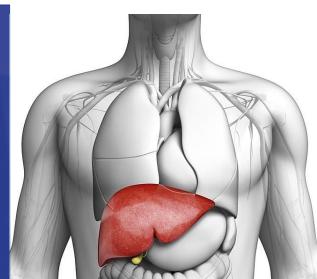


ADVANCING
CARDIOVASCULAR
AND
NASH
OPPORTUNITIES



CORPORATE PRESENTATION

March 2018

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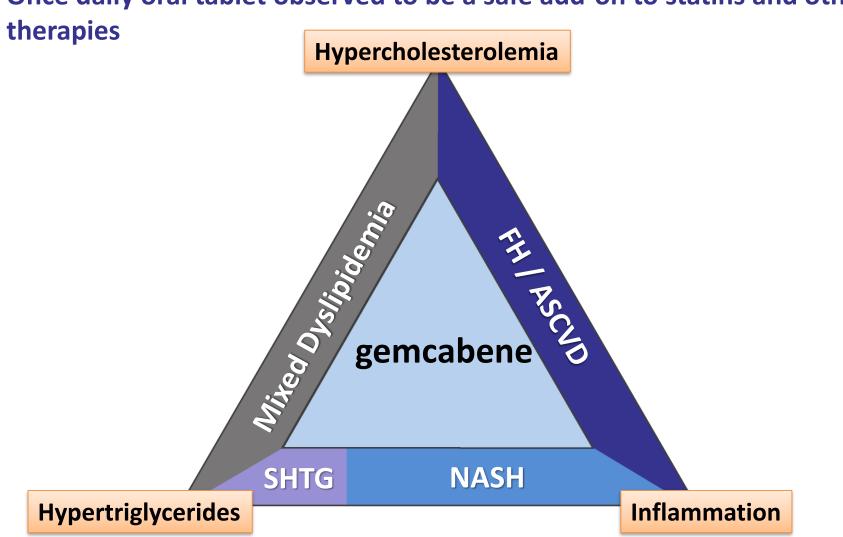
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Gemcabene Addresses Cardiometabolic Diseases

Once daily oral tablet observed to be a safe add-on to statins and other



Gemcabene Pipeline and Clinical Plans

Multiple Value Drivers Expected in 2018

INDICATION		PH 1	PH 2	PH 3	NDA	ANTICIPATED MILESTONES	
SHTG Severe Hypertriglyceridemia						Top-line data expected in 2Q 2018; Full data set expected 2H 2018	
NAFLD/ NASH	Adult					POC Programs Initiated; POC data	
Non-alcoholic Fatty Liver Disease / Non-alcoholic Steatohepatitis	Pediatric					expected 2H 2018; Full data set expected 1H 2019	
HOFH Homozygous Familial Hypercholesterolemia							
HeFH Heterozygous Familial Hypercholesterolemia						End of Phase 2 meetings with FDA Plan to initiate P3 in FH 2H 2018	
ASCVD Atherosclerotic Cardiovascular Disease							



Gemcabene Pipeline in SHTG & NASH

Clinical Trial Results in 2018 and Early 2019

INDICATION		PH 1	PH 2	PH 3	NDA	ANTICIPATED MILESTONES
SHTG Severe Hypertriglyceridemia						Top-line data expected 2Q '18; Full data set expected 2H '18
NAFLD/ NASH	Adult (FPL)					Both POC Programs Initiated FPL POC data expected 2H '18
Non-alcoholic Fatty Liver Disease / Non-alcoholic Steatohepatitis	Pediatric					Pediatric POC data expected Q1'19



Gemcabene: Keys to NAFLD/NASH Success



SAFETY

- Nearly 1,100 patients treated with gemcabene
- No muscle or liver toxicities in patients treated
- No drug interactions with statins or metformin



ATHEROGENIC PROFILE

- Significant LDL-C reduction as monotherapy and on top of statins
- Significant atherogenic burden with reductions in non-HDL-C, apoB and apoE



