

# Disclosures: Wonseog Kim

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- **Research funding:** Beigene, Boryong, Donga, F. Hoffmann-La Roche, Kyowa-Kirin, Sanofi

# Mosunetuzumab plus polatuzumab vedotin is superior to R-GemOx in transplant-ineligible patients with R/R LBCL: primary results of the Phase III SUNMO trial

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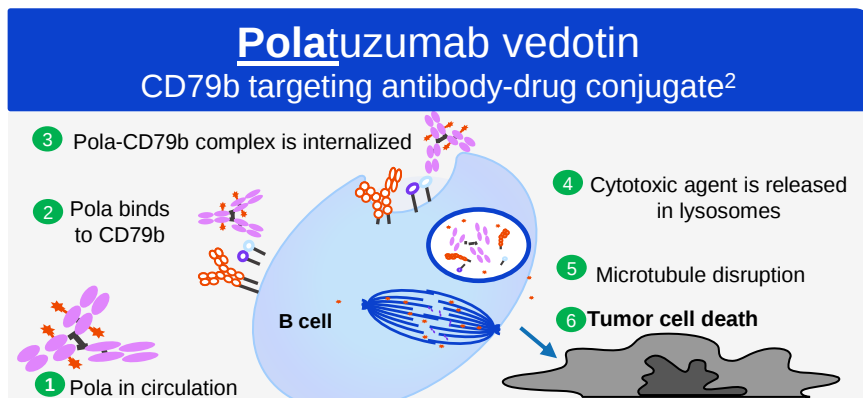
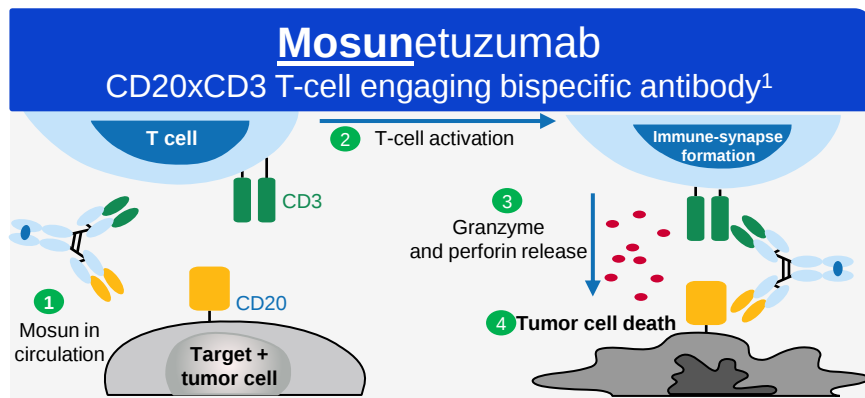
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# Background

- Patients with R/R LBCL unable to receive curative-intent therapies such as CAR T-cell or ASCT have a poor prognosis
  - Barriers to curative therapies may include lack of response to prior therapy, age, frailty, and/or logistical barriers
  - Toxicities of T-cell directed therapies, such as CRS, may limit access for patients and burden healthcare systems



- **Mosun-Pola** showed **highly durable responses** and a **manageable safety profile**, as an outpatient regimen, in the Phase II study<sup>3,4</sup>

We present the efficacy and safety of **Mosun-Pola** versus **R-GemOx** in transplant-ineligible patients with R/R LBCL after **≥1 prior line of therapy** from the global, randomized, Phase III **SUNMO trial** (NCT05171647)

ASCT, autologous stem cell transplant; CAR, chimeric antigen receptor; CRS, cytokine release syndrome, ICANS, immune effector-cell associated neurotoxicity syndrome; LBCL, large B-cell lymphoma; Mosun-Pola, mosunetuzumab plus polatuzumab vedotin; R-GemOx, rituximab plus gemcitabine and oxaliplatin; R/R, relapsed/refractory.

1. Sun LL, et al. Sci Transl Med 2015;7:287ra70; 2. Dornan D, et al. Blood 2009;114:2721–9;
3. Budde LE, et al. Nat Med 2024;30:229–39;
4. Chavez JC, et al. ASH 2024; oral presentation #989.

