SAME SIZE ARTWORK SAME SIZE ARTWORK LEAFLET SIZE : 115 mm x 560 mm LEAFLET SIZE : 115 mm x 560 mm 50 mm E SPACE FOR PHARMACODE ŝ MCE, non-fata stroke, death (all causes) Ezetimibe 10 mg/day for a median treatment duration of 12 weeks (range 0 to For the use only of a Registered Medical Practitioners or a Hospital or a Laboratory acebo 226 +1 +1 -1 +2 -2 etimibe 666 -12 -18 -16 -9 +1 0.948 (0.903 0.996) 28 weeks). Adverse reactions reported in 22% of patients treated with Ezetimibe and at an incidence greater than placebo in placebo-controlled studies of Ezetimibe, regardless of causality assessment, are shown in Table 1. Ezetimibe Tablets 10 mg CV death, non-fatal MI, unstable angin 34.49% 2869 36.20% 0.945 (0.897, 0.996) 0.03 zetimibe 1288 -13 -18 -8 +1 Table 1: Dccurring in ≥2% of Patients Treated ence Greater than Placebo, Regard Adverse Events Oc Ezzicad Tablet 10 mg uiring spitalization, Median % change from baselin Causality Co-Administra . ion with a Stati Co-Administration with a Statin Exatinible initiated Concurrently with a Statin In four, multicenter, double-blind, placebo-controlled, 12-week trials, in 1187 patients with hyporcholesterodemia, Ezetimbe 10 mg was administered alone or with various doses of atorvastatin, sinwastatin, pravastatin, no rovastatin, in general, the incremental effect on LDL-C reduction was independent of the dose or specific statin used. In addition, LDL-O reduction version conditions and with the lowest tested dose (10 mg) of any of the statins was similar to or greater than the LDL-C reduction of the highest tested dose of the corresponding statin administered alone (Table 4). Table 4: Mean % Change from Baseline in Plasma Concentration of Calculated LDL-C for Ezetimible Administered with Statins QUALITATIVE AND QUANTITATIVE COMPOSITION Each uncoated tablet contains: Ezetimibe 10 mg Ezetimibe 10 mg (%) Placebo N=2396 (%) n = 1159 n-fatal strok Body System/organ class Adverse Event Components of Primary Composite Endpoint and Select Efficacy Endpoints (first occurrences of specified event at any time) PHARMACEUTICAL Form Gastro-intestinal system disorders Diarrhea 537 6.89% 538 6.84% 1.000 (0.887, 1.127) 0.99 White to off-white, capsule shaped, flat, beveled edged uncoated tablets engraved with glenmark logo 'G' on one side and'44' on the other side. engraved with glenmark logo 'Ci 'on one side and'44' on the other side. Clinical particulars Primary Hypercholesterolaemia Ezetimibe, a diministered with an HMG-CoA reductase inhibitor (statin) or alone, is indicated as adjunctive therapy to diet for the reduction of elevated total cholesterol (total-C), low-density lipoprotein cholesterol (LDL-C) and apolipoprotein B (Apo B) in patients with primary (heterozygous familial and non-familial) hypercholesterolemia. Ezetimibe, administered in combination with fenofibrate, is indicated as adjunctive therapy to diet for the reduction of elevated total-C, LDL-C, Apo B, and non-HDL-Ci patients with mixed hyperipidemia. General disorders and conditions Fatigue 0.871 (0.798, 0.950) 12.77% n-fatal M 945 1083 2.4 1.5 Infections and infestations Influenza Sinusitis able angina 2.06% 1.059 (0.846, 1.326) Atorvastatin Simvastatin Pravastatin Study Study Study 156 148 .92% Lovastatin Study 2.0 2.8 4.3 1.5 uiring pitaliza Upper respiratory tract infection 2.2 2.5 -1 -19 -27 0 -19 -20 Placebo +4 Coronary revascularization after 30 Days 0.947 (0.886, 1.012) 0.802 (0.678, 0.949) 21.84% -20 Musculo-skeletal system disorders Arthralgia Pain in extremity Ezetimibe -20 -37 10 mg statin -21 Homozygous Familial Hypercholesteroleamia (HoFH) Ezelimice, administered with atovastatin or simvastatin, is indicated for the reduction of leavated total-C and LDLC elvels in patients with HoFH, as an adjunct to other lipid lowering treatments (eg. LDL apheresis) or if such treatments are unavailable. 3.0 2.7 2.2 2.5 -53 -46 -34 -34 3.49% Ezetimibe + 10 mg statin -fatal strok The frequency of less common adverse events was comparable between Ezetimibe and placebo. 20 mg statin -42 -36 -23 -26 -41 Combination with a Statin: In 28 double-blind, controlled (placebo or active- controlled) clinical trials, 11,308 patients with primary hyperlipidemia (age range 10-93 years, 48% women, 85% clauxasians, 7% blacks, 4% Higanics, 3% Asians) and elevated LDL-C were treated with Exetimibe 10 mg/day concurrently with or added to on-going statin therapy for a median treatment duration of 8 weeks (range 0 to 112 weeks). All MI (fatal and non-fatal) 13.13% 0.872 (0.800, 0.950) -54 -46 -40 Homozygous Sitosterolaemia (phytosterolaemia) Ezetimibe is indicated as adjunctive therapy to diet for the reduction of elevated sitosterol and campesterol levels in patients with homozygous familial sitosterolaemia. Ezetimibe + 20 mg statin 40 mg statin Ezetimibe + 40 mg statin -38 -31 -30 -46 0.857 (0.734, 1.001) All stroke (fatal and non-fatal) camposterol levels in patients with homozygous familial sitesterolaemia. **Peoslogy and method of administration** The patient should be on an appropriate lipid-lowering diet and should continue on this diel during treatment with zeatimible. The