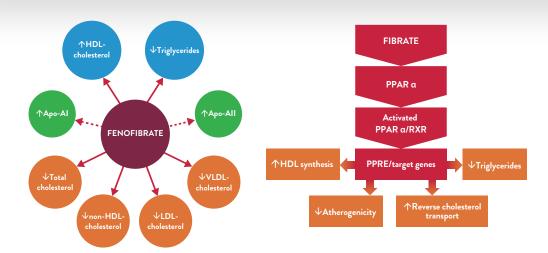




Patient who achieve their LDL-C target with marginal TG (2.3-5.6 mmol/L), initiate co-statin treatment with Lipanthyl to achieve non-HDL-C target level and reduce CV risk



# Fenofibrate : For reduction of both CV risk and complications associated with elevated lipid profiles<sup>1</sup>



#### Fenofibrate mechanism of action

The effects of fenofibrate are mediated by its activation of the nuclear transcription factor PPARa.<sup>1</sup> Activated PPARa dimerises with another nuclear receptor, retinoid X receptor, which then complexes with peroxisome proliferator response elements (PPREs), modulating the expression of genes that regulate lipid metabolism (Figure 5)<sup>3</sup>

Activation of PPARα affects lipid metabolism in multiple ways.10 It increases lipolysis and elimination of TG-rich particles from the plasma via activation of lipoprotein lipase (LPL) and reduced production of Apo-CIII, an inhibitor of LPL. It also promotes the β-oxidation of fatty acids, which reduces the fatty acids available for TG synthesis. By reducing acetyl- CoA carboxylase and fatty acid synthase activity, fenofibrate inhibits de novo fatty acid synthesis and the production of TG.<sup>1</sup>

Fenofibrate reduces Apo-B and VLDL production and secretion, while increasing LDL clearance.<sup>1</sup>

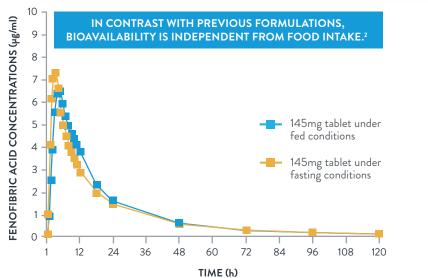
Activation of PPAR lpha also promotes synthesis of the HDLassociated lipoproteins Apo-AI and Apo-AII, resulting in increased levels of HDL-C.<sup>1</sup>

#### Reference

1. Keating GM, Croom KF. Fenofibrate: a review of its use in primary dyslipidaemia, the metabolic syndrome and type 2 diabetes mellitus. Drugs 2007; 67(1): 121-53.

LIPANTHYL<sup>®</sup> 145MG film-coated tablets contain fenofibrate nanoparticles<sup>1</sup> developed with nanocrystal<sup>®</sup> technology<sup>2</sup>

### NO FOOD EFFECT ON 145mg FENOFIBRATE TABLET



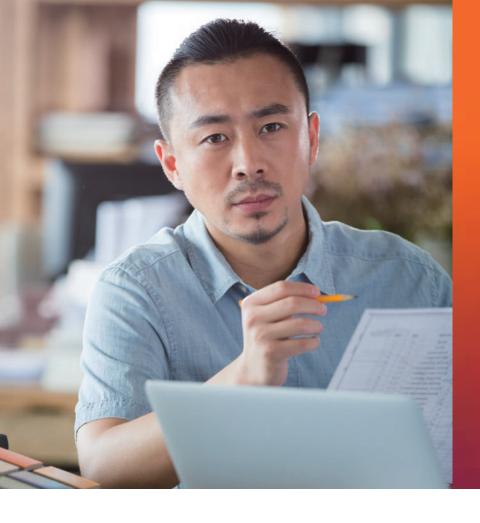
## COMPARED WITH LARGER PARTICLES NANOPARTICLE SIZE LEADS TO:<sup>3</sup>

- Greater solubility
- Larger surface area
- Increased dissolution velocity
- Greater bioavailability

This was an open label, randomized, single dose, 3 way crossover study. 45 patients (18-41 years) taking fenofibrate 145mg administered with or without meals. Plasma concentrations of fenofibric acid were determined up to 120 hours post-dose. Comparisons were made between fasting and fed conditions.

References

1.Company Core Data Sheet. Fenofibrate. 4th April 2019. 2. Sauron R, Wilkins M, Jessent V et al. Absence of food effect with a 145mg nanoparticle fenofibrate tablet formulation int. J Clin Pharmacol Ther. 2006; 44:64-70. 3. Junghanns H; Muller H. Nanocrystal technology, drug delivery and clinical application. International Journal of Nanomedicine. 2008: 3(3) 296-305.



