



FUZEON[®]

(enfuvirtide)

for Injection

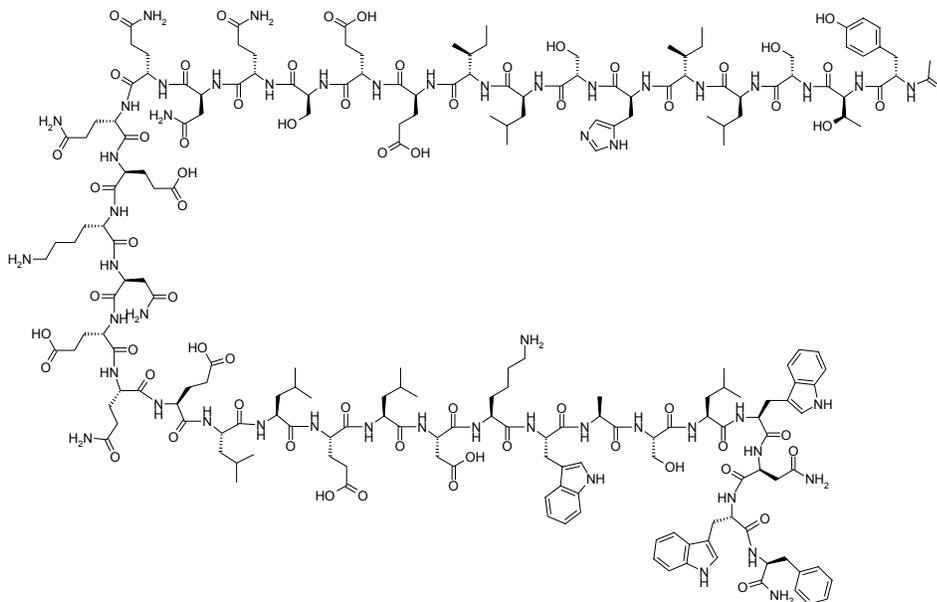
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DESCRIPTION

FUZEON (enfuvirtide) is an inhibitor of the fusion of HIV-1 with CD4⁺ cells. Enfuvirtide is a linear 36-amino acid synthetic peptide with the N-terminus acetylated and the C-terminus is a carboxamide. It is composed of naturally occurring L-amino acid residues.

Enfuvirtide is a white to off-white amorphous solid. It has negligible solubility in pure water and the solubility increases in aqueous buffers (pH 7.5) to 85-142 g/100 mL. The empirical formula of enfuvirtide is C₂₀₄H₃₀₁N₅₁O₆₄, and the molecular weight is 4492. It has the following primary amino acid sequence:

CH₃CO-Tyr-Thr-Ser-Leu-Ile-His-Ser-Leu-Ile-Glu-Glu-Ser-Gln-Asn-Gln-Gln-Glu-Lys-Asn-Glu-Gln-Glu-Leu-Leu-Glu-Leu-Asp-Lys-Trp-Ala-Ser-Leu-Trp-Asn-Trp-Phe-NH₂ and the following structural formula:



The drug product, FUZEON (enfuvirtide) for Injection, is a white to off-white, sterile, lyophilized powder. Each single-use vial contains 108 mg of enfuvirtide for the delivery of 90 mg. Prior to subcutaneous administration, the contents of the vial are reconstituted with 1.1 mL of Sterile Water for Injection giving a volume of approximately 1.2 mL to provide the delivery of 1 mL of the solution. Each 1 mL of the reconstituted solution contains approximately 90 mg of enfuvirtide with approximate amounts of the following excipients: 22.55 mg of mannitol, 2.39 mg of sodium carbonate (anhydrous), and sodium

hydroxide and hydrochloric acid for pH adjustment as needed. The reconstituted solution has an approximate pH of 9.0.

MICROBIOLOGY

Mechanism of Action

Enfuvirtide interferes with the entry of HIV-1 into cells by inhibiting fusion of viral and cellular membranes. Enfuvirtide binds to the first heptad-repeat (HR1) in the gp41 subunit of the viral envelope glycoprotein and prevents the conformational changes required for the fusion of viral and cellular membranes.

Antiviral Activity In Vitro

The in vitro antiviral activity of enfuvirtide was assessed by infecting different CD4⁺ cell types with laboratory and clinical isolates of HIV-1. The IC₅₀ values for baseline clinical isolates ranged from 0.089 to 107 nM (0.4 to 480 ng/mL) by the cMAGI assay (n=130) and from 1.56 to 1680 nM (7 to 7530 ng/mL) by a recombinant phenotypic entry assay (n=627). Enfuvirtide was similarly active in vitro against clades A, AE, C, D, E, F, and G (range 5.1 to 10.5 nM), and R5, X4, and dual tropic viruses. Enfuvirtide has no activity against HIV-2.

Enfuvirtide exhibited additive to synergistic effects in cell culture assays when combined with individual members of various antiretroviral classes, including lamivudine, zidovudine, indinavir, nelfinavir, and efavirenz.

Drug Resistance

HIV-1 isolates with reduced susceptibility to enfuvirtide have been selected in vitro. Genotypic analysis of the in vitro-selected resistant isolates showed mutations that resulted in amino acid substitutions at the enfuvirtide binding HR1 domain positions 36 to 38 of the HIV-1 envelope glycoprotein gp41. Phenotypic analysis of site-directed mutants in positions 36 to 38 in an HIV-1 molecular clone showed a 5-fold to 684-fold decrease in susceptibility to enfuvirtide.

In clinical trials, HIV-1 isolates with reduced susceptibility to enfuvirtide have been recovered from subjects failing a FUZEON containing regimen. Posttreatment HIV-1 virus from 277 subjects experiencing protocol defined virological failure at 48 weeks exhibited a median decrease in susceptibility to enfuvirtide of 33.4-fold (range 0.4-6318-fold) relative to their respective baseline virus. Of these, 249 had decreases in susceptibility to enfuvirtide of greater than 4-fold and all but 3 of those 249 exhibited genotypic changes in the codons encoding gp41 HR1 domain amino acids 36 to 45. Substitutions in this region were observed with decreasing frequency at amino acid positions 38, 43, 36, 40, 42, and 45.

Cross-resistance

HIV-1 clinical isolates resistant to nucleoside analogue reverse transcriptase inhibitors (NRTI), non-nucleoside analogue reverse transcriptase inhibitors (NNRTI), and protease inhibitors (PI) were susceptible to enfuvirtide in cell culture.

CLINICAL PHARMACOLOGY

Pharmacokinetics

The pharmacokinetic properties of enfuvirtide were evaluated in HIV-1 infected adult and pediatric patients.