TRIGLYCERIDES

- Significant triglyceride reductions in hypertriglyceridemic patients
- For patients with TG ≥ 200, GEM lowered TG 39%; TG ≥ 500, GEM lowered TG 60%



INFLAMMATION

- Gemcabene has demonstrated over 40% reductions in hsCRP
- Significant TNF-α and IL-6 reduction in preclinical STAM™ Model



INSULIN SENSITIVITY

Gemcabene demonstrated a doubling of the glucose disposal rate suggesting potential effects on insulin sensitivity



Epidemic of NAFLD and NASH in Children

Obesity is the Single Greatest Risk Factor for Pediatric NAFLD



- NAFLD is estimated to affect 7M children in US
- Pediatric NASH estimated prevalence is 2M children in US
- 38% of obese children have NAFLD;
 20% of children ages 12-19 are obese

OVERWEIGHT OR OBESE CHILDREN (AGES 2-19)

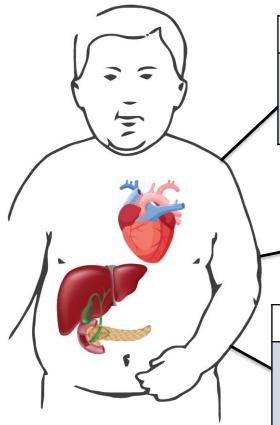
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OBESE CHILDREN (AGES 2-19)

Fussilo S, Rudolph B. Nonalcoholic fatty liver disease. Pediatrics in Review. 2015;36(5):198–206; The National Institute of Diabetes and Digestive and Kidney Diseases, 2016; Data derived from Health, United States, 2011 (NCHS); Schwimmer JB, Deutsch R, Kahen T, Lavine JE, Stanley C, and Behling C. Prevalence of fatty liver in children and adolescents. Pediatrics. 2006;118(4):1388–1393; CDC National Center for Health Statistics, FactStats – Overweight Prevalence, 2016; AHA Obesity Information, 2016, M. J.

Complications in Children with NAFLD/NASH

Premature Risk of Liver Transplant and Mortality



Dyslipidemia / Cardiovascular Disease

- Hypercholesterolemia, hypertriglyceridemia, low HDL
- Highly atherogenic lipid profile with more severe liver disease
- Left ventricular systolic and diastolic dysfunction
- Hypertension reported in about 20% 30%

Cirrhosis / Hepatocellular Carcinoma

- 10% 25% progress to advanced fibrosis/cirrhosis by 3rd-4th decade of life
- Pediatric NAFLD/NASH patients are more likely than adults to progress to decompensation (permanent liver damage)

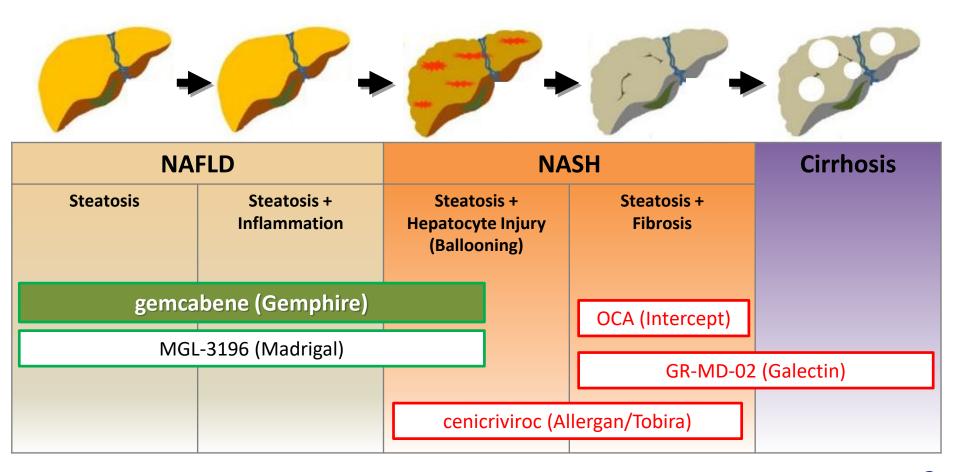
Diabetes

- An individual's risk of developing diabetes is increased approximately 5-fold if they have NAFLD
- Prevalence of prediabetes and diabetes are 23% and 6.5%, respectively