recommended does of Ezetimible is 10 mg tablet once daily, used alone, with a statin, or with fenofibrate. Ezetimible can be administered at any time of the day, with or withoutfood. -56 -56 -42 -45 -58 80 mg statin -54 Non-hemorrhag 242 3.48% 305 4.23% 0.793 (0.670, 0.939) 0.00 -61 112 weeks). The incidence of consecutive increased transaminases (>3X ULN) was higher in patients receiving Exetimbe administered with statians (1.3%) than in patients treated with statins alone (0.4%). Clinical adverse reactions reported in 22% of patients treated with E Exetimibe + statin and at an incidence greater than statin, regardless of causality assessment, are shown in Table 2. Table 2° Ezetimibe + 80 mg statin -44 Hemorrhagic stroke Pooled data: All statin -36 -25 -25 1.377 (0.930, 2.040) Patients with Renal Impairment Monotherany Monotherapy In patients with renal impairment, no dosage adjustment of Ezetimibe is Pooled data: All Ezetimibe + statin doses -56 -51 -39 -40 Death from any 1215 15.36% 0.989 (0.914, 1.070) 0.78 Table 2: necessary. Combination Therapy with Simvestatin In patients with mild renal impairment (estimated GFR ≥60 mL/min/1.73 m²), no dosage adjustment of Ezetimibe or simvastatin is necessary. In patients with chorely cident of the simulated glomerular filtration rate -60 mL/min/1.73 m², the dose of Ezetimibe is 10 mg and the dose of simvastatin is 20 mg once a day in the evening. In such patients, the use of higher doses of simvastatin should be closely monitored. Clinical Adverse Reactions Occurring in ≥2% of Patients Treated with Ezetimibe Co-administered with a Statin and at an Incidence Greater than Statin, Regardless of Causality 6% were uptitrated to ezetimibe/simvastatin 27% were uptitrated to simvastatin 80 mg. 4 Kaplan-Meier estimate at 7 years. ⁸ includes ischemic stroke or stroke of undeter In a pooled analysis of all Ezetimibe + statin doses, Ezetimibe had a beneficia effect on total-C, Apo B, TG, and HDL-C (Table 5). ¹ Kaplan-Meier estimate al 7 years.
¹ Saplan-Meier seimate al 7 years.
¹ Includes ischemic stroke or stroke of undetermined type. **Prevention of Major Vascular Events in Chronic Kidney Disease (CKD)**The Study of Heart and Renal Protection (SHARP) was a multinational, randomized, placebo-controlled, double-bid study conducted in 9438 patients with chronic kidney disease, a third of whom were on dialysis at baseline. For the first year, atteints were andomized in a ratio of 4.41, respectively, to a fixed dose combination of Ezetimibe 10 mg with simvastatin 20 mg daily. The 1-year simvastatin arm was included to enable the comparison of Ezetimibe to mg with simvastatin and was included to enable the comparison of Ezetimibe combined with airwastatin to simvastatin alone with regard loakebo. A 11 year the simvastatin only arm was re-randomized in 1.1 to a fixed dose combination of Ezetimibe 10 mg with simvastatin 0.4 years. Patients were allocated to Ezetimibe 10 mg combined with simvastatin (16 biose for a desc) of a desc). A charact desc of a desc, were allocated to Ezetimibe 10 mg combined with simvastatin (16 biose for a desc). There were no injde entry criteria. Mean LDL-C ta baseline was 10 kg and 38% for Ezetimible 10 mg combined with simvastatin and as 6 of B and 63% were malar. 22% Gaucasian, 23% diabetic and, 16 those not on delaysis, the mean estimated giomerular filtration rate (eGFP) was 26.5 mL/min/1.7 and. There were no lipid entry criteria. Mean LDL-C at baseline was 10 kg advected and 38% for Ezetimible 10 mg combined with simvastatin relative to placebo by simvastatin 20 mg advectating the sime strating being the situation at a strating to a situation and 38% for Ezetimible 10 mg combined with simvastatin relative to placebo by simvastatin 20 mg. At the midpoint of the study (2.5 years) mean LDL-C reduction in all randomized patients for Ezetimible combined with simvastatin relative to placebo by scinter situation sinulated patients for Exetimatible combined wi Table 5 Pooled Analysis of the Mean % Change from Baseline in Total-C, Apo B, TG, and HDL-C Body System/ organ class Adverse Event All Statins* (%) Ezetimibe + All Statins n=9361 (%) n=11,308 higher doses or source Use in the Elderly No dosage adjustment is required for elderly patients. Total-C Apo B TG* HDL-C Sastro-intestinal ystem disorders Diarrhea No dosage adjustment is required for elderly patients. Use in Pediatric Patients Children and adolescents >10 years: No dosage adjustment is required. Children <10 years: Treatment with Ezetimibe is not recommended. 2.2 Ezetimibe + Atorvastatin -41 -45 -33 +7 Seneral disorders and Atorvastatin alone -32 -36 -24 +4
 Contraction
 Contract
 Contraddity
 Contract
 Contract
 administration site condit Fatigue 1.6 Use in Hapatic Impairment No dotage adjustment is required in patients with mild hepatic insufficiency (Child Pugh score 5 to 6). Treatment with ezetimibe is not recommended in patients with moderate (Child Pugh score 7 to 9) or severe (Child Pugh score >) liver dystanction. Infection and infestations Influenza Nasopharyngitis Upper respiratory tract infection 2.1 3.3 2.8 2.2 3.7 2.9
 -17
 -20
 -14
 +7

