VEMLIDY — proven results for the moments that matter

Established efficacy and safety across a broad range* of adult chronic HBV patients with compensated liver disease



INDICATION

VEMLIDY is indicated for the treatment of chronic hepatitis B virus (HBV) infection in adults with compensated liver disease.

IMPORTANT SAFETY INFORMATION

BOXED WARNING: POSTTREATMENT SEVERE ACUTE EXACERBATION OF HEPATITIS B

 Discontinuation of anti-hepatitis B therapy, including VEMLIDY, may result in severe acute exacerbations of hepatitis B. Hepatic function should be monitored closely with both clinical and laboratory follow-up for at least several months in patients who discontinue anti-hepatitis B therapy, including VEMLIDY. If appropriate, resumption of anti-hepatitis B therapy may be warranted.

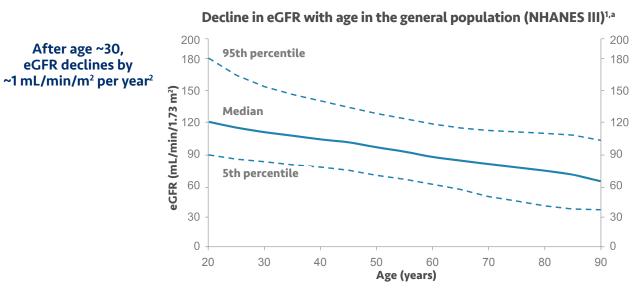
Click here for full Prescribing Information for VEMLIDY, including **BOXED WARNING** on posttreatment severe acute exacerbation of hepatitis B.

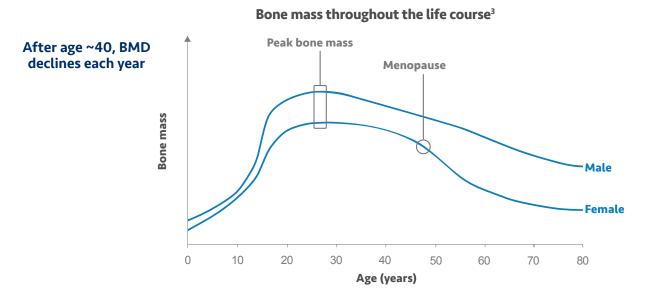


^{*}Click here for the baseline characteristics of the broad range of patients in the VEMLIDY trials.

It's important to consider renal and bone risk factors when managing your CHB patients

Renal function and bone density may decline over time in the general population due to various factors.





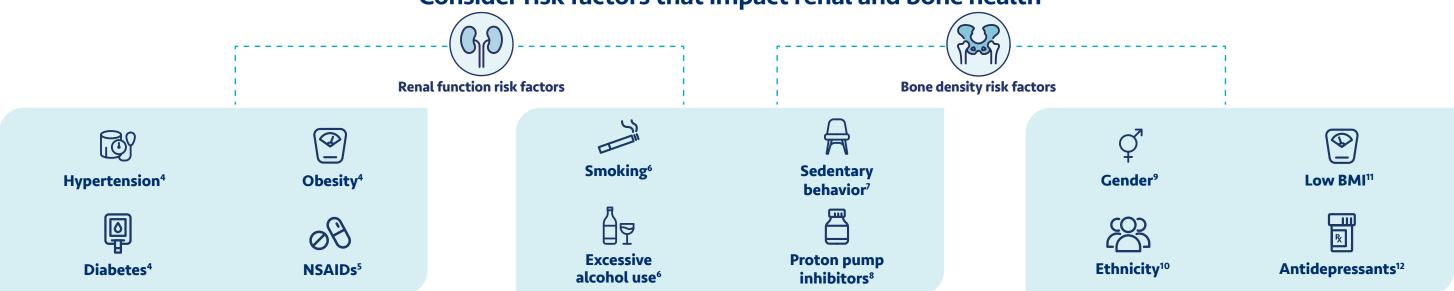
^aPercentiles of eGFR regressed on age (NHANES III). GFR estimated from serum creatinine clearance using Modification of Diet in Renal Disease (MDRD) study equation based on age, gender, and race. Age ≥20; N=15,600.²

In addition, patients with CHB have a higher prevalence of chronic kidney disease and osteoporosis and/or bone fracture than uninfected patients^{4,b}

1.7×-3.5× higher prevalence of chronic kidney disease^{4,b}

Up to 1.7× higher prevalence of osteoporosis and/or bone fracture^{4,b}

Consider risk factors that impact renal and bone health



^bRetrospective, observational study with case matching of CHB patients without hepatitis D virus coinfection, based on U.S. administrative healthcare claims from Commercial/Medicare (n=32,523) and Medicaid (n=11,503) databases from 2006 to 2015.⁴

Choose a CHB treatment with long-term bone and renal health in mind

VEMLIDY—the latest innovation from Gilead's long legacy and commitment to chronic HBV

For over 20 years, Gilead has revolutionized chronic HBV treatment, helping countless patients along the way¹³⁻¹⁸

Timeline of all FDA-approved oral antiviral treatments for chronic hepatitis B¹³⁻¹⁸



With over 8 years of experience¹⁹

FDA-approved in 2016, VEMLIDY is the latest treatment from Gilead with 8 years of experience treating adult chronic HBV patients with compensated liver disease.^{13,18,19}

^aNon-Gilead product.