Absorption

Following a 90-mg single subcutaneous injection of FUZEON into the abdomen in 12 HIV-1 infected subjects, the mean (\pm SD) C_{\max} was 4.59 ± 1.5 $\mu\text{g/mL}$, AUC was 55.8 ± 12.1 $\mu\text{g}\cdot\text{h/mL}$ and the median T_{\max} was 8 hours (ranged from 3 to 12 h). The absolute bioavailability (using a 90-mg intravenous dose as a reference) was $84.3\% \pm 15.5\%$. Following 90-mg bid dosing of FUZEON subcutaneously in combination with other antiretroviral agents in 11 HIV-1 infected subjects, the mean (\pm SD) steady-state C_{\max} was 5.0 ± 1.7 $\mu\text{g/mL}$, C_{trough} was 3.3 ± 1.6 $\mu\text{g/mL}$, $\text{AUC}_{0-12\text{h}}$ was 48.7 ± 19.1 $\mu\text{g}\cdot\text{h/mL}$, and the median T_{\max} was 4 hours (ranged from 4 to 8 h).

Absorption of the 90-mg dose was comparable when injected into the subcutaneous tissue of the abdomen, thigh or arm.

Distribution

The mean (\pm SD) steady-state volume of distribution after intravenous administration of a 90-mg dose of FUZEON (N=12) was 5.5 ± 1.1 L.

Enfuvirtide is approximately 92% bound to plasma proteins in HIV-infected plasma over a concentration range of 2 to 10 $\mu\text{g/mL}$. It is bound predominantly to albumin and to a lower extent to α -1 acid glycoprotein.

Metabolism/Elimination

As a peptide, enfuvirtide is expected to undergo catabolism to its constituent amino acids, with subsequent recycling of the amino acids in the body pool.

Mass balance studies to determine elimination pathway(s) of enfuvirtide have not been performed in humans.

In vitro studies with human microsomes and hepatocytes indicate that enfuvirtide undergoes hydrolysis to form a deamidated metabolite at the C-terminal phenylalanine residue, M3. The hydrolysis reaction is not NADPH dependent. The M3 metabolite is detected in human plasma following administration of enfuvirtide, with an AUC ranging from 2.4% to 15% of the enfuvirtide AUC.

Following a 90-mg single subcutaneous dose of enfuvirtide (N=12) the mean \pm SD elimination half-life of enfuvirtide is 3.8 ± 0.6 h and the mean \pm SD apparent clearance was 24.8 ± 4.1 mL/h/kg. Following 90-mg bid dosing of FUZEON subcutaneously in combination with other antiretroviral agents in 11 HIV-1 infected subjects, the mean \pm SD apparent clearance was 30.6 ± 10.6 mL/h/kg.

Special Populations

Hepatic Insufficiency

Formal pharmacokinetic studies of enfuvirtide have not been conducted in patients with hepatic impairment.

Renal Insufficiency

Formal pharmacokinetic studies of enfuvirtide have not been conducted in patients with renal insufficiency. However, analysis of plasma concentration data from subjects in clinical trials indicated that the clearance of enfuvirtide is not affected in patients with creatinine clearance greater than 35 mL/min. The effect of creatinine clearance less than 35 mL/min on enfuvirtide clearance is unknown.

Gender and Weight

GENDER

Analysis of plasma concentration data from subjects in clinical trials indicated that the clearance of enfuvirtide is 20% lower in females than males after adjusting for body weight.

WEIGHT

Enfuvirtide clearance decreases with decreased body weight irrespective of gender. Relative to the clearance of a 70-kg male, a 40-kg male will have 20% lower clearance and a 110-kg male will have a 26% higher clearance. Relative to a 70-kg male, a 40-kg female will have a 36% lower clearance and a 110-kg female will have the same clearance.

No dose adjustment is recommended for weight or gender.

Race

Analysis of plasma concentration data from subjects in clinical trials indicated that the clearance of enfuvirtide was not different in Blacks compared to Caucasians. Other pharmacokinetic studies suggest no difference between Asians and Caucasians after adjusting for body weight.

Pediatric Patients

The pharmacokinetics of enfuvirtide have been studied in 23 pediatric subjects aged 6 through 16 years at a dose of 2 mg/kg. Enfuvirtide pharmacokinetics were determined in the presence of concomitant medications including antiretroviral agents. A dose of 2 mg/kg bid (maximum 90 mg bid) provided enfuvirtide plasma concentrations similar to those obtained in adult patients receiving 90 mg bid.

In the 23 pediatric subjects receiving the 2 mg/kg bid dose, the mean \pm SD steady-state AUC was $56.3 \pm 22.3 \mu\text{g}\cdot\text{h/mL}$, C_{max} was $6.3 \pm 2.4 \mu\text{g/mL}$, C_{trough} was $3.1 \pm 1.5 \mu\text{g/mL}$, and apparent clearance was $40 \pm 17 \text{ mL/h/kg}$.

Geriatric Patients

The pharmacokinetics of enfuvirtide have not been studied in patients over 65 years of age.

Drug Interactions

Influence of FUZEON on the Metabolism of Concomitant Drugs

Based on the results from an in vitro human microsomal study, enfuvirtide is not an inhibitor of CYP450 enzymes. In an in vivo human metabolism study (N=12), FUZEON at the recommended dose of 90 mg bid did not alter the metabolism of CYP3A4, CYP2D6, CYP1A2, CYP2C19 or CYP2E1 substrates.

Influence of Concomitant Drugs on the Metabolism of Enfuvirtide

As indicated in Table 1, pharmacokinetic interaction studies were conducted between FUZEON and the following drugs: ritonavir, saquinavir/ritonavir, and rifampin.

Table 1 **Effect of Ritonavir, Saquinavir/Ritonavir, and Rifampin on the Steady-State Pharmacokinetics of Enfuvirtide (90 mg bid)***

Coadministered Drug	Dose of Coadministered Drug	N	% Change of Enfuvirtide Pharmacokinetic Parameters ^{†x} (90% CI)		
			C _{max}	AUC	C _{trough}
Ritonavir	200 mg, q12h, 4 days	12	↑24 (↑9 to ↑41)	↑22 (↑8 to ↑37)	↑14 (↑2 to ↑28)
Saquinavir/ Ritonavir	1000/100 mg, q12h, 4 days	12	↔	↑14 (↑5 to ↑24)	↑26 (↑17 to ↑35)
Rifampin	600 mg, qd, 10 days	12	↔	↔	↓15 (↓22 to ↓7)

* All studies were performed in HIV-1+ subjects using a sequential crossover design.

† ↑= Increase; ↓ = Decrease; ↔ = No Effect (↑ or ↓ <10%)

^x No interactions were clinically significant.