# PATIENT PROFILE

Gender	Male		
Age	45 years old		
Job	MNC Staff		
BMI	28		
DISEASE			
Hypertension, Dial	betes		
Mixed Dyslipidemi	a with atherogenic heart disease		
LIPID PROFILE			
ТС	3.9 mmol/L		
HDL-C	1.0 mmol/L		
NON-HDL-C	ON-HDL-C 2.9 mmol/L		
TG	3.3 mmol/L		
LDL-C	LDL-C 1.4 mmol/L		
CURRENT TRE	ATMENT		

Aspirin > Rosuvastatin > Linagliptin > Metformin

\*Patient cases are hypothetical and for illustration purposes only.

Patients who achieve their LDL-C target level may still not achieve their Non-HDL-C target level<sup>1</sup>



LDL-C = Low Density Lipoprotein Cholesterol HDL-C = High Density Lipoprotein Cholesterol Meta-analysis of 8 randomized controlled trials involving 62,154 participants. All trials involved a mean follow up of at least 2 years and more than 1000 patients. Adapted from Boekholdt SM et al JAMA 2012

LDL success rates versus Non-HDL-C success rates by world region in the L-TAP 2 study<sup>1</sup>.

Characteristics	All population	Asia	Europe	Latin America	North America
Ν	9,926	1,949	2,920	988	4,069
LDL-C success and Non-HDL-C success	81.8%	79.2%	86.6%	80.2%	80.2%
LDL-C success and Non-HDL-C failure	18.1%	20.3%	13.3%	19.7%	19.7%

#### Introduction:

The Lipid Treatment Assessment Project 2 (L-TAP 2) was a multicenter survey of lipid goal attainment in dyslipidemic patients who were on stable lipid-lowering therapy at investigation sites in 9 countries (Canada, Brazil, Mexico, the USA, France, Spain, the Netherlands, South Korea, and Taiwan) between September 2006 and April 2007. This current pre specified analysis of the L-TAP 2 survey describes the attainment of non-HDL-C goals according to the level of risk and compared with LDL-C goal attainment in the whole study population, as well as according to gender, baseline plasma TG levels ( $\leq$ 2.3 mmol/L vs. >2.3 mmol/L), and world region.

#### Reference

1. Santos RD, Waters DD, Tarasenko L, et al. A comparison of non-HDL and LDL cholesterol goal attainment in a large, multinational patient population: The Lipid Treatment Assessment Project 2. Atherosclerosis. 2012;224(1):150-153. 2. Masana L, Ibarretxe D, Heras M, et al. Substituting non-HDL cholesterol with LDL as a guide for lipid-lowering therapy increases the number of patients with indication for therapy. Atherosclerosis. 2013;226(2):471-475.

Patients reaching the LDL-C target but NOT the Non-HDL-C target face a hazard ratio for major CV event of 1.32<sup>1</sup>

Association of LDL, Non-HDL-C, and Apo B with Risk of Cardiovascular Events Among Patients Treated with Statins: A Meta-Analysis.

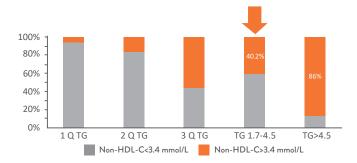
Targe	t Level	No. of Major Cardiovascular Events	Total No. of Participants	HR (95% CI)
LDL-C	Non-HDL-C			
≥2.6 mmol/L	≥3.4 mmol/L	1877	10419	1.21 (1.13-1.29)
≥2.6 mmol/L	<3.4 mmol/L	467	2873	1.02 (0.92-1.12)
<2.6 mmol/L	≥3.4 mmol/L	283	1435	1.32 (1.17-1.50)
<2.6 mmol/L	<3.4 mmol/L	2760	23426	1.00 (reference)

#### Introduction:

Reference:

Meta-analysis of 62154 patients enrolled in 8 trials published between 1994 and 2008 from randomized controlled statin trials in which conventional lipids and apolipoproteins were determined in all study participants at baseline and at 1-year follow-up.

Based on TG level, patients Non-HDL-C (>3.4 mmol/L) concentrations despite on-target LDL (<2.6 mmol/L)<sup>2</sup>



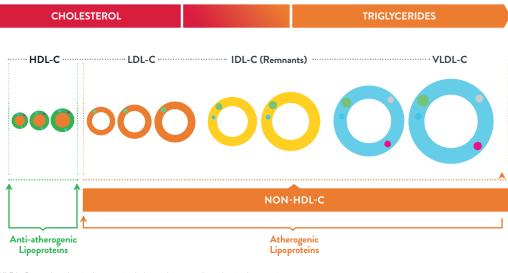
#### Introduction:

In 1590 patients we studied the lipid profile using standard biochemical methods and sequential UC (N = 637) or triglyceride (TG) independent DM (N = 953).

