Summary of Prescribing Information

ViraferonPeg® 50, 80, 100, 120 and 150 micrograms Powder and Solvent for solution for injection in prefilled pens Peointerferon alfa-2b

Prescribing Information

Refer to full Summary of Product Characteristics texts for ViraferonPeg and ribavirin (Rebetol) and boceprevir (Victrelis) when ViraferonPeg is used in combination with these medicines.

Adverse events should be reported. Reporting forms and information can be found at www. medicinesauthority.gov.mt. Adverse events should also be reported to MSD Cyprus Ltd (tel. no. 8007 4433 in Malta).

PRESENTATION

Pre-filled pen containing 50, 80, 100, 120 or 150 micrograms ViraferonPeg powder for solution for injection with solvent.

11050

Tritherapy- Treatment of chronic hepatitis C genotype 1 infection in adult patients with compensated liver disease who are previously untreated or have failed previous therapy. In combination with hepatically disputed in the previous therapy.

Adult - Chronic hepatitis C who are positive for HCV-RNA including compensated cirrhosis and/or co-inflected with stable HIV in naive patients and in patients who have failed previous treatment with interferon alpha monotherapy (pegylated or non-pegylated) or in combination with ribavirin. Optimal use is in combination with ribavirin. Monotherapy is mainly for intolerance or contraindication to ribavirin. Paediatric patients 3 years of age and older – Chronic hepatitis C in patients not previously treated, without liver decompensation in combination with ribavirin.

DOSAGE AND ADMINSTRATION

Patients may self-inject ViraferonPeg if their physician determines that it is appropriate and with medical follow-up as necessary. Treatment should be initiated and monitored by a physician experienced in treatment of hepatitis C, as a once weekly subcutaneous injection. Adults - 1.5 micrograms/kgyweck delivered in veight categories with viraferonPeg stereiths according to Table 1, in combination with ribavirii capsules, administered orally daily in two divided doses with flood (incrning and evening). Refer to the SmPC of boceprevir for details about the dose of boceprevir to administered orally inthreapy.

Table 1 Dosing for combination therap

dose adjustments are necessary in the elderly.

Body weight (kg)	ViraferonPeg		Ribavirin Capsules	
	ViraferonPeg strength (mg/0.5ml)	Administer once weekly (ml)	Total daily ribavirin dose (mg)	Number of capsules (200 mg)
< 40	50	0.5	800	4º
40-50	80	0.4	800	4°
51-64	80	0.5	800	4°
65-75	100	0.5	1,000	5⁵
76-80	120	0.5	1,000	5⁵
81-85	120	0.5	1,200	6°
> 86-105	150	0.5	1,200	6°
> 105	150	0.5	1.400	74

a: 2 morning, 2 evening b: 2 morning, 3 evening c: 3 morning, 3 evening d: 3 morning, 4 evening

Duration of treatment. Tritherapy - refer to the SmPC for boceprevir and ribavirin for details.

1: Patients who fail to achieve undectable HCV-RNA or adequate virological response at week 4 or

12 are highly unlikely to achieve SVR. Evaluate for discontinuation. Patients who have undectable HCV-RNA at week 12, continue for another nine months (total 48 weeks). Reassess patients at week 24 with detectable but = 2 log decrease in HCV-RNA level from baseline at treatment

week 12. If HCV-RNA is undetectable, continue a total of 48 weeks. If still detectable at week 24

consider discontinuation of therapy. In a subset of patients with low viral load (<600,000 IU/ml) or continued for an additional 24 weeks. The 24 week treatment may be associated with a higher relanse risk. Genotypes 2 or 3: Treatment for 24 weeks. Treat HCV/HIV co-infected patients for 48 weeks. Genotype 4: Generally harder to treat. Data suggest compatibility with Genotype 1 posology. HCV/HIV co-infection: Treat for 48 weeks, regardless of genotype, Duration of treatment Retreatment Predictability of SVR: Patients who do not achieve virological response at week 12 are unlikely to achieve SVR after 48 weeks. Paediatric 3 years of age and older - Dosing is etermined by body surface area for ViraferonPeg at 60 mg/m²/week subcutaneously and by body veight for ribavirin at 15 mg/kg/day orally in two divided doses with food (morning and evening). Duration of treatment Genotyne 1: Treat for 1 year Data on standard interferon showed that children who do not achieve response at 12 weeks are highly unlikely to achieve SVR. Therefore, iscontinue treatment if week 12 HCV-RNA drop is < 2 log₁₀ compared to pretreatment or if it is detectable at week 24. Genotype 2 or 3: Treat for 24 weeks. Genotype 4: As for genotype 1 Manatherany-Adults: 0.5 or 1.0 micrograms/kg/week (see SPC for quidance on volume adjustment) If there is virological response at week 12, continue treatment for at least another three months (total of six months), and up to one year depending on prognostic factors (e.g. genotype, age > 40, male, bridging fibrosis). Dose modification for all patients: If severe adverse reactions or laboratory abnormalities develop during treatment, dosages of ViraferonPeg and/or ribavirin must be modified until the adverse reactions abate. Dose should be reduced or stopped if haemoglobin, neutrophil or platelet count or renal function falls below threshold levels or elevation of ALT and AST above threshold. Please see SPC for thresholds and dose reduction regimens. Do not use if creatinine clearance is <50ml/minute. Monitor patients with impaired renal function for anaemia. Does not use in cases of severe hepatic dysfunction. There are no apparent age-related differences and so no