 -29
 -33
 -25
 +9

 -18
 -21
 -12
 +4
 Pravastatin alone Co-universite operation of a bile acid sequestrants Dosing of Exetimibe should occur either ≥2 hours before or ≥4 hours after administration of a bile acid sequestrant. Ezetimibe + Lovastatin Musculoskeletal system an connective tissue disorders Arthralgia Back pain Myalgia Pain in extremity Lovastatin alone median % change 2.4 2.3 2.7 1.9 2.6 2.4 3.2 Ezetimibe Added to On-going Statin Therapy In a multicenter, double-blind, placebo-controlled, 8-week study, 769 patients with hypercholestrolemia already receiving statin monotherapy and not at National Cholesterol Education Program (NCEP) LDLC goal (100 to 160 mod/d. decending on baseline characteristics) were randomized to receive Contraindications Hypersensitivity to any component of this medication ripersensaming carry component or this mecucianu. When E zeithnes is to be administered with a statin or with fenofibrate, please refer to the SPC for that particular medicinal product. The combination of Zestimble with a statin is contraindicated in patients with active liver disease or unexplained persistent elevations in serum transaminases. National Cholesterol Education Program (NCEP) LDLC goal (100 to 160 mg/dl, depending on baseline characteristics) were randomized to receive either Ezetimibe 10 mg or placebo in addition to their on-going statin therapy. Among statin-treated patients not at LDLC goal at baseline (~82%), LDL-C goal at study endpoint was achieved by 72% and 19% of patients randomized to Ezetimibe and placebo, respectively. Ezetimibe, added to on-going statin therapy, significantly lowered total-C, LDL-C, Apo B, and TG and increased HDL-C, compared with placebo (Table 6). LDL-C reductions were consistent across all statins. *All Statins = all doses of all statins Combination with Feontibrate: This clinical study involving 625 patients with mixed dyslipidemia (age range 20-76 years, 44% women, 79% Caucasians, 0.1% Blacks, 11% Hispanics, 5% Asians) treated for up to 12 weeks and 576 patients treated for up to an additional 48 weeks evaluated co-administration of erated for up to an additional 48 weeks evaluated co-administration of erated for up to an additional 48 weeks evaluated co-administration of eratement erations (-32 X ULN, consecutive) in hepatic transaminase levels were 4.5% (1.9, 8.8) and 2.7% (1.2, 5.4) for fenofibrate monotherapy (n=188) and Ezetimibe co-administred with fenofibrate monotherapy (n=188), respectively, adjusted for treatment exposure. Corresponding incidence rates for cholecystectomy were 0.6% (95% CI: 0.0%, 3.1%) and 1.7% (165% CI: 0.6%, 4.0%) for fenofibrate monotherapy and Ezetimibe co-administrated with fenofibrate (n=ass galbladder disease risk. There were no CPK elevations >10 X ULN in any of the treatment groups.. Patients with Coronary Heart Disease Combination with Fenofibrate: longer training study medication. The SHARP protocol-specified primary comparison was an intention-to-treat analysis of "major vascular events" (MVE; defined as nontitat) MI or cardiac death, stroke, or any revascularization procedure) in only those patients initially randomized to the Ezetimibe combined with simvastatin (n=4193) or placebo (n=4191) groups. Secondary analyses included the same composite analyzed for the full cohort randomized (at study baseline or at year 1) to Ezetimibe combined with simvastatin (n=4650) or placebo (n=4620) as well as the components of this composite. transaminases. All statins and fenofibrate are contraindicated in pregnant and nursing women. When Ezelimibe is administered with a statin or with fenofibrate in a woman with childbearing potential, refer to the product labeling for that medication. Special warning boennar, refer to the product labeling for that medication. Special warnings and precautions for use When exetimibe is to be administered with a statin or with fenofibrate, please refer to the SPC for that particular medicinal product. Table 6 Mean Response to Addition of Ezetimibe to On-going Statin Therapya in Patients with Hypercholesterolemia (Mean % Change from Baseline) refer to the SPC for that particular medicinal product. *Liver enzymes* In controlled co-administration trials in patients receiving ezetimibe with a statin, consecutive transaminase elevations (≥3 X the upper limit of normal [ULN]) have been observed. When existimibe is co-administered with a statin, liver function tests should be performed at initiation of therapy and according to the recommendations of the statin. In the IMProved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT), 18,144 patients with CHD were randomised to receive ezetimibe/simvastatin 1040 mg daily (m=9077) or simvastatin 40 mg daily (m=9077). During a median follow-up of 6.0 years, the incidence of consecutive elevations of transaminases (≥3 X ULN) was 2.5% for ezetimibe/simvastatin and 2.3% for simvastatin. the components of this composite. The primary endpoint analysis showed that Ezetimibe combined with simvastatin significantly reduced the risk of major vascular events (749 patients with events in the placebo group vs. 639 in the Ezetimibe combined with simvastatin group) with a relative risk reduction of 16% (p=0.001) (see Figure 3). Figure 3: Effect of Ezetimibe Combined with Simvastatin on the Primary Endpoint of Risk of Major Vascular Events
 Treatment (Daily Dose)
 N
 Total-C
 LDL-C
 Apo B
 TG^a
 HDL-C
 -2 -4 (-6 mg/dl°) -25 n-going Statin Placebo 390 -3 -3 379 -19 -14 +3 Dn-going Statin Ezetimibe 17 -25 (-36 mg/dl^c) the treatment groups. **Patients with Corrany Heart Disease** In the IMFROVE-IT study, involving 18,144 patients treated with either ezetimibe/simvastatin 10/40 mg (n=9057; of whom %⁵, were uptitrated to ezetimibe/simvastatin 10/40 mg) or simvastatin 40 mg (n=9077; of whom 27%) were uptitrated to simvastatin 80 mg), the safety profiles were similar during a median follow-up period of 6.0 years. Discontinuation rates due to adverse experiences were 10.6% for patients treated with ezetimibe/simvastatin and 10.1% for patients treated with simvastatin. The incidence of myopathy was defined as unexplained muscle weakness or pain with a serum CK =10 times ULN or two consecutive observations of CK ≥5 and <10 times ULN. The incidence of rhabdomyolysis was 0.1% for zetimibe/simvastatin and 0.2% for simvastatin, where mabdomyolysis was 0.1% for azetimibe/simvastatin and 0.2% for simvastatin and 10 times ULN on two consecutive occasions with evidence yes times ULN on two consecutive observations with evidence of renal injury, ≥5 times ULN and <10 times ULN on two consecutive occasions with evidence Percentages of patients receiving each statin: nvastatin, 29% others (pravastatin, fluvastatin, ceri Major Vascular Events Median % change from baseline Change in LDL-C from baseline LDL-C (138 mg/dl and 139 mg/dl for statin In a controller dinical study in which over 9000 patients with chronic kidney disease were randomized to receive acetimize 10 mg combined with simusatian 20 mg daily (m=450) or placebo (m=4620), (median tollow-up period of 4.9 years), the incidence of consecutive elevations of transaminases (>3X ULN) was 0.7% for exelimite combined with simusatian and 0.5% for 25 T Placebo (Pbo) ---- Ezetimibe/simvastatin (E/S) Ezetimibe or placebo adde to statin therapy reduced median C-reactive protein by 10% or 0% from baseline, respectively. In a multicenter, double-bind, 14 week study, 621 patients with hypercholesterolemia receiving atorvastatin 10 mg daily with an LDL-C >130 mg/dl were randomized to receive atorvastatin 20 mg or Ezetimibe 10 mg added to atorvastatin 10 mg therapy. The atorvastatin adoes could be titrated up to 80 mg in the atorvastatin arm and up to 40 mg in the Ezetimibe 10 mg added to atorvastatin 10 mg therapy. The atorvastatin forge crucing the atorvastatin co-administration arm, based on patients not attaining LDL-C goal (<100 mg/dl). The mean baseline IDL-C was 167 mg/dl and approximately 60 % of the patients had heterozygous familial hypercholestorolemia (HeF1H). At study end, there was a significant difference in attainment of LDL-C goal between patients in the Ezetimibe co- administration arm (22 %) and patients on atorvastatin monotherapy (7 %). At week 4, there was a significant difference in LDL-C reductions between co-administration patients (24 %; Ezetimibe 4 atorvastatin 10 mg) and monotherapy patients (9%; atorvastatin 20 mg). In the sub-group of patients with HeFH, similar results for LDL-C goal attainment and LDL-C reductions were achieved. In a similarly designed study in 100 patients with hypercholesterolemia receiving simvastatin 20 mg and not at LDL-C goal; the addition of Ezetimibe 10 mg to simvastatin and not at LDL-C goal; the addition of Ezetimibe 10 mg to simvastatin itration compared to titration of simvastatin alone produced similar advantages to those observed in the advantation study adscribed above. For example, significant differences in LDL-C goal attainment (27% for Ezetimibe + simvastatin vs. 11% for simvastatin alone) were achieved. Co-administation with Fenolibrate Ezetimibe or placebo added to statin therapy reduced median C-reactive 20 -15 - Logrank P=0.001 -----10 Skeletal muscle In clinical trials, there was no excess of myopathy or rhabdomyolysis associated with ezetimibe compared with the relevant control arm (placebo or Pat 1 0 However, myopathy and rhabdomyolysis are known adverse reactions to statins and other lipid-lowering drugs. In clinical trials, the incidence of CPK > 10 X ULN was 0.2% for exetimible vs. 0.1% for placebo, and 0.1% for ezetimible co-administered with a statin vs.0.4% for statins alone.