INDICATIONS AND USAGE

FUZEON in combination with other antiretroviral agents is indicated for the treatment of HIV-1 infection in treatment-experienced patients with evidence of HIV-1 replication despite ongoing antiretroviral therapy.

This indication is based on results from two controlled studies of 48 weeks duration. Subjects enrolled were treatment-experienced adults; many had advanced disease. There are no studies of FUZEON in antiretroviral naive patients.

Description of Clinical Studies

Studies in Antiretroviral Experienced Patients

Studies T20-301 and T20-302 were randomized, controlled, open-label, multicenter trials in HIV-1 infected subjects. Subjects were required to have either (1) viremia despite 3 to 6 months prior therapy with a nucleoside reverse transcriptase inhibitor (NRTI), non-nucleoside reverse transcriptase inhibitor (NNRTI), and protease inhibitor (PI) or (2) viremia and documented resistance or intolerance to at least one member in each of the NRTI, NNRTI, and PI classes.

All subjects received an individualized background regimen consisting of 3 to 5 antiretroviral agents selected on the basis of the subject's prior treatment history and baseline genotypic and phenotypic viral resistance measurements. Subjects were then randomized at a 2:1 ratio to FUZEON 90 mg bid with background regimen or background regimen alone.

After week 8, patients on either treatment arm who met protocol defined criteria for virological failure were permitted to revise their background regimens; those on background regimen alone were also permitted to add FUZEON.

Demographic characteristics for studies T20-301 and T20-302 are shown in Table 2. Subjects had prior exposure to a median of 12 antiretrovirals for a median of 7 years.

Table 2 T20-301 and T20-302 Pooled Subject Demographics

	FUZEON+Background Regimen	Background Regimen
	N=663	N=334
Sex		
Male	90%	90%
Female	10%	10%
Race		
White	89%	89%
Black	8%	7%
Mean Age (yr) (range)	42 (16-67)	43 (24-82)
Median Baseline HIV-1 RNA (log ₁₀ copies/mL) (range)	5.2 (3.5-6.7)	5.1 (3.7-7.1)
Median Baseline CD4 ⁺ Cell Count (cells/mm ³) (range)	89 (1-994)	97 (1-847)

The disposition and efficacy outcomes of studies T20-301 and T20-302 are shown in Table 3.

Table 3 Outcomes at Week 48 (Pooled Studies T20-301 and T20-302)

Outcomes	FUZEON+Background Regimen 90 mg bid N=663	Background Regimen N=334	
Virological Responder (at least 1 log ₁₀ below baseline)	304 (46%)	61 (18%)	
Virological Non-responder:		220 (66%)	
• Switch	0	12 (4%)	
• Completed 48 weeks randomized regimen*	191 (29%)		
		Continued Background Regimen (N=112)	Switched to FUZEON (N=220)
Discontinued due to insufficient treatment response [#]	37 (5%)	13 (12%)	22 (10%)
Discontinued due to	46 (7%)	9 (8%)	13 (6%)

adverse reactions/intercurrent illness/labs			
Deaths	15 (2%)	5 (4%)	2 (1%)
Discontinued due to injection:			
• Injection site reactions	27 (4%)	NA	10 (5%)
• Difficulty with injecting Fuzeon ^{##}	18 (3%)	NA	2 (1%)
Discontinued due to other reasons [†]	25 (4%)	14 (13%)	6 (3%)

*Includes never responded, rebound, and missing RNA data.

[#]Includes study discontinuation for virological failure and insufficient response as per the judgment of the investigator.

^{##}Includes difficulties with injection, such as injection fatigue and inconvenience.

[†]Includes lost to follow-up, treatment refusal, and non-compliance.

At 48 weeks, 154 (23%) of subjects in the FUZEON+background regimen and 27 (8%) in the background regimen alone had HIV RNA levels <50 copies/mL, and 225 (34%) of subjects receiving FUZEON+background regimen had HIV RNA levels <400 copies/mL compared to 44 (13%) in the background regimen alone. Subjects achieving HIV RNA levels <50 copies/mL were included in the <400 copies/mL category and both categories were incorporated in the overall virologic responder category of achieving HIV RNA at least 1 log₁₀ below baseline.

The mean log change in HIV-1 RNA from baseline was -1.4 log₁₀ copies/mL in subjects receiving FUZEON+background and -0.5 in those receiving background alone. The mean change in CD4⁺ cell count from baseline to week 48 was +91 cells/mm³ in the FUZEON+background arm and +45 cells/mm³ in the background alone arm.

Subjects in the FUZEON+background arm achieved a better virologic and immunologic outcome than subjects in the background alone arm across all subgroups based on baseline CD4⁺ cell count, baseline HIV-1 RNA, number of prior ARVs or number of active ARVs in the background regimen.

CONTRAINDICATIONS

FUZEON is contraindicated in patients with known hypersensitivity to FUZEON or any of its components (see **WARNINGS**).

WARNINGS

Local Injection Site Reactions (ISRs)

The majority of patients (98%) receiving FUZEON in the Phase 3 clinical trials had at least one local injection site reaction; ISRs occurred throughout treatment with FUZEON. Manifestations may include pain and discomfort, induration, erythema, nodules and cysts, pruritus, and ecchymosis (see **ADVERSE REACTIONS**). Reactions are often present at more than one injection site. Patients must be familiar with the FUZEON *Injection Instructions* in order to know how to inject FUZEON appropriately and how to monitor carefully for signs or symptoms of cellulitis or local infection.

Pneumonia

An increased rate of bacterial pneumonia was observed in subjects treated with FUZEON in the Phase 3 clinical trials compared to the control arm (see **ADVERSE REACTIONS**). It is unclear if the increased incidence of pneumonia is related to FUZEON use. However, because of this finding, patients with HIV infection should be carefully monitored for signs and symptoms of pneumonia, especially if they have underlying conditions which may predispose them to pneumonia. Risk factors for pneumonia included low initial CD4⁺ cell count, high initial viral load, intravenous drug use, smoking, and a prior history of lung disease (see **ADVERSE REACTIONS**).

Hypersensitivity Reactions

Systemic hypersensitivity reactions have been associated with FUZEON therapy and may recur on re-challenge. Hypersensitivity reactions have occurred in <1% of patients studied and have included combinations of: rash, fever, nausea and vomiting, chills, rigors, hypotension, and/or elevated serum liver transaminases. Other adverse events that may be immune mediated and have been reported in subjects receiving FUZEON include primary immune complex reaction, respiratory distress, glomerulonephritis, and Guillain-Barre syndrome. Patients developing signs and symptoms suggestive of a systemic hypersensitivity reaction should discontinue FUZEON and should seek medical evaluation immediately. Therapy with FUZEON should not be restarted following systemic signs and symptoms consistent with a hypersensitivity reaction. Risk factors that may predict the occurrence or severity of hypersensitivity to FUZEON have not been identified (see **ADVERSE REACTIONS**).