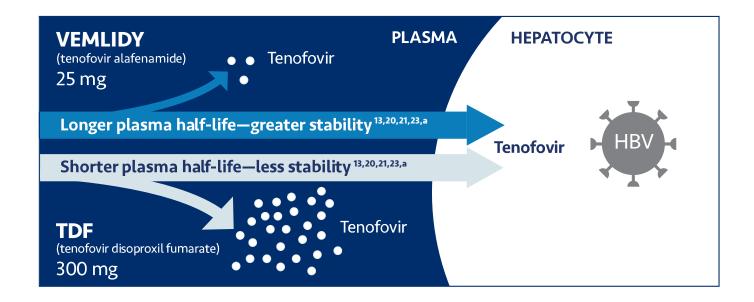
IMPORTANT SAFETY INFORMATION

Warnings and Precautions

- Risk of Development of HIV-1 Resistance in HBV/HIV-1 Coinfected Patients: Due to this risk, VEMLIDY alone should not be used for the treatment of HIV-1 infection. Safety and efficacy of VEMLIDY have not been established in HBV/HIV-1 coinfected patients. HIV antibody testing should be offered to all HBV-infected patients before initiating therapy with VEMLIDY, and, if positive, an appropriate antiretroviral combination regimen that is recommended for HBV/HIV-1 coinfected patients should be used.
- New Onset or Worsening Renal Impairment: Postmarketing cases of renal impairment, including acute renal failure, proximal renal tubulopathy (PRT), and Fanconi syndrome have been reported with TAF-containing products. Patients with impaired renal function and/or taking nephrotoxic agents (including NSAIDs) are at increased risk of renal-related adverse reactions. Discontinue VEMLIDY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome. Monitor renal function in all patients See Dosage and Administration.
- Lactic Acidosis and Severe Hepatomegaly with Steatosis: Fatal cases have been reported with the use of nucleoside analogs, including tenofovir disoproxil fumarate (TDF). Discontinue VEMLIDY if clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity develop, including hepatomegaly and steatosis in the absence of marked transaminase elevations.

VEMLIDY optimizes tenofovir delivery to the hepatocyte

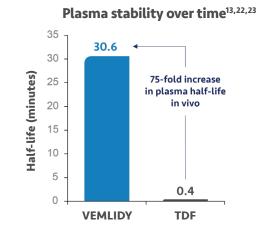
VEMLIDY demonstrates enhanced plasma stability vs TDF for more efficient delivery of tenofovir to hepatocytes^{13,18,20-24}

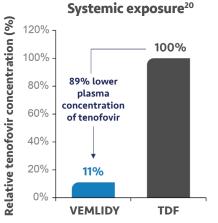


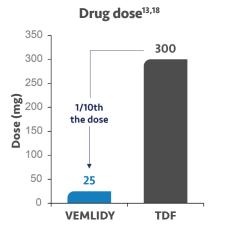
89%

Lower concentrations of tenofovir in the plasma with VEMLIDY vs TDF, resulting in reduced systemic exposure^{20,23}

VEMLIDY offers increased drug stability with reduced systemic exposure and a lower dose^{13,18,20-24}









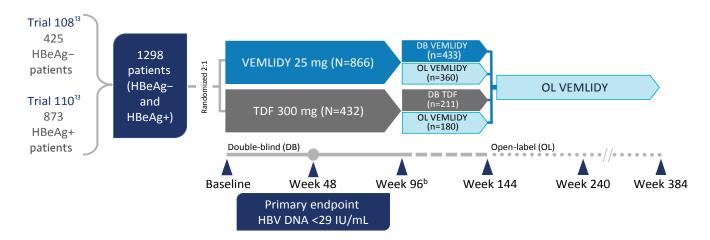
TDF=tenofovir disoproxil fumarate.

^aPlasma half-life: VEMLIDY=30.6 minutes (0.51 hour)¹; TDF=0.41 minutes. ^{13,18,23}

The efficacy and safety of VEMLIDY were evaluated in two large, clinical trials^{13,19}

~75% of patients in pivotal Trials 108/110 were treatment naïve¹⁹

The efficacy and safety of VEMLIDY in the treatment of adults with CHB infection with compensated liver disease are based on data from 2 randomized, double-blind, active-controlled, noninferiority trials. 13,20,25,a



^aKey inclusion criteria: HBV DNA ≥20,000 IU/mL; alanine aminotransferase (ALT) >60 U/L (males) or >38 U/L (females) and ≤10× upper limit of normal (ULN) by central laboratory range. ^{13,20,25}

^bThe numbers of patients listed after Week 96 refer to those who entered the open-label phase or remained in the double-blind phase, and exclude patients who prematurely discontinued double-blind study treatment by Week 96.¹⁹

The primary endpoint for both studies was HBV DNA <29 IU/mL and noninferiority to TDF (10% margin; 95% confidence interval [CI] approach) at Week 48.^{13,20,25}