2 3 4 Years of follow-up

At risk Pbo 4191 3807 3495 3177 2419 1239 ErS 4193 3868 3567 3273 2501 1232 The individual components of MVE in all randomized patients are presented in Table 10. Zertimibe combined with immixatin insplication roduced the risk of troke and any revascularization, with nonsignificant numerical differences favoring Ezetimibe combined with simvastatin ison nonfatal MI and cardiac

. Table 10 Major Vascular Events by Treatment Group in All Randomized Patients in SHARP* Ezetimibe 10 mg combined with imvastatin 20 mg (N=4650) Risk Ratio (95% CI) Placebo (N=4620) Major Vascular Events 814 (17.6%) 0.85 (0.77-0.94) 701 (15.1%) 0.001 159 (3.4%) 0.84 (0.66-1.05) 134 (2.9%) 0.12 nfatal MI

253 (5.4%)

rdiac Death

ezetimibe co-administered with a statin vs 0.4% for statins alone. In post-marketing experience with exetimibe, cases of myopathy and mbadomyolysis have been reported regardless of causaity. Most patients who developed rhabdomyolysis has been reported very rarely with ezetimibe. However, mbadomyolysis has been reported very rarely with ezetimibe be associated with increased risk of mbadomyolysis. All patients starting therapy with ezetimibe should be advised of the risk of myopathy and told to report promptly any unexplained muscle pain, tendemess or weakness. Ezetimibe and any statin that the patient is taking concomitantly should be immediately discontinued if myopathy is diagnosed or suspected. The presence of these symptoms and a creatine phosphokinase (CPK) level >10 times the ULN indicates myopathy. n IMPBOVE-IT. 18.144 patients with coronary heart disease were randomised In IMPHOVE-11, 19, 144 patients with coronary heart disease were randomised to receive zetimiber simulation 10/40 mg daily (n=9067) or simusatian 40 mg daily (n=9077). During a median follow up of 6.0 years, the incidence of myopathy was 0.2% for czelimbio-simusatian and 0.1% for simulatin, where myopathy was defined as unexplained muscle weakness or pain with a serum CK -10 times ULN rot wo conscutive observations of CK \ge 5and -10 mms ULN. The incidence of habdomyolysis was 0.1% for simulation and 0.2% for simulation enclusions and 0.2% for settimiber simulations are unceptianed and 0.2% for simulations of CK \ge 5and -10 mms discutive observations of CK \ge 5and -10 mms discutive observations was defined as unexplained muscle was defined as unexplained muscle was discutive as the model onexplained muscle was discutive as the machine simulation.

weakness or pain with a serum CK \geq 10 times ULN with evidence of renal linjury, \geq 5 times ULN and <10 times ULN no two consecutive occasions with evidence of renal linjury or CK \geq 10,000 UL/L without evidence of renal linjury. The incidence of consecutive elevations of transaminases (\geq 3X ULN) was 2.5% for ezetimbe/simvastatin and 2.3% for simvastatin. Gallbiadder-related adverse effects were reported in 3.1% vs 3.5% for bid patients allocated to ezetimbe/simvastatin and simvastatin, respectively. The incidence of cholecystectomy hospitalisations was 1.5% in both treatment groups. Cancer (defined as any new malignancy) was diagnosed during the trial in 9.4% vs 9.5%, respectively. 9.5%, respect

9.3%, respectively. Patients with Chronic Kidney Disease In the Study of Heart and Renal Protection (SHARP), involving over 9000 patients treated with a fixed does combination of ezetimibe 10 mg with simvastatin.20 mg daily (n=4650) or piacebo (n=4620), the safety profiles were comparable during a median follow-up period of 4 years. In this trial, only serious adverse events and discontinuations due to any adverse events were recorded.

adverse events were recorded. Discontinuation rates due to adverse events were comparable (10.4% in patients treated with ezetimibe combined with simvastatin, 9.8% in patients treated with placebo). The incidence of myopathy/ thabdomyolysis was 0.2% in patients treated with zetimibe combined with simvastatin and 0.1% in patients treated with placebo. Consecutive elevations of transaminases (> 3X ULN) occurred in 0.7% of platients treated with placebo. In this trial, simvastatin compared with 0.6% of patients treated with placebo. In this trial,

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Treatment (Daily Dose)

60 mg

with inc 80 mg.

Treatment (Daily Dose)

Ezetimibe + Fenofibrate 160 mg

alone) were achieved. Co-administration with Fenofibrate In a multicenter double-blind, placebo-controlled, clinical study in patients with mixed hyperlipidemia. 825 patients were treated for up to 12 weeks and 576 for up to an additional 48 weeks. Patients were randomized to receive placebo, Ezetimibe alone, 160 mg fenofibrate alone, or Ezetimibe and 160 mg fenofibrate in the 12-week study. After completing the 12-week study, eligible patients were assigned to Ezetimibe coadministered with fenofibrate or fenofibrate monotherap/for an additional 48 weeks. tenotionate monomerapy for an adminished with rendbrack adminishered with rendbrack significantly lowered total-C, LDL-C, App B, and non-HDL-C compared to fenofibrate administered alone. The percent decreases in TG and percent increase in HDL for Existimible co-administered with fenofibrate were comparable to those for fenofibrate administered admic (see Table 7).

Table 7 Table 7 Response to Ezetimibe and Fenofibrate Initiated Concurra with Mixed Hyperlipidemia (Meana % Change from Untre at 12 weeks)

Placebo 63 0 0 -1 -9 +3

-22 -20

The changes in lipid endpoints after an additional 48 weeks of treatment with Evetimibe coadministered with fenofibrate or with fenofibrate alone were consistent with the 12-week data displayed above.

consistent with the 12-week data displayed above. Homozygoue Samilla Hypercholestorolomia (HoFH) A study was conducted to assess the efficacy of Ezetimibe in the treatment of HoFH. This double-blind, randomized, 12-week study enrolled 50 patients with a clinical and/or genotypic diagnosis of HoFH, with or without concomitant LDL apheresis, already receiving atorvastatin or simvastatin (40 mg). Patients were randomized to one of three treatment groups, atorvastation or simvastatin (80 mg). Ezetimible 10 mg administered with atorvastatin or simvastatin (80 mg). Results are shown in Table 8. Ezetimible, administered with atorvastatin (40 or 80 mg). The state of the state state of the state o

Table 8 Mean Response to Ezetimibe in Patients with HoFH (Mean % Change from Baseline)

Patients had a mean age of 63 opera; 76% were male, 84% were Gaucasian, and 27% were diabetic. The average LDLC value at the time of study (m6390) and 101 mg/dL (2.5 mmol/L) for those not on previous lipid-lowening therapy (n=11594). Prior to the hospitalization for the qualifying ACS event, 34% of the patients were on statin threapy. Alone year, the average LDLC for patients continuing on therapy was 53.2 mg/dL (4.1 mmol/L) for the exelimble/simvastatin group and 6.9 mg/dL (1.8 mmol/L) for the mainted on study therapy.

