# Rondecabtagene Autoleucel, an Autologous, Dual-Targeting CD19/CD20 CAR T-Cell Candidate Manufactured from CD62L+ Enriched T Cells, Achieves Durable Responses in Patients with Large B-Cell Lymphoma

**Sarah M. Larson<sup>1</sup>**, Umar Farooq<sup>2</sup>, Tahir Latif<sup>3</sup>, Felix Mensah<sup>4</sup>, Bradley D. Hunter<sup>5</sup>, Stefan O. Ciurea<sup>6</sup>, Nebu Koshy<sup>7</sup>, Locke Bryan<sup>8</sup>, Boyu Hu<sup>9</sup>, William Clark<sup>10</sup>, Hassaan Yasin<sup>11</sup>, Yeonhee Kim<sup>12</sup>, Greg Kaufman<sup>12</sup>, Akil Merchant<sup>13</sup>

<sup>1</sup>UCLA Medical Center, Los Angeles, CA, USA; <sup>2</sup>University of Iowa, Iowa City, IA, USA; <sup>3</sup>University of Cincinnati Medical Center, Cincinnati, OH, USA; <sup>4</sup>Franciscan Health, Indiana Blood and Marrow Transplantation, Indianapolis, IN, USA; <sup>5</sup>Intermountain Health, Salt Lake City, UT, USA; <sup>6</sup>University of California, Irvine, CA, USA; <sup>7</sup>Baylor Scott & White Health, Dallas, TX, USA; <sup>8</sup>Augusta University, Augusta, GA, USA; <sup>9</sup>Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, USA; <sup>10</sup>Virginia Commonwealth University, Richmond, VA, USA; <sup>11</sup>University of Louisville, Louisville, KY, USA; <sup>12</sup>Lyell Immunopharma, South San Francisco, CA, USA; <sup>13</sup>Samuel Oschin Cancer Center, Cedars-Sinai Medical Center, Los Angeles, CA, USA

### CD19 CAR T-Cell Products Transformed the Treatment of LBCL, But Have Limitations

Despite these advances, next-generation CAR T-cell products with improved safety and efficacy are needed

#### Limited durability:

- ~40% of patients in 3L+ LBCL remain in complete response at 6 months
- Median progression-free survival (mPFS) < 7 months in 3L+ LBCL

#### Exclusion of key populations:

- Axi-cel: Limited enrollment of age >75, no bridging therapy (ZUMA-1, 3L+) or steroids only (ZUMA-7, 2L)
- Liso-cel: No patients > 75 (TRANSFORM, 2L)

#### Additional limitations:

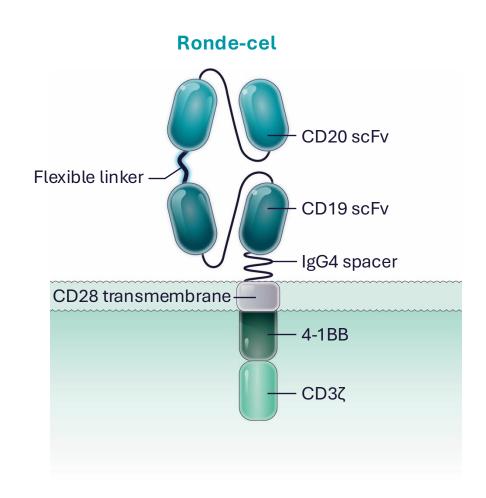
- Complete response rate for liso-cel in older patients with primary refractory disease in the 2L setting (PILOT) was 42%
- Limited data on duration of response have been published for patients in 2L with primary refractory disease (mPFS ~7 months in ZUMA-7)
- Grade 3 and higher CRS and ICANS limit the use of the approved CD19 CAR T-cell products in the outpatient setting

A product with higher complete response rates, longer duration of response, and fewer toxicities is needed

# Dual-Targeting CD19/CD20 CAR T Cells Enriched for Stem-Like Phenotype (CD62L+)

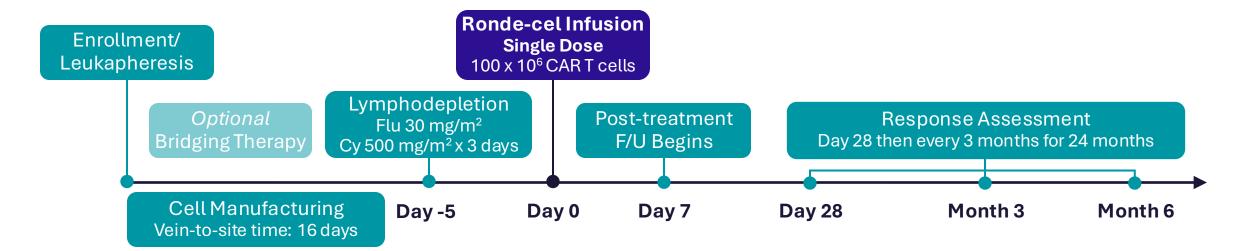
Rondecabtagene autoleucel (ronde-cel) designed to achieve high complete response rates and long duration of responses