The objective was to assess the number of patients with an indication for lipid-lowering therapy according to their non-HDL cholesterol (N-HDL-C) (>3.4 mmol/L) concentrations despite on-target LDL ( $\leq$ 2.6 mmol/L) values determined using ultracentrifugation (UC) or direct enzymatic methods (DM).

# NON-HDL-C: A recognised secondary target for treatment for CV disease prevention<sup>1</sup>

Non-high-density lipoprotein cholesterol (Non-HDL-C) encompasses all of the atherogenic apolipoprotein B-containing lipoproteins.<sup>2</sup>



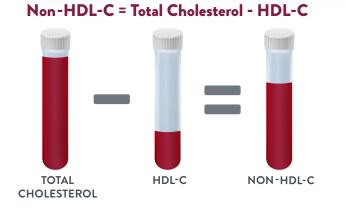
\*(LDL-C, very low-density lipoprotein cholesterol, intermediate-density lipoprotein cholesterol, lipoprotein (a), cholymicrons, and their triglyceride (TG)-rich remnants)s CVD = Cardiovascular

This illustration is for representational purposes only

#### Reference:

1. Mach F., Baigent C., Catapano A. et al. 2019 ESC/EAS Guidelines for the management of dyslipidaemias: lipid modification to reduce cardiovascular risk. European Heart Journal, 2019;00:1-78. 2. Puri R, Nissen SE, Shao M. et al. Non-HDL Cholesterol and Triglycerides Implications for Coronary Atheroma Progression and Clinical Events. Arteriosclerosis, Thrombosis, and Vascular Biology. 2016; 36: 2220-2228.

# NON-HDL-C as a secondary target for therapy<sup>1</sup>



## LDL-C = TC - HDL-C - (TG / 2.2) mmol/L

LDL-C can be calculated by Friedwald formula. If TG is increasing, the variation of real LDL-C will be enlarged.

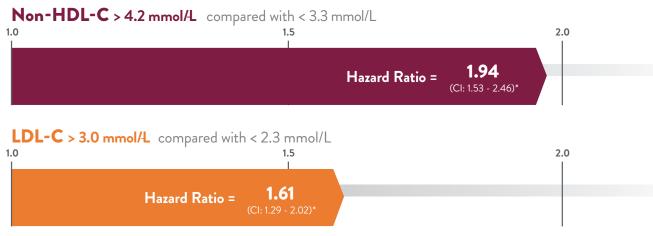
LDL-C = Low Density Lipoprotein Cholesterol HDL-C = High Density Lipoprotein Cholesterol TC = Total Cholesterol TG = Triglyceride

### NON-HDL-C AS A SECONDARY TARGET FOR THERAPY

- ✓ NON-HDL-C contains: LDL-C, VLDL-C, IDL and CM.
- LDL-C estimation requires measurement of TC, TG and HDL-C in a fasting state. However LDL-C estimation becomes progressively less accurate with increasing TG levels as can occur in patients with diabetes.
- Non-HDL-C estimation has the advantage that it only requires measurement of TC and HDL-C, both of which can be measured reasonably accurately in a non-fasting sample.

# NON-HDL-C is a significant predictor of CVD in diabetic patients<sup>1</sup>

## CVD hazard ratios associated with Non-HDL-C and LDL-C



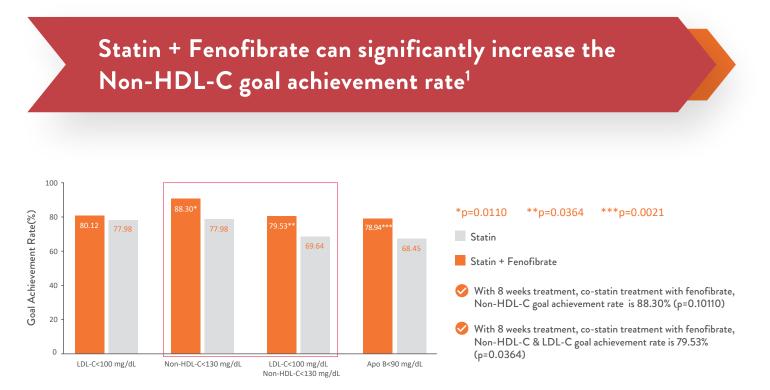
Analysis of 2108 individuals aged 45-74 years with diabetes but no CVD at baseline and followed up over an average of 9 years to evaluate the ability of Non-HDL-C and lipoprotein indicators to predict CVD<sup>3</sup>

