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TENOFENVIR DISOPROXIL FUMARATE TABLETS

2014721

Space for 2D Code

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use TENOFENVIR DISOPROXIL FUMARATE TABLETS safely and effectively. See full prescribing information for TENOFENVIR DISOPROXIL FUMARATE TABLETS.

TENOFENVIR DISOPROXIL FUMARATE TABLETS, for oral use Initial U.S. Approval: 2001

WARNING: POSTTREATMENT EXACERBATION OF HEPATITIS Severe acute exacerbations of hepatitis have been reported in HIV-infected patients who have discontinued anti-hepatitis B therapy, including tenofovir disoproxil fumarate tablets. Hepatic function should be monitored closely in these patients. If appropriate, resumption of anti-hepatitis B therapy may be warranted. (5.1)

RECENT MAJOR CHANGES Indications and Usage (1.1) 04/2017 Bowed Warnings/Lactation/Severe Hepatotoxicity with Stomatitis Removed 04/2017 Warnings and Precautions, Lactic Acidosis/Severe Hepatotoxicity with Stomatitis (5.3) 04/2017 Warnings and Precautions, Coadministration with Other Products (5.4) 04/2017 Warnings and Precautions, Fat Redistribution Removed 04/2017

INDICATIONS AND USAGE TENOFENVIR DISOPROXIL FUMARATE TABLETS are a nucleoside analog HIV-1 reverse transcriptase inhibitor and an HIV reverse transcriptase inhibitor. TENOFENVIR DISOPROXIL FUMARATE TABLETS are indicated in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and pediatric patients 2 years of age and older. (1)

DOSEAGE AND ADMINISTRATION Recommended dose for the treatment of HIV-1 or chronic hepatitis B in adults and pediatric patients 12 years of age and older (35 kg or more): 300 mg once daily taken orally with regard to food. (2.1)

DOSEAGE FORMS AND STRENGTHS Tablets: 300 mg (3)

CONTRAINDICATIONS None (4)

FULL PRESCRIBING INFORMATION: CONTENTS WARNING: POSTTREATMENT EXACERBATION OF HEPATITIS 1. INDICATIONS AND USAGE 1.1 Chronic Hepatitis B 2. DOSAGE AND ADMINISTRATION 2.1 Recommended Dose in Adults and Pediatric Patients 12 Years of Age and Older (35 kg or more) 2.2 Recommended Dose in Pediatric Patients 2 Years to Less than 12 Years of Age 3. DOSAGE FORMS AND STRENGTHS 4. CONTRAINDICATIONS 5. WARNINGS AND PRECAUTIONS 5.1 Exacerbation of Hepatitis after Discontinuation of Treatment 5.2 New Onset or Worsening Renal Impairment 5.3 Lactic Acidosis/Severe Hepatotoxicity with Stomatitis 5.4 Coadministration with Other Products 5.5 Patients Concomitant with HIV-1 and HBV 5.6 Bone Effects 5.7 Immune Reconstitution Syndrome 5.8 Early Virologic Failure 6. ADVERSE REACTIONS 6.1 Adverse Reactions from Clinical Trials Experience 6.2 Postmarketing Experience 7. DRUG INTERACTIONS 7.1 Drug Interactions

WARNINGS AND PRECAUTIONS

New onset or worsening renal impairment: Can include acute renal failure and Fanconi syndrome. Assess estimated creatinine clearance before initiating treatment with tenofovir disoproxil fumarate tablets. In patients at risk for renal dysfunction, assess estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein before initiating treatment with tenofovir disoproxil fumarate tablets and periodically during treatment. Avoid administering tenofovir disoproxil fumarate tablets with concurrent or recent use of nephrotoxic drugs. (5.2) Lactic acidosis/severe hepatotoxicity with stomatitis: Discontinue treatment in patients who develop symptoms or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity. (5.3) Coadministration with other products: Do not use with other tenofovir-containing products (e.g., ATRIPLA, COMPLERA, DESOXY, GENVOYA, DEFSERV, STRIBILU, TRUVADA, or VEMLIDY). Do not administer in combination with HEPSERA. (5.4) HIV testing: HIV antibody testing should be offered to all HIV-infected patients before initiating therapy with tenofovir disoproxil fumarate tablets. Tenofovir disoproxil fumarate tablets should be used as part of an appropriate antiretroviral combination regimen in HIV-infected patients with or without HIV coinfection. (5.5) Decreases in bone mineral density (BMD): Consider assessment of BMD in patients with a history of pathologic fracture or other risk factors for osteoporosis or bone loss. (5.6) Immune reconstitution syndrome: Observed in HIV-infected patients. May necessitate further evaluation and management. (5.7) Triple nucleoside-only regimen: Early virologic failure has been reported in HIV-infected patients. Monitor carefully and consider treatment modification. (5.8)