# Study design

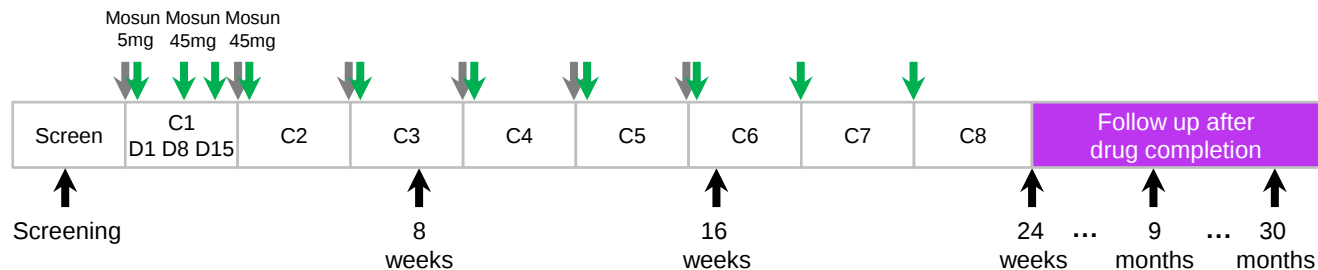
## Key eligibility

R/R LBCL with  
≥1 prior therapy and  
ASCT-ineligible:

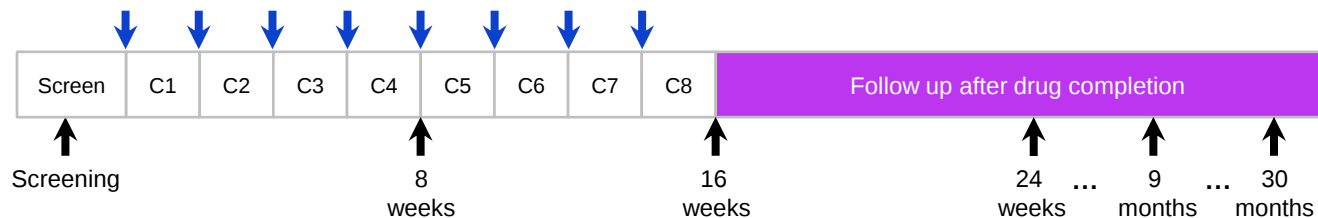
- DLBCL NOS
- Transformed FL
- HGBCL
- Grade 3B FL

2:1

**Outpatient Mosun SC (8 cycles) + Pola IV (6 cycles) (21-day cycles)**



**R-GemOx IV (8 x 14–21-day cycles\*)**



## Stratification factors

- 1 vs ≥2 prior lines of systemic therapy
- Relapsed vs refractory disease

\*14-day cycles unless delayed to 21-day cycles if needed in case of hematologic toxicity.

C, cycle; D, day; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; HGBCL, high-grade B-cell lymphoma; IV, intravenous; NOS, not otherwise specified; SC, subcutaneous.



# SUNMO: Key endpoints and analysis timeline

## Key endpoints

### Dual primary endpoints

Objective response rate (ORR) by IRC assessment  
Progression-free survival (PFS) by IRC assessment

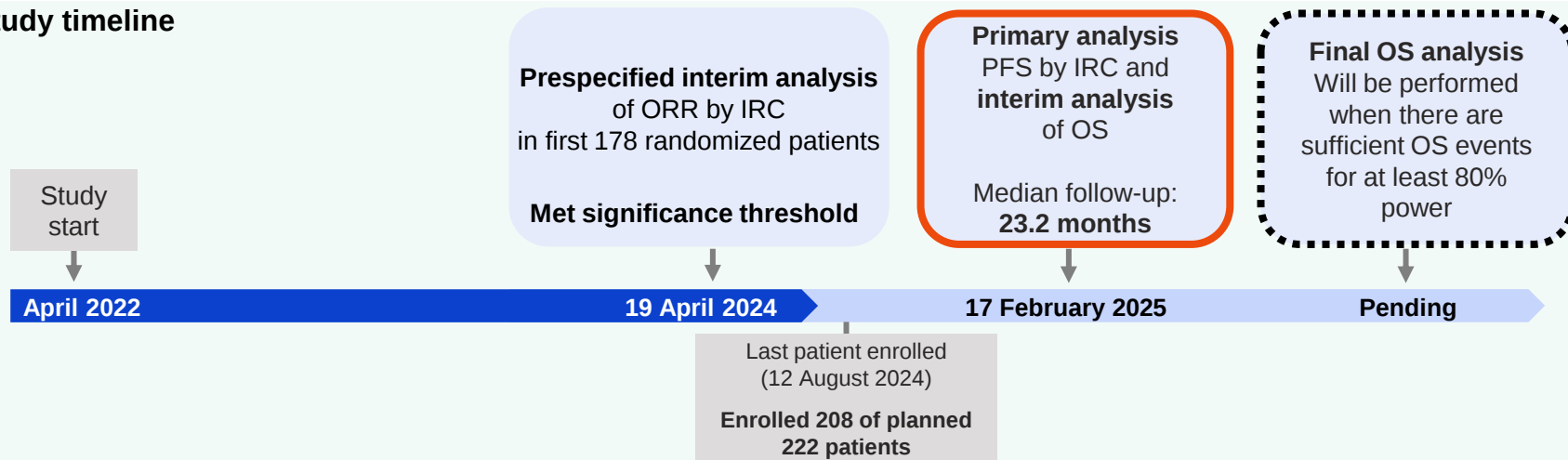
### Key secondary endpoints

Overall survival (OS)