\* Highest tertile compared with the lowest tertile Adapted from Lu W et al. Diabetes Care 2003

## Diabetic patients are at high risk for CVD morbidity and mortality which means adequate risk assessment and management is imperative

#### Reference:

1.Lu W et al. Non-HDL Cholesterol as a Predictor of Cardiovascular Disease in Type 2 Diabetes. Diabetes Care, 2003; 26(1):16-23. CVD = Cardiovascular Disease

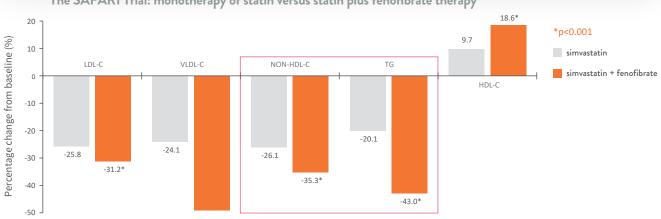


#### Study Design:

This multi-center, randomized, double-blind, parallel-group, therapeutic-confirmatory clinical trial evaluated the efficacy and tolerability of fixed-dose combination therapy with pitavastatin/fenofibrate 2/160 mg in Korean patients with a high risk for CVD and a controlled LDL-C level (<100 mg/dL) and a TG level of 150- 500 mg/dL after a run-in period with pitavastatin 2 mg alone.

Reference: 1.1hm SH, Chung WB, Lee JM, et al. Efficacy and tolerability of Pitavastatin versus Pitavastatin/Fenofibrate in high-risk Korean patients with mixed dyslipidemia: A multicenter, randomized, double-blinded, parallel, therapeutic confirmatory clinical trial. Clin Ther. 2020;42(10):2021-2035.

# A combination of fenofibrate with statin improved all lipid parameters<sup>1</sup>



## The SAFARI Trial: monotherapy of statin versus statin plus fenofibrate therapy

#### Study Design:

We conducted a multi-center (in the United States), randomized, double-blind, active-controlled, 18-week study to determine if combination therapy with simvastatin plus fenofibrate is more effective in reducing elevated TG levels, thus improving the lipoprotein pattern in patients with combined hyperlipidemia compared with simvastatin monotherapy, and to evaluate safety and tolerability.

Patients (aged 21 to 68 years) with a diagnosis of combined hyperlipidemia (fasting TG levels >150 and <500 mg/dl, and LDL cholesterol >130 mg/dl) received simvastatin monotherapy (20 mg/day, n 207) or simvastatin 20 mg plus fenofibrate (160 mg/day) combination therapy (n 411) for 12 weeks following a 6-week diet and placebo run-in period. From baseline to week 12, median TG levels decreased 43.0% (combination therapy) and 20.1% (simvastatin monotherapy [treatment difference 23.6%, p <0.001]). Mean LDL cholesterol levels decreased 31.2% and 25.8% (treatment difference 5.4%, p <0.001), and high-density lipoprotein cholesterol levels increased 18.6% and 9.7% (treatment difference 8.8%, p <0.001) in the combination therapy versus monotherapy groups, respectively

#### Reference

1. Grundy SM, Vega GL, Yuan Z, Battisti WP, Brady WE, Palmisano J. Effectiveness and tolerability of simvastatin plus fenofibrate for combined hyperlipidemia (the SAFARI trial). Am J Cardiol. 2005;95(4):462-468.

# A statin with fenofibrate reduced the risk of major CV events in dyslipidaemic patients with type 2 diabetes<sup>1</sup>

### **CVD RISK REDUCTION**

### IN PATIENTS WITH DYSLIPIDAEMIA<sup>®</sup> AND TYPE 2 DIABETES<sup>®</sup> (POST-TRIAL FOLLOW-UP OF ACCORD LIPID STUDY)





SIMVASTATIN + FENOFIBRATE (160mg/day)

#### **PRIMARY OUTCOMES:** first occurrence of a nonfatal myocardial infarction (MI), nonfatal stroke or death from a cardiovascular cause.