Intolliterary group, capit values area generative camera to particular terminal on study therapy. The primary endpoint was a composite consisting of cardiovascular death, major coronary events (MCE; defined as non-fatal myocardial infarction, documented unstable angina that required hospitalization, or any coronary revascularization procedure occurring at least 30 days after randomized treatment assignment) and non-fatal stroke. The study demonstrated that the study of the stroke to be study and the stroke to be study after and the stroke to be study after and the stroke to be study and the stroke to be study and the stroke to be stroke to be study and the stroke to be str

treatment assignment) and non-fatal stroke. The study demonstrated that treatment with zeatimabe when added to simusatili resulted in reliative risk reduction of 6.4% in terms of the reduction in the primary composite endpoint of cardiovascular death. MCE and non-fatal stroke compared with imvastatin alone (p=0.016). The primary endpoint occurred in 2572 of 9657 patients (7-year Kkapian-Marier [MAI rate 32-27%) in the scientima/simusatiatin group and 2742 of 9077 patients (7-year KMI rate 34.67%) in the simvastatin alone group. (See Figure 1 and Table 9.) The treatment effect of experime/simusatiatin was generally consistent with the prestment site science in the science of the science

the overall results across many subgroups, including sex, age, race, medical history of diabetes mellitas, baseline lipid levels, prior statin therapy, prior stroke, and hypotension (see Figure 2). Figure 1: Effect of Esetimike Simastation on the Primary Composite Endpoint of Cardiovascular Death, Major Coronary Event, or Non-Iatal Stroke

ard ratio, 0.936 (95% Cl, 0.887-0.98

1 2 3 4 5 Time Since Randomization (Yea Subjects at risk mbe/Simwastatin 9067 7371 6801 6375 5839 4284 3301 1906 Simwastatin 9077 7455 6799 6327 5729 4206 3284 1857

Figure 2: Subgroup Analysis of Primary Composite Endpoint of Cardiovascular Death, Major Coronary Event, or Non-fatal Stroke

++++++

+

0.75 1 1.33 tatin (EZ/S) Better Simvastatin (S) Bet

Table 9 Major Cardiovascular Events by Treatment Group in All Randomized Patients in IMPROVE-IT

Ezetimibe/ Simvastatin Simvastatin 40 mg[†] 0/40 mg⁺ (N=9067) (N=9077)

n K-M %[‡] n K-M %[‡]

cy Endpoir 32.72%

17.52% 1448 18.88

2572

1322

A. Sex Male Female

Age ≺65 yms ≻≈65 yms

Sistory of Yes

Primary Compose (CV death, Major Coronary Events and non-fatal otracka)

ondary Co

CHD death, nonfatal MI, urgent coron

Ezetimibe/Simv.

 No. of Events

 Total
 (% per year)

 Patients
 EZ/S
 S
 HR (95% CI)

 18144
 2572 (6.4)
 2742 (6.9)
 0.936 (0.887,0.988)

13728 1997 (6.5) 2102 (6.9) 0.952 (0.895, 1.012) 4416 575 (6.0) 640 (6.8) 0.885 (0.791, 0.991)

10173 1320 (5.6) 1387 (5.8) 0.975 (0.904, 1.051) 7971 1252 (7.4) 1355 (8.4) 0.890 (0.824, 0.961)

15202 2188 (6.5) 2340 (6.9) 0.939 (0.885,0.995) 2923 383 (6.0) 402 (6.6) 0.919 (0.799,1.058)

4933 824 (8.3) 949 (9.8) 0.856 (0.779,0.939) 13202 1748 (5.8) 1792 (5.9) 0.977 (0.915, 1.044)

682 119 (9.3) 141(11.2) 0.839 (0.657, 1.071) 17452 2453 (6.3) 2599 (6.7) 0.941 (0.891, 0.995)

6246 1082 (8.4) 1166 (9.3) 0.910 (0.838,0.988) 11878 1489 (5.4) 1573 (5.7) 0.952 (0.887,1.022)

9125 1396 (7.2) 1505 (7.8) 0.925 (0.860,0.995) 8874 1158 (5.7) 1225 (6.0) 0.947 (0.874,1.026)

11137 1716 (7.3) 1843 (8.0) 0.917 (0.859,0.980) 6998 856 (5.1) 898 (5.3) 0.969 (0.883,1.065)

Ratio (95% C

0.936 (0.887, 0.988)

6 0.912 0.016 (0.847, 0.983)

PE00000 SG

ICONGRAPHICS CODE:

PANTONE SHADE

PANTONE BLACK PROCESS C

Supersedes

PHARMACODE :

Artwork Code

Ezetimibe 185 -12 -13 Fenofibrate 188 -11 -6 160 mg

or triglycerides, median % change fron laseline - on no lipid-lowering drug

Atorvastatin (80 mg) or Simvastatin (80 mg)

Ezetimibe + Atorvastatin (40, 80 mg) or Simvastatin (40, 80 mg)

Sub-group analysis: Ezetimibe + Atorvastatin (80 mg) or Simvastatin (80 mg)

183

Total-C LDL-C Apo B TG* HDL-C

-11 -11 +4 -15 -43 +19

+19 -30

HDL-C Non-HDL-C

-7 -21

-27

17

33

17

-26 -44

Non-HDL-C

0

-15

-16

Any Stroke	171 (3.7%)	210 (4.5%)	0.81 (0.66-0.99)	0.038
Non-hemorrhagic Stroke	131 (2.8%)	174 (3.8%)	0.75 (0.60-0.94)	0.011
Hemorrhagic Stroke	45 (1.0%)	37 (0.8%)	1.21 (0.78-1.86)	0.40
Any Revascularization	284 (6.1%)	352 (7.6%)	0.79 (0.68-0.93)	0.004
Major Atherosclerotic Events (MAE) ^b	526 (11.3%)	619 (13.4%)	0.83 (0.74-0.94)	0.002

272 (5.9%)

0.38

0.93 (0.78-1.10)

Intention-to-treat analysis on all SHARP patients randomized to Ezetimibe combined with simvastatin or placebo either atlasseline oryear 1.
^{*} MAE defined as the composite of nontatal myocardial infarction, coronary death, non-hemorrhagic stroko, or any revascularization.
Nevertheless, this study design did not allow for a separate contribution of the ezetimibe or simvastatin to efficavy to significantly reduce the risk of major vascular events in patients with CKD.
The absolute reduction in LD-Lc clostestrol achieved with Ezetimibe combined with simvastatin was lower among patients with a lower baseline LDL-C (<2.5mmoll) and patients on dialysis at baseline than the other patients, and the corresponding risk reductions in those two groups were attenuated.

the corresponding nsk reductions in these two groups were attenuated. Homozygous Sitosterolemia (Phytosterolemia) A study was conducted to assess the efficacy of Ezetimibe in the treatment of homozygous sitosterolemia. In this multicenter, double-blind, placebo-controlled, 8-week trial, 37 patients with homozygous sitosterolemia were randomized to receive Ezetimibe 10 mg (n-30) or placebo (n-7). Ezetimibe significantly lowered the two major plant sterols, sitosterol and campesterol, by 21 % and 24 % from baseline, respectively. In contrast, patients who received

21 % and 24 % from baseline, respectively. In contrast, patients who received placebo had increases in sitosterol and campesterol of 4 %, and 3 % from baseline, respectively. For patients treated with Ezetimibe, the reduction in plant sterols was progressive over the course of the study. Reductions in sitosterol and campesterol were consistent batween patients taking Ezetimibe concomitantly with bile acid sequestrants (n=8) and patients not on concomitant bile acid sequestrant therapy (n=21).