PRECAUTIONS

Non-HIV Infected Individuals

There is a theoretical risk that FUZEON use may lead to the production of anti-enfuvirtide antibodies which cross react with HIV gp41. This could result in a false positive HIV test with an ELISA assay; a confirmatory western blot test would be expected to be negative. FUZEON has not been studied in non-HIV infected individuals.

Information for Patients

To assure safe and effective use of FUZEON, the following information and instructions should be given to patients:

- Patients should be informed that injection site reactions occur in almost all patients taking FUZEON. Patients must be familiar with the FUZEON *Injection Instructions* for instructions on how to appropriately inject FUZEON and how to carefully monitor for signs or symptoms of cellulitis or local infection. Patients should be instructed when to contact their healthcare provider about these reactions.
- Patients should be made aware that an increased rate of bacterial pneumonia was observed in subjects treated with FUZEON in Phase 3 clinical trials compared to the control arm. Patients should be advised to seek medical evaluation immediately if they develop signs or symptoms suggestive of pneumonia (cough with fever, rapid breathing, shortness of breath) (see **WARNINGS**).
- Patients should be advised of the possibility of a systemic hypersensitivity reaction to FUZEON. Patients should be advised to discontinue therapy and immediately seek medical evaluation if they develop signs/symptoms of systemic hypersensitivity such as combinations of rash, fever, nausea and vomiting, chills, rigors, and/or hypotension (see **WARNINGS**).
- FUZEON is not a cure for HIV-1 infection and patients may continue to contract illnesses associated with HIV-1 infection. The long-term effects of FUZEON are unknown at this time. FUZEON therapy has not been shown to reduce the risk of transmitting HIV-1 to others through sexual contact or blood contamination.
- FUZEON must be taken as part of a combination antiretroviral regimen. Use of FUZEON alone may lead to rapid development of virus resistant to FUZEON and possibly other agents of the same class.
- Patients and caregivers must be instructed in the use of aseptic technique when administering FUZEON in order to avoid injection site infections. Appropriate training for FUZEON reconstitution and self-injection must be given by a healthcare provider, including a careful review of the FUZEON Patient Package Insert and FUZEON *Injection Instructions*. The first injection should be performed under the supervision of an appropriately qualified healthcare provider. It is recommended that the patient and/or caregiver's understanding and use of aseptic injection techniques and procedures be periodically re-evaluated.
- Patients and caregivers should be instructed in the proper techniques for preparation, injection and disposal of needles and syringes (including not recapping needles) in order to avoid needle stick injuries. Patients should be told not to reuse needles or syringes, and be instructed in safe disposal procedures including the use of a puncture-resistant container for disposal of used needles and syringes. Patients must be instructed on the safe disposal of full containers as per local requirements. Caregivers who experience an accidental needle stick after patient injection should contact a healthcare provider immediately.
- Patients should contact their healthcare provider for any questions regarding the administration of FUZEON.

- Patients should inform their healthcare provider if they are pregnant, plan to become pregnant or become pregnant while taking this medication.
- Patients should inform their healthcare provider if they are breast-feeding.
- Patients should not change the dose or dosing schedule of FUZEON or any antiretroviral medication without consulting their healthcare provider.
- Patients should contact their healthcare provider immediately if they stop taking FUZEON or any other drug in their antiretroviral regimen.
- Patients should be told that they can obtain more information on the self-administration of FUZEON at www.FUZEON.com or by calling 1-877-4-FUZEON (1-877-438-9366).

Patients should be advised that no studies have been conducted on the ability to drive or operate machinery while taking FUZEON. If patients experience dizziness while taking FUZEON, they should be advised to talk to their healthcare provider before driving or operating machinery.

Drug Interactions

CYP450 Metabolized Drugs

Results from in vitro and in vivo studies suggest that enfuvirtide is unlikely to have significant drug interactions with concomitantly administered drugs metabolized by CYP450 enzymes (see **CLINICAL PHARMACOLOGY**).

Antiretroviral Agents

No drug interactions with other antiretroviral medications have been identified that would warrant alteration of either the enfuvirtide dose or the dose of the other antiretroviral medication.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Long-term animal carcinogenicity studies of enfuvirtide have not been conducted.

Mutagenesis

Enfuvirtide was neither mutagenic nor clastogenic in a series of in vivo and in vitro assays including the Ames bacterial reverse mutation assay, a mammalian cell forward gene mutation assay in AS52 Chinese Hamster ovary cells or an in vivo mouse micronucleus assay.

Impairment of Fertility

Enfuvirtide produced no adverse effects on fertility in male or female rats at doses up to 1.6 times the maximum recommended adult human daily dose on a m² basis.

Pregnancy

Pregnancy Category B. Reproduction studies have been performed in rats and rabbits at doses up to 27 times and 3.2 times the adult human dose on a m² basis. The animal studies revealed no evidence of harm to the fetus from enfuvirtide. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Antiretroviral Pregnancy Registry

To monitor maternal-fetal outcomes of pregnant women exposed to FUZEON and other antiretroviral drugs, an Antiretroviral Pregnancy Registry has been established. Physicians are encouraged to register patients by calling 1-800-258-4263.

Nursing Mothers

The Centers for Disease Control and Prevention recommends that HIV-infected mothers not breast-feed their infants to avoid the risk of postnatal transmission of HIV. It is not known whether enfuvirtide is excreted in human milk. Because of both the potential for HIV transmission and the potential for serious adverse reactions in nursing infants, **mothers should be instructed not to breast-feed if they are receiving FUZEON.**

Studies where radio-labeled ³H-enfuvirtide was administered to lactating rats indicated that radioactivity was present in the milk. It is not known whether the radioactivity in the milk was from radio-labeled enfuvirtide or from radio-labeled metabolites of enfuvirtide (ie, amino acids and peptide fragments).

Pediatric Use

The safety and pharmacokinetics of FUZEON have not been established in pediatric subjects below 6 years of age; limited efficacy data is available in pediatric subjects 6 years of age and older.

Fifty-two HIV-1 infected pediatric subjects ages 6 through 16 years have received FUZEON in two open-label, single-arm clinical trials. Adverse experiences, including ISRs, were similar to those observed in adult patients.

Study T20-204 was an open-label, multicenter trial that evaluated the safety and antiviral activity of FUZEON in treatment-experienced pediatric subjects. Eleven subjects from 6 to 12 years were enrolled (median age of 9 years). Median baseline CD4⁺ cell count was 495 cells/ μ L and the median baseline HIV-1 RNA was 4.6 log₁₀ copies/mL.