ADVERSE REACTIONS In HIV-infected adult patients (incidence greater than or equal to 10%, Grades 2 to 4) are rash, headache, paresthesia, pain, depression, asthenia, and nausea. (6.1) In HIV-infected subjects with compensated liver disease: Most common adverse reaction (all grades) was nausea (9%). (6.1) In non-HIV-infected subjects: Adverse reactions in pediatric subjects were consistent with those observed in adults. (6.1) In HIV-infected subjects with decompensated liver disease: Most common adverse reactions (incidence greater than or equal to 10%, all grades) were abdominal pain, nausea, insomnia, pruritus, vomiting, dizziness, and dyspepsia. (6.1)

DRUG INTERACTIONS Didanosine: Coadministration increases didanosine concentrations. Use with caution and monitor for evidence of didanosine toxicity (e.g., pancreatitis, neuropathy). Consider dose reductions or discontinuations of didanosine if warranted. (5.4) Nevirapine: Nevirapine decreases atazanavir concentrations and increases tenofovir concentrations. When coadministered with tenofovir disoproxil fumarate tablets, use atazanavir given with food. (5.4) Ritonavir: Ritonavir increases tenofovir concentrations. Monitor for evidence of tenofovir toxicity. (7.2)

USE IN SPECIFIC POPULATIONS Nursing mothers: Women infected with HIV should be instructed not to breastfeed. (8.3) See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 01/2018

Table 5: Grades 3 to 4 Laboratory Abnormalities Reported in >1% of Tenofovir disoproxil fumarate-Treated Subjects in Study 903 (0 to 144 Weeks)

Changes in Bone Mineral Density: In HIV-1 infected adult subjects in Study 903, there was a significantly greater mean percentage decrease from baseline in BMD at the lumbar spine in subjects receiving tenofovir disoproxil fumarate tablets + lamivudine + efavirenz (n = 33) compared with subjects receiving stavudine + lamivudine + efavirenz (n = 146) through 144 weeks. Changes in BMD at the hip were similar between the two treatment groups (2.8% ± 1.3 in the tenofovir disoproxil fumarate tablets group vs -2.4% ± 4.5 in the stavudine group). In both groups, the majority of the decrease in BMD was at the spine and at the hip. Clinically relevant fractures (excluding fingers and toes) were reported in 4 subjects in the tenofovir disoproxil fumarate tablets group and 3 subjects in the stavudine group. In addition, there were significant increases in biochemical markers of bone metabolism (serum bone-specific alkaline phosphatase, serum osteocalcin, serum C-telopeptide, and urinary N-telopeptide) and higher serum parathyroid hormone levels and 1,25 Vitamin D levels in the tenofovir disoproxil fumarate tablets group compared with the stavudine group. However, except for bone-specific alkaline phosphatase, these changes resulted in values that remained within the normal range. (See Warnings and Precautions (5.6))

Table 6: Selected Treatment-Emergent Adverse Reactions (Grades 2 to 4) Reported in >5% in Any Treatment Group in Study 934 (0 to 144 Weeks)

Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. B. From Week 48 to 144 of the trial, subjects received TRUVADA with efavirenz in place of tenofovir disoproxil fumarate tablets + lamivudine + efavirenz. C. Rash event includes rash, exfoliative rash, rash generalized, rash macular, rash maculopapular, rash pruritic, and rash vesicular. Laboratory Abnormalities: Laboratory abnormalities observed in this trial were generally consistent with those seen in clinical trials.

Significant Laboratory Abnormalities Reported in >1% of Subjects in Any Treatment Group in Study 934 (0 to 144 Weeks)

Table 7: Significant Laboratory Abnormalities Reported in >1% of Subjects in Any Treatment Group in Study 934 (0 to 144 Weeks)

Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. D. From Week 48 to 144 of the trial, subjects received TRUVADA with efavirenz in place of tenofovir disoproxil fumarate tablets + lamivudine + efavirenz. E. Rash event includes rash, exfoliative rash, rash generalized, rash macular, rash maculopapular, rash pruritic, and rash vesicular. Laboratory Abnormalities: Laboratory abnormalities observed in this trial were generally consistent with those seen in clinical trials.