Proceedings and the solution of the second sequence of the solution of the sol

observed were essentially those typically associated with statins. Some of the toxic effects were more pronounced than observed during treatment with statins alone. This is attributed to pharmacokinetic and pharmacodynamic interactions in co-administration therapy. No such interactions occurred in the clinical studies. Myopathies occurred in rats only after exposure to doese that were several times higher than the human therapautic does (approximately 20 times the AUC level for statins and 500 to 2,000 times the AUC level for the active metabolite).

in a series of in vivo and in vitro assays ezetimibe, given alone or co-

In a series of *in vivo* and *in vitro* assays ezetimibe, given alone or co-administered with statins, exhibited no genotoxic potential. Long-term carcinogenicity tests on ezetimibe were negative. Ezetimibe had no effect on the tertility of male or female rats, nor was it found to be teratogenic in rats or rabbits, nor did it affect prenatal or postnatal development. Exterimibe crossed the placental barrer in pregnant rats and rabbits given multiple doses of 1,000 mg/kg/day. The co-administration of ezetimibe and statins was not teratogenic in and use hard variabits a small number of skeletal deformities (fused thoracic and caudal vertebrae, reduced number of caudal vertebray were observed. The co-administration of ezetimibe and horacitant esuited in embryolethal effects.

PHARMACEUTICAL PARTICULARS List of excipients

Lactose Monohydrate, Sodium Lauryl Sulphate, Croscarmellose Sodium, Povidone K-30, Purified Water, Magnesium Stearate.

Incompatibilities Not applicable.

Shelf life 9 Months

Special precautions for storage Store below 30°C. Protect from moisture.

Glenmark

PHARMACEUTICALS LTD. B/2, Mahalaxmi Chambers, 22, Bhulabhai Desai Road, Mumbai - 400 026, (India). At: Plot No. 2, Phase II, Pharma Zone,

Indore Special Economic Zone, Pithampur, Dist. Dhar (M.P), Pincode - 454775.

Product Registrant: Glenmark Pharmaceuticals Singapore Pte Ltd 6 Shenton Way, OUE Downtown #38-01 Singapore 068809

Nature and contents of container 1 x20's Each carton contains 20 tablets packed in blister pack of PVC/Aclar clear film and plain aluminium foil along with package insert. DATE OF REVISION OF THE TEXT: October 2021

and 0.2 is no simulation, where inducting types was defined as unexplained muscle weakness or pain with a serum CK \geq 10 times ULN with evidence of renal injury, \geq 5 times ULN and <10 times ULN on two consecutive occasions with evidence of renal injury or CK \geq 10,000 IU/L without evidence of renal injury or CK \geq 10,000 IU/L without evidence of renal injury. njury. n a clinical trial in which over 9000 patients with chronic kidney disease were

(n=4650) or placebo (n=4620) (median follow-up 4.9 years), the incidence of myopathy/rhabdomyolysis was 0.2% for ezetimibe combined with simvastatin 0.2% for ezetimibe combined with simvastatin 0.2% for exetimibe combined with simvastatin 0.2% for exetimible combined and 0.1% for placeb

Hepatic Insufficiency Due to the unknown effects of the increased exposure to ezetimibe in patients with moderate or severe hepatic insufficiency, Ezetimibe is not recommended

Fibrates

Fibrates The co-administration of ezetimibe with fibrates other than fenofibrate has not been studied. Therefore, co- administration of ezetimibe and fibrates (other than fenofibrate) is not recommended.

Fencilitate Fencilitate If cholelithiasis is suspected in a patient receiving Ezetimibe and fencilibrate, gallbladder studies are indicated and alternative lipid-lowering therapy should

Cyclosporine Caution should be exercised when initiating ezetimibe in the setting of Caution should be exercised when initiating ezetimibe in the setting of cyclosporine. Cyclosporine concentrations should be monitored in patients receiving ezetimibe and cyclosporine. The degree of increase in ezetimibe exposure may be greater in patients with severe rean insufficiency. In patients treated with cyclosporine, the potential effects of the increased exposure to ezetimibe from concomitant use should be carefully weighed against the benefits of alterations in lipid levels provided by ezetimibe Anticoagutants

Anticoagulants If ezetimibe is added to warfarin, another coumarin anticoagulant, or fluindione, the International Normalised Ratio (INR) should be appropriately

montored. Interaction with other medicinal products and other forms of interaction In preclinical studies, it has been shown that exatimibe does not induce cytochrome P450 drug metabolising enzymes. No clinically significant pharmacokinetic interactions have been observed between ezetimibe and drugs known to be metabolised by cytochromes P450 1A2, 2D6, 2C8, 2O3, and 3A4, or Nacthytimasferase.

c.v., and 3A4, or Nacetyltransferase. Ezetimibe had no effect on the pharmacokinetics of dapsone, dextromethorphan, digoxin, oral contraceptives (ethinyl estradiol and levonorgestrell), glipizide, tolbutamide, or midazolam, during co-administration. Cimetidine, co-administered with ezetimibe, had no effect on the bicavalability of ezetimibe. Ezet

the bioavailability of ezetimible. Antacids: Concomitant antacid administration decreased the rate of absorption of ezetimible but had no effect on the bioavailability of ezetimible. This decreased rate of absorption is not considered clinically significant. *Cholestyramine:* Concomitant cholestyramine administration decreased the mean (AUC) of total ezetimible (ezetimible + ezetimible glucuronide) approximately 55%. The incremental low-density lipoprotein cholesterol (LDL-C) reduction due to adding ezetimible to cholestyramine may be lessened by this interaction.

rates: The safety and effectiveness of ezetimibe co-administered with fibrate have been evaluated in a clinical study; co-administration of

fenofibrate have been evaluated in a clinical study; co-administration of ezetimibe with other fibrates has not been studied. Fibrates may increase cholesterol excretion into the bile, leading to choleithiasis. In a preclinical study in dogs, zeatimbe increased cholesterol in the galibladet bile. Although the relevance of this preclinical finding to humans is unknown, coadministration of Ezetimbe with fibrates (other than fenofibrate) is not recommended until use in patients is studied. *Fenofibrate*: In a pharmacokinetic study, concomitant fenofibrate administration increased total ezetimble concentrations approximately 1.5-fold. This increase is not considered clinically significant.

Statins: No clinically significant pharmacokinetic interactions were seen when ezetimibe was co- administered with atorvastatin, simvastatin, pravastatin, lovastatin, fluvastatin or rosuvastatin.

Gemfibrozil: In a pharmacokinetic study, concomitant gemfibrozil administration increased total ezetimibe concentrations approximately 1.7-

administration increased total ezetimble concentrations approximately 1.7-fold. This increase in ot considered clinically significant. No clinical data are available. **Cyclesport**: In a study of eight post-renal transplant patients with creatinine clearance of -50 mL/min on a stable does of cyclesportin, a single 10-mg does of ezetimble execution a 3.4 fold (range 2.3 to 7.9 fold) increases in the mean AUC for total ezetimble compared to a healthy control population, receiving exetimble alone, from another study (n=17), In a different study, a renal transplant patient with severe renal insufficiency (creatining clearance of 13.2 mL/min/1.3 mL/metric.

Iransplant painert win severe rena insulncency (cheanine clear and construction) mid-mid-17.3 m³ who was receiving multiple medications, including cyclosporine, demonstrated a 12-loid greater exposure to total ezetimibe compared to concurrent controls. In a two-period crossover study in twelve healthy subjects, daily administration of 20 mg ezetimibe for 8 days with a single 100-mg does of cyclosporin on Day

or 20 mg exetimibe for 8 days with a single 100-mg dose of cyclosporin on Day T resulted in a mean 15 % increase in cyclosporin AUC (range 10 % decrease to 51 % increase) compared to a single 100-mg dose of cyclosporin alone. Anticoagulante: Concornitant administration of exetimike (10 mg ones daily) had no significant effect on bicavailability of warfarin and prothrombin time in a study of twelve healthy adult males. There have been post-marketing reports of increased International Normalized Ratio in patients who had Exetimible added to warfarin or fluindione. Most of these patients were also on other medications.