Ten of the 11 study subjects completed 48 weeks of chronic therapy. By week 48, 6/11 (55%) subjects had $\geq 1 \log_{10}$ decline in HIV-1 RNA and 4/11 (36%) subjects were below 400 copies/mL of HIV-1 RNA. The median changes from baseline (for the As Treated population) in HIV-1 RNA and CD4⁺ cell count were $-1.48 \log_{10}$ copies/mL and +122 cells/ μ L, respectively.

Study T20-310 is an ongoing, open-label, multicenter trial evaluating the pharmacokinetics, safety, and antiviral activity of FUZEON in treatment-experienced pediatric subjects and adolescents. Forty-one subjects from 6 through 16 years were enrolled (median age of 12 years). Median baseline CD4⁺ cell count was 117 cells/ μ L and the median baseline HIV-1 RNA was $5.1 \log_{10}$ copies/mL. The evaluation of the antiviral activity is ongoing.

Geriatric Use

Clinical studies of FUZEON did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

ADVERSE REACTIONS

The overall safety profile of FUZEON is based on 2120 subjects who received at least 1 dose of FUZEON during various clinical trials. This includes 2051 adults, 658 of whom received the recommended dose for greater than 48 weeks, and 52 pediatric subjects.

Assessment of treatment-emergent adverse events is based on the pooled data from the two Phase 3 studies T20-301 and T20-302.

Local Injection Site Reactions

Local injection site reactions were the most frequent adverse events associated with the use of FUZEON. In Phase 3 clinical studies (T20-301 and T20-302), 98% of subjects had at least one local injection site reaction (ISR). A total of 7% of subjects discontinued treatment with FUZEON because of ISRs (4%) or difficulties with injecting FUZEON (3%) such as injection fatigue and inconvenience. Eighty-five percent of subjects experienced their first ISR during the initial week of treatment; ISRs continued to occur throughout treatment with FUZEON. For most subjects the severity of signs and symptoms associated with ISRs did not change during the 48 weeks of treatment. The majority of ISRs were associated with erythema, induration, the presence of nodules or cysts, and mild to moderate pain at the injection site (Table 4). In addition, the average duration of individual ISRs was between three and seven days in 41% of subjects and more than seven days in 24% of subjects. Also, the numbers of ISRs per subject at any one time was between six to 14 ISRs in 26% of subjects and more than 14 ISRs in 1.3% of subjects. Infection at the injection site (including abscess and cellulitis) was reported in 1.7% of subjects.

Table 4 Summary of Individual Signs/Symptoms Characterizing Local Injection Site Reactions to Enfuvirtide in Studies T20-301 and T20-302 Combined (% of Subjects) Through 48 Weeks

Event Category	N=663		
	Any Severity Grade	% of Patients with Grade 3 Reactions	% of Patients with Grade 4 Reactions
Pain/Discomfort ^a	96%	11%	0%
Induration	90%	39% >25 but <50 mm	18% ≥50 mm
Erythema	91%	22% >50 but <85 mm	10% ≥85 mm
Nodules and Cysts	80%	23% >3 cm average diameter	0.2% draining
Pruritus ^b	65%	3%	NA
Ecchymosis	52%	5% >3 but ≤5 cm	2% >5 cm

^aGrade 3 = severe pain requiring prescription non-topical analgesics or limiting usual activities.

Grade 4 = severe pain requiring hospitalization or prolongation of hospitalization, resulting in death, or persistent or significant disability/incapacity, or life-threatening, or medically significant.

^bGrade 3 = refractory to topical treatment or requiring oral or parenteral treatment; Grade 4 = not applicable.

Other Adverse Events

Systemic hypersensitivity reactions have been attributed to FUZEON ($\leq 1\%$) and in some cases have recurred upon re-challenge (see **WARNINGS**).

In the T20-301 and T20-302 studies, after study week 8, patients on background alone who met protocol defined criteria for virological failure were permitted to revise their background regimens and add FUZEON. Exposure on FUZEON+background was 557 patient-years, and to background alone 162 patient-years. Due to this difference in exposure, safety results are expressed as the number of patients with an adverse event per 100 patient-years of exposure. For FUZEON+background, adverse events are also displayed by percent of subjects.

The events most frequently reported in subjects receiving FUZEON+background regimen, excluding injection site reactions, were diarrhea (38 per 100 patient-years or 31.7%), nausea (27 per 100 patient-years or 22.8%), and fatigue (24 per 100 patient-years or 20.2%). These events were also commonly observed in subjects that received background regimen alone: diarrhea (73 per 100 patient-years), nausea (50 per 100 patient-years), and fatigue (38 per 100 patient-years).

Treatment-emergent adverse events, regardless of causality and excluding ISRs, from Phase 3 studies are summarized for adult subjects, in Table 5. Any Grade 2 or above events occurring at ≥ 2 percent of subjects and at a higher rate in subjects treated with FUZEON are summarized in Table 5; events that occurred at a higher rate in the control arms are not displayed.

Rates of adverse events for patients who switched to FUZEON after virological failure were similar.

Table 5 Rates of Treatment-Emergent Adverse Events* (\geq Grade 2) Reported in ≥ 2 % of Patients Treated with FUZEON (Pooled Studies T20-301/T20-302 at 48 Weeks)**

Adverse Event (by System Organ Class)	FUZEON+Back-ground Regimen (N=663)	FUZEON+Back-ground Regimen (N=663)	Background Regimen (N=334)
	663 patients total	557 total patient-years	162 total patient-years
	% frequency	rate/100 patient-years	rate/100 patient-years
Weight Decreased	6.6%	7.9	6.2
Sinusitis	6.0%	7.2	4.9
Abdominal Pain	3.9%	4.7	3.7
Cough	3.9%	4.7	2.5
Herpes Simplex	3.5%	4.1	3.7

Adverse Event (by System Organ Class)	FUZEON+Background Regimen (N=663)	FUZEON+Background Regimen (N=663)	Background Regimen (N=334)
	663 patients total	557 total patient-years	162 total patient-years
	% frequency	rate/100 patient-years	rate/100 patient-years
Appetite Decreased	3.2%	3.8	2.5
Pancreatitis	3.0%	3.6	2.5
Pain in Limb	2.9%	3.4	3.1
Pneumonia (see text below)	2.7%	3.2	0.6
Myalgia	2.7%	3.2	1.2
Influenza-Like Illness	2.4%	2.9	1.9
Folliculitis	2.4%	2.9	2.5
Anorexia	2.3%	2.7	1.9
Dry Mouth	2.1%	2.5	1.9
Conjunctivitis	2.0%	2.3	1.9