Selected Treatment-Emergent Adverse Reactions (Grades 2 to 4) Reported in >3% in Any Treatment Group in Study 907 (0 to 48 Weeks)

Table 8: Selected Treatment-Emergent Adverse Reactions (Grades 2 to 4) Reported in >3% in Any Treatment Group in Study 907 (0 to 48 Weeks)

Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. P. Rash event includes rash, pruritus, maculopapular rash, urticaria, vesiculobullous rash, and pustular rash. Laboratory Abnormalities: Laboratory abnormalities observed in this trial occurred with similar frequency in the tenofovir disoproxil fumarate tablets and placebo-treated groups. A summary of Grades 3 to 4 laboratory abnormalities is provided in Table 5.

Grades 3 to 4 Laboratory Abnormalities Reported in >1% of Tenofovir disoproxil fumarate-Treated Subjects in Study 907 (0 to 48 Weeks)

Table 9: Grades 3 to 4 Laboratory Abnormalities Reported in >1% of Tenofovir disoproxil fumarate-Treated Subjects in Study 907 (0 to 48 Weeks)

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Selected Treatment-Emergent Adverse Reactions (Grades 2 to 4) Reported in >5% in Any Treatment Group in Study 903 (0 to 144 Weeks)

Table 4: Selected Treatment-Emergent Adverse Reactions (Grades 2 to 4) Reported in >5% in Any Treatment Group in Study 903 (0 to 144 Weeks)

Frequency of adverse reactions are discussed in other sections of the labeling: A. Severe Acute Exacerbation of Hepatitis (See Warnings and Precautions (5.1)). B. New Onset or Worsening Renal Impairment (See Warnings and Precautions (5.2)). C. Lactic Acidosis/Severe Hepatotoxicity with Stomatitis (See Warnings and Precautions (5.3)). D. Bone Effects (See Warnings and Precautions (5.6)). E. Immune Reconstitution Syndrome (See Warnings and Precautions (5.7)).

Adverse Reactions from Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Immune Reconstitution Syndrome Immune reconstitution syndrome has been reported in HIV-infected patients treated with combination antiretroviral therapy, including tenofovir disoproxil fumarate tablets. During the initial phase of combination antiretroviral treatment, patients whose immune system responds may experience an inflammatory response to opportunistic infections (such as Mycobacterium avium infection, cytomegalovirus, Pneumocystis jirovecii pneumonia (PCP), or tuberculosis), which may necessitate further evaluation and treatment.

Autism Spectrum Disorders (ASDs) Autism spectrum disorders (ASDs) have also been reported in children in the setting of immune reconstitution; however, the time to onset is more variable, and can occur many months after initiation of treatment.

Early Virologic Failure Clinical trials in HIV-infected subjects have demonstrated that certain regimens that only contain two nucleoside reverse transcriptase inhibitors (NRTI) are generally less effective than triple drug regimens containing two NRTIs in combination with either a non-nucleoside reverse transcriptase inhibitor or a HIV-1 protease inhibitor. In particular, early virologic failure and high rates of resistance substitutions have been reported. Triple nucleoside regimens should therefore be used with caution. Patients on a regimen utilizing a triple nucleoside-only regimen should be carefully monitored and considered for treatment modification.

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Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. B. From Week 48 to 144 of the trial, subjects received TRUVADA with efavirenz in place of tenofovir disoproxil fumarate tablets + lamivudine + efavirenz. C. Rash event includes rash, exfoliative rash, rash generalized, rash macular, rash maculopapular, rash pruritic, and rash vesicular. Laboratory Abnormalities: Laboratory abnormalities observed in this trial were generally consistent with those seen in clinical trials.

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Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. AJ. From Week 48 to 144 of the trial, subjects received TRUVADA with efavirenz in place of tenofovir disoproxil fumarate tablets + lamivudine + efavirenz. AK. Rash event includes rash, exfoliative rash, rash generalized, rash macular, rash maculopapular, rash pruritic, and rash vesicular. Laboratory Abnormalities: Laboratory abnormalities observed in this trial were generally consistent with those seen in clinical trials.

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Frequency of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. BN. From Week 48 to 144 of the trial, subjects received TRUVADA with efavirenz in place of tenofovir disoproxil fumarate tablets + lamivudine + efavirenz. BO. Rash event includes rash, exfoliative rash, rash generalized, rash macular, rash maculopapular, rash pruritic, and rash vesicular. Laboratory Abnormalities: Laboratory abnormalities observed in this trial were generally consistent with those seen in clinical trials.

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