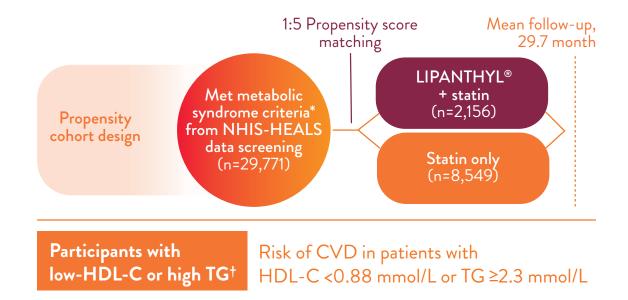
MEAN FOLLOW-UP TIME OF 9.7 YEARS

# **FENOFIBRATE** THERAPY WITH A STATIN

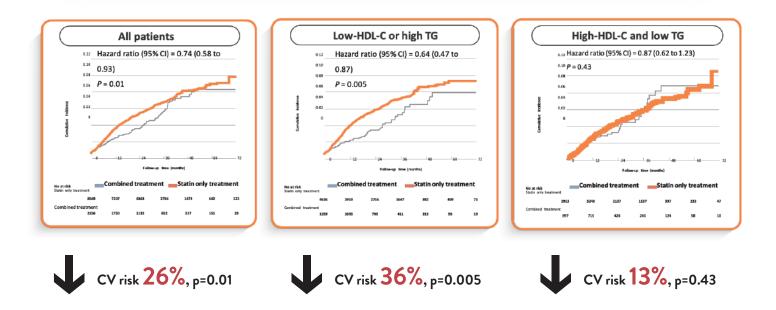
WAS ASSOCIATED WITH REDUCED CARDIOVASCULAR DISEASE IN STUDY PARTICIPANTS WITH DYSLIPIDAEMIA

\*Dyslipidaemia at baseline defined as trigylcerides > 204mg/dl and HDL < 34mg/dl Adapted from Elam MB et al. JAMA Cardiology 2016

ECLIPSE-REAL demonstrated CV outcomes of LIPANTHYL<sup>®</sup> add-on therapy among Asian patients with metabolic syndrome in the real-world setting<sup>1</sup>

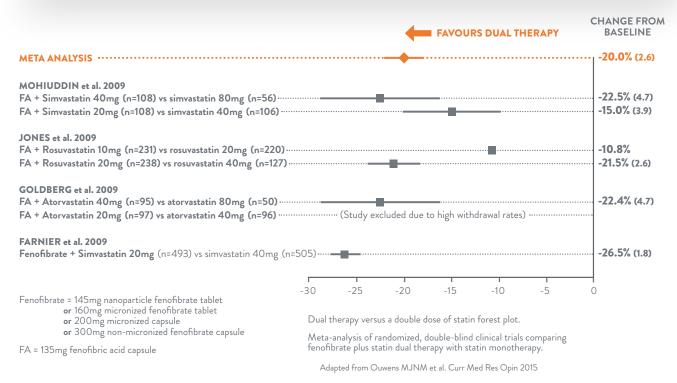


Combined treatment with statin and fenofibrate showed better CV risk reduction<sup>1</sup>



Reference: 1. Kim NH, et al. Use of fenofibrate on cardiovascular outcomes in statin users with metabolic syndrome: propensity matched cohort study. BMJ. 2019 Sep 27;366:I5125.

# A FIBRATE + STATIN combination lowered triglicerides more effectively than a double dose of statin<sup>1</sup>



#### Reference:

1. Ouwens MJNM. Ansquer J-C. Dreissen S. Systematic literature review and meta-analysis of dual therapy with fenofibrate or fenofibric acid and a statin versus a double or equivalent dose of statin monotherapy. Curr Med Ros Opin 2015; 31: 2273-2285.

No evidence for such a risk [of rhabdomyolysis] was noted in our [ACCORD] study, a finding that was compatible with evidence that fenofibrate, in contrast to gemfibrozil, does not increase plasma concentrations of statins<sup>1,2</sup>

ACCORD LIPID KEY SAFETY RESULTS <sup>1,2</sup>						
Type of adverse event	Event	LIPANTHYL® - simvastatin (n=2,765)	Simvastatin (n=2,753)	p value		
Muscular <sup>*</sup>	Myositis or rhabdomyolysis	4 (0.1%)	3 (0.1%)	NS		
Muscular	CPK ever >10x ULN	10 (0.4%)	9 (0.3%)	NS		
Renal	End-stage renal disease and dialysis	75 (2.7%)	77 (2.8%)	NS		
	Microalbuminuria ≥30 to <300 mg albumin/g creatinine	1,050 (38.2%)	1,137 (41.6%)	0.01		
	Macroalbuminuria ≥300 mg albumin/g creatinine	289 (10.5%)	337 (12.3%)	0.04		
	Creatinine Women ever >1.3 mg/dL Men ever >1.5 mg/dL	235 (27.9%) 698 (36.7%)	157 (18.7%) 350 (18.5%)	<0.001 <0.001		
Hepatic	ALT >3x ULN	52 (1.9%)	40 (1.5%)	NS		
	ALT >5x ULN	16 (0.6%)	6 (0.2%)	0.03		

Prospective meta-analysis of data from 90 056 individuals in 14 randomised trials of statins was done. Data were obtained on 90 056 participants, of whom 42 131 (47%) had pre-existing CHD, 21 575 (24%) were women, 18686 (21%) had a history of diabetes, and 49 689 (55%) had a history of hypertension. The primary meta-analyses were to be of the effect on clinical outcome in each trial weighted by the absolute LDL cholesterol difference in that trial at the end of the first year of the follow-up and are reported as the effects per 1.0 mmol.L reduction in LDL cholesterol. The main prespecified outcomes were all causes mortality, CHD mortality and non-CHD mortality.