Fertility, pregnancy and lactation

Fertility,pregnancy and lactation *Pregnancy:* No clinical data on exposed pregnancies are available. Animal studies of exclimibe administered alone do not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/fetal development, parturition or postnatial development. However, note that all statins and forentibrate are contraindicated in pregnant women. Exetimible should be used during pregnancy only if the potential benefit justifies the risk to the fetus. When exelimible was given with lowastatin, simvastatin, pravastatin or atorvastatin, no teratogenic effects were observed in embryo-fetal development studies in pregnant rats. In pregnant rabbits, a low incidence of skeletal malformations was observed. When exelimibe is to be administered with a statin, please refer to the Package Insert for that particular statin. Lactation:

Lactation: Studies in rats have shown that ezetimible is excreted in milk. It is not known whether ezetimibles is excreted into human breast milk, therefore, Ezetimible should not be used in nursing mothers unless the potential benefit justifies the potential risk to the infant.

Duetrian is to une finant. Effects on ability to drive and use machines No studies on the effects on the ability to drive and use machines have been performed. However, when driving vehicles or operating machines, it should be taken into account that dizziness has been reported.

Undesirable effects The following serious adverse reactions are discussed in greater detail in other he following serious adverse react ections of the label: Uriver enzyme abnormalities Rhabdomyolysis and myopathy

Monotherapy Studies: In the Exelimite controlled clinical trials: database (placebo-controlled) of 2396 patients with a median treatment duration of 12 weeks (range 0 to 39 weeks), 33% of patients on Exelimite and 2.9% of patients on placebo discontinued due to adverse reactions. The most common adverse reactions in bothmup, and the treatment durate the test of the test of the discontinued due to adverse reactions. The most common adverse reactions in bothmup, and exel the test of the test of the test of the discontinued in advecured at the test final placebo verse:

Arthralgia (0.3%)
 Dizziness (0.2%)
 Gamma-glutamyltransferase increased (0.2%)

The most commonly reported adverse reactions (incidence ≥2% and greater than placebo) in the Ezetimibe monotherapy controlled clinical trial database of 2396 patients were: upper respiratory tract intection (4.3%), (airthea (4.1%), arthralgia (3.0%), sinusitis (2.8%), and pain in extremity (2.7%).

SG

arthralgia (3.0%), sinusitis (2.8%), and pain in extremity (2.7%). <u>Statin Co-Administration Studies</u>: In the Exelimite + statin controlled clinical trials database of 11,308 patients with a median treatment duration of 8 works (ange 0 to 112 works), 4.0% of patients on Exetimible + statin and 3.3% of patients on statin alone discontinued due to adverse reactions. The most common adverse reactions in the group of patients treated with Exelimite + statin that led to treatment discontinuation and occurred at a rate greater than statin alone were: ■ Alania eminotransferase increased (0.6% ■ Mayalig (0.5%) ■ Faitgue, aspartate aminotransferase increased, headache, and pain in extremity (each at 0.2%) The most commonly reported adverse reactions (incidence ≥2% and greater than statin alone) in the Exetimibe + statin controlled clinical trial database of 11,308 patients were: nasophangnitig (3.2%), mayalig (2.6%), and diarrhea (2.5%). Clinical Trial Experience

Clinical TrialExperience Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in clinical practice.

Monotherapy: In 10 double-bilind, placebo-controlled clinical trials, 2396 patients with primary hyperlipidemia (age range 9-86 years, 50% women, 90% Caucasians, 5% Blacks, 3% Hispanics, 2% Asians) and elevated LDL-C were treated with

similarity of the statistically significant increases in the incidence of pre-specified adverse events, including cancer (9.4% for ezetimibe combined with simvastatin, 9.5% for placebo), hepatitis, cholecystectomy or complications of gallstones or pancreatilis.

gaiascines of parcheatiss. Laboratory values In controlled clinical monotherapy trials, the incidence of clinically important elevations in serum transaminases (ALT and/or AST-3 X ULN, consecutive) was similar between ezetimibe (0.5%) and placebo (0.3%). In co-administration trials, the incidence was 1.3% for patients treated with ezetimibe co-administered with a statin and 0.4% for patients treated with ezetimibe co-administered with a statin and 0.4% for patients treated with exeterible co-administered with a statin and 0.4% for patients treated with exeterible co-administered with a statin and 0.4% for patients treated with exeterible co-administered and the associated with cholestasis, and returned to baseline after discontinuation of therapy or with continued the answer

with cholestasts, altu returned to become over the other of the other of the other of the other other

Post-marketing Experience Because the reactions below are reported voluntarily from a population of uncertain size, it is generally not possible to reliably estimate their frequency or establish a causal relationship to drug exposure. The following additional adverse reactions have been identified during post-The following additional adverse reactions have been identified during post-

The toolwing additional adverse reactions have been idemined during post-approval use of Ezdimibie: Hypersensitivity reactions, including anaphylaxis, angioedema, rash, and uticaria; erythema multiforme; arthraigia; myalgia; elevated creatine phosphokinase; myopathy/rhabdomyolysis; elevations in liver t ransaminases; hepatitis; abdominal pari, thrombocytopenia; pancreatitis; nausea; dizzines; parsethisa; depression; headache; cholellthiasis;

cholecystitis

Chorecysalis. Overdose In clinical studies, administration of ezetimibe, 50 mg/day, to 15 healthy subjects for up to 14 days, 40 mg/day to 18 patients with primary hypercholesterolaemia for up to 56 days, and 40mg/day to patients with homozygous stosterolemia for 26 weeks, was generally well tolerated. In animals, no toxicity was observed after single oral doses of 5,000 mg/kg of ezetimible in rats and mice and 3,000 mg/kg in dogs. A few cases of overdosage with ezelimible have been reported: most have not been second the with adverse experiences.

new cases or overcousage with ezetimible have been reported: most have not been associated with adverse experiences. Reported adverse experiences have not been serious. In the event of an overdose, symptomatic and supportive measures should be employed. PHARMACOLOGICAL PROPERTIES

dynamic Properties herapeutic group: Other lipid modifying agents. ATC code:

Pharmacotherapeutic group: Other lipid modifying agents. ATC code: C10AX09 Ezetimble is in a new class of lipid-lowering compounds that selectively inhibit the intestinal absorption of cholesterol and related plant sterols. Exetimible is orally active, and has a mechanism of action that differs from other classes of cholesterol-reducing compounds (e.g. statins, bide acid sequestrants [resins], fibric acid derivatives, and plant stanols). The molecular target of ezetimbe the sterol transporter, Nieman-Pick C1-Like 1 (NPCILI), which is

the sterol transporter, Niemann-Pick C1-Like 1 (NPCC11), which is responsible of the intestinal uptake of cholesterol and phytosterols. Ezetimble localises at the brush border of the small intestine and inhibits the absorption of cholesterol, leading to a decrease in the delivery of intestinal cholesterol to the liver; statins reduce cholesterol synthesis in the liver and together these distinct mechanisms provide complementary cholesterol reduction. In a 2-week clinical study in 18 hypercholesterolaemic patients, seetimble inhibited intestinal cholesterol absorption by 54%, compared with the setting the statism of the setting the set is the se

