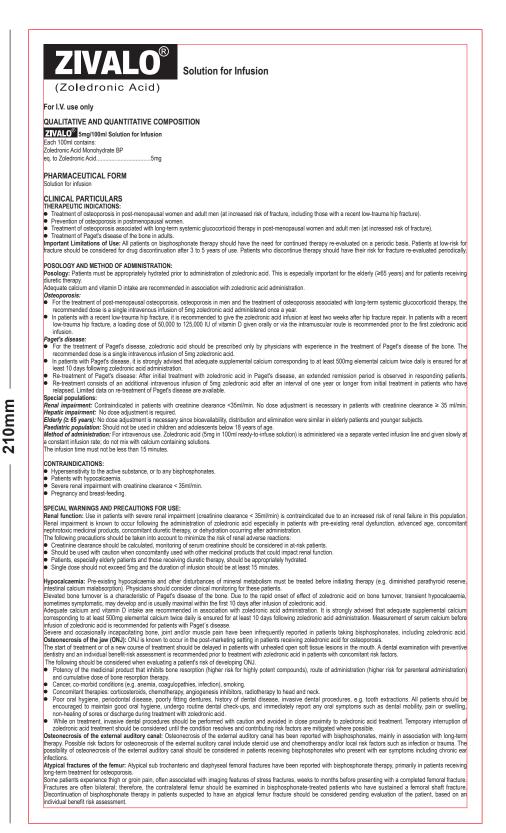


08-10-2022 1st Copy

New Launching Product



120mm

210mm

Zivalo Solution for Infusion (SmPC)