### Safety endpoints

Incidence, nature, and severity of adverse events (AEs)

## Study timeline



# Baseline characteristics

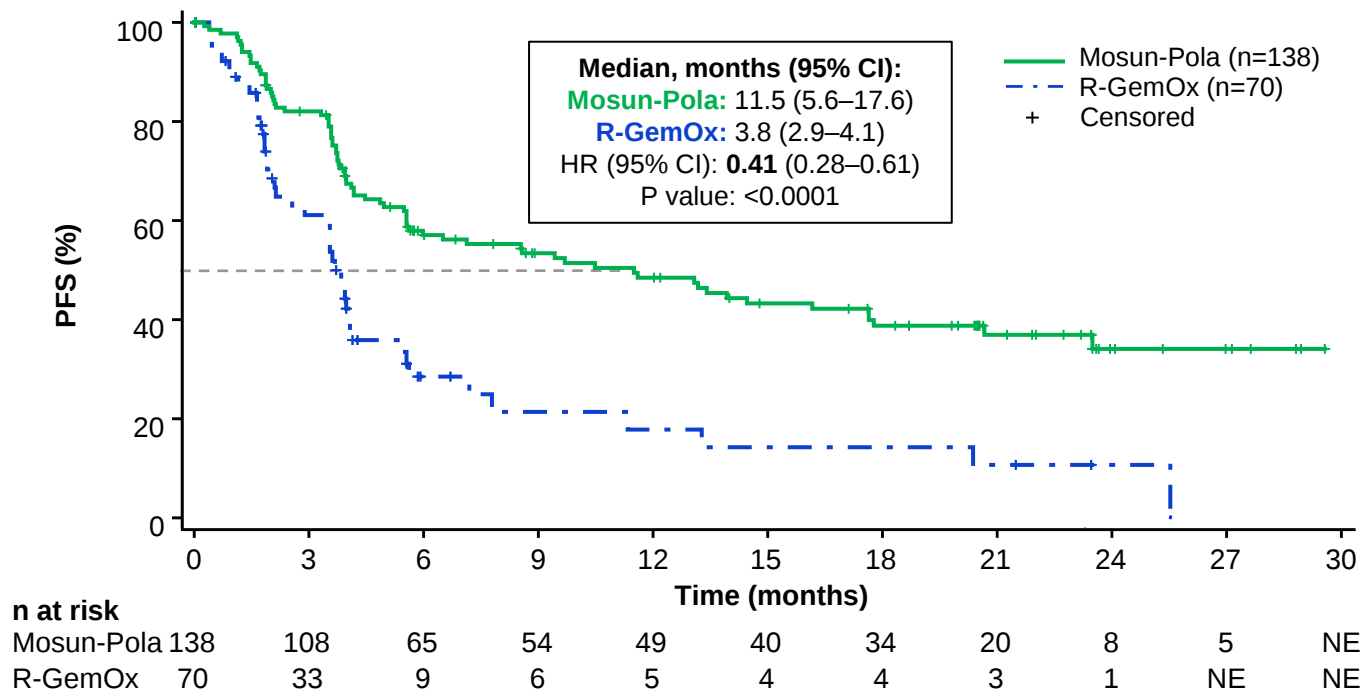
| % (n), unless otherwise stated |                           | Mosun-Pola<br>(n=138) | R-GemOx<br>(n=70) | % (n), unless otherwise stated      |                | Mosun-Pola<br>(n=138) | R-GemOx<br>(n=70)  |
|--------------------------------|---------------------------|-----------------------|-------------------|-------------------------------------|----------------|-----------------------|--------------------|
| Age, years                     | Median (range)            | 62 (23–87)            | 63 (29–85)        | Transformed FL*                     | Yes            | (n=135)<br>12.6% (17) | (n=68)<br>8.8% (6) |
|                                | ≥65 years                 | 39.1% (54)            | 45.7% (32)        |                                     | No             | 87.4% (118)           | 91.2% (62)         |
| Sex                            | Male                      | 55.1% (76)            | 64.3% (45)        | Ann Arbor Stage                     | I–II           | 24.6% (34)            | 20.0% (14)         |
| Race                           | Asian                     | 40.6% (56)            | 37.1% (26)        |                                     | III–IV         | 75.4% (104)           | 80.0% (56)         |
|                                | Black or African American | 2.9% (4)              | 1.4% (1)          | Bulky disease<br>(≥10cm)            | Yes            | 20.3% (28)            | 7.1% (5)           |
|                                | White                     | 44.2% (61)            | 54.3% (38)        |                                     | No             | 79.7% (110)           | 92.9% (65)         |
|                                | Other/Unknown             | 12.3% (17)            | 7.1% (5)          | Number of prior<br>lines of therapy | Median (range) | 2 (1–9)               | 2 (1–5)            |
| ECOG PS                        | 0                         | 50.0% (69)            | 57.1% (40)        |                                     | 1              | 44.2% (61)            | 42.9% (30)         |
|                                | 1                         | 37.0% (51)            | 41.4% (29)        |                                     | ≥2             | 55.8% (77)            | 57.1% (40)         |
|                                | 2                         | 13.0% (18)            | 1.4% (1)          | Primary<br>refractory               | Yes            | 57.2% (79)            | 60.0% (42)         |
| NHL<br>subtypes                | DLBCL                     | 79.0% (109)           | 77.1% (54)        | Refractory to last<br>prior therapy | Yes            | 70.3% (97)            | 68.6% (48)         |
|                                | HGBCL                     | 18.8% (26)            | 20.0% (14)        |                                     |                |                       |                    |
|                                | FL3b                      | 2.2% (3)              | 2.9% (2)          |                                     |                |                       |                    |

