

or a 2-4 fold increase in antibody directed against at least 1 of the 3 influenza strains, was 44% for Fingolomid Capsules 0.5 mg and 85% in the placebo group. The responder rate 3 weeks after vaccination, defined as seroconversion or a 2-4 fold increase in antibody directed against 3 influenza strains was 40% for Fingolomid Capsules 0.5 mg and 85% in the placebo group.

Primary Outcome
Single Fingolomid doses 5 mg (10-fold the recommended dose) are associated with a dose-dependent increase in airway resistance. In a 14-day study of 0.5, 1.25, or 5 mg/day, Fingolomid was not associated with increased airway resistance or oxygen desaturation during exercise or an increase in airway responsiveness to methacholine. Subjects on Fingolomid treatment had a normal bronchodilator response to inhaled beta-agonists.

In a 14-day placebo-controlled study of adult patients with moderate asthma, no effect was seen for Fingolomid 0.5 mg (recommended dose) in MS. A 10% reduction in mean FEV1 at 6 hours after dosing was observed in 12.5% of patients receiving Fingolomid 0.5 mg (recommended dose) in MS (p < 0.001). Fingolomid 1.25 mg was associated with a 3-fold increase in the rate of rescue short-acting beta-agonists.

12.3 Pharmacokinetics
The $T_{1/2}$ of Fingolomid is 12 to 16 hours. The apparent absolute oral bioavailability is 93%.

Food intake does not alter C_{max} (AUC) of Fingolomid or fingolomid-phosphate. Therefore, Fingolomid Capsules may be taken without regard to meals.

Steady-state blood concentrations are reached within 1 to 2 months following one-daily administration and steady-state levels are approximately 10-fold greater than with the initial dose.

Distribution
Fingolomid highly (86%) distributes in red blood cells. Fingolomid-phosphate has a smaller uptake in blood cells of 12.1% and 10.1%, respectively. Fingolomid-phosphate has a 98% protein bound. Fingolomid and fingolomid-phosphate protein binding is not affected by renal or hepatic impairment.

Fingolomid is extensively distributed by body tissues with a volume of distribution of about 1200 ± 260 L.

Metabolism
The biotransformation of Fingolomid in humans occurs by 3 main pathways, by *in vitro* biotransformation of the pharmacologically active (S)-enantiomer of fingolomid-phosphate, by oxidative biotransformation catalyzed mainly by the cytochrome P450 4F2 (CYP4F2) and possibly of other CYP4F isoenzymes (notably CYP4F1 and CYP4F3) and also by conjugation to inactive metabolites, and by formation of pharmacologically inactive non-polar ceramic analogs of fingolomid.

Inhibitors and inducers of CYP4F2 and possibly other CYP4F isozymes might alter the exposure of fingolomid or fingolomid-phosphate. *In vitro* studies in hepatocytes indicated that CYP4F4 may contribute to fingolomid metabolism in the case of strong induction of CYP4F4.

Following single oral administration of (¹⁴C)-Fingolomid, the major fingolomid-related components in blood, as judged from their similarity to AUC up to 816 hours post-dose, were fingolomid-phosphate (23.3%), fingolomid-phosphate (23.3%), and inactive metabolites (MS carboxylic acid metabolite (8.3%), M29 ceramide metabolite (8.9%), and M30 ceramide metabolite (7.7%).

Elimination
Fingolomid blood clearance is 6.3 ± 2.3 L/h, and the average apparent terminal half-life ($t_{1/2}$) is 6 to 9 days. Blood levels of fingolomid-phosphate decline in parallel with those of fingolomid in the terminal phase, yielding similar half-lives for both.

After oral administration, about 81% of the dose is slowly excreted in the urine as inactive metabolites. Fingolomid and fingolomid-phosphate are not excreted in urine but are the major components in the feces with amounts of each representing less than 2.5% of the dose.

Specific Populations
Pediatric Patients
The median fingolomid-phosphate (fingolomid-P) concentration in pediatric MS patients aged 10 to less than 18 years was 0.18 ng/mL, compared to 1.95 ng/mL in adult MS patients.

Geriatric Patients
The pharmacokinetic data derived from population pharmacokinetics suggest that age adjustment would not be necessary in elderly patients. However, clinical experience in patients aged above 65 years is limited.

Gender
Gender has no clinically significant influence on Fingolomid and fingolomid-phosphate pharmacokinetics.

Race
The effects of race on Fingolomid and fingolomid-phosphate pharmacokinetics cannot be adequately assessed due to a low number of non-white patients in the clinical program.

Renal Impairment
In adult patients with severe renal impairment, Fingolomid C_{max} and AUC are increased by 32% and 43%, respectively, and fingolomid-phosphate C_{max} and AUC are increased by 25% and 14%, respectively, with and without food intake, respectively. Based on these findings, the Fingolomid Capsules 0.5 mg dose is appropriate for use in adult and pediatric patients with renal impairment. The systemic exposure of 2 metabolites (M2 and M3) is increased by 3- and 13-fold, respectively. The toxicity of these metabolites has not been fully evaluated.