Pediatric NAFLD is associated with a <u>1,360%</u> increase in mortality in the 20 years following diagnosis (13.6 SMR)

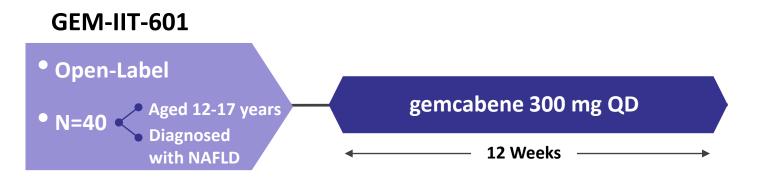


Gemcabene in NAFLD-Preventing Progression





Pediatric NAFLD Phase 2a Trial Design



Principal Investigator

Miriam Vos, MD, MSPH, Emory University School of Medicine

Primary Endpoint:

% change in ALT from baseline to 12 weeks

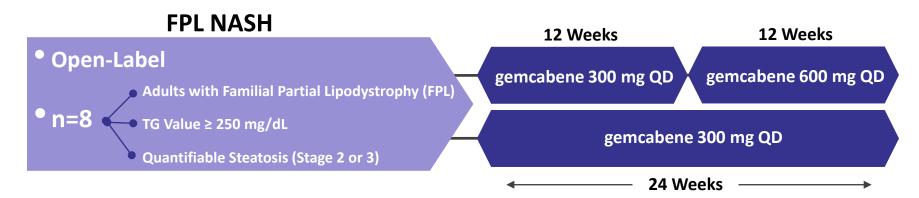
Secondary Endpoints:

- Change in hepatic steatosis as measured by MRI-PDFF
- Change in liver inflammation and fibrosis (LIF) score by MRI Liver Multiscan
- Change in AST, insulin sensitivity, serum lipids (including TG), apolipoproteins, and inflammatory markers (including hsCRP)
- Safety and tolerability



Adult NASH POC Phase 2a Trial Design

Open-Label Trial Underway in Familial Partial Lipodystrophy (FPL) Patients



Principal Investigator

Elif Oral, MD, University of Michigan

Primary Endpoint:

% change in triglycerides (TG) from baseline to 12 weeks

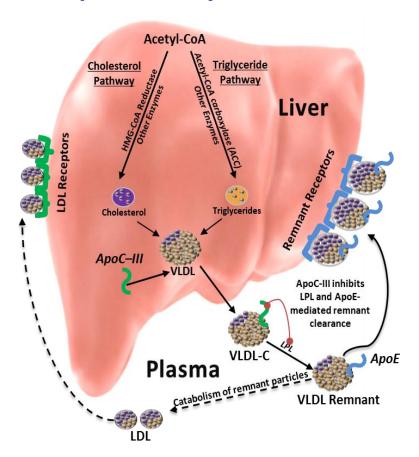
Secondary Endpoints:

- Change in hepatic steatosis as measured by MRI-PDFF at 12 and 24 weeks
- Change in NAS (histology) at 24 weeks
- Change in AST, insulin sensitivity, serum lipids (including TG), apolipoproteins, and inflammatory markers (including hsCRP)
- Safety and tolerability



Gemcabene's Novel Dual Mechanism of Action

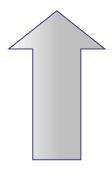
Complementary and Additive to Statin MOA Without DDI



Gemcabene further lowers LDL-C, non-HDL-C, Total-C, Triglycerides, ApoB, and hsCRP when added to background statin therapy, without showing DDI

IMPROVES CLEARANCE

- Reduces ApoC-III gene expression and plasma ApoC-III protein levels
- Enhances VLDL-C clearance through increased affinity for the hepatic remnant receptor