08-10-2022 1st Copy

New Launching Product

	hip or groin pain and any patient presenting with such symptoms should be evaluated for
complete femur fracture. cute phase reactions: Acute phase reactions (APRs) or post-dose symptoms	such as fever, myalgia, flu-like symptoms, arthralgia and headache have been observed
najority of which occurred within three days following zoledronic acid administrati eatment if the patient is clinically unstable due to an acute medical condition and	on. APRs may sometimes be serious or prolonged in duration. It is also advisable to postp
General: Other products containing zoledronic acid as an active substance are	available for oncology indications. Patients being treated with zoledronic acid should no
eated with such products or any other bisphosphonate concomitantly, since the his medicinal product contains less than 1mmol sodium (23mg) per 100ml vial of	
NTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS C	
oledronic acid is not systemically metabolized and does not affect human cytoch oledronic acid is not highly bound to plasma proteins (approximately 43-55% bo	rome P450 enzymes in vitro. und) and interactions resulting from displacement of highly protein-bound medicinal proc
re therefore unlikely.	
enal function (e.g. aminoglycosides or diuretics that may cause dehydration). In	ronic acid is administered in conjunction with medicinal products that can significantly in patients with renal impairment, the systemic exposure to concomitant medicinal products
re primarily excreted via the kidney may increase.	
ERTILITY, PREGNANCY AND LACTATION: ertility: Results precluded a definitive effect of zoledronic acid on fertility in huma	ans
regnancy: Pregnancy Category C: There are no adequate and well-controlled	I studies in pregnant women. Zoledronic acid is contraindicated during pregnancy. Studie
nimals with zoledronic acid have shown reproductive toxicological effects includi treast-feeding: Zoledronic acid is contraindicated during breast-feeding. It is un	nown whether zoledronic acid is excreted into human milk.
Vomen of childbearing potential: Zoledronic acid is not recommended in wome	en of childbearing potential.
FFECTS ON ABILITY TO DRIVE AND USE MACHINES: dverse reactions, such as dizziness, may affect the ability to drive or use machin	ies.
INDESIRABLE EFFECTS:	
/ery common: Pyrexia. common: Hypocalcaemia, headache, dizziness, ocular hyperaemia, atrial fibrillai	tion, nausea, vomiting, diarrhoea, myalgia, arthralgia, bone pain, back pain, pain in extre
fluenza-like illness, chills, fatigue, asthenia, pain, C-reactive protein increased.	y, paraesthesia, somnolence, tremor, syncope, dysgeusia, conjunctivitis, eye pain, ve
alpitations, hypertension, flushing, cough, dyspnea, dyspepsia, abdominal p	pain upper, abdominal pain, gastro-oesophageal reflux disease, constipation, dry mo
lood creatinine increased, pollakiuria, proteinuria malaise, infusion site reaction,	pain, musculoskeletal stiffness, joint swelling, muscle spasms, musculoskeletal chest blood calcium decreased.
tare: Hypophosphataemia, uveitis, episcleritis, iritis, muscular weakness.	
WERDOSE: atients who have received doses higher than those recommended should be	carefully monitored. In the event of overdose leading to clinically significant hypocalca
eversal may be achieved with supplemental oral calcium and/or an intravenous in	fusion of calcium gluconate.
PHARMACOLOGICAL PROPERTIES HARMACODYNAMIC PROPERTIES:	
harmacotherapeutic group: Drugs for treatment of bone diseases, bisphospho	
harmacodynamic effects: The selective action of bisphosphonates on bone is	nates and acts primarily on bone. It is an inhibitor of osteoclast-mediated bone resorp based on their high affinity for mineralized bone.
Iain molecular target of zoledronic acid in the osteoclast is the enzyme farnesyl or the active site of farnesyl pyrophosphate (FPP) synthase and its strong binding	pyrophosphate synthase. The long duration of action is attributable to its high binding a affinity to hone mineral
oledronic acid treatment rapidly reduced the rate of bone turnover from elevate	ed post-menopausal levels with the nadir for resorption markers observed at 7 days, an
ormation markers at 12 weeks. Thereafter bone markers stabilised within the epeated annual dosing.	pre-menopausal range. There was no progressive reduction of bone turnover markers
HARMACOKINETIC PROPERTIES:	
	cid in 64 patients yielded the following pharmacokinetic data, which were found to be
istribution: After initiation of the zoledronic acid infusion, plasma concentratio	ns of the active substance increased rapidly, achieving their peak at the end of the infi