\*The risk of muscle toxicity may be increased if the drug is administered with another fibrate or an HMGCoA reductase inhibitor, especially in case of pre-existing muscular disease. Consequently, the coprescription of fenofibrate with HMG-CoA reductase inhibitor or another fibrate should be reserved to patients with severe combined dyslipidaemia and high cardiovascular risk without any history of muscular disease and with a close monitoring of potential muscle toxicity.

CPK = creatine phosphokinase; ULN = upper limit of normal; ALT = alanine transaminase

\*Company Core Data Sheet. Fenofibrate, Abbott, 22nd February 2021.

#### Reference

1. ACCORD Study Group. Effects of Combination Lipid Therapy in Type 2 Diabetes Mellitus. N Engl J Med. 2010;362:1563-74.

2. Supplement to: The ACCORD Study Group. Effects of Combination Lipid Therapy in Type 2 Diabetes Mellitus. N Engl J Med. 2010;362:1563-74. DOI: 10.1056/NEJMoa1001282.

2016 AHA Statement: statin-fibrate combination therapy is indicated, fenofibrate or fenofibric acid is preferred because of a reduced incidence of DDIs compared with statin-gemfibrozil combination therapy

# **Recommendations for Statin-Fibrate DDIs**

1. When statin-fibrate combination therapy is indicated, fenofibrate or fenofibric acid is preferred because of a reduced incidence of DDIs compared with statin-gemfibrozil combination therapy.

2. There are circumstances in which gemfibrozil may be the only available fibrate, cost may be a consideration, or fenofibrate may not be tolerated. Under any circumstance, the use of gemfibrozil should be avoided in combination with lovastatin, pravastatin, and simvastatin.

3. On the basis of pharmacokinetic evidence, the combination of gemfibrozil with lovastatin, pravastatin, and simvastatin is potentially harmful and should be avoided.



Fenofibrate showed minor significant pharmacokinetic interactions when tested with several statins <sup>1</sup>

The lack of fenofibrate (fenofibric acid, fenofibric acid glucuronide) effect on statin glucuronidation or the CYP2C8 pathway results in no significant changes in the blood levels of the statin or fenofibric acid if the drugs are administered together.<sup>1</sup>

Major metabolic pathway	Fenofibrate	Statin	Gemfibrozil
Glucuronidation	UGT1A9 & 2B7	UGT1A1 & 1A3 with most of statin	UGT1A1 & 1A3
Effect on oxidative	CYP2C9 mild-to-moderate inhibitor	metabolism via CYP 2C9 isoenzymes Atovastatin & Rosuvastatin	CYP2C9 Strong inhibitor
metabolism	CYP2C19 \ 2A6 mild inhibitor	metabolism via CYP 2C8 isoenzymes Simvastatin	CYP2C8 Strong inhibitor

Reference

1.Davidson MH. Statin/fibrate combination in patients with metabolic syndrome or diabetes: Evaluating the risks of pharmacokinetic drug interactions. Expert Opin Drug Saf. 2006;5(1):145-156.

# 2019 ESC/EAS guidelines for the management of dyslipidaemias recommend the following target lipid levels<sup>1,2</sup>

- The targeted approach to lipid management is primarily aimed at reducing LDL-C.<sup>1,2</sup>
- Non-HDL-C evaluation recommended for risk assessment, particularly in people with high triglyceride levels, diabetes mellitus, obesity or very low LDL-C levels.<sup>1,2</sup>

CVD risk	LDL-C Target Levels	Non-HDL-C Target Levels
Very high risk*	LDL-C <1.4 mmol/L (<55 mg/dL)	<2.2 mmol/L (< 85 mg/dL)
High risk	LDL-C <1.8 mmol/L (<70 mg/dL)	< 2.6 mmol/L (< 100 mg/dL)
Moderate risk	LDL-C <2.6 mmol/L (<100 mg/dL)	<3.4 mmol/L (< 130 mg/dL)
Low risk	LDL-C <3.0 mmol/L (<116 mg/dL)	

\*This target LDL-C also applies to patients with established atherosclerotic cardiovascular disease, as per the ESC Guidelines on cardiovascular disease prevention in clinical practice.<sup>2</sup>

References

1. Mach F, Baigent C, Catapano AL, et al; ESC Scientific Document Group. 2019 ESC/EAS Guidelines for the management of dyslipidaemias: lipid modification to reduce cardiovascular risk. Eur Heart J 2020;41:111–188. 2. Visseren FLJ, Mach F, Smulders YM, et al; ESC National Cardiac Societies; ESC Scientific Document Group. 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. Eur Heart J 2021;42:3227–3337.

