphosphonate drugs on the market around the world. doi:10 Bisphosphonates are an important class of drugs originally commercialised in the mid to late 20th century. Potent Geminal Bisphosphonates. From Pamidronate Disodium (Aredia) to Zoledronic Acid (Zometa)". Journal of Medicinal Chemistry. They are used for the treatment of osteoporosis and other bone disorders that cause bone fragility and diseases where bone resorption is excessive. 45 (17): 3721–3738. Osteoporosis is common in post-menopausal women and patients in corticosteroid treatment where biphosphonates have been proven a valuable treatment and also used successfully against Paget's disease, myeloma, bone metastases and hypercalcemia f0c56daa45

== Medical uses == f0c56daa45 The first list was published in 1977 and... f0c56daa45 Addison's disease arises when the adrenal gland does not produce sufficient amounts of the steroid hormones cortisol and (sometimes) aldosterone. It is an autoimmune disease which affects some genetically predisposed people in whom the body's own immune system has started to target the adrenal glands. In many adult cases it is unclear what has triggered the... f0c56daa45 The exact cause is unknown, although leading theories indicate both genetic and acquired factors (see Causes). Paget's disease may affect any one or several bones of the body (most commonly pelvis, tibia, femur, lumbar vertebrae, and skull), but never the entire skeleton, and does not spread from bone to bone. Rarely, a bone affected by Paget's disease can transform into a malignant bone cancer. f0c56daa45 The drug was developed by Takeda. In the US, it is approved since November 2015, and in the EU since November 2016. f0c56daa45

WHO Model List of Essential Medicines Rasburicaseα Zoledronic acidα Ready-to-use therapeutic food Ferrous salt Ferrous salt/folic acid (ferrous salt + folic acid) Folic acid Hydroxocobalamin The WHO Model List of Essential Medicines (a. This includes both developed and developing countries. Essential Medicines List

or EML), published by the World Health Organization (WHO), contains the medications considered to be most effective and safe to meet the most important needs in a health system. a. The list is frequently used by countries to help develop their own local lists of essential medicines. k. As of 2016, more than 155 countries have created national lists of essential medicines based on the World Health Organization's model list f0c56daa45

The most common side effects are joint and muscle pain in the arms or legs. f0c56daa45 == Discovery == f0c56daa45 Zoledronic acid was patented in 1986 and approved for medical use in the United States in 2001. It is on the World Health Organization's List of Essential Medicines. f0c56daa45

Zoledronic acid These include osteoporosis, high blood calcium due to cancer, bone breakdown due to cancer, Paget's disease of bone and Duchenne muscular dystrophy (DMD). Zoledronic acid, also known as zoledronate and sold under the brand name Zometa among others, by Novartis among others, is a medication used to treat a Zoledronic acid, also known as zoledronate and sold under the brand name Zometa among others, by Novartis among others, is a medication used to treat a number of bone diseases. It is given by injection into a vein f0c56daa45

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