- Additional efficacy endpoints evaluated at Week 48, Week 96, and Week 144 for both trials included the
 proportion of patients with HBV DNA <29 IU/mL, ALT normalization, and hepatitis B surface antigen
 (HBsAg) loss and seroconversion. Hepatitis B e antigen (HBeAg) loss and seroconversion were
 also assessed in Trial 110^{13,20,25}
- The original protocol was amended to extend the double-blind phase from 96 weeks to 144 weeks. ²⁶ However, before implementation of the protocol amendment, 540 patients entered the open-label phase at Week 96 (n=360 remained on VEMLIDY and n=180 switched from TDF to VEMLIDY)¹⁹
- At Week 144, all 1137 remaining HBeAg- and HBeAg+ patients (out of the original 1298) entered the open-label VEMLIDY phase through Week 384¹⁹
- The 8-year analysis is not presented in the VEMLIDY full Prescribing Information

Characteristics of the patients in Trials 108 and 110

	Pooled population		
Baseline characteristics 13,19	VEMLIDY (n=866)	TDF (n=432)	
Mean age, y (range)	40 (18-80)	41 (18-72)	
Male, n (%)	544 (63)	275 (64)	-
Asian, n (%)	687 (79)	333 (77)	
HBV genotype A, B, C, D, %	6, 18, 48, 26	7, 20, 46, 24	-
Mean HBV DNA, log ₁₀ IU/mL (range)	7.0 (1.8-9.9)	7.0 (1.4-9.9)	
Median ALT, U/L (Q1, Q3)	80 (56, 123)	80 (53, 130)	
History of cirrhosis, n (%) ^a	65/636 (10)	38/326 (12)	~75% of the
Treatment naïve, n (%)	655 (76)	324 (75)	patients were
Prior oral antiviral therapy, n (%) ^b			treatment naïve
Entecavir	109 (13)	49 (11)	
Lamivudine	86 (10)	40 (9)	
Adefovir dipivoxil	35 (4)	14 (3)	
Telbivudine	21 (2)	12 (3)	
Other ^c	14 (2)	6 (1)	- 30% to 40% of
Hip BMD osteopenia or osteoporosis, n (%)	268 (31)	133 (31)	the patients were
Spine BMD osteopenia or osteoporosis, n (%)	366 (42)	181 (42)	osteopenic or
			osteoporotic

Treatment-naïve patients had <12 weeks of previous treatment with any nucleoside/nucleotide analog.

Treatment-experienced patients met all entry criteria (including HBV DNA ≥20,000 IU/mL and serum ALT criteria) and had ≥12 weeks of previous treatment with any nucleoside/nucleotide analog.

c"Other" category included clevudine, tenofovir alafenamide, and other oral nucleos(t)ide agents.¹⁹





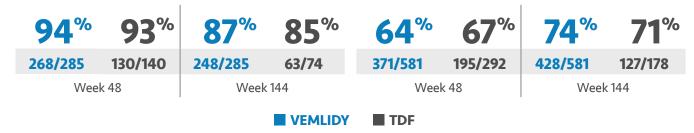
^aExcludes patients with missing values.¹⁹

^bExcluding interferon and TDF.¹⁹

VEMLIDY—confidence in proven efficacy

VEMLIDY demonstrated powerful antiviral efficacy with viral suppression at Weeks 48, 96, and 144 (HBV DNA <29 IU/mL)^{13,19,20,25}

Trial 108 (HBeAg- patients)^{a,b}



- Trial 108 viral suppression at Week 96: VEMLIDY 90% (257/285), TDF 91% (127/140)²⁶
- Trial 110 viral suppression at Week 96: VEMLIDY 73% (423/581), TDF 75% (218/292)²⁶

Mean baseline plasma HBV DNA was 5.8 log₁₀ IU/mL in Trial 108 and 7.6 log₁₀ IU/mL in Trial 110.¹³

Primary efficacy endpoint: The proportion of patients with HBV DNA <29 IU/mL and noninferiority to TDF (10% margin; 95% CI approach) at Week 48 for both trials. 13,20,25

^aPatient populations analyzed included all treatment-naïve and treatment-experienced patients who were randomized into the trial and received at least 1 dose of study drug; a missing=failure approach was used.¹³

^bThe Week 144 analysis did not include the 66 patients from the TDF group in Trial 108 and the 114 patients from the TDF group in Trial 110 who had rolled over from double-blind TDF to open-label VEMLIDY at Week 96 prior to the study amendment.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

Adverse Reactions

Most common adverse reactions (incidence ≥5%; all grades) in clinical studies through week 144 were headache, upper respiratory tract infection, abdominal pain, cough, back pain, arthralgia, fatigue, nausea, diarrhea, dyspepsia, and pyrexia.