# 2020 AACE/ACE Guideline Treatment Algorithm on Dyslipidemia for Diabetic Patients<sup>1</sup>

Diele eeste eeu		Treatment goals			
Risk category	Risk factors / 10-year risk	LDL-C (mmol/L)	Non-HDL-C (mmol/L)	Apo B (mmol/L)	
Extreme risk	<ul> <li>Progressive ASCVD including unstable angina in patients after achieving an LDL-C &lt;70 mg/dL</li> <li>Established clinical cardiovascular disease in patients with DM, CKD 3/4, or HeFH</li> <li>History of premature ASCVD (&lt;55 male, &lt;65 female)</li> </ul>	<1.4	<2.0	<1.8	
Very high risk	<ul> <li>Established or recent hospitalization for ACS, coronary, carotid, or peripheral vascular disease</li> <li>Diabetes or CKD 3/4 with one or more risk factor(s)</li> <li>HeFH</li> </ul>	<1.8	<2.6	<2.0	
High risk	≥2 risk factors and 10-year risk >10% or CHD risk equivalentc, including diabetes or CKD 3/4 with no other risk factors	<2.6	<3.4	<2.3	
Moderate risk	≥2 risk factors and 10-year risk <10%	<3.4	<4.1	NR	
Low risk	≤1 risk factor	<4.1	<4.9	NR	

Reference

1. Garber JJ, Handelsman Y, Grunberger G, Einhorn D, Abrahamson MJ, Barzilay JI, Blonde L, Bush MA, DeFronzo RA, Garber JR, Garvey WT, Hirsch IB, Jellinger PS, McGill JB, Mechanick JI, Perreault L, Rosenblit PD, Samson S, Umpierrez GE. CONSENSUS STATEMENT BY THE AMERICAN ASSOCIATION OF CLINICAL ENDOCRINOLOGISTS AND AMERICAN COLLEGE OF ENDOCRINOLOGY ON THE COMPREHENSIVE TYPE 2 DIABETES MANAGEMENT ALGORITHM - 2020 EXECUTIVE SUMMARY. Endocr Pract. 2020 Jan;26(1):107-139. doi: 10.4158/CS-2019-0472. PMID: 32022600.

# **NON-HDL-C: A CLINICAL** CHALLENGE...

- Non-HDL-C is a recognised secondary target for the treatment of residual CV risk<sup>1</sup>
- Despite statin monotherapy patients can remain at substantial CV risk<sup>2</sup>

# WHEN COMPARED WITH **A STATIN ALONE**

- · Offers additional control in atherogenic dyslipidaemia<sup>3,4</sup>
- · Lipanthyl in combination with a statin reduced Non-HDL-C<sup>3</sup>
- · Lipanthyl in combination with a statin reduced risk of major CV events in patients with dyslipidaemia and Type 2 diabetes<sup>4</sup>

# FENOFIBRATE

# YOUR FORMULA FOR SUCCESS

## IN ATHEROGENIC DYSLIPIDAEMIA<sup>3,4</sup>

Hirsch GA, Vaid N and Blumenthal RS. The significance of measuring Non-HDL-Cholesterol. Preventive Cardiology, 2002; 5:156-159.
 Cholesterol Treatment Trialists' (CTT) Collaborators. Baigent C, Keech A, Kearny PM et al. Efficacy and safety of cholesterollowering tr 14 randomised trials of statins. Lancet 2005; 366:1267-1278.

Fandonissed trais of statins. Lancet 2005; 366:1267-1278.
 Grundy SM, Vega G, Yuan Z et al. Effectiveness and Tolerability of Simvastatin Plus Fenofibrate for Combined Hyperlipidemia (The SAFARI Trial). Am J Cardial. 2005; 95: 462-468.
 Elam MB, Ginzacardio.2016,4828. Published online December 28, 2016
 IQVIA MIDAS database Q2 2022.

