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#### INVESTMENT HIGHLIGHTS



**CIVI 030**, for which an NDA has been submitted to the FDA for the treatment of frostbite, **an orphan disease** with no FDA approved treatments.

We believe the patented oral delivery platform, COPE, is an enhancer of GI drug absorption, facilitating **oral delivery of oligonucleotide drugs**, and enables the efficient development of several product candidates.

Seasoned leadership team with strong track record in drug discovery, development and successful commercialization of therapies.

Multiple near-term clinical and regulatory milestones over next 6-12 months.

Existing Investors: Boxer Capital, Roche Ventures, Tang Capital, RA Capital and a leading NYC-based biotechnology investment fund.

#### EXPERIENCED MANAGEMENT TEAM



#### DEVELOPMENT PIPELINE

Robust pipeline with mix of early and late-stage programs

Drug	Target	Rt of Admin	Indication	Development Stage				
				Discovery	Pre-clinical	Phase I/II	Phase III	NDA
CIVI 008	PCSK-9	Oral	Lipid disorders			Expected IND filing 4Q'23		
lloprost (CIVI 030)	IP-Rec.	I.V.	Frostbite					Expected July'23 PDUFA date

COPE Num Platform	nerous	Oral	Numerous large/small market; indications tbd				
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# CIVI 008

A long-acting, third generation PCSK9 in development for treatment of hypercholesterolemia and prevention of atherosclerotic cardiovascular disease (ASCVD)

#### CARDIOVASCULAR DISEASE(CVD), PRINCIPALLY ISCHEMIC HEART DISEASE (IHD) AND STROKE, ARE THE LEADING CAUSE OF GLOBAL MORTALITY AND A MAJOR CONTRIBUTOR TO DISABILITY<sup>1</sup>

-11-	Elevated LDL-C causes ASCVD and ranks (behind blood pressure and diet) high in modifiable risk factors that
٧v	could substantially reduce CVD burden. <sup>1</sup>

- It is now widely accepted that 'lower LDL-C for longer is better ' is the optimal treatment goal for
   hypercholesterolemia. Not infrequently, optimal control cannot be obtained with statins alone, especially those at high and very high risk<sup>2</sup>
- PCSK9s have now been added to treatment guidelines to fulfill this need by providing unprecedented LDL-lowering. They have proven clinical benefit at therapeutic prevention of ASCVD.<sup>3,4</sup>
- However, high prices and inconvenient dosing regimens remain significant barriers to broad PCSK9 use.<sup>5</sup>

#### We believe CIVI 008 has the potential to drive widespread uptake by combining mAblike LDL impact with oral dosing convenience and a lower cost

<sup>1</sup> Roth GA et al. J Am Coll Cardiol 2020 <sup>2</sup> Braunwald E European Heart J 2021 <sup>3</sup> Grundy S et al J Am Coll Cardiol 2019
 <sup>4</sup> MACH F et al. Eur Heart J 2019
 <sup>5</sup> Baum SJ et al Clinical Cardiol 2017

### CIVI 008 MOA: COMPARISON TO APPROVED ANTI-PCSK9 MADS



Based on results of preclinical studies

<sup>1</sup>Lagace Curr Opin Lipidol (2014) 25: 387-393

<sup>2</sup> Choi RE et al. Nature Rev Cardiol (2021) 18;701-711
 <sup>3</sup> Krittanawong et al. Curr Problems Cardiol (2021); doi.org/10.1016/j.cpcardiol.2021.101043

### CIVI 008: TARGET PROFILE FOR HIGH RISK ASCVD

CIVI 008 targets maintenance of the durable profile of mAbs with potentially greater convenience and cost-effective profile

	CIVI 008 (Target Product Profile)	mAbs	Inclisiran	
LDL Reduction	Stable and robust LDL reduction of >60% throughout the steady-state dosing cycle	(~60% and stable through the dosing cycle)	~50% time averaged reduction with return towards pre-treatment level by end of dosing cycle	
Safety Profile	Clean safety profile Clean safety profile		Clean safety profile	
Dose and route of administration	Daily Oral	Subcutaneous injection only: every two weeks or monthly by multiple injections or on-body infusion	Subcutaneous injection only: day 1, month 3 and every 6 months thereafter	
COGS	Expected low	High	Higher	

