

For the use of a Registered Medical Practitioner or a Hospital or a Laboratory only

EMVOID IV

1. Generic Name

Fosaprepitant Dimeglumine for Injection 150mg/vial

2. Qualitative and quantitative composition

Each vial contains:

Fosaprepitant Dimeglumine 245.3mg

equivalent to Fosaprepitant.....150 mg

The excipients used are Ethylenedinitrotetraacetic acid disodium salt dihydrate, Lactose anhydrous, Polysorbate 80, Sodium Hydroxide Pellets and Water for Injection.

3. Dosage form and strength

Dosage form: Injection

Strength: 150mg/vial

4. Clinical particulars

4.1 Therapeutic indication

Prevention of acute and delayed nausea and vomiting associated with highly emetogenic cisplatin based cancer chemotherapy in adults.

Prevention of nausea and vomiting associated with moderately emetogenic cancer chemotherapy in adults.

4.2 Posology and method of administration

Posology

Adults

The recommended dose is 150 mg administered as an infusion **over 20-30 minutes** on Day 1, initiated approximately 30 minutes prior to chemotherapy. EMVOID IV should be administered in conjunction with a corticosteroid and a 5-HT₃ antagonist as specified in the tables below.

The following regimens are recommended for the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy.

Table 1: Recommended dosing for the prevention of nausea and vomiting associated with highly emetogenic chemotherapy regimen in adults

	Day 1	Day 2	Day 3	Day 4
EMVOID IV	150 mg intravenously	none	none	none
Dexamethasone	12 mg orally	8 mg orally	8 mg orally twice daily	8 mg orally twice daily
5-HT ₃ antagonists	Standard dose of 5-HT ₃ antagonists.	none	none	none

Dexamethasone should be administered 30 minutes prior to chemotherapy treatment on Day 1 and in the morning on Days 2 to 4. Dexamethasone should also be administered in the evenings on Days 3 and 4. The dose of dexamethasone accounts for active substance interactions.

Table 2: Recommended dosing for the prevention of nausea and vomiting associated with moderately emetogenic chemotherapy regimen in adults

	Day 1
EMVOID IV	150 mg intravenously
Dexamethasone	12 mg orally
5-HT ₃ antagonists	Standard dose of 5-HT ₃ antagonists. See the product information for the selected 5-HT ₃ antagonist for appropriate dosing information

Dexamethasone should be administered 30 minutes prior to chemotherapy treatment on Day 1. The dose of dexamethasone accounts for active substance interactions.

General

Efficacy data in combination with other corticosteroids and 5-HT₃ antagonists are limited. For additional information on the co-administration with corticosteroids, see section 4.5.

Special populations

Elderly (≥65 years)

No dose adjustment is necessary for the elderly (see section 5.2).

Gender

No dose adjustment is necessary based on gender (see section 5.2).

Renal impairment

No dose adjustment is necessary for patients with renal impairment or for patients with end stage renal disease undergoing haemodialysis (see section 5.2).

Hepatic impairment

No dose adjustment is necessary for patients with mild hepatic impairment. There are limited data in patients with moderate hepatic impairment and no data in patients with severe hepatic impairment. EMVOID IV should be used with caution in these patients (see sections 4.4 and 5.2).

Method of administration

EMVOID IV should be administered intravenously and should not be given by the intramuscular or subcutaneous route. Intravenous administration in adults occurs preferably through a running intravenous infusion over 20-30 minutes. Intravenous administration in paediatric patients aged 6 months and older is recommended through a central venous catheter and should be administered over 30 minutes in patients aged 12 years and older or over 60 minutes in patients less than 12 years of age. Do not administer EMVOID IV as a bolus injection or undiluted solution.

Reconstitution

Reconstitute with 5ml of 0.9% sodium chloride for injection I.P. (Normal Saline) and dilute up to 150ml of same. The reconstituted final drug solution is stable for 24 hours at ambient room temperature (at or below 25°C).

4.3 Contraindications

- Hypersensitivity to the active substance or to polysorbate 80 or any of the other excipients.

- Co-administration with pimozide, terfenadine, astemizole or cisapride.

4.4 Special warnings and precautions for use

Warnings – To be sold by retail on the prescription of Oncologist only.

Patients with moderate to severe hepatic impairment

There are limited data in patients with moderate hepatic impairment and no data in patients with severe hepatic impairment. EMVOID IV should be used with caution in these patients.

CYP3A4 interactions

EMVOID IV should be used with caution in patients receiving concomitant active substances that are metabolised primarily through CYP3A4 and with a narrow therapeutic range, such as cyclosporine, tacrolimus, sirolimus, everolimus, alfentanil, ergot alkaloid derivatives, fentanyl, and quinidine. Additionally, concomitant administration with irinotecan should be approached with particular caution as the combination might result in increased toxicity.

Co-administration with warfarin (a CYP2C9 substrate)

In patients on chronic warfarin therapy, the International Normalised Ratio (INR) should be monitored closely for 14 days following the use of fosaprepitant.

Co-administration with hormonal contraceptives

The efficacy of hormonal contraceptives may be reduced during and for 28 days after administration of fosaprepitant.

Alternative non-hormonal back-up methods of contraception should be used during treatment with fosaprepitant and for 2 months following the use of fosaprepitant.

Hypersensitivity reactions

Immediate hypersensitivity reactions including flushing, erythema, dyspnoea, and anaphylaxis/anaphylactic shock have occurred during or soon after infusion of fosaprepitant. These hypersensitivity reactions have generally responded to discontinuation of the infusion and administration of appropriate therapy. It is not recommended to reinitiate the infusion in patients who experience hypersensitivity reactions.

Administration and infusion site reactions

Infusion site reactions (ISRs) have been reported with the use of EMVOID IV. The majority of severe ISRs, including thrombophlebitis and vasculitis, were reported with concomitant vesicant (e.g., anthracycline-based) chemotherapy administration, particularly when associated with extravasation. Necrosis was also reported in some patients with concomitant vesicant chemotherapy. Mild injection site thrombosis has been observed at higher doses without concomitant vesicant chemotherapy.

EMVOID IV should not be given as a bolus injection, but should always be diluted and given as a slow intravenous infusion. EMVOID IV should not be administered intramuscularly or subcutaneously. If signs or symptoms of local irritation occur, the injection or infusion should be terminated and restarted in another vein.

4.5 Drugs interactions

When administered intravenously fosaprepitant is rapidly converted to aprepitant.

Fosaprepitant 150 mg, given as a single dose, is a weak inhibitor of CYP3A4. Fosaprepitant does not seem to interact with the P-glycoprotein transporter, as demonstrated by the lack of interaction of oral aprepitant with digoxin. It is anticipated that fosaprepitant would cause less or no greater induction of

CYP2C9, CYP3A4 and glucuronidation than that caused by the administration of oral aprepitant. Data are lacking regarding effects on CYP2C8 and CYP2C19.