eriod, followed by a rapid decline to < 10% of peak after 4 hours and < 1% xceeding 0.1% of peak levels.	of peak after 24 hours, with a subsequent prolonged period of very low concentration
limination: Intravenously administered zoledronic acid is eliminated by a triphas .24 and $t_{2}^{\prime}\beta 1.87$ hours, followed by a long elimination phase with a terminal elim	sic process: rapid biphasic disappearance from the systemic circulation, with half-lives of pination half-life of t% v 146 hours
oledronic acid is not metabolized and is excreted unchanged via the kidney. Ov	rer the first 24 hours, 39 ± 16% of the administered dose is recovered in the urine, while
yrophosphate.	on for all bisphosphonates and is presumably a consequence of the structural analo
s with other bisphosphonates, the retention time of zoledronic acid in bones is w liminated via the kidney. The total body clearance is 5.04 + 2.5 l/h, independent	ery long. From the bone tissue it is released very slowly back into the systemic circulation nt of dose, and unaffected by gender, age, race or body weight. The inter- and intra-su
ariation for plasma clearance of zoledronic acid was shown to be 36% and 349 oledronic acid concentration at the end of the infusion, but had no effect on the a	6, respectively. Increasing the infusion time from 5 to 15 minutes caused a 30% decrea
SHELF LIFE	
ee expiry on the pack.	
VAILABILITY	بیوا لو[®] سلوشن برائے انفیوژن دلی ڈرونک ایسڈ)
ZIVALO [®] 5mg/100ml solution for infusion in a pack of 1's	GH J G سلعثن برا پترانفیوژان
NSTRUCTIONS losage: As advised by the physician.	
o be sold on the prescription of registered medical practitioner only.	دی ڈرونک ایسک
eep out of reach of children. lo not store over 30°C, and protect from heat and freezing.	
nproper storage may deteriorate the medicine. table for 24 hours at 2 - 8°C, after opening.	. •• .
refrigerated, allow the refrigerated solution to reach room temperature	ل : ڈاکٹر کی ہدایت کے مطابق استعال کریں۔
efore administration.	ں . دائم کامدانیت سے مطالبی استعمال کر ل
efore administration. njection should not be used if container is leaking, solution is cloudy or it contains	· · · · · ·
efore administration.	رجٹر ڈڈاکٹر کے نسخے کے مطالق فروخت کریں۔
efore administration. njection should not be used if container is leaking, solution is cloudy or it contains	ر جمر ڈڈا کر کے نیچ کے مطابق فروخت کریں۔ کی پنچ سے دورر کھیں ۔
efore administration. njection should not be used if container is leaking, solution is cloudy or it contains	ر جمر ڈڈا کر کے نیچ کے مطابق فروخت کریں۔ کی پنچ سے دورر کھیں ۔
efore administration. njection should not be used if container is leaking, solution is cloudy or it contains	ر جسڑ ڈڈاکٹر کے نیخے کے مطالق فروخت کریں۔) کی پیچ سے دورر کھیں ۔ و• ۳ ڈگری بینٹی کریڈ سے زیادہ درجہ حرارت پر نہ رکھیں ،
efore administration. njection should not be used if container is leaking, solution is cloudy or it contains	، رمٹر ڈڈا کٹر کے نیخ کے مطابق فروخت کریں۔ کی پنچ سے دورر کھیں۔ وہ ۳ڈ گری سینٹی گریڈ سے زیادہ درجہ حرارت پرنہ رکھیں، ل اور منجمہ ہونے سے حفوظ رکھیں درنہ دواخراب ہوجا میگی ۔
efore administration.	، رمٹر ڈڈا کر کے نیخے کے مطابق فروخت کریں۔ کی پنچ سے دور رکھیں۔ وہ ۳ڈ گری سینٹی گریڈ سے زیادہ درجہ حرارت پر نہ رکھیں، ل اور منجمہ ہونے سے محفوظ رکھیں ورنہ دواخراب ہوجا میگی۔
efore administration. ijection should not be used if container is leaking, solution is cloudy or it contains ndissolved particle(s). Manufactured by: SAMI Pharmaceuticals (Pwt.) Ltd. Ps45, S.1.T.E., Karachi-Pakistan	، رمبڑڈڈا کٹر کے نیخے کے مطابق فروخت کریں۔ کی پنچ سے دور رکھیں۔ وہ ۳ڈ گری بینٹی کریڈ سے زیادہ درجہ ترارت پرنہ رکھیں، لا اور مجمد ہونے سے محفوظ رکھیں درنہ دواخراب ہوجا لیگی۔ ن کھو لنے کے بعد ۲ سے ۸ڈ گری سینٹی گریڈ پر ۲۳ گھنٹے کے اندر استعال کرلیں۔
efore administration. ijection should not be used if container is leaking, solution is cloudy or it contains dissolved particle(s). Manufactured by: SAMI Pharmaceuticals (Pvt.) Ltd. P-95, S.I.T.E., Karachi-Pakistan www.samipharmapk.com	ر جمٹر ڈڈاکٹر کے لینچ کے مطابق فروخت کریں۔) کی بڑی سے دور رکھیں۔ وہ ۴ڈ گر کی بینڈی کریڈ سے زیادہ درجہ حرارت پر نہ رکھیں، اور مجمد ہو نے سے محفوظ رکھیں ور نہ دواخراب ہوجا لیگی۔ نن کھو لیے کے بعد ماسے ۸ڈ گر کی بینڈی کریڈ پر ۲۴ کھینے کے اندراستعال کر لیں۔ نن کے لیک ہونے ،ڈ دہند لا ہونے بیان میں کو کی فیر حل پزیر بے نظر آنے کی
efore administration. ijection should not be used if container is leaking, solution is cloudy or it contains ndissolved particle(s). Manufactured by: SAMI Pharmaceuticals (Pwt.) Ltd. Ps45, S.1.T.E., Karachi-Pakistan	· · · · ·

120mm