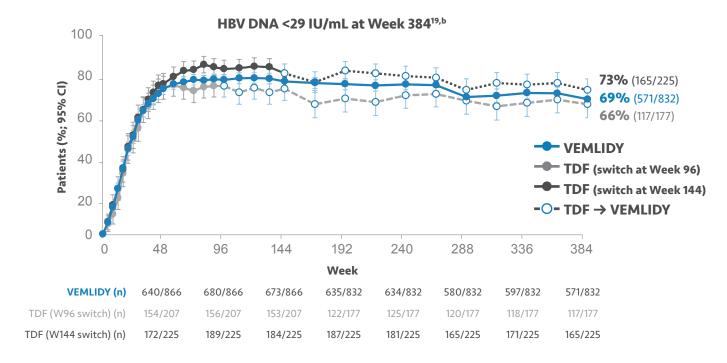
Warnings and Precautions

- Risk of Development of HIV-1 Resistance in HBV/HIV-1 Coinfected Patients: Due to this risk, VEMLIDY alone should
 not be used for the treatment of HIV-1 infection. Safety and efficacy of VEMLIDY have not been established in HBV/
 HIV-1 coinfected patients. HIV antibody testing should be offered to all HBV-infected patients before initiating therapy
 with VEMLIDY, and, if positive, an appropriate antiretroviral combination regimen that is recommended for HBV/HIV-1
 coinfected patients should be used.
- New Onset or Worsening Renal Impairment: Postmarketing cases of renal impairment, including acute renal failure, proximal renal tubulopathy (PRT), and Fanconi syndrome have been reported with TAF-containing products. Patients with impaired renal function and/or taking nephrotoxic agents (including NSAIDs) are at increased risk of renal-related adverse reactions. Discontinue VEMLIDY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome. Monitor renal function in all patients See Dosage and Administration.
- Lactic Acidosis and Severe Hepatomegaly with Steatosis: Fatal cases have been reported with the use of nucleoside analogs, including tenofovir disoproxil fumarate (TDF). Discontinue VEMLIDY if clinical or laboratory findings suggestive of lactic acidosis or pronounced hepatotoxicity develop, including hepatomegaly and steatosis in the absence of marked transaminase elevations.

Long-term viral suppression with VEMLIDY after 8 years

Pooled Open-Label Analysis: Pooled efficacy analysis from Trials 108 and 110 was assessed at Week 384 for the subset of patients who entered the open-label phase at Week 96 and Week 144. This analysis includes 832 patients who continued on VEMLIDY (pooled), 177 patients who switched from TDF to VEMLIDY at Week 96, and 225 patients who switched from TDF to VEMLIDY at Week 144. Efficacy in the open-label phase was calculated using a missing=failure (M=F) patient analysis. ^{19,a}

~75% of patients in pivotal Trials 108/110 were treatment naïve.19



^aThe open-label phase analysis excludes (n=69) patients whose site did not participate in open-label phase treatment at Week 144.19 ^bMean baseline plasma HBV DNA: 5.8 log₁₀ IU/mL in Trial 108 and 7.6 log₁₀ IU/mL in Trial 110.13

Most common adverse reactions (incidence ≥5%; all grades) at Week 384 open-label extension (OLE) were headache, upper respiratory tract infection, nasopharyngitis, hypertension, and arthralgia.¹⁹

No known resistance with long-term VEMLIDY treatment

0% resistance

with long-term treatment on VEMLIDY through 8 years¹⁹

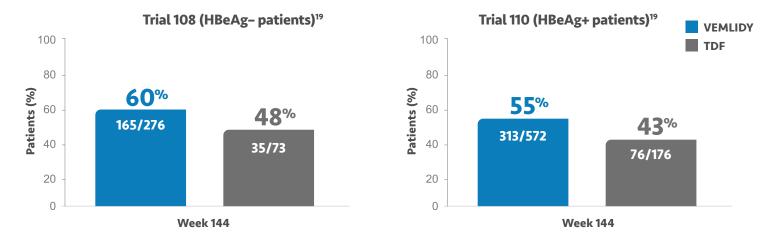
In Trials 108 and 110, genotypic resistance analysis was performed on patients experiencing either¹⁹:

- Virologic breakthrough (2 consecutive visits with HBV DNA ≥69 IU/mL [400 copies/mL] after having been <69 IU/mL, or ≥1.0-log₁₀ increase in HBV DNA from nadir)
- Early discontinuation at or after Week 24 with HBV DNA ≥69 IU/mL



VEMLIDY—proven ALT normalization in chronic HBV patients

ALT normalization rates at Weeks 48, 96, and 144 (2016 AASLD criteria)^{13,19,26,a,b}



At Week 48: ALT normalization was 50% (137/276) for VEMLIDY vs 32% (44/138) for TDF in Trial 108 and 45% (257/572) for VEMLIDY vs 36% (105/290) for TDF in Trial 110.¹³

At Week 96: ALT normalization was 50% (139/276) for VEMLIDY vs 40% (55/138) for TDF in Trial 108 and 52% (299/572) for VEMLIDY vs 42% (121/290) for TDF in Trial 110.26

Most common adverse reactions (incidence ≥5%; all grades) in clinical studies through Week 144 were headache, upper respiratory tract infection, abdominal pain, cough, back pain, arthralgia, fatigue, nausea, diarrhea, dyspepsia, and pyrexia. 19

^aThe population used for analysis of ALT normalization included only patients with ALT above ULN based on the AASLD 2016 criteria (>30 U/L and >19 U/L for males and females, respectively) at baseline.¹³

^bThe Week 144 analysis did not include the 66 patients from the TDF group in Trial 108 and the 114 patients from the TDF group in Trial 110 who had rolled over from double-blind TDF to open-label VEMLIDY at Week 96 prior to the study amendment.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