Interactions with other medicinal products following administration of intravenous fosaprepitant are likely to occur with active substances that interact with oral aprepitant. The potential for interactions with multi-day fosaprepitant regimens are anticipated to be no greater than those for oral aprepitant regimens. Therefore, the recommendations for use of EMVOID IV with other medicinal products in paediatric patients are based upon adult data from fosaprepitant and aprepitant studies.

The following information was derived from reported studies conducted with oral aprepitant and studies conducted with intravenous single-dose fosaprepitant co-administered with dexamethasone, midazolam, or diltiazem.

Effect of fosaprepitant on the pharmacokinetics of other active substances

CYP3A4 inhibition

As a weak inhibitor of CYP3A4, the fosaprepitant 150 mg single dose can cause a transient increase in plasma concentrations of co-administered active substances that are metabolised through CYP3A4. The total exposure of CYP3A4 substrates may increase up to 2-fold on Days 1 and 2 after co-administration with a single 150 mg fosaprepitant dose. Fosaprepitant must not be used concurrently with pimozide, terfenadine, astemizole, or cisapride. Inhibition of CYP3A4 by fosaprepitant could result in elevated plasma concentrations of these active substances, potentially causing serious or life-threatening reactions. Caution is advised during concomitant administration of fosaprepitant and active substances that are metabolised primarily through CYP3A4 and with a narrow therapeutic range, such as cyclosporine, tacrolimus, sirolimus, everolimus, alfentanil, diergotamine, ergotamine, fentanyl, and quinidine.

Corticosteroids

Dexamethasone: The oral dexamethasone dose should be reduced by approximately 50 % when co-administered with fosaprepitant. Fosaprepitant 150 mg administered as a single intravenous dose on Day 1 increased the AUC_{0-24hr} of dexamethasone, a CYP3A4 substrate, by 100 % on Day 1, 86 % on Day 2 and 18 % on Day 3 when dexamethasone was co-administered as a single 8 mg oral dose on Days 1, 2, and 3.

Chemotherapeutic medicinal products

Interaction studies with fosaprepitant 150 mg and chemotherapeutic medicinal products have not been conducted; however, based on studies with oral aprepitant and docetaxel and vinorelbine, EMVOID IV 150 mg is not expected to have a clinically relevant interaction with intravenously administered docetaxel and vinorelbine. An interaction with orally administered chemotherapeutic medicinal products metabolised primarily or partly by CYP3A4 (e.g. etoposide, vinorelbine) cannot be excluded. Caution is advised and additional monitoring may be appropriate in patients receiving medicinal products metabolized primarily or partly by CYP3A4. Post-marketing events of neurotoxicity, a potential adverse reaction of ifosfamide, have been reported after aprepitant and ifosfamide co-administration.

Immunosuppressants

Following a single 150 mg fosaprepitant dose, a transient moderate increase for two days possibly followed by a mild decrease in exposure of immunosuppressants metabolised by CYP3A4 (e.g. cyclosporine, tacrolimus, everolimus and sirolimus) is expected. Given the short duration of increased exposure, dose reduction of the immunosuppressant based on Therapeutic Dose Monitoring is not recommended on the day of and the day after administration of EMVOID IV.

Midazolam

Fosaprepitant 150 mg administered as a single intravenous dose on Day 1 increased the $AUC_{0-\infty}$ of midazolam by 77 % on Day 1 and had no effect on Day 4 when midazolam was co-administered as a single oral dose of 2 mg on Days 1 and 4. Fosaprepitant 150 mg is a weak CYP3A4 inhibitor as a single dose on Day 1 with no evidence of inhibition or induction of CYP3A4 observed on Day 4.

The potential effects of increased plasma concentrations of midazolam or other benzodiazepines metabolised via CYP3A4 (alprazolam, triazolam) should be considered when co-administering these medicinal products with EMVOID IV.

Diltiazem

Reported interaction studies with fosaprepitant 150 mg and diltiazem have not been conducted; however, the following study with 100 mg of fosaprepitant should be considered when using EMVOID IV 150 mg with diltiazem. In patients with mild to moderate hypertension, infusion of 100 mg of fosaprepitant over 15 minutes with diltiazem 120 mg 3 times daily, resulted in a 1.4-fold increase in diltiazem AUC and a small but clinically meaningful decrease in blood pressure, but did not result in a clinically meaningful change in heart rate, or PR interval.

Induction

The fosaprepitant 150 mg single dose did not induce CYP3A4 on Days 1 and 4 in the reported midazolam interaction study. It is anticipated that EMVOID IV would cause less or no greater induction of CYP2C9, CYP3A4, and glucuronidation than that caused by the administration of the 3-day oral aprepitant regimen, for which a transient induction with its maximum effect 6-8 days after first aprepitant dose has been observed. The 3-day oral aprepitant regimen resulted in an about 30-35 % reduction in AUC of CYP2C9 substrates and up to a 64 % decrease in ethinyl estradiol trough concentrations. Data are lacking regarding effects on CYP2C8 and CYP2C19. Caution is advised when warfarin, acenocoumarol, tolbutamide, phenytoin or other active substances that are known to be metabolised by CYP2C9 are administered with EMVOID IV.

Warfarin

In patients on chronic warfarin therapy, the prothrombin time (INR) should be monitored closely during treatment with and for 14 days following the use of EMVOID IV for the prevention of chemotherapy induced nausea and vomiting.

Hormonal contraceptives

The efficacy of hormonal contraceptives may be reduced during and for 28 days after administration of fosaprepitant. Alternative non-hormonal back-up methods of contraception should be used during treatment with fosaprepitant and for 2 months following the use of fosaprepitant.

5-HT₃ antagonists

Interaction studies with fosaprepitant 150 mg and 5-HT₃ antagonists have not been conducted; however, in reported clinical interaction studies, the oral aprepitant regimen did not have clinically important effects on the pharmacokinetics of ondansetron, granisetron, or hydrodolasetron (the active metabolite of dolasetron). Therefore, there is no evidence of interaction with the use of EMVOID IV 150 mg and 5-HT₃ antagonists.

Effect of other medicinal products on the pharmacokinetics of aprepitant resulting from administration of fosaprepitant 150 mg

Concomitant administration of fosaprepitant with active substances that inhibit CYP3A4 activity (e.g., ketoconazole, itraconazole, voriconazole, posaconazole, clarithromycin, telithromycin, nefazodone, and protease inhibitors) should be approached cautiously, as the combination is expected to result in

several-fold increased plasma concentrations of aprepitant. Ketoconazole increased the terminal half-life of oral aprepitant about 3-fold.