image: Freepik.com

### LIPANTHYL PENTA 145

#### 1. NAME OF THE MEDICINAL PRODUCT LIPANTHYL® PENTA 145, Film-coated table 2. QUALITATIVE AND QUANTITATIVE COMP One film-coated tablet contains 145.0 m

pien h fi**l**n

#### 132.00 mg lactose mono? 145.00 mg sucrose 0.50 mg soybean lecithin the full list of ex

3. PHARMACEUTICAL FORM Film-coated tablet. White, oblong, film-coated tablets and the " 1 logo on the other sid

#### CLINICAL PARTICULARS 1. Therapeutic indications

amaconograd scanners : the following conditions: entrialyceridemia with or without low HDL

## triglyc

 Common
 Uncommon
 Bare
 Frequencies

 (≥ 1/100,
 (≥ 1/10,000,
 (≥ 1/10,000,
 unknown

 < 1/10)</td>
 < 1/100)</td>
 < 1/1,000)</td>
 (cannot be

				the available data)
Blood and lymphatic system disorders			Haemoglobin decreased White blood cell count decreased	0.01
immune system disorders			Hypersensitivity	
Nervous system disorders		Headache		
Vascular disorders		Thromboembolism (, pulmonary embolism, deep wein thrombosisi*		
Respiratory tract, thoracic and mediastina disorders				Interstitial pulmonary diseases
Gastrointestinal tract disorders	Gastrointestinal signs and symptoms labdominal pain, neusea, vomiling, diambas, flatulence)			
Hepatobilary disorders	Transaminases increased (see Section 4.4)	Cholel thiasis (see Section 4.4)	Hapetitis	Jaundice, complications of chole/thiasis (e.g. cholecystitis, cholecystitis, billary colic)
Skin and subcutaneous tissue disorders		Cutaneous hypersensitivity (e.g. rashes, pruntus, urticaria)	Abpecia Photosensitivity	Severe

H < 30 ml/min/1.73 m², is present. ween 30 and 59 ml/min/1.73 m², the daily dose ceed 100 mg fenofibrate (standard) or 67 mg

follow-up, the eGFR decreases persister n/1.73 m<sup>2</sup>, fenofibrate should be discontinued. Hepatic impairment: .IPANTHYL® PENTA 145 is

istration: duct may be given at any time of the day, with the Section 5.20 wallowed whole with a glass

sease ency (estimated glo

or acute

to any of the

connective tissue and bone disorders		le.g. myelgia, myositis, muscular spesms and weakness)		11102001194900
Reproductive system and breast disorders		Sexual dysfunction		
General disorders and administration site conditions				Fatigue
	Blood homocysteine level increased**	Blood creatinine increased	Biood urea increased	

ia, obstructive liver disease LIPANTHYL® PENTA 145 ti of hyperlipidaemia reatment with diur

transaminate should be discontinued should be discontinued is increase to more than

ther lipid-lowering agents. The symptomatic treatment should be in pportive measures taken. Fenofibrate

PHARMACOLOGICAL PROPERTIES

hereditary p or glucose

f treatment. als, 10% of patients had a creatinine increase greater than 30 µmol with co-administered invastatin versus 4.4% with statin monotherapy. the co-administration had clinically otherapy.

ardiovascular deaths compared (hazard ratio [HR] 0.92; 95% CI: olute risk reduction: 0.74%). In th

as and a clinical trial, fer duced by ADP, arachido

THE WORLD'S NO. 1 FIBRATE<sup>5</sup>

4.6. Pregnancy and Lactation

There are no PENTA 145

7. Effect s on the ability to PANTHYL®PENTA 145 has in other services and use machines.

4.8. Undesirable effects The most commonly repo therapy are digestive or g

man milk. A risk to the suckling child ca sequently, LIPANTHYL\*PENTA 145 shoul

. on fertility from the use of LIP

iy: rsible effects on fertility have been ot

The following undesirable effects have been obs placebo-controlled clinical trials (n=2344) and po

n rats and mice, liver tumors have been found at high high and mice, liver tumors have been found at high high are specific to small rodents and have bserved in other animal species. This is of no re

oxicity. F ing deliv

icinal pro

### 4.5. Interac

6. PHARMACEUTICAL PARTICULARS 6.1. List of excipients soalium, inc.g Coating: Polyvinyl alcohol, Titanium di lenithin, Xanthan gum,

etic studies with single and repe d that the active substance does

6.3. Shelf-life The plasma elimination half-life of fenofibric acid is ap

6.2. Incompa Not applicable

#### 6.4. Special pred Store in the orig autions for storage inal package, at a tem 6.5. Nature s of container ips (clear PVC/PE/ PVD)

aluminum comple Box of 30 tablets.

6.6. Instructions for use No special requirements.

6.7. Date of last revision Jan 2019 Version: SOLID1000319076v6.0

Abbott Laboratories Limited

Abbott

HKG2253582-2