Drug Interactions

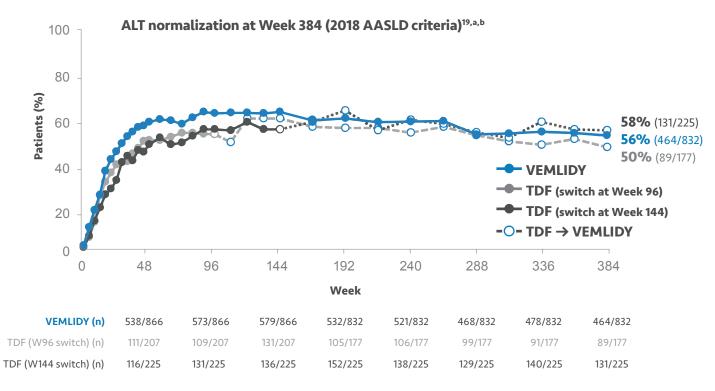
- Coadministration of VEMLIDY with drugs that reduce renal function or compete for active tubular secretion may increase concentrations of tenofovir and the risk of adverse reactions.
- Coadministration of VEMLIDY is not recommended with the following: oxcarbazepine, phenobarbital, phenytoin, rifabutin, rifampin, rifapentine, or St. John's wort. Such coadministration is expected to decrease the concentration of tenofovir alafenamide, reducing the therapeutic effect of VEMLIDY. Drugs that strongly affect P-glycoprotein (P-gp) and breast cancer resistance protein (BCRP) activity may lead to changes in VEMLIDY absorption.

Consult the full prescribing information for VEMLIDY for more information on potentially significant drug interactions, including clinical comments.

Long-term ALT normalization with VEMLIDY after 8 years

Pooled Open-Label Analysis: Pooled efficacy analysis from Trials 108 and 110 was assessed at Week 384 for the subset of patients who entered the open-label phase at Week 96 and Week 144. This analysis includes 832 patients who continued on VEMLIDY (pooled), 177 patients who switched from TDF to VEMLIDY at Week 96, and 225 patients who switched from TDF to VEMLIDY at Week 144. Efficacy in the open-label phase was calculated using a missing=failure (M=F) patient analysis.¹⁹

~75% of patients in pivotal Trials 108/110 were treatment naïve.¹⁹



Most common adverse reactions (incidence ≥5%; all grades) at Week 384 OLE were headache, upper respiratory tract infection, nasopharyngitis, hypertension, and arthralgia.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

Dosage and Administration

- Testing Prior to Initiation: HIV infection.
- **Prior to or When Initiating, and During Treatment:** On a clinically appropriate schedule, assess serum creatinine, estimated creatinine clearance, urine glucose, and urine protein in all patients. In patients with chronic kidney disease, also assess serum phosphorus.
- Dosage in Adults: 1 tablet taken once daily with food.
- **Renal Impairment:** Not recommended in patients with end stage renal disease (ESRD; eCrCl <15 mL/min) who are not receiving chronic hemodialysis; in patients on chronic hemodialysis, on hemodialysis days, administer VEMLIDY after completion of hemodialysis treatment.
- Hepatic Impairment: Not recommended in patients with decompensated (Child-Pugh B or C) hepatic impairment.



 $^{^{\}circ}$ The open-label phase analysis excludes (n=69) patients whose site did not participate in open-label phase treatment at Week 144.19

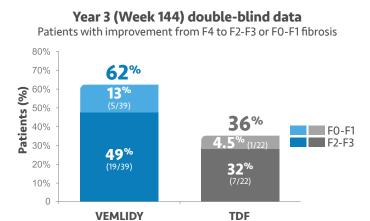
b The population used for analysis of ALT normalization included only patients with ALT >ULN per the 2018 AASLD criteria (≤35 U/L for males and ≤25 U/L for females) at baseline. 9

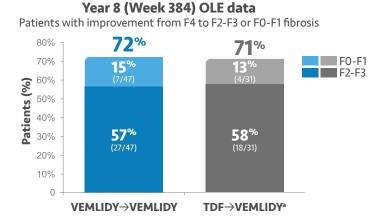
Regression of compensated cirrhosis seen with VEMLIDY through 8 years

Regression of cirrhosis in CHB patients with cirrhosis at baseline¹⁹

Year-3 Data: Among the 1298 randomized and treated patients, 644 remained in the double-blind phase at Week 144, and 426 patients from the VEMLIDY group and 208 patients from the TDF group had FibroTest data available for analysis at both baseline and Week 144. The graphs show the results for those patients who had F4 fibrosis (FibroTest score \geq 0.75) at baseline (39 patients in the VEMLIDY group and 22 patients in the TDF group). 19

Year-8 Data: Among the 1298 randomized and treated patients, 575 patients from the VEMLIDY →VEMLIDY group and 282 patients from the TDF→VEMLIDY groups had FibroTest data available for analysis at both baseline and Week 384. The graphs show the results for those patients who had F4 fibrosis (FibroTest score ≥0.75) at baseline (47 patients in the VEMLIDY→VEMLIDY group and 31 patients in the TDF→VEMLIDY groups).