Concomitant administration of fosaprepitant with active substances that strongly induce CYP3A4 activity (e.g. rifampicin, phenytoin, carbamazepine, phenobarbital) should be avoided as the combination could result in reductions of the plasma concentrations of aprepitant that may result in decreased efficacy. Concomitant administration of fosaprepitant with herbal preparations containing St. John's Wort (*Hypericum perforatum*) is not recommended. Rifampicin decreased the mean terminal half-life of oral aprepitant by 68 %.

Diltiazem

Reported interaction studies with fosaprepitant 150 mg and diltiazem have not been conducted; however, the following study with 100 mg of fosaprepitant should be considered when using EMVOID IV 150 mg with diltiazem. Infusion of 100 mg fosaprepitant over 15 minutes with diltiazem 120 mg 3 times daily, resulted in a 1.5-fold increase of aprepitant AUC. This effect was not considered clinically important.

Paediatric population

As per reported data, interaction studies have only been performed in adults.

Do not use the reconstituted solution if it contains any visible particulate matter.

4.6 Use in special population (such as pregnant women, lactating women, paediatric patients, geriatric patients etc.)

Contraception in males and females

The efficacy of hormonal contraceptives may be reduced during and for 28 days after administration of fosaprepitant. Alternative non-hormonal back-up methods of contraception should be used during treatment with fosaprepitant and for 2 months following the last dose of fosaprepitant.

Pregnancy

For fosaprepitant and aprepitant no clinical data on exposed pregnancies are available. The potential for reproductive toxicities of fosaprepitant and aprepitant have not been fully characterised, since exposure levels above the therapeutic exposure in humans could not be attained in animal studies. These studies did not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/foetal development, parturition or postnatal development.

The potential effects on reproduction of alterations in neurokinin regulation are unknown. EMVOID IV should not be used during pregnancy unless clearly necessary.

Breast-feeding

Aprepitant is excreted in the milk of lactating rats after intravenous administration of fosaprepitant as well as after oral administration of aprepitant. It is not known whether aprepitant is excreted in human milk. Therefore, breast-feeding is not recommended during treatment with EMVOID IV.

Fertility

The potential for effects of fosaprepitant and aprepitant on fertility has not been fully characterised because exposure levels above the therapeutic exposure in humans could not be attained in animal studies. These fertility studies did not indicate direct or indirect harmful effects with respect to mating performance, fertility, embryonal/foetal development, or sperm count and motility.

4.7 Effects on ability to drive and use machines

EMVOID IV may have minor influence on the ability to drive and use machines. Dizziness and fatigue may occur following administration of EMVOID IV.

4.8 Undesirable effects

Summary of the safety profile

In reported clinical studies, various formulations of fosaprepitant have been administered to a total of 2,687 adults including 371 healthy subjects and 2,084 patients, and 199 children and adolescents with chemotherapy induced nausea and vomiting (CINV). Since fosaprepitant is converted to aprepitant, those adverse reactions associated with aprepitant are expected to occur with fosaprepitant. The safety profile of aprepitant was evaluated in approximately 6,500 adults and 184 children and adolescents.

Oral aprepitant

The most common adverse reactions reported at a greater incidence in adults treated with the aprepitant regimen than with standard therapy in patients receiving HEC were: hiccups (4.6 % versus 2.9 %), alanine aminotransferase (ALT) increased (2.8 % versus 1.1 %), dyspepsia (2.6 % versus 2.0 %), constipation (2.4 % versus 2.0 %), headache (2.0 % versus 1.8 %), and decreased appetite (2.0 % versus 0.5 %). The most common adverse reaction reported at a greater incidence in patients treated with the aprepitant regimen than with standard therapy in patients receiving MEC was fatigue (1.4 % versus 0.9 %).

The most common adverse reactions reported at a greater incidence in paediatric patients treated with the aprepitant regimen than with the control regimen while receiving emetogenic cancer chemotherapy were hiccups (3.3 % versus 0.0 %) and flushing (1.1 % versus 0.0 %).

Tabulated list of adverse reactions - aprepitant

The following adverse reactions were observed in a reported pooled analysis of the HEC and MEC studies at a greater incidence with oral aprepitant than with standard therapy in adults or paediatric patients or in postmarketing use.

The frequency categories given in the table are based on the studies in adults; the observed frequencies in the paediatric studies were similar or lower, unless shown in the table. Some less common ADRs in the adult population were not observed in the paediatric studies.

Frequencies are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$) and very rare ($< 1/10,000$), not known (cannot be estimated from the available data).

Table 3: Tabulated list of adverse reactions – aprepitant

System organ class	Adverse reaction	Frequency
Infection and infestations	candidiasis, staphylococcal infection	Rare
Blood and lymphatic system disorders	febrile neutropenia, anaemia	Uncommon
Immune system disorders	hypersensitivity reactions including anaphylactic reactions	not known
Metabolism and nutrition disorders	decreased appetite	Common
	Polydipsia	Rare
Psychiatric disorders	Anxiety	Uncommon
	disorientation, euphoric mood	Rare

Nervous system disorders	Headache	Common
	dizziness, somnolence	Uncommon
	cognitive disorder, lethargy, dysgeusia	Rare
Eye disorders	Conjunctivitis	Rare
Ear and labyrinth disorders	Tinnitus	Rare
Cardiac disorders	Palpitations	Uncommon
	bradycardia, cardiovascular disorder	Rare
Vascular disorders	hot flush/flushing	Uncommon
Respiratory, thoracic and mediastinal disorders	Hiccups	Common
	oropharyngeal pain, sneezing, cough, postnasal drip, throat irritation	Rare
Gastrointestinal disorders	constipation, dyspepsia	Common
	eructation, nausea*, vomiting*, gastroesophageal reflux disease, abdominal pain, dry mouth, flatulence	Uncommon
	duodenal ulcer perforation, stomatitis, abdominal distension, faeces hard, neutropenic colitis	Rare
Skin and subcutaneous tissue Disorders	rash, acne	Uncommon
	photosensitivity reaction, hyperhidrosis, seborrhoea, skin lesion, rash pruritic, Stevens-Johnson syndrome/toxic epidermal necrolysis	Rare
	pruritus, urticarial	not known
Musculoskeletal and connective tissue disorders	muscular weakness, muscle spasms	Rare
Renal and urinary disorders	Dysuria	Uncommon
	Pollakisuria	Rare
General disorders and administration site conditions	Fatigue	Common
	asthaenia, malaise	Uncommon
	oedema, chest discomfort, gait disturbance	Rare
Investigations	ALT increased	Common
	AST increased, blood alkaline phosphatase increased	Uncommon

	red blood cells urine positive, blood sodium decreased, weight decreased, neutrophil count decreased, glucose urine present, urine output increased	Rare
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Nausea and vomiting were efficacy parameters in the first 5-days of post chemotherapy treatment and were reported as adverse reactions only thereafter.