*Excludes Injection Site Reactions

**Events listed occurred more frequently in patients treated with FUZEON (based on rates/100 patient-years).

The incidence of pneumonia was 2.7% or 3.2 events/100 patient-years in subjects receiving FUZEON+background regimen. On analysis of all diagnoses of pneumonia (pneumonia, bacterial pneumonia, bronchopneumonia, and related terms) in the Phase 3 clinical trials, an increased rate of bacterial pneumonia was observed in subjects treated with FUZEON compared to the control arm (6.9%, 6.7 pneumonia events per 100 patient-years versus 0.6 events per 100 patient-years, respectively). Approximately half of the study subjects with pneumonia required hospitalization. Three subject deaths in the FUZEON arm were attributed to pneumonia; all three had serious concomitant AIDS-related illnesses that contributed to their deaths. Risk factors for pneumonia included low initial CD4⁺ lymphocyte count, high initial viral load, intravenous drug use, smoking, and a prior history of lung disease. It is unclear if the increased incidence of pneumonia was related to FUZEON use. However, because of this, finding patients with HIV infection should be carefully monitored for signs and symptoms of pneumonia, especially if they have underlying conditions which may predispose them to pneumonia (see **WARNINGS**).

Less Common Events

The following adverse events have been reported in 1 or more subjects; however, a causal relationship to FUZEON has not been established.

Immune System Disorders: worsening abacavir hypersensitivity reaction

Renal and Urinary Disorders: glomerulonephritis; tubular necrosis; renal insufficiency; renal failure (including fatal cases)

Blood and Lymphatic Disorders: thrombocytopenia; neutropenia; fever; lymphadenopathy

Endocrine and Metabolic: hyperglycemia

Infections: sepsis; herpes simplex

Nervous System Disorders: taste disturbance; Guillain-Barre syndrome (fatal); sixth nerve palsy; peripheral neuropathy

Cardiac Disorders: unstable angina pectoris

Gastrointestinal Disorders: constipation; abdominal pain upper

General: asthenia

Hepatobiliary Disorders: toxic hepatitis; hepatic steatosis

Investigations: increased amylase; increased lipase; increased AST; increased GGT; increased triglycerides

Psychiatric Disorders: insomnia; depression; anxiety; suicide attempt

Respiratory, Thoracic, and Mediastinal Disorders: pneumopathy; respiratory distress; cough

Skin and Subcutaneous Tissue Disorders: pruritus.

Laboratory Abnormalities

Table 6 shows the treatment-emergent laboratory abnormalities that occurred in at least 2 subjects per 100 patient-years and more frequently in those receiving FUZEON+background regimen than background regimen alone from studies T20-301 and T20-302.

Table 6 Treatment-Emergent Laboratory Abnormalities in ≥ 2 percent of Patients Receiving FUZEON* (Pooled Studies T20-301 and T20-302 at 24 Weeks)

Laboratory Parameters	Grading	FUZEON+Back-ground Regimen (N=663)	FUZEON+Back-ground Regimen (N=663)	Background Regimen (N=334)
		663 patients total	557 total patient-years	162 total patient-years
		% frequency	rate/100 patient-years	rate/100 patient-years
Eosinophilia				
1-2 X ULN ($0.7 \times 10^9/L$)	$0.7-1.4 \times 10^9/L$	9.1%	10.8	3.7
>2 X ULN ($0.7 \times 10^9/L$)	$>1.4 \times 10^9/L$	1.8%	2.2	1.8
ALT				
Grade 3	$>5-10 \times ULN$	4.1%	4.8	4.3
Grade 4	$>10 \times ULN$	1.2%	1.4	1.2
Creatine Phosphokinase (U/L)				
Grade 3	$>5-10 \times ULN$	6.9%	8.3	8.0
Grade 4	$>10 \times ULN$	2.6%	3.1	8.6

*Events listed occurred more frequently in patients treated with FUZEON (based on rates/100 patient-years).

Adverse Events in Pediatric Patients

FUZEON has been studied in 52 pediatric subjects 6 through 16 years of age with duration of FUZEON exposure ranging from 1 dose to 134 weeks. Adverse experiences seen during clinical trials were similar to those observed in adult subjects.

OVERDOSAGE

There are no reports of human experience of acute overdose with FUZEON. The highest dose administered to 12 subjects in a clinical trial was 180 mg as a single dose subcutaneously. There is no specific antidote for overdose with FUZEON. Treatment of overdose should consist of general supportive measures.

DOSAGE AND ADMINISTRATION

Adults

The recommended dose of FUZEON is 90 mg (1 mL) twice daily injected subcutaneously into the upper arm, anterior thigh or abdomen. Each injection should be given at a site different from the preceding injection site, and only where there is no current injection site reaction from an earlier dose. FUZEON should not be injected into moles, scar tissue, bruises or the navel. Additional detailed information regarding the administration of FUZEON is described in the FUZEON *Injection Instructions*.

Pediatric Patients

No data are available to establish a dose recommendation of FUZEON in pediatric patients below the age of 6 years. In pediatric patients 6 years through 16 years of age, the recommended dosage of FUZEON is 2 mg/kg twice daily up to a maximum dose of 90 mg twice daily injected subcutaneously into the upper arm, anterior thigh or abdomen. Each injection should be given at a site different from the preceding injection site and only where there is no current injection site reaction from an earlier dose. FUZEON should not be injected into moles, scar tissue, bruises or the navel. Table 7 contains dosing guidelines for FUZEON based on body weight. Weight should be monitored periodically and the FUZEON dose adjusted accordingly.

Table 7 Pediatric Dosing Guidelines

Weight		Dose per bid Injection (mg/dose)	Injection Volume (90 mg enfuvirtide per mL)
Kilograms (kg)	Pounds (lbs)		
11.0 to 15.5	24 to 34	27	0.3 mL
15.6 to 20.0	>34 to 44	36	0.4 mL
20.1 to 24.5	>44 to 54	45	0.5 mL
24.6 to 29.0	>54 to 64	54	0.6 mL
29.1 to 33.5	>64 to 74	63	0.7 mL
33.6 to 38.0	>74 to 84	72	0.8 mL
38.1 to 42.5	>84 to 94	81	0.9 mL
≥42.6	>94	90	1.0 mL

Directions for Use

For more detailed instructions, see FUZEON *Injection Instructions*.

Subcutaneous Administration

FUZEON must only be reconstituted with 1.1 mL of Sterile Water for Injection. After adding sterile water, the vial should be gently tapped for 10 seconds and then gently rolled between the hands to avoid foaming and to ensure all particles of drug are in contact with the liquid and no drug remains on the vial wall. The vial should then be allowed to stand until the powder goes completely into solution, which could take up to 45 minutes. Reconstitution time can be reduced by gently rolling the vial between the hands until the product is completely dissolved. Before the solution is withdrawn for administration, the vial should be inspected visually to ensure that the contents are fully dissolved in solution, and that the solution is clear, colorless and without bubbles or particulate matter. If there is evidence of particulate matter, the vial must not be used and should be returned to the pharmacy.