Limitations: In Trials 108 and 110 at baseline, 10% of VEMLIDY patients and 12% of TDF patients had compensated cirrhosis.¹⁹

alncluded data from 11 patients who switched from TDF to VEMLIDY at Week 96 and 20 patients who switched from TDF to VEMLIDY at Week 144.19

Additional context regarding the data presented on these pages

Change from baseline in fibrosis assessed by FibroTest score (missing=excluded analysis) for VEMLIDY vs TDF was a secondary endpoint in Trials 108 and 110. Liver biopsies and FibroScan® tests were not conducted as part of Trials 108 and 110. ^{20,25}

FibroTest is a noninvasive measure of liver fibrosis and combines 5 standard biomarkers: gamma-glutamyl transpeptidase, total bilirubin, alpha-2-macroglobulin, apolipoprotein A1, and haptoglobin. Note that FibroTest does not include ALT. FibroTest has been validated for assessing fibrosis in patients with CHB.²⁷

The clinical relevance of these changes in FibroTest scores is not known.¹⁹

This analysis is not presented in the VEMLIDY full Prescribing Information.

IMPORTANT SAFETY INFORMATION (CONT.)

Dosage and Administration (cont.)

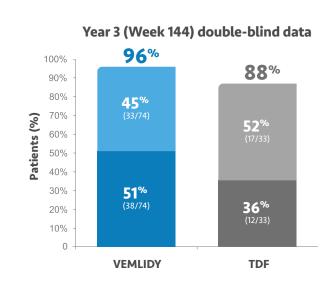
• Hepatic Impairment: Not recommended in patients with decompensated (Child-Pugh B or C) hepatic impairment.

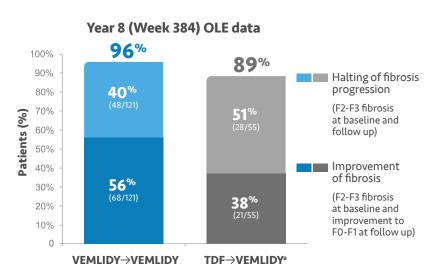
Regression or halting of fibrosis progression seen with VEMLIDY through 8 years

Regression or halting of fibrosis progression in CHB patients who were non-cirrhotic at baseline¹⁹

Year-3 Data: Among the 1298 randomized and treated patients, 644 remained in the double-blind phase at Week 144, and 426 patients from the VEMLIDY group and 208 patients from the TDF group had FibroTest data available for analysis at both baseline and Week 144. The graphs show the results for those patients who had F2-F3 fibrosis (FibroTest scores of 0.49 – 0.74) at baseline (74 patients in the VEMLIDY group and 33 patients in the TDF group).¹⁹

Year-8 Data: Among the 1298 randomized and treated patients, 575 patients from the VEMLIDY →VEMLIDY group and 282 patients from the TDF→VEMLIDY groups had FibroTest data available for analysis at both baseline and Week 384. The graphs show the results for those patients who had F2-F3 fibrosis (FibroTest scores of 0.49 – 0.74) at baseline (121 patients in the VEMLIDY→VEMLIDY group and 55 patients in the TDF→VEMLIDY groups).





Limitations: In Trials 108 and 110 at baseline, 20% of VEMLIDY patients and 19% of TDF patients had F2-F3 fibrosis.¹⁹ Please see additional context regarding the limitations on page 12.

⁹Included data from 29 patients who switched from TDF to VEMLIDY at Week 96 and 26 patients who switched from TDF to VEMLIDY at Week 144.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

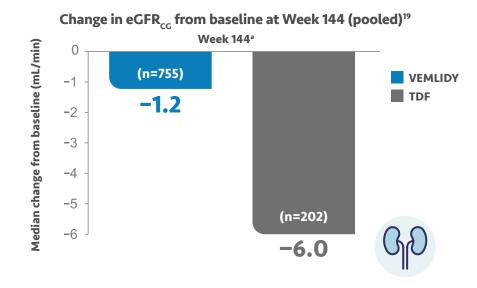
Pregnancy and Lactation

- **Pregnancy:** A pregnancy registry has been established for VEMLIDY. Available clinical trial data show no significant difference in the overall risk of birth defects for VEMLIDY compared with the background rate of major birth defects in the U.S. reference population.
- Lactation: TAF and tenofovir can pass into breast milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for VEMLIDY and any potential adverse effects on the breastfed infant from VEMLIDY or from the underlying maternal condition.

VEMLIDY showed reduced impact on renal safety parameters at Week 144

Renal effects of VEMLIDY and TDF were compared in Trials 108 and 110

Median baseline eGFR_{cc} was 106 mL/min and 105 mL/min for VEMLIDY and TDF, respectively.¹⁹



Median change from baseline to Week 96 in eGFR_{CG} was -1.2 mL/min in the VEMLIDY group (n=790) and -4.8 mL/min in those receiving TDF (n=390).^{13,19}

The long-term clinical significance of these renal laboratory changes on adverse reaction frequencies between VEMLIDY and TDF is not known.¹³

^aThe Week 144 analysis did not include the 180 patients (HBeAg-: 66 patients; HBeAg+: 114 patients) who had rolled over from double-blind TDF to open-label VEMLIDY at Week 96 prior to the trial amendment.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

Dosage and Administration (cont.)