Description of selected adverse reactions

The adverse reactions profiles in the Multiple-Cycle extension of HEC and MEC studies in adults for up to 6 additional cycles of chemotherapy were generally similar to those observed in Cycle 1.

In an additional reported active-controlled clinical study in 1,169 adult patients receiving aprepitant and HEC, the adverse reactions profile was generally similar to that seen in the other HEC studies with aprepitant.

Additional adverse reactions were observed in adult patients treated with aprepitant for postoperative nausea and vomiting (PONV) and a greater incidence than with ondansetron: abdominal pain upper, bowel sounds abnormal, constipation*, dysarthria, dyspnoea, hypoaesthesia, insomnia, miosis, nausea, sensory disturbance, stomach discomfort, sub-ileus*, visual acuity reduced, wheezing.

*Reported in patients taking a higher dose of aprepitant.

Fosaprepitant

In a reported active-controlled clinical study in adult patients receiving HEC, safety was evaluated for 1,143 patients receiving the 1-day regimen of EMVOID IV 150 mg compared to 1,169 patients receiving the 3-day regimen of aprepitant. Additionally, in a reported placebo-controlled clinical trial in adult patients receiving MEC, safety was evaluated for 504 patients receiving a single dose of EMVOID IV 150 mg compared to 497 patients receiving the control regimen.

In a reported pooled analysis of 3 active-controlled clinical studies in paediatric patients (aged 6 months to 17 years) receiving either HEC or MEC and a single dose of EMVOID IV at or above the recommended 1-day regimen dose, safety was evaluated for 139 patients receiving the 1-day regimen of EMVOID IV. In the same analysis, safety was evaluated for 199 patients receiving either HEC or MEC and a single dose of EMVOID IV at or above the recommended 3-day regimen of EMVOID IV. Safety data following the administration of the 3-day IV/oral/oral regimen were also included.

No data are available following the administration of a 3-day IV fosaprepitant regimen in paediatric patients. The safety profile of the 3-day IV fosaprepitant regimen in paediatric patients is expected to be similar to that of the 1-day fosaprepitant regimen as the low daily through levels do not significantly increase the exposures on subsequent days.

The safety profile of fosaprepitant in adult and paediatric patients was generally similar to that observed with aprepitant.

Tabulated list of adverse reactions – fosaprepitant

The following are adverse reactions reported in adult patients receiving fosaprepitant in reported clinical studies or post-marketing that have not been reported with aprepitant as described above. The frequency categories in the table are based on studies in adults; the observed frequencies in the paediatric studies were similar or lower. Some adverse reactions that are commonly observed in the adult population were not observed in the paediatric studies. Infusion site reactions (ISRs) have been reported with the use of EMVOID IV.

Frequencies are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$) and very rare ($< 1/10,000$), not known (cannot be estimated)

from the available data).

Table 4: Tabulated list of adverse reactions – fosaprepitant

System organ class	Adverse reaction	Frequency
Vascular disorders	flushing, thrombophlebitis (predominantly, infusion-site thrombophlebitis)	Uncommon
Skin and subcutaneous tissue Disorders	Erythema	Uncommon
General disorders and administration site conditions	infusion site erythema, infusion site pain, infusion site pruritus	Uncommon
	infusion site induration	rare
	immediate hypersensitivity reactions including flushing, erythema, dyspnoea, anaphylactic reactions/anaphylactic shock	not known
Investigations	blood pressure increased	uncommon

- **Reporting of side effects**

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via any point of contact of Torrent Pharma available at: http://www.torrentpharma.com/Index.php/site/info/adverse_event_reporting.

4.9 Overdose

In the event of overdose, fosaprepitant should be discontinued and general supportive treatment and monitoring should be provided. Because of the antiemetic activity of aprepitant, emesis induced by a medicinal product may not be effective.

Aprepitant cannot be removed by haemodialysis.

5. Pharmacological properties

5.1 Mechanism of Action

Fosaprepitant is the prodrug of aprepitant and when administered intravenously is converted rapidly to aprepitant. The contribution of fosaprepitant to the overall antiemetic effect has not fully been characterised, but a transient contribution during the initial phase cannot be ruled out. Aprepitant is a selective high-affinity antagonist at human substance P neurokinin 1 (NK₁) receptors. The pharmacological effect of fosaprepitant is attributed to aprepitant.

5.2 Pharmacodynamic properties

Pharmacotherapeutic group: Antiemetics and antinauseants, ATC code: A04AD12.

1-Day Regimen of Fosaprepitant in Adults

Highly Emetogenic Chemotherapy (HEC)

In a reported randomized, parallel, double-blind, active-controlled study, Fosaprepitant 150 mg (N=1,147) was compared with a 3-day aprepitant regimen (N=1,175) in adult patients receiving a HEC regimen that included cisplatin (≥ 70 mg/m²). The fosaprepitant regimen consisted of fosaprepitant 150 mg on Day 1 in combination with ondansetron 32 mg IV on Day 1 and dexamethasone 12 mg on Day 1, 8 mg on Day 2, and 8 mg twice daily on Days 3 and 4. The aprepitant regimen consisted of aprepitant 125 mg on Day 1 and 80 mg/day on Days 2 and 3 in combination with ondansetron 32 mg IV on placebo, and dexamethasone placebo (in the evenings on Days 3 and 4) were used to maintain blinding.

Although a 32 mg intravenous dose of ondansetron was used in clinical trials, this is no longer the recommended dose. See the product information for the selected 5-HT₃ antagonist for appropriate dosing information.

Efficacy was based on evaluation of the following composite measures: complete response in both the overall and delayed phases and no vomiting in the overall phase. Fosaprepitant 150 mg was shown to be non-inferior to that of the 3-day regimen of aprepitant. A summary of the primary and secondary endpoints is shown in Table 5.

Table 5:

Table 5: Percent of adult patients receiving Highly Emetogenic Chemotherapy responding by treatment group and phase — Cycle 1			
ENDPOINTS	Fosaprepitant regimen (N =1,106) ** %	Aprepitant regimen (N =1,134) ** %	Difference[†] (95 % CI)
Complete response[‡]			
Overall§	71.9	72.3	-0.4 (-4.1, 3.3)
Delayed phase§§	74.3	74.2	0.1 (-3.5, 3.7)
No vomiting			
Overall§	72.9	74.6	-1.7 (-5.3, 2.0)

*Primary endpoint is bolded.

**N: Number of adult patients included in the primary analysis of complete response.

†Difference and confidence interval (CI) were calculated using the method proposed by Miettinen and Nurminen and adjusted for gender.

‡Complete response = no vomiting and no use of rescue therapy.

§Overall = 0 to 120 hours post-initiation of cisplatin chemotherapy.