Clinical cut-off date: 17 February, 2025.

\*Three patients in the Mosun-Pola arm and two patients in the R-GemOx arm had FL3b and were not included in the denominator for transformed FL. 3b, Grade 3b; ECOG, Eastern Cooperative Oncology Group; NHL, non-Hodgkin lymphoma; PS, performance score.

# Mosun-Pola significantly prolonged progression-free survival versus R-GemOx

Primary endpoint: Progression-free survival by IRC

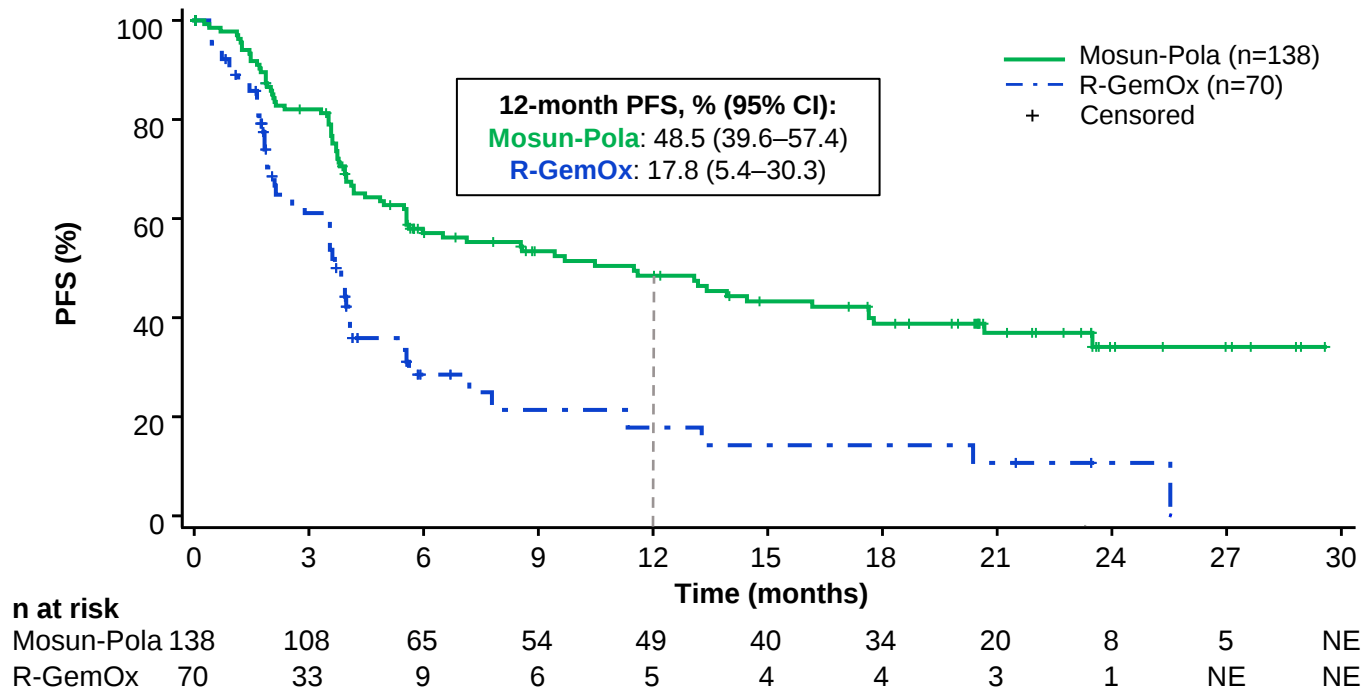


Mosun-Pola demonstrates a 59% risk reduction for progression or death compared with R-GemOx

Clinical cut-off date: 17 February, 2025. PFS is censored at earliest of NALT or two or more missing tumor assessments, whichever occurred first.  
CI, confidence interval; HR, hazard ratio; NALT, new anti-lymphoma therapy; NE, non estimable.