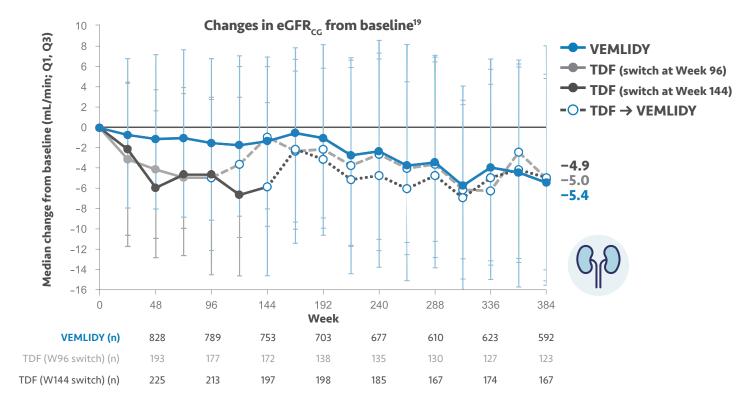
Renal Impairment: Not recommended in patients with end stage renal disease (ESRD; eCrCl <15 mL/min) who are not
receiving chronic hemodialysis; in patients on chronic hemodialysis, on hemodialysis days, administer VEMLIDY after
completion of hemodialysis treatment.

eGFR_{cc}=estimated glomerular filtration rate by Cockroft-Gault.

Long-term renal safety parameters remained stable after 8 years in patients taking VEMLIDY

Pooled Safety Analysis (Week 384): Pooled safety analysis (observed data) from Trials 108 and 110 was assessed at Week 384. This analysis includes 866 patients who initiated VEMLIDY at baseline, 207 patients who switched from TDF to VEMLIDY at Week 96, and 225 patients who switched from TDF to VEMLIDY at Week 144. 19

~75% of patients in pivotal Trials 108/110 were treatment naïve.19



The long-term clinical significance of these renal laboratory changes on adverse reaction frequencies between VEMLIDY and TDF is not known.¹³

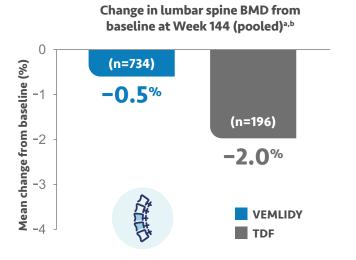
Median change in eGFR $_{CG}$ from Week 96 to 120: -0.6 mL/min in patients who remained on VEMLIDY and +1.8 mL/min in patients who switched from TDF to VEMLIDY.¹³

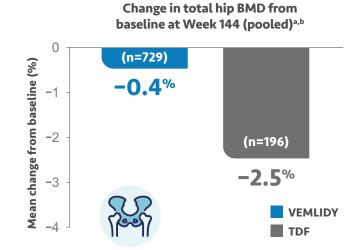
^aVEMLIDY group includes VEMLIDY patients who rolled over to open-label VEMLIDY at Week 96 or Week 144.



VEMLIDY showed reduced impact on BMD at Week 144

Impacts on spine and hip BMD with VEMLIDY and TDF were compared in Trials 108 and 110¹⁹





Patients with ≥5% BMD decline in the lumbar spine: 11% (VEMLIDY) vs 25% (TDF) at Week 96¹³ 12% (VEMLIDY) vs 24% (TDF) at Week 144¹⁹

Patients with ≥7% BMD decline in the femoral neck:

5% (VEMLIDY) vs 13% (TDF) at Week 96¹³ 9% (VEMLIDY) vs 16% (TDF) at Week 144¹⁹

The long-term clinical significance of these BMD changes is not known.¹³

The mean percentage change in BMD from baseline to Week 96 was -0.7% with VEMLIDY (n=746) compared to -2.6% with TDF (n=371) at the lumbar spine, and -0.3% (n=740) compared to -2.5% (n=369) at the total hip.^{13,19}

^aOnly patients with nonmissing baseline data for spine or hip BMD were included in the spine or hip dual-energy x-ray absorptiometry (DXA) analysis set.¹⁹

^bThe Week 144 analysis did not include the 180 patients (HBeAg-: 66 patients; HBeAg+: 114 patients) who had rolled over from double-blind TDF to open-label VEMLIDY at Week 96 prior to the trial amendment.¹⁹

IMPORTANT SAFETY INFORMATION (CONT.)

Warnings and Precautions

Lactic Acidosis and Severe Hepatomegaly with Steatosis: Fatal cases have been reported with the use of nucleoside
analogs, including tenofovir disoproxil fumarate (TDF). Discontinue VEMLIDY if clinical or laboratory findings suggestive
of lactic acidosis or pronounced hepatotoxicity develop, including hepatomegaly and steatosis in the absence of marked
transaminase elevations.

Long-term BMD remained stable after 8 years in patients taking VEMLIDY

Pooled Safety Analysis (Week 384): Pooled safety analysis (observed data) from Trials 108 and 110 was assessed at Week 384. This analysis includes 866 patients who initiated VEMLIDY at baseline,^a 206 patients who switched from TDF to VEMLIDY at Week 96, and 220 patients who switched from TDF to VEMLIDY at Week 144. Only patients with nonmissing baseline data for spine or hip BMD were included in the spine or hip DXA analysis set.¹⁹

Key baseline characteristics for pivotal Trials 108 and 110¹⁹:

- ~75% of patients were treatment naïve
- >30% of patients were osteopenic or osteoporotic
- >60% of patients were male