§§Delayed phase = 25 to 120 hours post-initiation of cisplatin chemotherapy.

Moderately Emetogenic Chemotherapy (MEC)

In a reported randomized, parallel, double-blind, placebo-controlled study, Fosaprepitant 150 mg (N=502) in combination with ondansetron and dexamethasone was compared with ondansetron and dexamethasone alone (control regimen) (N=498) in adult patients receiving a moderately emetogenic chemotherapy regimen. The fosaprepitant regimen consisted of fosaprepitant 150 mg on Day 1 in combination with oral ondansetron 8 mg for 2 doses and oral dexamethasone 12 mg.

On Days 2 and 3, patients in the fosaprepitant group received placebo for ondansetron every 12 hours. The control regimen consisted of fosaprepitant placebo 150 mg IV on Day 1 in combination with oral ondansetron 8 mg for 2 doses and oral dexamethasone 20 mg. On Days 2 and 3, patients in the control group received 8 mg oral ondansetron every 12 hours. Fosaprepitant placebo and dexamethasone placebo (on Day 1) were used to maintain blinding.

The efficacy of fosaprepitant was evaluated based on the primary and secondary endpoints listed in Table 6 and was shown to be superior to the control regimen with regard to complete response in the delayed and overall phases.

Table 6:

Table 6: Percent of adult patients receiving Moderately Emetogenic Chemotherapy responding by treatment group and phase			
ENDPOINTS	Fosaprepitant regimen (N =502) ** %	Control regimen (N =498) ** %	P-Value
Complete response†			
Delayed phase‡	78.9	68.5	<0.001
Complete response†			
Overall§	77.1	66.9	<0.001
Acute phase§§	93.2	91	0.184

*Primary endpoint is bolded.

**N: Number of adult patients included in the intention to treat population.

† Complete response = no vomiting and no use of rescue therapy.

‡ Delayed phase = 25 to 120 hours post-initiation of chemotherapy.

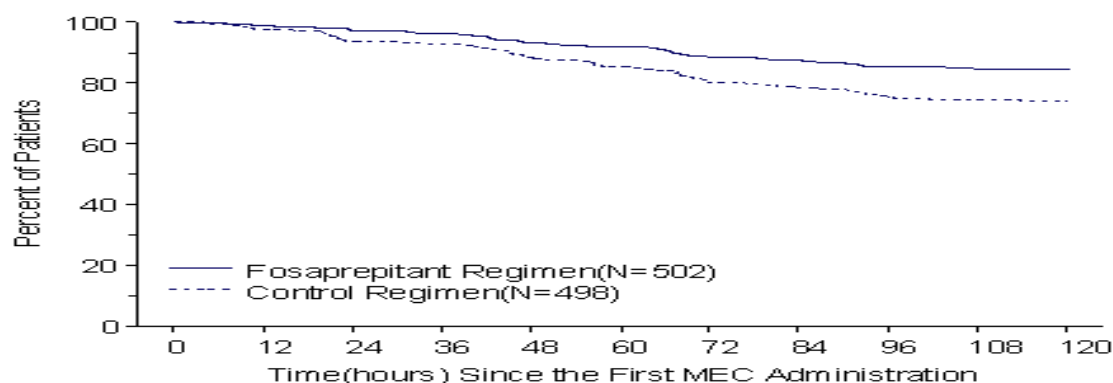
§Overall = 0 to 120 hours post-initiation of chemotherapy.

§§Acute= 0 to 24 hours post-initiation of chemotherapy.

The estimated time to first emesis is depicted by the Kaplan-Meier plot in Figure 1.

Figure 1:

Percent of adult patients receiving Moderately Emetogenic Chemotherapy who remain emesis free over time



Paediatric population

In 3 reported active-controlled, open-label clinical studies, paediatric patients aged 6 months to 17 years received either highly or moderately emetogenic chemotherapy and a single dose of fosaprepitant at or above the recommended 1-day regimen dose (139 patients) or 3-day regimen (199 patients), in combination with ondansetron with or without dexamethasone.

Paediatric Patients Receiving 1-Day Fosaprepitant Regimen

The efficacy of the 1-day fosaprepitant regimen in paediatric patients was extrapolated from that demonstrated in adults receiving the 1-day fosaprepitant regimen as described in the 1-Day Regimen of Fosaprepitant in Adults subsection.

The efficacy of a 1-day fosaprepitant regimen in paediatric patients is expected to be similar to that of the 1-day adult fosaprepitant regimen.

Paediatric Patients Receiving 3-Day Fosaprepitant Regimen

The efficacy of the 3-day fosaprepitant regimen in paediatric patients was based on that demonstrated in paediatric patients receiving the 3-day oral aprepitant regimen.

The efficacy of a 3-day fosaprepitant regimen in paediatric patients is expected to be similar to that of the 3-day oral aprepitant regimen.

5.3 Pharmacokinetic properties

Fosaprepitant, a prodrug of aprepitant, when administered intravenously is rapidly converted to aprepitant. Plasma concentrations of fosaprepitant are below quantifiable levels within 30 minutes of the completion of infusion.

Aprepitant after fosaprepitant administration

Following a single intravenous 150-mg dose of fosaprepitant administered as a 20-minute infusion to healthy adult volunteers, the mean $AUC_{0-\infty}$ of aprepitant was 35.0 $\mu\text{g}\cdot\text{hr}/\text{ml}$ and the mean maximal aprepitant concentration was 4.01 $\mu\text{g}/\text{ml}$.

Distribution

Aprepitant is highly protein bound, with a mean of 97 %. The geometric mean volume of distribution at steady state ($V_{d_{ss}}$) of aprepitant estimated from a single 150 mg intravenous dose of fosaprepitant is approximately 82 l in humans.

Biotransformation

Fosaprepitant was rapidly converted to aprepitant in reported *in vitro* incubations with liver preparations from humans. Furthermore, fosaprepitant underwent rapid and nearly complete conversion to aprepitant in S9 preparations from other human tissues including kidney, lung and ileum. Thus, it appears that the conversion of fosaprepitant to aprepitant can occur in multiple tissues. In humans, fosaprepitant administered intravenously was rapidly converted to aprepitant within 30 minutes following the end of infusion.

Aprepitant undergoes extensive metabolism. In healthy young adults, aprepitant accounts for approximately 19 % of the radioactivity in plasma over 72 hours following a single intravenous administration 100 mg dose of [^{14}C]- fosaprepitant, a prodrug for aprepitant, indicating a substantial presence of metabolites in the plasma. Twelve metabolites of aprepitant have been identified in human plasma. The metabolism of aprepitant occurs largely via oxidation at the morpholine ring and its side chains and the resultant metabolites were only weakly active. Reported *in vitro* studies using human liver microsomes indicate that aprepitant is metabolised primarily by CYP3A4 and potentially with minor contribution by CYP1A2 and CYP2C19.