# Mosun-Pola significantly prolonged progression-free survival versus R-GemOx

Primary endpoint: Progression-free survival by IRC



Mosun-Pola demonstrates a 59% risk reduction for progression or death compared with R-GemOx

# Exploratory analysis of progression-free-survival in pre-specified subgroups

|                                         |         | Mosun-Pola (n=138) |        |                 | R-GemOx (n=70) |        |                 |       |              | Mosun-Pola better | R-GemOx better |
|-----------------------------------------|---------|--------------------|--------|-----------------|----------------|--------|-----------------|-------|--------------|-------------------|----------------|
| Baseline risk factors                   | Total n | n                  | Events | Median (months) | n              | Events | Median (months) | HR    | 95% CI       |                   |                |
| <b>All patients</b>                     | 208     | 138                | 76     | 11.5            | 70             | 45     | 3.8             | 0.41  | (0.28–0.61)* |                   |                |
| <b>Age group</b>                        |         |                    |        |                 |                |        |                 |       |              |                   |                |
| <65                                     | 122     | 84                 | 46     | 11.5            | 38             | 25     | 3.5             | 0.39  | (0.23–0.64)  |                   |                |
| ≥65                                     | 86      | 54                 | 30     | 13.1            | 32             | 20     | 4.0             | 0.47  | (0.27–0.84)  |                   |                |
| <b>Number of prior lines of therapy</b> |         |                    |        |                 |                |        |                 |       |              |                   |                |
| 1                                       | 91      | 61                 | 32     | 14.5            | 30             | 22     | 3.6             | 0.38  | (0.22–0.67)  |                   |                |
| ≥2                                      | 117     | 77                 | 44     | 8.6             | 40             | 23     | 3.9             | 0.49  | (0.29–0.82)  |                   |                |
| <b>Status to last prior therapy</b>     |         |                    |        |                 |                |        |                 |       |              |                   |                |
| Refractory                              | 145     | 97                 | 63     | 5.5             | 48             | 36     | 2.6             | 0.39  | (0.26–0.60)  |                   |                |
| Relapse                                 | 63      | 41                 | 13     | NE              | 22             | 9      | 11.3            | 0.37  | (0.16–0.88)  |                   |                |
| <b>Status to first prior therapy</b>    |         |                    |        |                 |                |        |                 |       |              |                   |                |
| Refractory                              | 121     | 79                 | 54     | 4.2             | 42             | 31     | 2.6             | 0.46  | (0.29–0.72)  |                   |                |
| Relapse                                 | 87      | 59                 | 22     | 23.5            | 28             | 14     | 5.6             | 0.35  | (0.18–0.70)  |                   |                |
| <b>NHL subtype</b>                      |         |                    |        |                 |                |        |                 |       |              |                   |                |
| DLBCL                                   | 163     | 109                | 58     | 11.5            | 54             | 34     | 3.5             | 0.38  | (0.24–0.59)  |                   |                |
| HGBCL                                   | 40      | 26                 | 18     | 9.7             | 14             | 9      | 4.0             | 0.78  | (0.35–1.77)  |                   |                |
| FL3b                                    | 5       | 3                  | 0      | NE              | 2              | 2      | 12.0            | <0.01 | (0.00–NE)    |                   |                |
| <b>trFL</b>                             |         |                    |        |                 |                |        |                 |       |              |                   |                |
| Yes                                     | 23      | 17                 | 8      | 13.2            | 6              | 4      | 11.3            | 0.70  | (0.19–2.65)  |                   |                |
| No                                      | 185     | 121                | 68     | 9.4             | 64             | 41     | 3.6             | 0.41  | (0.28–0.62)  |                   |                |
| <b>IPI risk factors at study entry</b>  |         |                    |        |                 |                |        |                 |       |              |                   |                |
| Low (0–1)                               | 42      | 27                 | 10     | NE              | 15             | 7      | 3.9             | 0.21  | (0.06–0.66)  |                   |                |
| Low-intermediate (2)                    | 61      | 40                 | 16     | 23.5            | 21             | 14     | 2.9             | 0.28  | (0.14–0.59)  |                   |                |
| High-intermediate (3)                   | 74      | 49                 | 32     | 5.6             | 25             | 15     | 3.8             | 0.57  | (0.30–1.07)  |                   |                |
| High (4–5)                              | 31      | 22                 | 18     | 3.5             | 9              | 9      | 3.5             | 0.81  | (0.36–1.82)  |                   |                |
| <b>Bulky disease &gt;10cm</b>           |         |                    |        |                 |                |        |                 |       |              |                   |                |
| Yes                                     | 33      | 28                 | 22     | 3.6             | 5              | 5      | 2.6             | 0.71  | (0.26–1.89)  |                   |                |
| No                                      | 175     | 110                | 54     | 16.2            | 65             | 40     | 3.8             | 0.35  | (0.23–0.53)  |                   |                |
| <b>COO category (central)</b>           |         |                    |        |                 |                |        |                 |       |              |                   |                |
| ABC                                     | 69      | 42                 | 19     | 17.8            | 27             | 18     | 4.0             | 0.24  | (0.12–0.49)  |                   |                |
| GCB                                     | 76      | 56                 | 41     | 5.0             | 20             | 15     | 3.7             | 0.67  | (0.37–1.21)  |                   |                |
| Unclassified                            | 20      | 15                 | 8      | 5.6             | 5              | 1      | NE              | 1.53  | (0.19–12.43) |                   |                |
| Missing                                 | 38      | 22                 | 8      | NE              | 16             | 9      | 3.5             | 0.20  | (0.07–0.60)  |                   |                |
| <b>Region at enrollment</b>             |         |                    |        |                 |                |        |                 |       |              |                   |                |
| US and Canada                           | 20      | 13                 | 2      | NE              | 7              | 3      | 1.9             | 0.13  | (0.02–0.79)  |                   |                |
| Latin America                           | 85      | 59                 | 41     | 5.3             | 26             | 20     | 3.5             | 0.50  | (0.29–0.87)  |                   |                |
| East Asia                               | 78      | 53                 | 27     | 17.6            | 25             | 17     | 3.8             | 0.29  | (0.16–0.56)  |                   |                |
| Rest of world                           | 25      | 13                 | 6      | NE              | 12             | 5      | 25.5            | 0.94  | (0.28–3.07)  |                   |                |