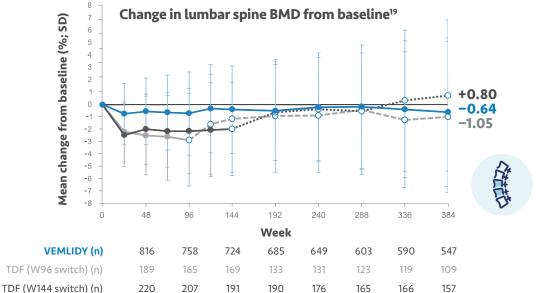
VEMLIDY TDF (switch at Week 96) TDF (switch at Week 144)

-○**-** TDF **→** VEMLIDY

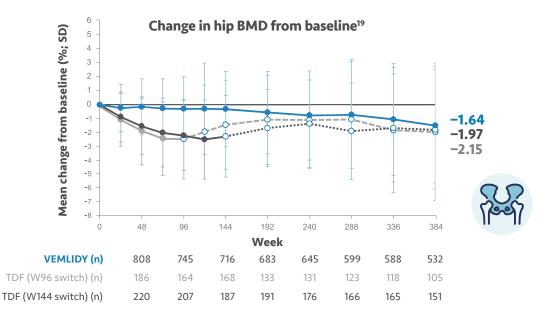
The long-term clinical significance of these BMD changes is not known.¹³

Spine and hip BMD remained stable in VEMLIDY patients, and there was an improvement seen in patients who switched to VEMLIDY from TDF.¹⁹

Mean % change in lumbar spine BMD from Week 96 to Week 120: +0.6% in patients who remained on VEMLIDY; +1.7% in those who switched from TDF to VEMLIDY.¹³



Mean % change in total hip BMD from Week 96 to Week 120: 0% in patients who remained on VEMLIDY; +0.6% in those who switched from TDF to VEMLIDY.¹³



^aVEMLIDY group includes VEMLIDY patients who rolled over to open-label VEMLIDY at Week 96 or Week 144.



Adverse events

Trials 108 and 110 (pooled)

The proportion of patients who discontinued treatment at Week 96 due to adverse reactions (ARs) of any severity was 1.5% with VEMLIDY and 0.9% with TDF.¹³ At Week 144, the discontinuation rates due to ARs of any severity were 1.6% with VEMLIDY and 1.6% with TDF.¹⁹

Adverse reactions^a (all grades) reported in ≥5% of patients on VEMLIDY in Trials 108 and 110 (Week 96 and Week 144 analyses)

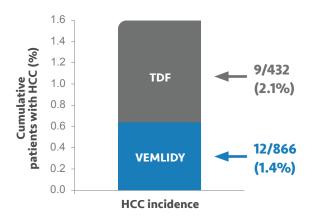
VEMLIDY pooled population (n=866)

	populatio	population (n=866)		
Adverse reactions ^{13,19}	Week 96	Week 144		
Headache	12%	13%		
Upper respiratory tract infection	11%	13%		
Abdominal pain ^b	9%	10%		
Cough	8%	9%		
Back pain	6%	7%		
Fatigue	6%	7%		
Nausea	6%	7%		
Arthralgia	5%	7%		
Diarrhea	5%	6%		
Dyspepsia	5%	5%		
Pyrexia	5%	5%		

Adverse reactions: Pooled analysis of 1157 patients at Week 384 who entered the VEMLIDY open-label extension

 Incidence ≥5% (all grades) were headache, upper respiratory tract infection, nasopharyngitis, hypertension, and arthralgia

At Week 384, **21 cases (1.6% incidence)** of hepatocellular carcinoma (HCC) were observed in Trials 108 and 110.^{19,a,c}



HCC surveillance was included as part of the 96-week protocol amendments for Trials 108/110. These trials were not powered to look at any treatment effect on HCC, and no results should be drawn based on these observations. This information is not in the VEMLIDY Prescribing Information.¹⁹

Lipids

Differences were observed between VEMLIDY and TDF in certain lipid parameters

In Trials 108 and 110:

- Week 96: Mean changes from baseline in low-density lipoprotein cholesterol (LDL-C) (fasted) and triglycerides (TG) (fasted) were +7 mg/dL and +13 mg/dL for VEMLIDY vs −10 mg/dL and −7 mg/dL for TDF¹³
- Week 144: Mean changes from baseline in LDL-C (fasted) and TG (fasted) were +8 mg/dL and +18 mg/dL for VEMLIDY vs -8 mg/dL and -2 mg/dL for TDF¹⁹
- **Week 384:** Mean changes from baseline in LDL-C (fasted) and TG (fasted) were +15 mg/dL and +17 mg/dL for VEMLIDY 8-year patients, +13 mg/dL and +27 mg/dL for patients who switched from TDF to VEMLIDY at Week 96, and +10 mg/dL and +24 mg/dL for patients who switched from TDF to VEMLIDY at Week 144¹⁹

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^aFrequencies of adverse reactions are based on all treatment-emergent adverse events, regardless of relationship to study drug. ¹³

^bGrouped term including abdominal pain upper, abdominal pain, abdominal pain lower, and abdominal tenderness.¹

c3 cases of HCC were observed in the open-label TDF-VEMLIDY group, all of which developed before Week 48 of the open-label phase. 16

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^cData on File as of November 2023, VEMLIDY Co-pay Coupon Program. Gilead Sciences, Inc.



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