All metabolites observed in urine, faeces and plasma following an intravenous 100 mg [^{14}C]- fosaprepitant dose were also observed following an oral dose of [^{14}C]-aprepitant. Upon conversion of 245.3 mg of fosaprepitant dimeglumine (equivalent to 150 mg fosaprepitant) to aprepitant, 23.9 mg of phosphoric acid and 95.3 mg of meglumine are liberated.

Elimination

Aprepitant is not excreted unchanged in urine. Metabolites are excreted in urine and via biliary excretion in faeces. Following a single intravenously administered 100 mg dose of [^{14}C]- fosaprepitant to healthy subjects, 57 % of the radioactivity was recovered in urine and 45 % in faeces.

The pharmacokinetics of aprepitant is non-linear across the clinical dose range. The terminal half-life of aprepitant following a 150 mg intravenous dose of fosaprepitant was approximately 11 hours. The geometric mean plasma clearance of aprepitant following a 150 mg intravenous dose of fosaprepitant was approximately 73 ml/min.

Pharmacokinetics in special populations

Hepatic impairment: Fosaprepitant is metabolized in various extrahepatic tissues; therefore hepatic impairment is not expected to alter the conversion of fosaprepitant to aprepitant. Mild hepatic impairment (Child-Pugh class A) does not affect the pharmacokinetics of aprepitant to a clinically relevant extent. No dose adjustment is necessary for patients with mild hepatic impairment. Conclusions regarding the influence of moderate hepatic impairment (Child-Pugh class B) on aprepitant pharmacokinetics cannot be drawn from available data. There are no clinical or pharmacokinetic data in patients with severe hepatic impairment (Child-Pugh class C).

Renal impairment: A single 240 mg dose of oral aprepitant was administered to patients with severe renal impairment ($\text{CrCl} < 30 \text{ ml/min}$) and to patients with end stage renal disease (ESRD) requiring haemodialysis.

In patients with severe renal impairment, the $\text{AUC}_{0-\infty}$ of total aprepitant (unbound and protein bound) decreased by 21 % and C_{max} decreased by 32 %, relative to healthy subjects. In patients with ESRD undergoing haemodialysis, the $\text{AUC}_{0-\infty}$ of total aprepitant decreased by 42 % and C_{max} decreased by 32 %. Due to modest decreases in protein binding of aprepitant in patients with renal disease, the AUC of pharmacologically active unbound aprepitant was not significantly affected in patients with renal impairment compared with healthy subjects. Haemodialysis conducted 4 or 48 hours after dosing had no significant effect on the pharmacokinetics of aprepitant; less than 0.2 % of the dose was recovered in the dialysate.

No dose adjustment is necessary for patients with renal impairment or for patients with ESRD undergoing haemodialysis.

Paediatric population: As part of a 3-day IV/IV/IV regimen, simulated median $\text{AUC}_{0-24\text{hr}}$ of aprepitant with median peak plasma concentration (C_{max}) on Day 1 and the median concentrations at the end of Day 1, Day 2 and Day 3 in paediatric patients (6 months to 17 years old) are shown in Table 7.

Table 7: Pharmacokinetic parameters of aprepitant for 3-day IV fosaprepitant regimen in paediatric patients

Population	3-day IV/IV/IV dose	$\text{AUC}_{0-24 \text{ hr.}}$ (ng*hr/mL)	C_{max} (ng/mL)	C_{24} (ng/mL)	C_{48} (ng/mL)	C_{72} (ng/mL)
12 - 17 years old	115mg, 80mg, 80mg	21172	2475	454	424	417
6 - < 12 years old	3mg/kg, 2mg/kg, 2mg/kg	25901	2719	518	438	418
2 - < 6 years old		20568	2335	336	248	232
6 months – < 2 years old		16979	1916	256	179	167

In the 1-day IV fosaprepitant setting, simulated median $\text{AUC}_{0-24\text{hr}}$ of aprepitant with median peak plasma concentration (C_{max}) on Day 1 and the median concentrations at the end of Day 1, Day 2 and Day 3 in paediatric patients (6 months to < 12 years old) and observed mean $\text{AUC}_{0-24\text{hr}}$ with median peak plasma concentration (C_{max}) on Day 1 and mean concentrations at the end of Day 1, Day 2 and Day 3 in paediatric patients (12 to 17 years old) are shown in Table 8.

Table 8: Pharmacokinetic parameters of Aprepitant for 1-day IV fosaprepitant regimen in paediatric patients

Population	1-day IV dose	AUC _{0-24 hr.} (ng*hr/mL)	C _{max} (ng/mL)	C ₂₄ (ng/mL)	C ₄₈ (ng/mL)	C ₇₂ (ng/mL)
12 - 17 years old	150 mg	30400	3500	735	NR*	NR*
6 - < 12 years old	4 mg/kg	35766	3637	746	227	69.2
2 - < 6 years old		28655	3150	494	108	23.5
6 months – < 2 years old	5 mg/kg	30484	3191	522	112	24.4

*NR = Not Reported

A reported population pharmacokinetic analysis of Aprepitant in paediatric patients (aged 6 months through 17 years) suggests that gender and race have no clinically meaningful effect on the pharmacokinetics of Aprepitant.

Relationship between concentration and effect

Reported Positron emission tomography (PET) imaging studies, using a highly specific NK₁-receptor tracer, in healthy young men administered a single intravenous dose of 150 mg fosaprepitant (N=8) demonstrated brain NK₁ receptor occupancy of $\geq 100\%$ at T_{max}, and 24 hours, $\geq 97\%$ at 48 hours, and between 41 % and 75 % at 120 hours, following dosing. Occupancy of brain NK₁ receptors, in this study, correlate well with Aprepitant plasma concentrations.

6. Nonclinical properties

Reportedly, Pre-clinical data obtained with intravenous administration of fosaprepitant and oral administration of Aprepitant reveal no special hazard for humans based on conventional studies of single and repeated dose toxicity, geno toxicity (including in vitro tests), and toxicity to reproduction and development.

Carcinogenic potential in rodents was only investigated with orally administered Aprepitant. However, it should be noted that the value of the toxicity studies carried out with rodents, rabbits and monkeys, including the reproduction toxicity studies, are limited since systemic exposures to fosaprepitant and Aprepitant were only similar or even lower than therapeutic exposure in adult humans. In the performed safety pharmacology and repeated dose toxicity studies with dogs, fosaprepitant C_{max} and Aprepitant AUC values were up to 3 times and 40 times, respectively, higher than clinical values.