- Ronde-cel is a true CD19/CD20 "OR" logic-gated CAR
  - Designed to target either CD19 and CD20 with full potency, overcome heterogeneous antigen density, and mitigate antigen loss following treatment
- Naïve T cells are associated with improved outcomes after CAR T-cell therapy
- CD62L+ enrichment selects for naïve and central memory T cells
  - CD62L+ cells are associated with improved persistence, reduced exhaustion, and lower adverse cytokine production



#### **Ronde-Cel Trial Schematic**

Phase 1/2 multi-cohort, multi-center trial in aggressive large B-cell lymphoma (3L+ and 2L cohorts)



#### **Patient Population**

- Patients with relapsed/refractory DLBCL, PMBCL, HGBCL, Grade 3BFL, and tFL who have had ≥1 line of treatment
- CD19/CD20 expression testing not required for enrollment
- No prior treatment with CD19 CAR T-cell therapy
- No upper age limit

#### **Trial Objectives**

- Safety and tolerability
- Overall response rate, complete response rate
- Duration of response
- Selection of Phase 2 dose
- Cell expansion pharmacokinetics

#### The 3L+ cohort has expanded into a pivotal trial (PiNACLE) to enroll ~120 patients

## High-Risk, Heavily Pre-Treated, Multi-Center US Patient Population

Baseline characteristics in 3L+ and 2L patients consistent with high risk compared to historical studies

Demographics and Disease Characteristics	<b>3L+ Overall</b> N = 45	<b>2L Overall</b> N = 24
Median (range) age, years	64 (21, 87)	65 (26, 85)
≥ 75 years, n (%)	9 (20%)	5 (21%)
ECOG 1, n (%)	29 (64%)	14 (58%)
IPI score 3 or 4, n (%)	12 (27%)	8 (33%)
LBCL histology n (%)		
DLBCL	23 (51%)	15 (63%)
tFL	8 (18%)	2 (8%)
HGBCL	8 (18%)	6 (25%)
Primary refractory, n (%)	22 (49%)	22 (92%)
Elevated (above normal) LDH, n (%)	20 (44%)	10 (42%)
Bulky disease (≥ 7 cm), n (%)	10 (22%)	5 (21%)
Double-/triple-hit status, n (%)	7 (16%)	7 (29%)
Received bridging therapy, n (%)	23 (51%)	14 (58%)

# Higher-Risk Demographic and Disease Characteristics in 3L+ HGBCL versus LBCL

Patients with HGBCL have bulkier disease, higher LDH, more extranodal disease, are older, and have more limited ECOG status

Demographics and Disease Characteristics	<b>3L+ LBCL</b> N = 37	<b>3L+ HGBCL</b> N = 8	<b>3L+ Overall</b> N = 45
Median (range) age, years	64 (21, 86)	68 (43, 87)	64 (21, 87)
≥ 75 years, n (%)	6 (16%)	3 (38%)	9 (20%)
ECOG 1, n (%)	22 (60%)	7 (88%)	29 (64%)
IPI score 3 or 4, n (%)	9 (24%)	3 (38%)	12 (27%)
LBCL histology n (%)			
DLBCL	23 (62%)	N/A	23 (51%)
tFL	8 (22%)	N/A	8 (18%)
Primary refractory, n (%)	16 (43%)	6 (75%)	22 (49%)
Elevated (above normal) LDH, n (%)	13 (35%)	7 (88%)	20 (44%)
Bulky disease (≥ 7 cm), n (%)	6 (16%)	4 (50%)	10 (22%)
Double-/triple-hit status, n (%)	3 (8%)	4 (50%)	7 (16%)
Received bridging therapy, n (%)	15 (41%)	8 (100%)	23 (51%)

## Overall Response Rate of 93% and Complete Response Rate of 76% (3L+ LBCL)

High rate of durable complete responses in LBCL

Best Overall Response (3L+ LBCL)	N = 29
Overall Responses, n (%)	27 (93%)
Complete Responses, n (%)	22 (76%)
Partial Response, n (%)	5 (17%)