Mosun-Pola improved PFS in clinically relevant stratification factors:

- relapsed vs refractory
- 2L vs 3L+

Clinical cut-off date: 17 February, 2025. \*Stratified (unstratified HR, 0.43 [95% CI: 0.29–0.63]). 2L, second line; 3L+, third or later line; ABC, activated B-cell; COO, cell of origin; GCB, germinal center B-cell; IPI, International Prognostic Index; trFL, transformed lymphoma.

# Exploratory analysis of progression-free-survival in pre-specified subgroups

|                       |         | Mosun-Pola (n=138) |        |                 | R-GemOx (n=70) |        |                 |      |              | Mosun-Pola better                                                                   | R-GemOx better |
|-----------------------|---------|--------------------|--------|-----------------|----------------|--------|-----------------|------|--------------|-------------------------------------------------------------------------------------|----------------|
| Baseline risk factors | Total n | n                  | Events | Median (months) | n              | Events | Median (months) | HR   | 95% CI       |                                                                                     |                |
| All patients          | 208     | 138                | 76     | 11.5            | 70             | 45     | 3.8             | 0.41 | (0.28–0.61)* |  |                |
| Age group             |         |                    |        |                 |                |        |                 |      |              |                                                                                     |                |
| <65                   | 122     | 84                 | 46     | 11.5            | 38             | 25     | 3.5             | 0.39 | (0.23–0.64)  |  |                |
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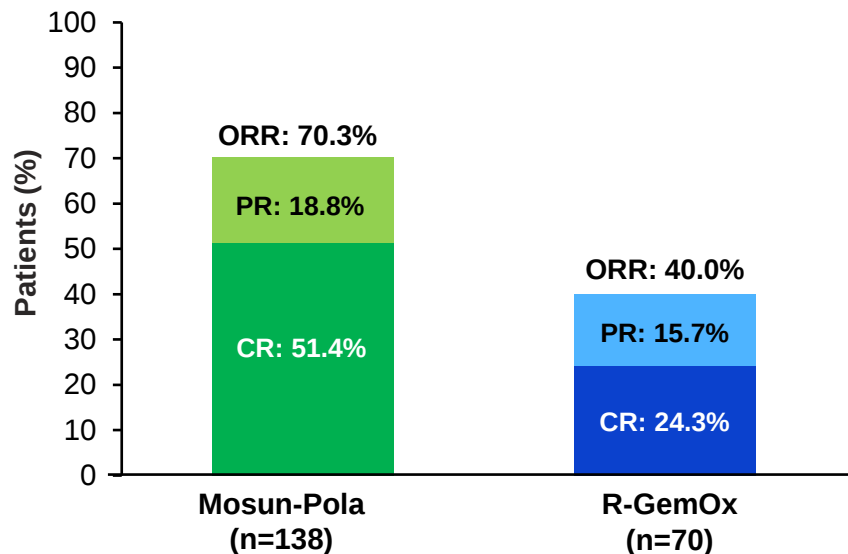
|                                  |         | Mosun-Pola (n=138) |        |                 | R-GemOx (n=70) |        |                 |      |             | Mosun-Pola better                                                                   | R-GemOx better |
|----------------------------------|---------|--------------------|--------|-----------------|----------------|--------|-----------------|------|-------------|-------------------------------------------------------------------------------------|----------------|
| Baseline risk factors            | Total n | n                  | Events | Median (months) | n              | Events | Median (months) | HR   | 95% CI      |                                                                                     |                |
| Number of prior lines of therapy |         |                    |        |                 |                |        |                 |      |             |                                                                                     |                |
| 1                                | 91      | 61                 | 32     | 14.5            | 30             | 22     | 3.6             | 0.38 | (0.22–0.67) |  |                |
| ≥2                               | 117     | 77                 | 44     | 8.6             | 40             | 23     | 3.9             | 0.49 | (0.29–0.82) |  |                |