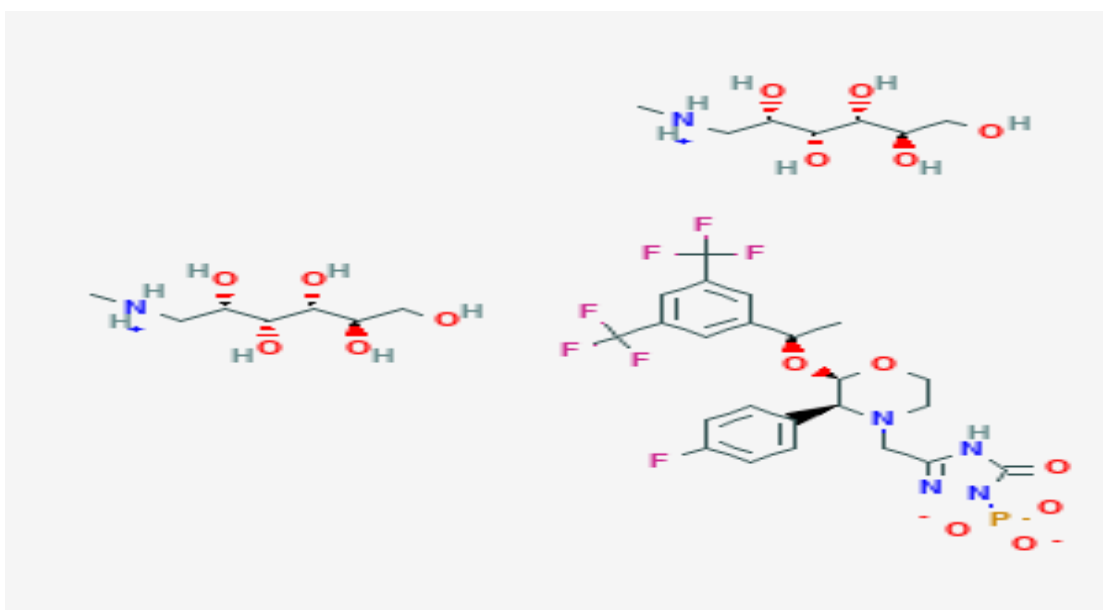
In a reported toxicity study in juvenile dogs treated with fosaprepitant from postnatal day 14 to day 42, a decreased testicular weight and Leydig cell size were seen in the males at 6 mg/kg/day and increased uterine weight, hypertrophy of the uterus and cervix, and oedema of vaginal tissues were seen in females from 4 mg/kg/day. In a reported juvenile toxicity study in rats treated with Aprepitant from postnatal day 10 to day 63, earlier vaginal opening in females from 250 mg/kg b.i.d. and delayed preputial separation in males from 10 mg/kg b.i.d. was seen. There were no treatment-related effects on mating, fertility or embryonic/foetal survival, and no pathological changes in the reproductive organs. There were no margins to clinically relevant exposure of Aprepitant. For short term treatment, these findings are considered unlikely to be clinically relevant.

As per reported data, in laboratory animals, fosaprepitant in non-commercial formulations caused vascular toxicity and hemolysis at concentrations below 1 mg/ml and higher, dependent on the formulation. In human washed blood cells also evidence of hemolysis was found with non-commercial formulations at fosaprepitant concentrations of 2.3 mg/ml and higher, although tests in human whole blood were negative. No hemolysis was found with the commercial formulation up to a fosaprepitant concentration of 1 mg/ml in human whole blood and washed human erythrocytes.

Reportedly, in rabbits, fosaprepitant caused initial transient local acute inflammation following paravenous, subcutaneous and intramuscular administration. At the end of the follow-up period (post-dose day 8), up to slight local subacute inflammation was noted following paravenous and intramuscular administration and additional up to moderate focal muscle degeneration/necrosis with muscle regeneration following intramuscular administration.

7. Description

Fosaprepitant Dimeglumine is the dimeglumine salt form of fosaprepitant which is chemically, 5-[[[(2R,3S)-2-[(1R)-1-[3,5-bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)morpholin-4-yl]methyl]-2-phosphonato-4H-1,2,4-triazol-3-one;methyl-[(2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl]azanum having the molecular formula of $C_{37}H_{56}F_7N_6O_{16}P$ and molecular weight of 1004.8g/mol with the chemical structure as below:



Fosaprepitant Dimeglumine is white to off-white lyophilized cake or powder with green color flip off seal. The excipients used are ethylenedinitrotetraacetic acid disodium salt dehydrate, Lactose anhydrous, Polysorbate 80, Sodium Hydroxide Pellets and Water for Injection.

8. Pharmaceutical particulars

8.1 Incompatibilities

Emvoid IV is incompatible with any solutions containing divalent cations (e.g., Ca^{2+} , Mg^{2+}), including Hartman's and lactated Ringer's solutions. This medicinal product must not be mixed with other medicinal products except 0.9% sodium chloride for injection I.P. (Normal Saline).

8.2 Shelf-life

Do not use later than date of expiry.

8.3 Packaging information

Emvoid IV is available in sterile single dose vial.

8.4 Storage and handing instructions

Store at $2^{\circ}C$ to $8^{\circ}C$ ($36-46^{\circ}F$)

9. Patient counselling information

Package leaflet: information for the patient

EMVOID IV

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist, or nurse.
- If you get any side effects talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet.

What is in this leaflet?

9.1. What EMVOID IV is and what it is used for

9.2. What you need to know before you take Emvoid IV

9.3. How to take EMVOID IV

9.4. Possible side effects

9.5. How to store EMVOID IV

9.6. Contents of the pack and other information

9.1 What Emvoid IV is and what it is used for

Emvoid IV contains the active substance fosaprepitant which is converted to aprepitant in your body. It belongs to a group of medicines called "neurokinin 1 (NK₁) receptor antagonists". The brain has a specific area that controls nausea and vomiting. Emvoid IV works by blocking signals to that area, thereby reducing nausea and vomiting. EMVOID IV is used in adults to prevent nausea and vomiting caused by chemotherapy (cancer treatment) that is a strong or moderate trigger of nausea and vomiting.

9.2 What you need to know before you take Emvoid IV

Do not use EMVOID IV:

- if you are allergic to fosaprepitant, aprepitant or to polysorbate 80 or any of the other ingredients.
- with medicines containing pimozide (used to treat psychiatric illnesses), terfenadine and astemizole (used for hay fever and other allergic conditions), cisapride (used for treating digestive problems). Tell your doctor if you are taking these medicines since the treatment must be modified before you start using EMVOID IV.

Warnings and precautions

Talk to your doctor or nurse before using EMVOID IV.

Before treatment with this medicine, tell your doctor if you have liver disease because the liver is important in breaking down the medicine in the body. Your doctor may therefore have to monitor the condition of your liver.

Other medicines and EMVOID IV

EMVOID IV can affect other medicines both during and after treatment with EMVOID IV. There are some medicines that should not be taken with EMVOID IV (such as pimozide, terfenadine, astemizole, and cisapride) or that require a dose adjustment (see also 'Do not use EMVOID IV').