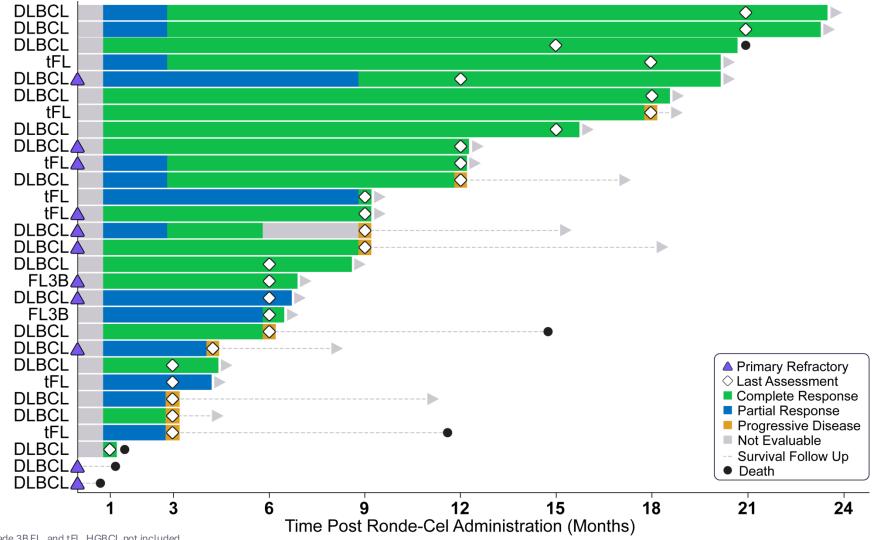
- Median progression free survival (mPFS) was 18 months
  - Median duration of follow-up 12 months
- 72% (13/18) of patients with complete response remained in complete response at ≥ 6 months

Best Overall Response (3L+ HGBCL)	N = 8	
Overall Responses, n (%)	7 (88%)	
Complete Responses, n (%)	4 (50%)	
Partial Response, n (%)	3 (38%)	

- 33% (1/3) of patients with complete response remained in complete response at ≥ 6 months
- PiNACLE will include only LBCL in order to enroll those patients most likely to receive durable benefit from ronde-cel in this single-arm trial

### **Durable Responses in Patients with 3L+ LBCL**

Median progression-free survival of 18 months; 72% of patients with CR remained in CR at ≥ 6 months

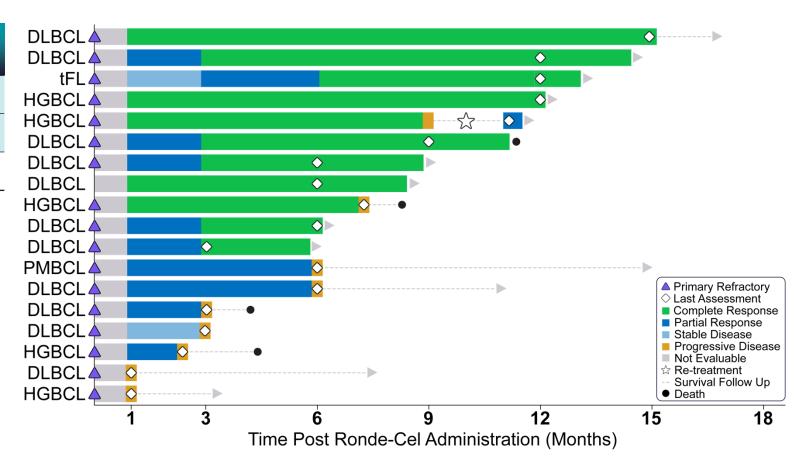


# High Overall Response Rate in Patients with 2L Aggressive B-Cell Lymphoma

High-risk characteristics including HGBCL with 94% of patients with primary refractory disease

Best Overall Response (2L Overall)	N = 18	
Overall Responses, n (%)	15 (83%)	
Complete Responses, n (%)	11 (61%)	
Partial Response, n (%)	4 (22%)	

- 70% (7/10) of patients with complete response remained in complete response at ≥ 6 months
- Median duration of complete response not reached
- Median duration of follow up
   9 months



# **Dexamethasone Prophylaxis Reduced Grade ≥ 3 ICANS to < 5% of Patients**

Adverse events of interest (3L+ and 2L cohorts)