| Status to last prior therapy     |         |                    |        |                 |                |        |                 |      |             |                                                                                     |                |
| Refractory                       | 145     | 97                 | 63     | 5.5             | 48             | 36     | 2.6             | 0.39 | (0.26–0.60) |  |                |
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|                        |     |     |    |      |    |    |      |      |              |                                                                                     |  |
|------------------------|-----|-----|----|------|----|----|------|------|--------------|-------------------------------------------------------------------------------------|--|
| Bulky disease >10cm    |     |     |    |      |    |    |      |      |              |                                                                                     |  |
| Yes                    | 33  | 28  | 22 | 3.6  | 5  | 5  | 2.6  | 0.71 | (0.26–1.89)  |  |  |
| No                     | 175 | 110 | 54 | 16.2 | 65 | 40 | 3.8  | 0.35 | (0.23–0.53)  |  |  |
| COO category (central) |     |     |    |      |    |    |      |      |              |                                                                                     |  |
| ABC                    | 69  | 42  | 19 | 17.8 | 27 | 18 | 4.0  | 0.24 | (0.12–0.49)  |  |  |
| GCB                    | 76  | 56  | 41 | 5.0  | 20 | 15 | 3.7  | 0.67 | (0.37–1.21)  |  |  |
| Unclassified           | 20  | 15  | 8  | 5.6  | 5  | 1  | NE   | 1.53 | (0.19–12.43) |  |  |
| Missing                | 38  | 22  | 8  | NE   | 16 | 9  | 3.5  | 0.20 | (0.07–0.60)  |  |  |
| Region at enrollment   |     |     |    |      |    |    |      |      |              |                                                                                     |  |
| US and Canada          | 20  | 13  | 2  | NE   | 7  | 3  | 1.9  | 0.13 | (0.02–0.79)  |   |  |
| Latin America          | 85  | 59  | 41 | 5.3  | 26 | 20 | 3.5  | 0.50 | (0.29–0.87)  |  |  |
| East Asia              | 78  | 53  | 27 | 17.6 | 25 | 17 | 3.8  | 0.29 | (0.16–0.56)  |  |  |
| Rest of world          | 25  | 13  | 6  | NE   | 12 | 5  | 25.5 | 0.94 | (0.28–3.07)  |  |  |

Clinical cut-off date: 17 February, 2025. \*Stratified (unstratified HR, 0.43 [95% CI: 0.29–0.63]). 2L, second line; 3L+, third or later line; ABC, activated B-cell; COO, cell of origin; GCB, germinal center B-cell; IPI, International Prognostic Index; trFL, transformed lymphoma.

# Mosun-Pola significantly increased overall response rate versus R-GemOx

## Primary Endpoint: Response rates at the primary analysis



## Improvement in ORR: Mosun-Pola versus R-GemOx

| ORR by IRC, % (95% CI) | Mosun-Pola                             | R-GemOx                               | ΔORR (95% CI)        | P value  |
|------------------------|----------------------------------------|---------------------------------------|----------------------|----------|
| Interim analysis       | (n=119)<br><b>69.7%</b><br>(60.7–77.8) | (n=59)<br><b>44.1%</b><br>(31.2–57.6) | 25.7%<br>(9.6–41.8)  | 0.0008   |
| Primary analysis       | (n=138)<br><b>70.3%</b><br>(61.9–77.8) | (n=70)<br><b>40.0%</b><br>(28.5–52.4) | 30.3%<br>(15.7–44.9) | <0.0001* |