FUZEON contains no preservatives. Once reconstituted, FUZEON should be injected immediately or kept refrigerated in the original vial until use. Reconstituted FUZEON must be used within 24 hours. The subsequent dose of FUZEON can be reconstituted in advance and must be stored in the refrigerator in the original vial and used within 24 hours. Refrigerated reconstituted solution should be brought to room temperature before

injection and the vial should be inspected visually again to ensure that the contents are fully dissolved in solution and that the solution is clear, colorless, and without bubbles or particulate matter.

The reconstituted solution should be injected subcutaneously in the upper arm, abdomen or anterior thigh. The injection should be given at a site different from the preceding injection site and only where there is no current injection site reaction. Also, do not inject into moles, scar tissue, bruises or the navel. A vial is suitable for single use only; unused portions must be discarded (see *FUZEON Injection Instructions*).

Patients should contact their healthcare provider for any questions regarding the administration of FUZEON. Information about the self-administration of FUZEON may also be obtained by calling the toll-free number 1-877-4-FUZEON (1-877-438-9366) or at the FUZEON website, www.FUZEON.com. Patients should be taught to recognize the signs and symptoms of injection site reactions and instructed when to contact their healthcare provider about these reactions.

HOW SUPPLIED

FUZEON (enfuvirtide) for Injection is a white to off-white, sterile, lyophilized powder and it is packaged in a single-use clear glass vial containing 108 mg of enfuvirtide for the delivery of approximately 90 mg/1 mL when reconstituted with 1.1 mL of Sterile Water for Injection.

FUZEON is available in a Convenience Kit containing 60 single-use vials (2 cartons of 30 each) of FUZEON (90 mg strength), 60 vials (2 cartons of 30 each) of Sterile Water for Injection (1.1 mL per vial), 60 reconstitution syringes (3 cc), 60 administration syringes (1 cc), alcohol wipes, Package Insert, Patient Package Insert, and Injection Instruction Guide (NDC 0004-0380-39).

Storage Conditions

Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

Reconstituted solution should be stored under refrigeration at 2° to 8°C (36° to 46°F) and used within 24 hours.

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Information for Patients and Caregivers (New as of Month/Year)



FUZEON® (few'-zee-on)

Generic Name: enfuvirtide (en-few'-ver-tide) for Injection

R_x only

WHAT IS FUZEON?

DOES FUZEON CURE HIV AND AIDS?

DOES FUZEON LOWER THE CHANCE OF PASSING HIV TO OTHER PEOPLE?

WHO SHOULD NOT USE FUZEON?

HOW SHOULD I USE FUZEON?

WHAT SHOULD I AVOID WHILE USING FUZEON?

WHAT ARE THE POSSIBLE SIDE EFFECTS OF FUZEON?

HOW IS FUZEON STORED?

GENERAL INFORMATION ABOUT THE SAFE AND EFFECTIVE USE OF FUZEON

WHAT ARE THE INGREDIENTS IN FUZEON?

WHERE CAN I GET MORE INFORMATION ABOUT FUZEON?

CHANGES SINCE THE LAST VERSION OF THIS LEAFLET

This leaflet contains important information for patients and their caregivers about FUZEON. Please read this leaflet and FUZEON *Injection Instructions* carefully before you start using FUZEON. Always read the section “*Changes since the last version of this leaflet*” at the end of this leaflet each time you get your FUZEON prescription refilled. There may be new important information about the use of FUZEON.

This information does not take the place of talking with your healthcare provider about your medical conditions or treatment.

What is FUZEON?

FUZEON is a medicine called an HIV (human immunodeficiency virus) fusion inhibitor. FUZEON is always used with other anti-HIV medicines to treat adults and children ages 6 years and older with HIV infection.

FUZEON blocks HIV's ability to infect healthy CD4 cells. When used with other anti-HIV medicines, FUZEON can reduce the amount of HIV in the blood and increase the number of CD4 cells. This may keep your immune system healthy, so it can help fight infection.

Does FUZEON cure HIV and AIDS?

FUZEON does not cure HIV infection or AIDS. People taking FUZEON may still get opportunistic infections or other conditions that can happen with HIV infection. **For these reasons it is very important that you remain under the care of your healthcare provider while taking FUZEON.**

Does FUZEON lower the chance of passing HIV to other people?

FUZEON does not lower your chance of passing HIV to other people through unprotected sex, sharing needles or being exposed to your blood. For your own health and the health of others, it is important to continue to practice safer sex. Use a latex or polyurethane condom or other barrier method to lower the chance of sexual contact with semen, vaginal secretions or blood. Never use dirty needles or share needles. Ask your healthcare provider if you have any questions about safer sex or how to prevent passing HIV to other people.

Who should not use FUZEON?

Do not use FUZEON if you are allergic to any of the ingredients in FUZEON. See the end of this leaflet for a list of ingredients in FUZEON.

Tell your healthcare provider:

- **if you are pregnant or plan to become pregnant.** We do not know if FUZEON can harm your unborn child. You and your healthcare provider will need to decide if FUZEON is right for you. If you use FUZEON while you are pregnant, talk to your healthcare provider about how you can be in the Antiretroviral Pregnancy Registry.
- **if you are breast-feeding.** You should not breast-feed if you are HIV-positive because of the chance of passing the HIV virus to your baby. Also, it is not known if FUZEON can pass into your breast milk and if it can harm your baby.
- **about all your medical conditions.**
- **about all the medicines you use,** including prescription and non-prescription medicines, vitamins, and herbal supplements. FUZEON has not been tested with all medicines.

FUZEON does not affect other anti-HIV medicines or the medicine rifampin, also known as rifampicin, Rifadin[®] or Rimactane[®]). You can take FUZEON at the same times or at different times than your other anti-HIV medicines.

How should I use FUZEON?

Before you use FUZEON, make sure you understand all of the information in this leaflet and the FUZEON *Injection Instructions* that come with your medicine. You or your caregiver should be trained by a healthcare provider before injecting it. If you do not understand all the information or are having a hard time mixing or injecting FUZEON, talk with your healthcare provider.