The effects of EMVOID IV or other medicines might be influenced if you take EMVOID IV together with other medicines including those listed below. Please talk to your doctor if you are taking any of

the following medicines:

- birth control medicines which can include birth control pills, skin patches, implants, and certain Intrauterine devices (IUDs) that release hormones may not work adequately when taken together with EMVOID IV. Another or additional non-hormonal form of birth control should be used during treatment with EMVOID IV and for up to 2 months after using EMVOID IV,
- cyclosporine, tacrolimus, sirolimus, everolimus (immunosuppressants),
- alfentanil, fentanyl (used to treat pain),
- quinidine (used to treat an irregular heart beat),
- irinotecan, etoposide, vinorelbine, ifosfamide (medicines used to treat cancer),
- medicines containing ergot alkaloid derivatives such as ergotamine and diergotamine (used for treating migraines),
- warfarin, acenocoumarol (blood thinners; blood tests may be required),
- rifampicin, clarithromycin, telithromycin (antibiotics used to treat infections),
- phenytoin (a medicine used to treat seizures),
- carbamazepine (used to treat depression and epilepsy),
- midazolam, triazolam, phenobarbital (medicines used to produce calmness or help you sleep),
- St. John's Wort (an herbal preparation used to treat depression),
- protease inhibitors (used to treat HIV infections),
- ketoconazole except shampoo (used to treat Cushing's syndrome – when the body produces an excess of cortisol),
- itraconazole, voriconazole, posaconazole (antifungals),
- nefazodone (used to treat depression),
- diltiazem (a medicine used to treat high blood pressure),
- corticosteroids (such as dexamethasone),
- anti-anxiety medicines (such as alprazolam),
- tolbutamide (a medicine used to treat diabetes)

Tell your doctor about any other medicines or herbal medicines you are taking, have recently taken, or might take.

Pregnancy and breast-feeding

This medicine should not be used during pregnancy unless clearly necessary. If you are pregnant or breast-feeding, may be pregnant or are planning to have a baby, ask your doctor for advice before receiving this medicine.

For information regarding birth control, see 'Other medicines and EMVOID IV'.

It is not known whether EMVOID IV is excreted in human milk; therefore, breast-feeding is not recommended during treatment with this medicine. It is important to tell your doctor if you are breast-feeding or are planning to breast-feed before receiving this medicine.

Driving and using machines

It should be taken into account that some people get dizzy and get sleepy after using EMVOID IV. If you get dizzy or get sleepy, avoid driving or using machines after using this medicine (see 'Possible side effects').

9.3 How to take Emvoid IV

In adults (18 years of age and older), the recommended dose of EMVOID IV is 150 mg fosaprepitant on Day 1 (day of chemotherapy).

The powder is reconstituted and diluted before use. The solution for infusion is given to you by a health care professional, such as a doctor or nurse, via an intravenous infusion (a drip) approximately 30

minutes before you start the chemotherapy treatment in adults. Your doctor may ask you to take other medicines including a corticosteroid (such as dexamethasone) and a '5HT3 antagonist' (such as ondansetron) for preventing nausea and vomiting. Check with your doctor if you are not sure.

9.4 Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Stop taking EMVOID IV and see a doctor immediately if you notice any of the following side effects, which may be serious, and for which you may need urgent medical treatment:

- Hives, rash, itching, difficulty breathing or swallowing, or a serious decrease of blood pressure (frequency not known, cannot be estimated from the available data); these are signs of a serious allergic reaction.
- Infusion site reactions (ISR) at or near the infusion site. Most severe ISR have happened with a certain type of chemotherapy medicine that can burn or blister your skin (vesicant) with side effects, including pain, swelling and redness. Death of skin tissue (necrosis) has happened in some people getting this type of chemotherapy medicine.

Other side effects that have been reported are listed below.

Common side effects (may affect up to 1 in 10 people) are:

- constipation, indigestion,
- headache,
- tiredness,
- loss of appetite,
- hiccups,
- increased amount of liver enzymes in your blood.

Uncommon side effects (may affect up to 1 in 100 people) are:

- dizziness, sleepiness,
- acne, rash,
- anxiousness,
- burping, nausea, vomiting, heartburn, stomach pain, dry mouth, passing wind,
- increased painful or burning urination,
- weakness, generally feeling unwell,
- reddening of the face/skin, hot flush,
- fast or irregular heartbeats, blood pressure increased,
- fever with increased risk of infection, lowering of red blood cells,
- infusion site pain, infusion-site redness, infusion-site itching, infusion site vein inflammation.

Rare side effects (may affect up to 1 in 1,000 people) are:

- difficulty thinking, lack of energy, taste disturbance,
- sensitivity of the skin to sun, excessive sweating, oily skin, sores on skin, itching rash, Stevens-Johnson syndrome/toxic epidermal necrolysis (rare severe skin reaction),
- euphoria (feeling of extreme happiness), disorientation,
- bacterial infection, fungal infection,
- severe constipation, stomach ulcer, inflammation of the small intestine and colon, sores in mouth, bloating,
- frequent urination, passing more urine than normal, presence of sugar or blood in urine,
- chest discomfort, swelling, change in the manner of walking,
- cough, mucus in back of throat, throat irritation, sneezing, sore throat,
- eye discharge and itching,

- ringing in the ear,
- muscle spasms, muscle weakness,
- excessive thirst,
- slow heartbeat, heart and blood vessel disease,
- lowering of white blood cells, low sodium levels in the blood, weight loss,
- hardening of site of infusion.

- **Reporting of side effects**

If you get any side effects, talk to your doctor or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via any point of contact of Torrent Pharma available at: http://www.torrentpharma.com/Index.php/site/info/adverse_event_reporting.

9.5 How to store Emvoid IV

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and vial after EXP.

Do not freeze after reconstitution. Discard unused portion.

Do not throw away any medicines via wastewater or house hold waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

9.6 Contents of the pack and other information

The active substance in this product is Fosaprepitant Dimeglumine.

The other ingredients are Ethylenedinitrotetraacetic acid disodium salt dehydrate, Lactose anhydrous, Polysorbate 80, Sodium Hydroxide Pellets and Water for Injection.

10. Details of manufacturer

MSN Laboratories Private Limited,
(Formulations Division),
Plot No-42, Anrich Industrial Estate, Bollaram,
Sangareddy District - 502325, Telangana, India.

11. Details of permission or licence number with date

Mfg Lic No. 38/MD/AP/2007/F/CC issued on 29.03.2018

12. Date of revision

Feb/2020

MARKETED BY



TORRENT PHARMACEUTICALS LTD.

IN/EMVOID IV 150 mg/Feb-20/02/PI