Adverse Event, n (%)			Adverse Event, n (%)		
	<b>Prophylaxis</b> N = 25	<b>All</b> N = 69		<b>Prophylaxis</b> N = 25	<b>All</b> N = 69
CRS	13 (52%)	42 (61%)	IEC-HS		
Grade 1	10 (40%)	22 (32%)	Grade 1 or 2	1 (4%)	2 (3%)
Grade 2	3 (12%)	20 (29%)	Grade ≥ 3	0 (0%)	0 (0%)
Grade ≥ 3	0 (0%)	0 (0%)	Infections		
Median time to onset, days (range)	6 (3 - 18)	5 (1 - 18)	Grade 1 or 2	7 (28%)	19 (28%)
Median time to resolution, days (range)	2 (1 - 21)	3 (1 - 21)	Grade ≥ 3	1 (4%)	8 (12%)
ICANS	3 (12%)	16 (23%)	Prolonged cytopenias		
Grade 1	2 (8%)	6 (9%)	Grade ≥ 3	3 (12%)	15 (22%)
Grade 2	0 (0%)	2 (3%)	<ul> <li>Patients received 10 mg (IV/PO) of dexamethasone on Days 0, 1, and 2 after ronde-cel infusion</li> <li>Tocilizumab use in 37% of patients</li> <li>One case of Grade ≥3 ICANS was observed with dexamethasone prophylaxis in a patient with HGBCL, high tumor burden, and high LDH</li> </ul>		
Grade ≥ 3	1 (4%)	8 (12%)			
Median time to onset, days (range)	7 (4 - 14)	7 (2 - 14)			
Median time to resolution, days (range)	4 (1 - 9)	4 (1 - 10)			

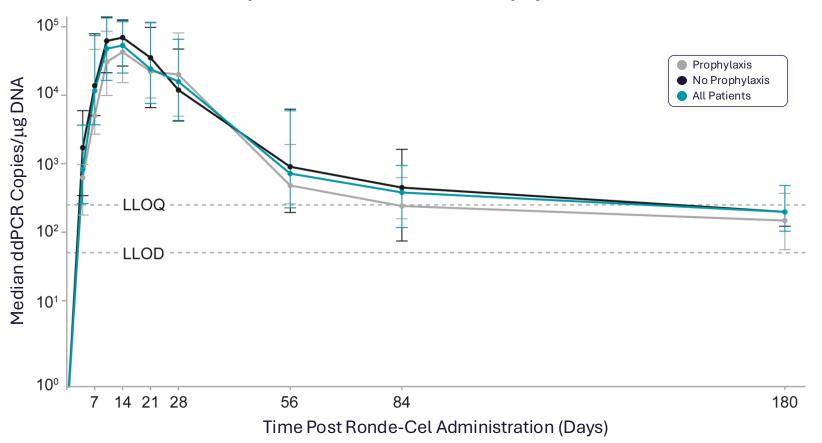
No deaths related to ronde-cel.

Data cutoff: September 5, 2025.

## Ronde-Cel Expansion is Robust in Patients with or without Dexamethasone Prophylaxis

Higher CAR T-cell expansion is associated with better CAR T-cell response

#### **CAR T-Cell Expansion with or without Prophylactic Dexamethasone**



 No significant differences were observed in peak CAR T-cell expansion (C<sub>max</sub>) or overall exposure (AUC) between patients who received dexamethasone (N = 25) and those who did not (N = 42).

#### **Conclusions**

Phase 1/2 multi-cohort, multi-center trial evaluating ronde-cel in aggressive B-cell lymphoma (3L+, 2L)

- **High rate of durable complete responses** in high-risk patients in 3L+ LBCL:
  - Overall response rate of 93% and a complete response rate of 76%
  - Median progression-free survival of 18 months
- High rate of durable complete responses in primary refractory patients in the 2L setting:
  - Overall response rate of 83% and a complete response rate of 61%
  - 70% of patients with complete response remained in complete response at ≥ 6 months
- Manageable safety profile appropriate for outpatient administration:
  - No Grade ≥ 3 CRS
  - Single case of Grade ≥ 3 ICANS with dexamethasone prophylaxis (≤ 5%)
- Robust CAR T-cell expansion with final drug product enriched for stem-like cells (CD62L+):
  - Additional translational data on CD62L enrichment presented in separate oral presentation demonstrating sustained cytotoxicity of CAR T cells obtained from patients 2 months after infusion

## Ronde-Cel is a Promising CAR T-Cell Candidate for Large B-Cell Lymphoma

#### Two pivotal trials are underway for ronde-cel (PiNACLE - H2H, PiNACLE)



- PiNACLE H2H has been initiated based upon these promising results:
  - Phase 3 head-to-head CAR T-cell therapy randomized controlled trial of ronde-cel vs
     Investigator's choice of axicabtagene autoleucel (axi-cel) or lisocabtagene maraleucel (liso-cel)
  - N = 200 patients per arm
  - No upper age-limit; early or late-relapsing/refractory patients; includes HGBCL
  - Primary endpoint: event-free survival
  - Key secondary endpoints: progression-free survival and overall survival



- PiNACLE enrollment continuing
  - Seamless expansion of the 3L+ cohort from the Phase 1/2 trial
  - N = 120 patients
  - No upper age-limit; early relapse or refractory patients; will not include HGBCL
  - Primary endpoint: overall response rate (and duration of response)