

Larsucosterol (DUR-928) – DURECT’s Drug Candidate for Alcohol-Associated Hepatitis (AH)^{1,2}

- Larsucosterol: an endogenous sulfated oxysterol and an epigenetic modulator^{1,2}
- Endogenous epigenetic modulators are naturally occurring compounds in the body that operate within the nucleus of the cell to modulate gene expression without modifying the underlying DNA sequence¹
- Larsucosterol epigenetically modulates the expression of multiple clusters of master genes that are involved in many important cell signaling pathways through which it stabilizes mitochondria, reduces lipotoxicity, regulates inflammatory or stress responses, and promotes cell survival¹



Encouraging Results of Larsucosterol in a Phase 2a Study in AH³ - Phase 2b Trial (AHFIRM) Ongoing⁴



Survival

100% of patients (n=19) treated with larsucosterol, including 15 patients with severe AH (DF $\geq 32^*$), survived the 28-day follow-up period vs 26% historical 28-day mortality rate^{3,5}



Safety

No drug-related serious adverse events (SAEs) at 30, 90, or 150 mg doses (administered intravenously once or twice during the study period)³



Time to Discharge

74% of patients treated with larsucosterol discharged in under 4 days after a single dose³



Bilirubin

Patients with the most elevated bilirubin at baseline (serum bilirubin >8 mg/dL) had a median reduction from baseline of 25% by day 7 and 48% by day 28³

(Elevated bilirubin levels are usually an indication of liver disease and markedly elevated levels are typical of alcohol-associated hepatitis.)⁶

MELD (Model for End-Stage Liver Disease)⁷

- Patients with MELD scores of 11-20 are classified as having moderate AH
- Patients with MELD scores of 21-30 are classified as having severe AH

Median reduction from baseline in MELD among all larsucosterol-treated patients was over 2 points and among those with baseline bilirubin levels >8 mg/dL was 5 points by day 28³

Lille: AH patients with Lille <0.45 have an 85% 6-month survival rate (SR) vs 25% SR when Lille $>0.45^8$

- Lille overall response rate (RR - percentage of treated patients presenting Lille scores <0.45 after treatment): Superior RR in hospitalized AH patients for larsucosterol (89%) vs standard of care (53%)²
- Lille in severe AH patients³
 - Significantly lower Lille scores of severe AH patients (MELD 21-30) treated with 30 mg or 90 mg of larsucosterol vs historical control of severe AH patients treated with steroids⁹
 - MELD 21-30: 83% overall RR including all doses and 100% RR at 30 mg or 90 mg dose of larsucosterol
 - DF $\geq 32^*$: 87% overall RR including all doses and 100% RR at 30 mg or 90 mg dose of larsucosterol

*DF (Maddrey’s discriminant function) is the traditional model for evaluating the severity and prognosis in alcoholic hepatitis. DF ≥ 32 implies poor outcome with steroid treatment with one-month mortality ranging between 35% to 45%.¹⁰



Prognostic Indicators of Mortality

Larsucosterol is an investigational product and has not been approved by the FDA for marketing in the U.S. for any indication.

1. Wang Y, et al. *J Lipid Res.* 2021;62:1-14. 2. DURECT. Data on file. 3. Hassanein T, et al. *Am J Gastroenterol.* 2023;10.14309/ajg.0000000000002275. 4. ClinicalTrials.gov identifier: NCT04563026. Accessed June 28, 2023. 5. Hughes E, et al. *PLoS One.* 2018;13:1-10. 6. Guerra Ruiz AR, et al. *Adv Lab Med.* 2021;2:352-361. 7. Singal AK, et al. *J Hepatol.* 2018;69:534-543. 8. Louvet A, et al. *Hepatology.* 2007;45:1348-1354. 9. McClain C, et al. Presented at: AASLD 2019. November 8-12, 2019. Poster 1376. 10. Akriviadis E, et al. *Gastroenterology.* 2000;119:1637-1648.