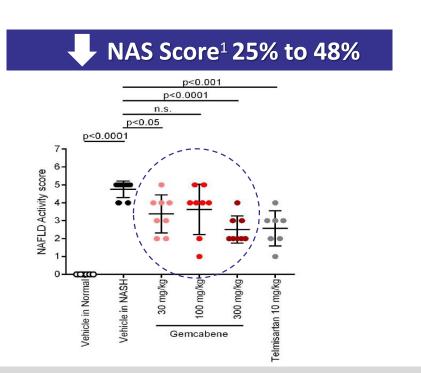
REDUCES PRODUCTION

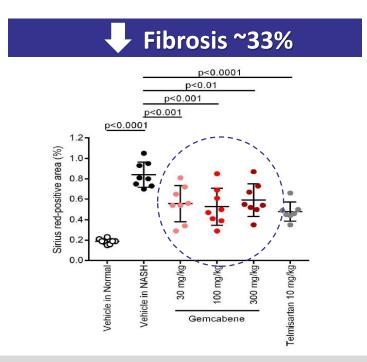
- Inhibits de novo synthesis of TGs and cholesterol in the liver
- TG effects due to inhibition of acetyl CoA carboxylase 1
- VLDL-C particles leaves fewer apolipoproteins for catabolism to LDL-C



Gemcabene Improves NASH in Rodent Model

Gemcabene Lowers NAFLD Activity Score (NAS) and Fibrosis in STAM™ Model





Gemcabene Comparable to Other Late Stage Compounds in STAM™ Model^{2,3,4}

TOBIRA'S CVC (CCR2/CCR5 INHIBITOR):

~23% to 30% improvement in NAS score ~60% reduction in fibrosis

INTERCEPT'S OCA (FXR AGONIST):

~23% improvement in NAS score

ENANTA'S EDP-305 (FXR AGONIST):

~30% improvement in NAS score

1. NAFLD Activity Score (NAS) composited comprised of steatosis, inflammation, & ballooning; 2. This comparison is for illustrative purposes as these were separate studies; 3. E. Lefebre et al., The Liver Meeting AASLD, Abstract 30 presentation, 2013; 4. Enanta Pharmaceuticals Company Presentation, 2016

Gemcabene Has Been Shown to Improve Many **Parameters in NASH**

Lowered Activity of Inflammation & Lipid Metabolism Genes in STAM™ Model

Select Hepatic Gene Expression and Plasma Markers

Category	Gene Expression/	Vehicle in NASH	Gemcabene (300 mg/kg)
	Plasma Markers	(vs Vehicle in Normal)	(vs Vehicle in NASH)
	IL-6	A	▼
	CRP		V
	CCR2	A	V
Infloremention	CCR5	A	▼
Inflammation	TNF-α	A	▼
	MCP-1	A	▼
	MIP-16	A	▼
	NF-kB	A	▼
Fibussis	TIMP-1	A	▼
Fibrosis	MMP-2	<u> </u>	▼
	ApoC-III	V	▼
Lipid	SULF-2	A	▼
Metabolism	ADH4		▼
	ACC1		▼



Summary

Gemcabene Provides Major Benefits for Cardiometabolic Patients including NASH

- Lowers LDL-C, Triglycerides and hsCRP
- Observed to be safe and effective in 1100 patients
- No observed DDI with statins and other drugs
- Oral, once daily, small molecule in-licensed from Pfizer
- Multidimensional MOA targets many underlying pathologies

Targeting Multiple Large Markets – 16-18M U.S. Patients

- Familial Hypercholesterolemia (FH: HoFH & HeFH) 1.3M pts
- Severe Hypertriglyceridemia (SHTG) 3M pts
- Fatty Liver Disease (NAFLD/NASH) 6-8M pts
- High-risk cardiometabolic patients 6.1M pts

Near Term Clinical Trial Catalysts including NASH POC Trials