A study in patients with mild or moderate renal impairment has not been conducted.

Hepatic Impairment
In adult patients with moderate, or severe hepatic impairment (Child-Pugh class A, B, and C), no change in fingolomid C_{max} was observed, but fingolomid AUC_{0-24h} was increased respectively by 12%, 44%, and 153% in patients with severe hepatic impairment (Child-Pugh class C), and fingolomid-phosphate C_{max} and AUC were decreased by 29%. The pharmacokinetics of fingolomid-phosphate were not altered in patients with mild or moderate hepatic impairment. The apparent elimination half-life of fingolomid is unchanged in patients with mild hepatic impairment, but is prolonged by about 50% in patients with moderate or severe hepatic impairment.}

Patients with severe hepatic impairment (Child-Pugh class C) should be closely monitored, as the risk of adverse reactions is greater (see **Warnings and Precautions (5.5)**).

No dose adjustment is needed in patients with mild or moderate hepatic impairment (Child-Pugh class A and B).

Drug Interactions
Metabolism
The administration of ketconazole (a potent inhibitor of CYP3A and CYP4F) 200 mg twice-daily at steady-state and a single dose of Fingolomid 5 mg led to a 70% increase in AUC of Fingolomid and fingolomid-phosphate. Patients with Fingolomid Capsules and systemic ketconazole co-administration should be monitored for the risk of adverse reactions is greater (see **Drug Interactions (7.2)**).

Carbamazepine
The administration of carbamazepine (a potent CYP450 enzyme inducer) 600 mg twice-daily at steady-state and a single dose of Fingolomid 2 mg decreased blood concentrations (AUC) of Fingolomid and fingolomid-phosphate by approximately 40%. The clinical impact of this decrease is unknown.

Other strong CYP450 enzyme inducers, e.g., rifampicin, phenytoin, phenobarbital, and St. John's wort, may also reduce AUC of Fingolomid and fingolomid-phosphate. The clinical impact of this potential decrease is unknown.

Potential of Fingolomid and Fingolomid-phosphate to Inhibit the Metabolism of Concomitant Drugs
In *in vitro* inhibition studies using pooled human liver microsomes and specific metabolic probe substrates demonstrate that Fingolomid has little or no capacity to inhibit the activity of the following CYP enzymes: CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2C9, CYP2E1, CYP2E1A5, or CYP4A9 (Fingolomid only) and also CYP3A4. Fingolomid-phosphate has little or no capacity to inhibit the activity of CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2C9, CYP2E1, or CYP3A4 at concentrations up to 3 orders of magnitude of therapeutic concentrations. Therefore, Fingolomid and fingolomid-phosphate are unlikely to reduce the clearance of drugs that are mainly cleared through metabolism by the major CYP isoenzymes.

Potential of Fingolomid and Fingolomid-phosphate to Inhibit the Metabolism of Concomitant Enzymes
Fingolomid was examined for its potential to inhibit human CYP4F, CYP1A2, CYP4F2, and MDR1 (P-glycoprotein) mRNA and CYP4F2, CYP1A2, CYP2C8, CYP2C9, CYP2C19, and CYP4F2 activity in primary human hepatocytes. Fingolomid did not induce mRNA or activity of the relevant CYP enzymes and MDR1 with respect to the vehicle control, therefore, no clinically relevant induction of the tested CYP4F enzyme or MDR1 by Fingolomid are expected. Fingolomid-phosphate had no effect on mRNA or activity of the relevant CYP enzymes and MDR1 with respect to the vehicle control, therefore, no clinically relevant induction effects on these enzymes at therapeutic concentrations are expected.

Transporters
Based on *in vitro* data, Fingolomid as well as fingolomid-phosphate are not expected to inhibit the uptake of cationic and/or anionic biologics transported by the organic anion transporter polypeptides (OAT1, OATP18, 1 and sodium taurocholate co-transporting polypeptide (NTCP). Similarly, they are not expected to inhibit the uptake of cationic and/or anionic biologics transported by the breast cancer resistance protein (BCRP), the biglycan salt export pump (BSEP), the multidrug resistance-associated protein 2 (MRP2), or P-glycoprotein (P-gp) at therapeutic concentrations.

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Other Concomitant Medications
The administration of Fingolomid 0.5 mg daily with oral contraceptives (ethinylloestradiol and levonorgestrel) did not elicit any clinically significant change in oral contraceptive exposure. Fingolomid and fingolomid-phosphate exposure were consistent with those from previous studies. These interaction studies have been performed with oral contraceptives containing other progestagens; however, an effect of Fingolomid on their exposure is not expected.

Concomitant Anticancer and Antiparasitic
Single-dose Fingolomid and fingolomid-phosphate exposure was not altered by coadministered isoprenaline or atropine. Likewise, the single-dose pharmacokinetics of fingolomid and fingolomid-phosphate and the steady-state pharmacokinetics of both atoxil and diltiazem were unchanged during the coadministration of the latter 2 drugs in patients with moderate renal impairment.