CONTRAINDICATION

Hypersensitivity to active substance, any interferon or excipients; autoimmune heaptilis or history of autoimmune disease; pre-existing cardiac disease, thyroid disease not maintained by therapy, severe hepatic dysfunction or decompensated crimoss of the liver; other severe, debilitating medical conditions; epilepsy or compromised CNS function; HCVHIV patients with crimosis and a Child-Pulp score e.g. combination with telibivuline; patients with rare hereditary problems of fructose intolerance, glucose galactose malabsorption or sucrase-isomaltase insufficiency. Paediatric patients: Existence of, or history of severe psychiatric condition, particularly severe depression, suicidal ideation or suicidal attempt.

PRECAUTIONS AND WARNING

Severe CNS effects, particularly depression, suicidal ideation and attempted suicide have been observed in some patients, both during treatment and in months after Other CNS effects including aggressive behaviour, bipolar disorders, mania, confusion and alterations of mental status have been observed with alpha interferons. Monitor patients for psychiatric disorders. If symptoms persist or worsen, or suicidal ideation is identified, stop treatment. Only consider treatment in patients with existing or a history of severe psychiatric conditions after management of the condition. The use of Wiraferon/Peg in children and adolescents with existence of or history of severe psychiatric conditions is contraindicated. Viraferon/Peg should not be used as long term maintenance therapy. During treatment for up to 49 weeks in patients aged 3 to 17 years, weight loss and growth inhibition were common, or if possible treatment should be after the pubertal growth spurt. There are no data on long term effects on sexual maturations.

More significant obtundation and coma, including cases of encephalopathy, have been observed usually in the elderly, treated at higher doses for oncology indications. All patients in the selected chronic hepatitis C studies had a liver biopsy before inclusion therefore current treatment quidelines should be consulted as to whether it is needed before prior to treatment. Barely, acute hypersensitivity reactions (e.g., urticaria, angioedema, bronchoconstriction, anaphylaxis) have been observed, Discontinue, Monitor patients with a history of congestive heart failure, myocardia infarction and/or previous or current arrhythmic disorders. There are no data in children or adolescents with a history of cardiac disease. Discontinue treatment if prolongation of coagulation markers develops. Pyrexia may be associated with the common flu-like syndrome, however rule out other causes of persistent pyrexia. Maintain adequate hydration as hypotension may occur. Pulmonary infiltrates pneumonitis and pneumonia occasionally resulting in fatality have been observed rarely. Development of auto-antibodies and autoimmune disorders has been reported Patients predisposed to the development of autoimmune disorders may be at increased risk. Vogt Kovanagi-Harada (VKH) syndrome have been reported. Ophthalmologic disorders, including retina haemorrhages, retinal exudates and retinal artery or vein occlusion have occurred. Patients should have baseline eve examination and periodic visual examinations during therapy. Infrequently, adult have developed thyroid abnormalities. Monitor children and adolescents every 3 months for thyroid dysfunction. Hypertriglyceridemia and aggravation of hypertriglyceridemia, sometimes severe, have been observed. Monitor lipid levels

Patients with HIV co-infection receiving HAART therapy may be at increased risk of developing actic acidosis. Do not use concomitantly with zidovudine. Patients with a co-incurring substance use disorder are at an increased risk of developing psychiatric disorders. Prior to initiating therapy and during therapy patients should be closely monitored. Combination with telibivudine is associated with an increased risk of developing peripheral neuropathy. No safety or efficacy has been demonstrated when combining interferons with telibivudine. Combination with telibivudine is associated with an increased risk of developing peripheral neuropathy. No safety or efficacy has been demonstrated when combining interferons with telibivudine. Co-infected patients with advanced cirrinosis may be at increased risk of hepatin decompensation and death. Dertal disorder have been seen. Advice patients to brush teeth twice daily and see a dentist regularly. Use in patients with psoriasis or sacrodiosis only if the benefit justifies the risk. Perform haematologicical, blood chemistry and a test of thryoid function prior to initiating treatment. Measure HCV-RNA periodically during treatment. The product contains less than 1 mmol sodium (23mg) per 0.7 ml. i.e. essentially "sodium free".

Caution is advised during co-administration with medicines metabolised by CYP206 and CYP2C8/9, especially those with a narrow therapeutic window, such as warfarin, phenytoin and flecainide. Monitor patients on stable methadone maintenance therapy.