### SIZEABLE POTENTIAL MARKET OPPORTUNITY FOR ORAL PCSK9 IN SECONDARY PATIENT

Market Segmentation				Patients on Statin Not Achieving Target <sup>1</sup> (2031)	Target CiVi Oral Share <sup>1</sup>	Assumed CiVi Patients <sup>4</sup> (2031)	Assumed Price <sup>4</sup>	CiVi Market Size Opportunity
POPULATION WITH ELEVATED LDL-C <sup>1</sup> (35% of Adult Population in USA 250 Million in 2025)	NON- FAMILIAL (99%)	NON- FAMILIAL (99%) SECONDARY (58%) <sup>3</sup>	LOW RISK					
			HIGH RISK					
			LOW RISK LDL 70-100	5.8 Million	10%-15%	580K-870M	\$2k-\$3k	\$1.2B-\$2.6B
			HIGH RISK LDL>100	5.8 Million	25%-30%	1.45M-1.74M		\$2.9B-\$5.2B
	FAMILIAL <sup>2</sup> (both HeFH and HoFH)	ALL	ANY	112 k	35%	39 k		\$78M - \$117M
Total				11.7 M	17%-22%	2.1M-2.6M	\$2k-\$3k	\$4.2B - \$7.8B US

1. 8.2 million on Statin \* 70.5% of patients "not controlled" (Heart Disease and Stroke Statistics—2018 Update: A Report From the American Heart Association Emelia J. Benjamin et al., Circulation March 6, 2018, Volume 137, Issue 10) 2. Familial Hypercholestorilemia: Approx. 1 per 250 in adult U.S. population (based on NHANES; not genetically confirmed). Knowing the Prevalence of Familial Hypercholesterolemia Matters, Circulation 2016;133:1054-1057 <a href="http://circ.ahajournals.org/content/133/11/1054">http://circ.ahajournals.org/content/133/11/1054</a> 3. CDC 2017 (NHANES, 2003-2014) 4. Internal modeling





## COPE ASO Platform

Enabling oral delivery of oligonucleotide drugs currently administered subcutaneously allowing new convenient dosing of several product candidates with high potential commercial value

## COPE PLATFORM OPPORTUNITY



Technology that enables safe and effective oral delivery is potentially the next frontier in oligonucleotide therapeutics. We believe such a technology has immense therapeutic potential

- In preclinical monkey studies, CIVI's proprietary COPE platform enabled oral delivery of different oligos and designs, supporting its broad utility for oral dosing of oligo therapeutics.
- The platform provides an opportunity for CIVI to:
  - Develop several product candidates within a relative short timeframe and at modest cost, and
  - Further monetize the platform beyond CIVI 008 through out-licensing to large pharma/biotech.
- IP broadly covering COPE platform filed world-wide in 2021.







CIVI 030 (IV lloprost)

A potent vasodilator and platelet inhibitor with anti-inflammatory and anti-fibrotic effects in development for the treatment of frostbite

# SEVERE FROSTBITE HAS SIGNIFICANT UNMET NEED AND OFFERS A UNIQUE COMMERCIAL OPPORTUNITY

- Intravenous iloprost is approved outside the US for several vascular conditions and is in the Wilderness Medical Society guidelines for the treatment of frostbite<sup>1</sup>
- Several published studies have documented a significant impact on amputation rates in frostbite patients
- Granted priority review with PDUFA July 18<sup>th</sup>
- Efficient commercialization strategy designed to optimize profitability with targeted R&D providing potential future upside



<sup>1</sup>McIntosh SE, et al. *Wilderness Environ Med.* 2019;30:S19-S32.

# FROSTBITE REPRESENTS A SMALL POPULATION WITH SIGNIFICANT UNMET NEED DUE TO IRREVERSIBLE MORBIDITY

- US annual incidence of frostbite patients treated at hospitals estimated at ~14k<sup>1</sup> Grade 3 amputation rates 31% - 67% Grade 4 amputation rates > 95%
- Due to severity of injury and amputation risk, frostbite is expensive to treat with mean US hospital inpatient charges of ~\$70k with readmissions >\$200k<sup>2,3</sup> (data from 2018 and 2021)
- Cases include both urban frostbite and outdoor recreation frostbite
- Published data suggests amputation rate of >50% for severe cases<sup>4,5,6</sup>; iloprost has the potential to provide substantial risk reduction<sup>5,6</sup>
- Market research with P&T committee members was very positive with a clear appreciation of the potential value iloprost brings to reducing risk of amputation in frostbite

<sup>1</sup>Source: IQVIA Data; projected to account for estimated capture rate
<sup>2</sup>Nygaard RM, Endorf FW. J Burn Care Res. 2018;39:676-679. 2. <sup>3</sup>Endorf FW,
Nygaard RM. J Burn Care Res. 2021;42:857-864.
<sup>4</sup>Cauchy E, et al. Wilderness Environ Med. 2001;12:248-255.
<sup>5</sup>Cauchy E, et al. N Engl J Med. 2011;364:189-190.
<sup>6</sup>Crooks S, et al. CJEM. 2022;24:622-629.