- Use FUZEON with other anti-HIV medicines. You can take FUZEON at the same time or at a different time than your other anti-HIV medicines.
- **Do not use FUZEON as your only anti-HIV medicine.**
- FUZEON must be injected. FUZEON does not work if the medicine is swallowed.
- Do not mix other medicines in the same syringe with FUZEON.
- FUZEON is given under the skin by injection (a “shot”) in the upper arm, upper leg or stomach two times a day. See the FUZEON *Injection Instructions* that come with your medicine for step-by-step instructions about how to inject FUZEON.
- Do not inject FUZEON in the same area as you did the time before. Do not inject FUZEON into the following areas: around the navel (belly button), scar tissue, a bruise or a mole, and where there is an injection site reaction.
- Do not inject FUZEON if you see particles floating in the FUZEON vial after you mix it up.
- You can use FUZEON whether you have eaten or not. Food does not affect FUZEON. However, you must keep taking your other medicines the way you did before.
- Do not change your dose or stop taking FUZEON without first talking with your healthcare provider.
- See your healthcare provider regularly while using FUZEON.
- When your FUZEON supply runs low, be sure to have it refilled. This is very important because the amount of virus in your blood may increase if the medicine is stopped for even a short time. If you miss or skip doses of FUZEON, HIV may develop resistance to FUZEON and become harder to treat.
- If you miss a dose of FUZEON, take the missed dose as soon as you can and then take your next dose as scheduled. If you have missed a dose of FUZEON and it is close to the time when you are supposed to take your next dose, wait and take the next dose as regularly scheduled. Do not take two doses of FUZEON at the same time.
- If you take too much FUZEON, call your healthcare provider right away. We do not know what can happen if you take too much FUZEON. You will be watched very carefully if you take too much FUZEON.

- **It is important that you put your used syringes into a special sharps container after injecting FUZEON.** Your healthcare provider will give you more instructions about the safe disposal of your used syringes. **Do not put them in a trash can.** If you do not have a sharps container, call your healthcare provider or pharmacist to get one before using FUZEON.

What should I avoid while using FUZEON?

- Avoid doing anything that can spread HIV infection since FUZEON does not stop you from passing the HIV infection to others.
- Do not share needles or other injection equipment.
- Do not share personal items that can have blood or body fluids on them, like toothbrushes or razor blades.
- Do not have any kind of sex without protection. Always practice safer sex by using a latex or polyurethane condom or other barrier method to reduce the chance of sexual contact with semen, vaginal secretions or blood.
- Do not drive or operate heavy machinery if FUZEON makes you feel dizzy.

What are the possible side effects of FUZEON?

Injection site reactions

FUZEON causes injection site reactions. Almost all people get injection site reactions with FUZEON. Reactions are usually mild to moderate but occasionally may be severe. Reactions on the skin where FUZEON is injected include:

- itching
- swelling
- redness
- pain or tenderness
- hardened skin
- bumps

These reactions generally happen within the first week of FUZEON treatment and usually happen again as you keep using FUZEON. A reaction at one skin injection site usually lasts for less than 7 days.

Injection site reactions may be worse when injections are given again in the same place on the body or when the injection is given deeper than it should be (for example, into the muscle).

If you are worried about the reaction you are having, call your healthcare provider to help you decide if you need medical care. **If the injection site reaction you are having is severe, call your healthcare provider right away.** If you have an injection site reaction, you can discuss with your healthcare provider ways to help the symptoms.

An injection site can get infected. It is important to follow the FUZEON *Injection Instructions* that come with your medicine to lower your chances of getting an injection

site infection. **Call your healthcare provider right away if there are signs of infection at the injection site such as oozing, increasing heat, swelling, redness or pain.**

Pneumonia

Patients with HIV get bacterial pneumonia more often than patients without HIV. Patients taking FUZEON with other HIV medicines may get bacterial pneumonia more often than patients not receiving FUZEON. It is unclear if this is related to the use of FUZEON. **You should contact your healthcare provider right away if you have a cough, fever or trouble breathing.** Patients are more likely to get bacterial pneumonia if they had a low number of CD4 cells, increased amount of HIV in the blood, intravenous (injected into the vein) drug use, smoking or had experienced lung disease in the past. It is unclear if pneumonia is related to FUZEON.

Allergic reactions

FUZEON can cause serious allergic reactions. Symptoms of a serious allergic reaction with FUZEON can include:

- trouble breathing
- fever with vomiting and a skin rash
- blood in your urine
- swelling of your feet

Call your healthcare provider right away if you get any of these symptoms.

Other side effects

The following side effects were seen more often in patients using FUZEON with their other anti-HIV medicines than in patients not using FUZEON with their other anti-HIV medicines:

- pain and numbness in feet or legs
- loss of sleep
- depression
- decreased appetite
- sinus problems
- enlarged lymph nodes
- weight decrease
- weakness or loss of strength
- muscle pain
- constipation
- pancreas problems

These are not all the side effects of FUZEON. For more information, ask your healthcare provider or pharmacist.

If you have questions about side effects, ask your healthcare provider. **Report any new or continuing symptoms to your healthcare provider.** Your healthcare provider will tell you what to do and may be able to help you with these side effects.

How is FUZEON stored?

FUZEON vials not mixed with sterile water can be stored at room temperature (59° to 86°F). FUZEON should be refrigerated if it cannot be stored at room temperature.

The Sterile Water for Injection (diluent) may be stored at room temperature (59° to 86°F).

After FUZEON has been mixed with the sterile water, the vial can be stored in a refrigerator for up to 24 hours.

Do not use FUZEON or sterile water after the expiration date on the vials. Do not keep FUZEON that is out of date or that you no longer need.

If you have more questions about how to store FUZEON, ask to your healthcare provider or pharmacist or call 1-877-4FUZEON.

General information about the safe and effective use of FUZEON

Medicines are sometimes prescribed for conditions not mentioned in patient information leaflets. Do not use FUZEON for a condition for which it was not prescribed. Do not give FUZEON to other people, even if they have the same symptoms you have. It may harm them. **Keep FUZEON and all medicines out of the reach of children.**

This leaflet summarizes the most important information about FUZEON. If you would like more information, talk with your healthcare provider or see the section, “*Where can I get more information about FUZEON?*” in this leaflet. You can ask your healthcare provider or pharmacist for information about FUZEON that is written for health professionals.

What are the ingredients in FUZEON?

Active Ingredient: enfuvirtide

Inactive Ingredients: Mannitol, sodium carbonate, sodium hydroxide, and hydrochloric acid.

FUZEON comes packaged as a convenience kit containing the following:

- 60 vials of FUZEON (2 cartons of 30 each)
- 60 vials of Sterile Water for Injection (2 cartons of 30 each)
- syringes for mixing (3 cc)
- syringes for injecting (1 cc)
- alcohol pads

Call your healthcare provider or pharmacist if you need more supplies.

Where can I get more information about FUZEON?

The best source for more information about FUZEON is your healthcare provider. More information about FUZEON can be found at www.FUZEON.com and 1-877-4 FUZEON (1-877-438-9366).

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