Population Pharmacokinetics Analysis
A population pharmacokinetics evaluation performed in MS patients did not provide evidence for a significant effect of fingolomid and paracetamol (strong CYP2D6 inhibitors) on Fingolomid or fingolomid-phosphate plasma concentrations. In addition, the following common cytochrome P450 inhibitors had no clinically significant effect (< 20%) on Fingolomid or fingolomid-phosphate plasma concentrations: tacrolimus, gabapentin, covyfemvir, amantadine, modafinil, amphetamine, pregabalin, and corticosteroids.

13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Oral carcinogenicity studies were conducted in mice and rats. In mice, Fingolomid was administered at oral doses of 0.05, 0.25, and 2.5 mg/kg/day for up to 2 years. The incidence of mammary lymphoma was increased in males and females at the mid and high doses. The lowest dose tested (0.25 mg/kg/day) was less than the LD_{50} of 0.5 mg/kg on a body surface area (m^2) basis. In rats, Fingolomid was administered at oral doses of 0.05, 0.15, 0.5, and 2.5 mg/kg/day. No increase in tumors was observed. The highest dose tested (2.5 mg/kg/day) is approximately 50 times the RHD on a m^2 basis.

Fingolomid was negative in a battery of *in vitro* Ames, mouse lymphoma thymidine kinase, chromosomal aberration and sister chromatid exchange and *in vivo* micronucleus, mouse lymphoma, and mouse lymphoma chromosome breakage tests.

When Fingolomid was administered orally (0.3, 1, 3, and 10 mg/kg) to male and female rats prior to and during mating, and continuing to Day 7 of gestation (in females), no effect on fertility was observed up to the highest dose tested (10 mg/kg), which is approximately 200 times the RHD on a m^2 basis.

13.2 Animal Toxicology and/or Pharmacology
Lung toxicity was observed in 2 different strains of rats in dog and monkey. The primary findings included increased lung weight, increased lung smooth muscle hypertrophy, hyperplasia of the alveoli, and/or increased collagen. Insufficient or lack of pulmonary collagen is necessary, generally correlated with microvascular changes, to maintain an intact barrier to the alveolar space. The observed changes in rats were not observed in dogs. The lowest doses tested in rats (0.05 mg/kg/day in the 2-year carcinogenicity study) and monkeys (0.5 mg/kg/day in the 36-week toxicity study) are similar to approximately 20 times the RHD on a m^2 basis, respectively.

In the 52-week study in monkeys, respiratory distress associated with ketamine administration was observed at doses of 3 and 10 mg/kg/day; the most affected animal became hypoxic and required oxygenation. As ketamine is not generally associated with respiratory depression, this effect was attributed to ketamine. In a subsequent study in rats, ketamine was shown to potentiate the bronchoconstrictive effects of Fingolomid. The relevance of these findings to humans is unknown.

14 CLINICAL STUDIES
14.1 Adults
The efficacy of Fingolomid Capsules was demonstrated in 2 studies that evaluated once-daily doses of Fingolomid Capsules 0.5 mg and 1.25 mg in patients with relapsing-remitting MS (RRMS). Both studies included patients who had experienced at least 2 clinical relapses during the 2 years prior to randomization or at least 1 clinical relapse during the 1 year prior to randomization, and had an Expanded Disability Status Scale (EDSS) score from 0 to 5.5. Study 1 was a 2-year randomized, double-blind, placebo-controlled study in patients with RRMS who had not received any interferon-beta or glatiramer acetate for at least the previous 3 months, and had not received any intravenous immunoglobulin treatment compared to placebo. The 1.25 mg group did not receive an additional benefit over the Fingolomid Capsules 0.5 mg dose. The results for this study are shown in Table 2 and Figure 1.

Median age was 37 years, median disease duration was 6.7 years and median EDSS score at baseline was 2.0. Patients were randomized to receive Fingolomid Capsules 0.5 mg (N = 425), 1.25 mg (N = 429), or interferon-beta 1.8 mg via the intramuscular route (IM) once weekly (N = 43) for up to 12 months. Median time on study day was 717 days on 0.5 mg, 715 days on 1.25 mg, and 719 days on placebo.

The annualized relapse rate was significantly lower in patients treated with Fingolomid Capsules than in patients who received placebo. The secondary endpoint was the time to 3-month confirmed disability progression as measured by at least a 1-point increase from baseline in EDSS. EDSS 0.5-point increase for patients with baseline EDSS of 5.5 sustained for 3 months. Time to onset of 3-month confirmed disability progression was significantly affected with Fingolomid Capsules treatment compared to placebo. The 1.25 mg group did not receive an additional benefit over the Fingolomid Capsules 0.5 mg dose. The results for this study are shown in Table 2 and Figure 1.

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