[89 mg] Prevention of Cardiovascular Disease The IMProved Reduction of Outcomes: Vytorin Efficacy International Trial (MPROVE-IT) was a multicenter, randomized, double-blind, active-control study of 18,144 patients enrolled within 10 days of hospitalization for acute coronary syndrome (ACS, either acute myocardial infraction [MI] or unstable angina (UA)). Patients had an LDL-C_2125 mg/dL (_32, zmm/dL) at the time of presentation with ACS if they had not been taking lipid-lowering therapy, or $\leq 1 \ 0 \ mg / d \ L$ ($\leq 26 \ mm/dL$) if they had been receiving lipid-lowering therapy. All patients were randomized in a 1:1 ratio to receive either exetimibe/simvastatin 10/40 mg (m=9067) or simvastatin 400 mg (m=9077) and followed for a median of 6.0 years. placebo. A series of preclinical studies was performed to determine the selectivity of exertime for inhibiting cholesterol absorption. Exertimibe inhibited the absorption of [14C]-cholesterol with no effect on the absorption of trigtycerides, fatty acids, bie exids, progresterone, ethinyl estadiol, or fat soluble vitamins A

and U. Epidemiologic studies have established that cardiovascular morbidity and mortality vary directly with the level of total-C and LDL-C and inversely with the level of HDL-C.

stration of Ezetimibe with a statin is effective in reducing the risk of ascular events in patients with coronary heart disease and ACS event history.

Pharmacokinetic properties

Pharmacokinetic properties Absorption: After oral administration, ezetimibe is rapidly absorbed and extensively conjugated to a pharmacologically active phenotic glucuronide (ezetimibe- glucuronide). Mean maximum plasma concentrations (Cmax) occur within 1 to 2 hours for ezetimibe-glucuronide and 4 to 12 hours for ezetimibe. The absolute bioavailability of ezetimibe cannot be determined as the

The absolute bioavailability of ezetimibe cannot be determined as the compound is virtually insoluble in aqueous media suitable for injection. Concomitant food administration (high fat or non-fat meals) had no effect on the oral bioavailability of ezetimibe when administered as ezetimibe 10-mg tablets. Ezetimibe can be administered with or withoutfood. Distribution: Ezetimibe and ezetimibe-glucuronide are bound 99.7% and 88 to 92% to human plasma proteins, respectively. Metabolism: Ezetimibe is metabolised primarily in the small intestine and liver via glucuronide conjugation (a phase Il reaction) with subsequent bilany excretion. Minimal oxidative metabolism (a phase I reaction) with subsequent bilany approximately 10 to 20 % and 80 to 90 % of the total drug in plasma, respectively. Both ezetimibe and ezetimibe-glucuronide are solver oth exercision and ezetimibe-glucuronide are solver oth ezetimibe and ezetimibe-glucuronide are solver other ezetimibe and ezetimibe-glucuronide are solver oth ezetimibe and ezetimibe-glucuronide are solver other ezetimibe are solver other ezetimibe and exetimibe-glucuronide are solver other ezetimibe and ezetimibe-glucuronide are solver other ezetimibe and ezetimibe-glucuronide are solver other ezetimibe and ezetimibe-glucuronide a

approximately 10 to 20 % and 80 to 90 % of the total drug in plasma, respectively. Both exetimibe and actimible-glucomide are slowly eliminated from plasma with evidence of significant enterohepatic recycling. The hall-life for exetimibe and exetimible glucomorialies approximately 23 hours. *Elimination:* Following oral administration of 14C exetimible (20 mg)/o human subjects, total exetimible accounted for approximately 93% of the total radioactivity in plasma. Approximately 78% and 11% of the administered radioactivity in plasma. Approximately 78% and 11% of the administered radioactivity in plasma. Approximately 78% and 11% of the administered adjucced to period. After 48 hours, there were no detectable levels of radioactivity in the plasma.

Special populations:

 $\underline{fiatric patients}$ of ezetimibe are similar between children $\geq \! 6$ years and

auuts. Pharmackinetic data in the paediatric population -6 years of age are not available. Treatment with ezetimibe is not recommended for children less than 10 years old.

Geriatric patients Plasma concentrations for total ezetimibe are about 2 fold higher in the elderly (265 years) than in the young (18 to 45 years). LDL-C reduction and safety profile are comparable between elderly and young subjects treated with ezetimibe. Therefore, no dosage adjustment is necessary in the elderly.

Hepatic insufficiency After a single 10-mg does of ezetimibe, the mean AUC for total ezetimibe was increased approximately 1.7 fold in patients with mild hepatic insufficiency (Child Pugh score 5 or 6), compared to healthy subjects. In a 14-day, multiple-(Unit rught score or or), compared to nearmy subjects. In a 14-day, multiple-does study (10 rug daly) in patients with moderate hepatic insufficiency (Child Pugh score 7 to 9), the mean AUC for total ezetimibe was increased approximately A-loid on Day 1 and Day 14 compared to healthy subjects. No dosage adjustment is necessary for patients with mild hepatic insufficiency. Due to the unknown effects of the increased exposure to ezetimibe in patients with moderate or severe (Child Pugh score >9) hepatic insufficiency. Ezetimibe is not recommended in these patients.

Is not recontinue of the two parameters in the second seco An additional patient in this study (post-renal transplant and receiving multiple medications, including ciclosporin) had a 12-fold greater exposure to total

Gender Plasma concentrations for total ezetimibe are slightly higher (approximately 20%) in women than in men. LDL-C reduction and safety profile are

parable between men and women treated with ezetimibe. efore, no dosage adjustment is necessary on the basis of gender.

Race Based on a meta-analysis of pharmacokinetic studies, there were no pharmacokinetic differences between Blacks and Caucasians. There were too few patients in other racial or ethnic groups to permit further pharmacokinetic comparisone

Table 3: Mean Response to Ezetimibe in Patients with Primary

holesterolemia (Mean % Change from Baseline)

 Treatment group
 N
 Total-C
 LDL-C
 Apo B
 TG*
 HDL-C

 Placebo
 205
 +1
 +1
 -1
 -1
 -1

 Ezetimibe
 622
 -12
 -18
 -15
 -7
 +1

Clinical Studies: Primary Hypercholesterolemia Primary Hypercholesterolemia Monotherapy In two, multicenter, double-blind, placebo-controlled, 12-week studies in 1719 patients with primary hypercholesterolemia, Ezetimibe 10 mg significantly lowered total-C, LDL-C, Apo B, and TG and increased HD-LC compared to placebo (see Table 3). Reduction in LD-C was consistent across age, sex and baseline LD-C. Experience on non-Caucasians is limited and does not permit a precise estimate of the magnitude of the effects of Ezetimibe. In addition, Ezetimibe had no effect on the plasma concentrations of the fat-soluble vitamins A, D, and E, had no effect on prothombin time, and did not impair adrencortical steroid hormone production.

Study 1 Eze