PREGNANCY AND LACTATIO

Use only if the benefit justifies the risk. Do not use combination therapy with ribavirin. Use in women only with effective contraception. Discontinue nursing before treatment.

SIDE EFFECT

Refer to SmPC for complete information on side effects

The most common adverse effects with incidence of > 10%, reported in adults and paediatric patients include injection site inflammation and reaction, fatigue, rigors, "flu-like" illness, asthenia, dizziness, headache, dry mouth, weight decreased, naussa, chills, annoraxia, anaemia, neutropenia, pyrexia, pain, malaise, diarnhoea, abdominal pain, vomiting, myadiga, arthralgia, musculoskeletal pain, depression, tritability, insomina, anxiety, consentation imparied, emotional lability, alopecia, prurtis, dry skin, rash, viral infection, pharyngitis, dyspnoea and cough. Additionally in children and paediatric patients the most common adverse effects include suicidal ideation, suicide attempt and growth rate decrease (height and/or weight decrease for age).

Package Quantities and EU Marketing Authorisation Numbers 1 pen 50 mcg; EU/1/00/132/031, 1 pen 80 mcg; EU/1/00/132/033

1 pen 100 mcg EU/1/00/132/039, 1 pen 120 mcg: EU/1/00/132/043, 1 pen 150 mcg: EU/1/00/132/043, 1 pen 150 mcg:

LEGAL CATEGORY: POM

MARKETING AUTHORISATION HOLDER: Merck Sharp & Dohme Limited, Hertford Road, Hoddesdon Hertfordshire, EN11 9BU, United Kingdom.

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How to Use VIRAFERON CLEARCLICK"

Getting to Know Your VIRAFERON CLEARCLICK™

- Be sure to read and understand ALL instructions before you begin. Contact your health care provider's office if you have any questions about using your VIRAFERON CLEARCLICK™ or your prescribed dose.
- Store the VIRAFERON CLEARCLICK™ in a refrigerator (2°C-8°C). Do not freeze. Use the reconstituted solution (solution you prepared by mixing the powder and the liquid in the prefilled pen) immediately or within 24 hours when stored in a refrigerator (2°C-8°C).
- Keep this medicine out of the sight and reach of children.

Getting Ready

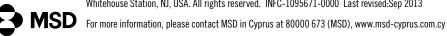
- Find a well-lit, clean, flat work surface such as a table.
- Take the prefilled device out of the refrigerator. Look at the date printed on the carton to make sure that the expiration date has not passed. Do not use if the expiration date has passed.
- Lay the prefilled pen on a flat, clean surface and wait a few minutes until it reaches room temperature.
- Wash your hands well with soap and warm water.
 Keep your work area, your hands, and the injection site clean to decrease the risk of infection.



Provided as an educational resource by MSD.

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For more information about treatment with VIRAFERON, read the package leaflet or contact your doctor or pharmacist.



Viraferon Clearclick

How to Use VIRAFERON CLEARCLICK™



Place this end on level surface.

Needle with protective cap



1 Mix the Medicine



• TURN DIAL to number 1. You may hear a "click" sound.



W. W.

DO NOT SHAKE TO MIX.

- GENTLY TURN device upside down 2 times to mix.
- Look in the window. The solution should be clear and colorless before use. Do not use if it is discolored or if particles are present.

2 Add the Needle

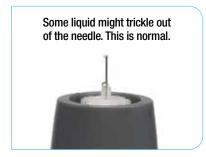


- TURN DIAL to number 2. You may hear a "click" sound.
- WIPE DEVICE where needle attaches with an alcohol swab.



 REMOVE yellow paper from needle cap before attaching to device.





- SUPPORT DEVICE in UPRIGHT POSITION and PUSH NEEDLE straight down firmly.
- REMOVE needle cap.

3 Dial the Dose



 TURN DIAL to YOUR PRESCRIBED DOSE.
 You may hear "clicking" sounds as you dial.



 AS DOSE IS DIALED, the needle shield will automatically SNAP UP. You may dial up or down to any dose prior to injection.

Ready to Inject

- CHOOSE an injection site on your stomach or thigh.
- AVOID your belly button (navel) and waistline. If you are very thin, you should only use the thigh for injection. Remember to use a different site each time you inject. Do not inject VIRAFERON into an area where the skin is irritated, red, bruised, infected, or has scars, stretch marks, or lumps.
- WIPE injection site with alcohol swab.
 Let the skin air dry.





- PINCH a fold of loose skin in the area you have cleaned for injection.
- PRESS device against skin. The shield will glide back to allow needle to inject medication.
- HOLD DEVICE AGAINST SKIN FOR 15 SECONDS. You may hear "clicking" during this step, which lets you know that the medicine is being delivered.

Note: once VIRAFERON CLEARCLICK™ is removed from skin, the needle shield will lock in place.

Disposal

 You should dispose of the used VIRAFERON CLEARCLICK™ in a punctureproof sharps container. Local disposal rules vary—check with your local health department, pharmacist, or hospital.