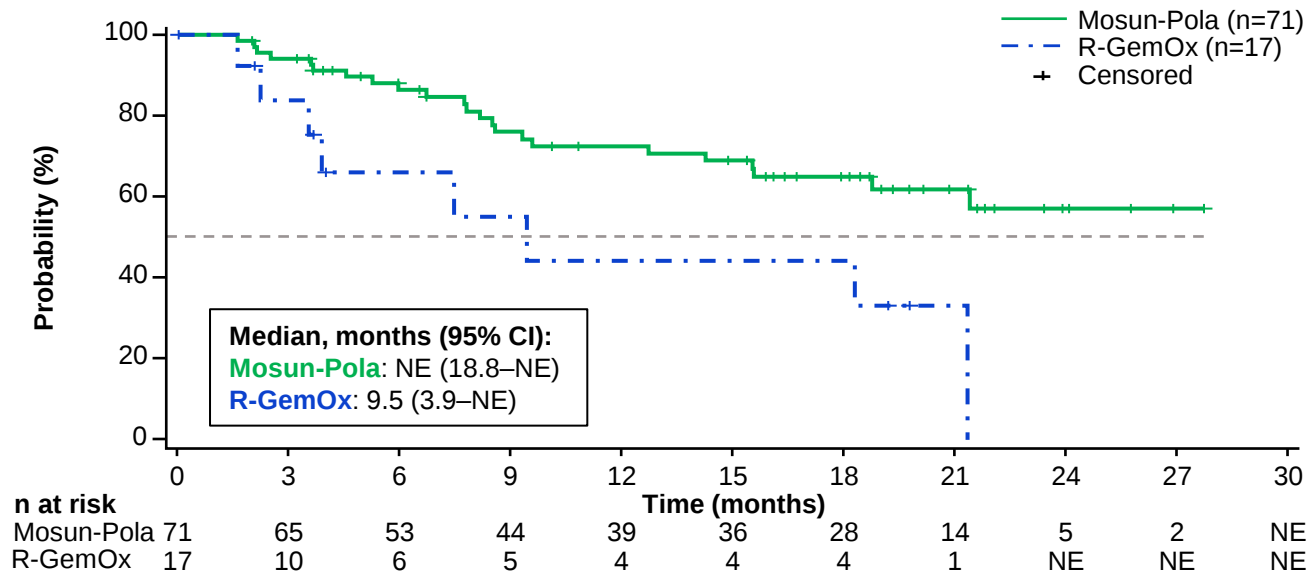
Mosun-Pola doubled the CR rate and improved the ORR by 30% compared with R-GemOx

Clinical cut-off date: 17 February, 2025.

\*Descriptive P value. CR, complete response; PR, partial response.

# Complete responses were durable with Mosun-Pola

## Duration of complete response



Nearly 75% of patients with a CR were still in remission with Mosun-Pola at 1 year

Mosun-Pola achieved duration remission in most patients with a complete response

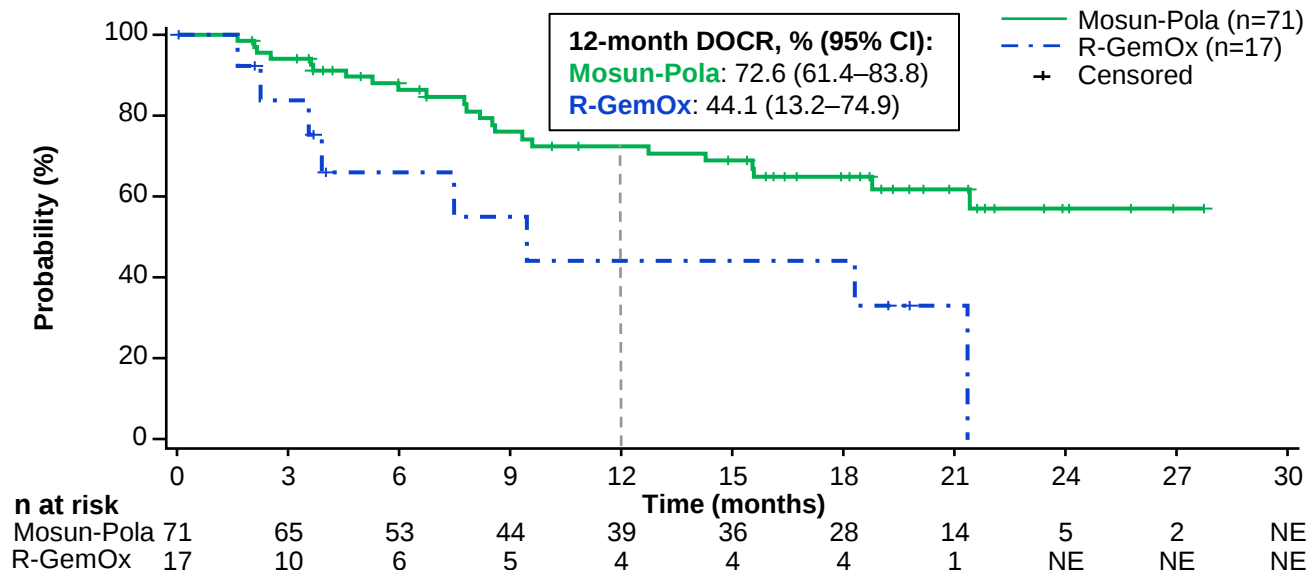
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Median time to first CR was 1.9 months (range 1–6) with Mosun-Pola and 3.6 months (range 2–7) with R-GemOx.

DOCR, duration of complete response.

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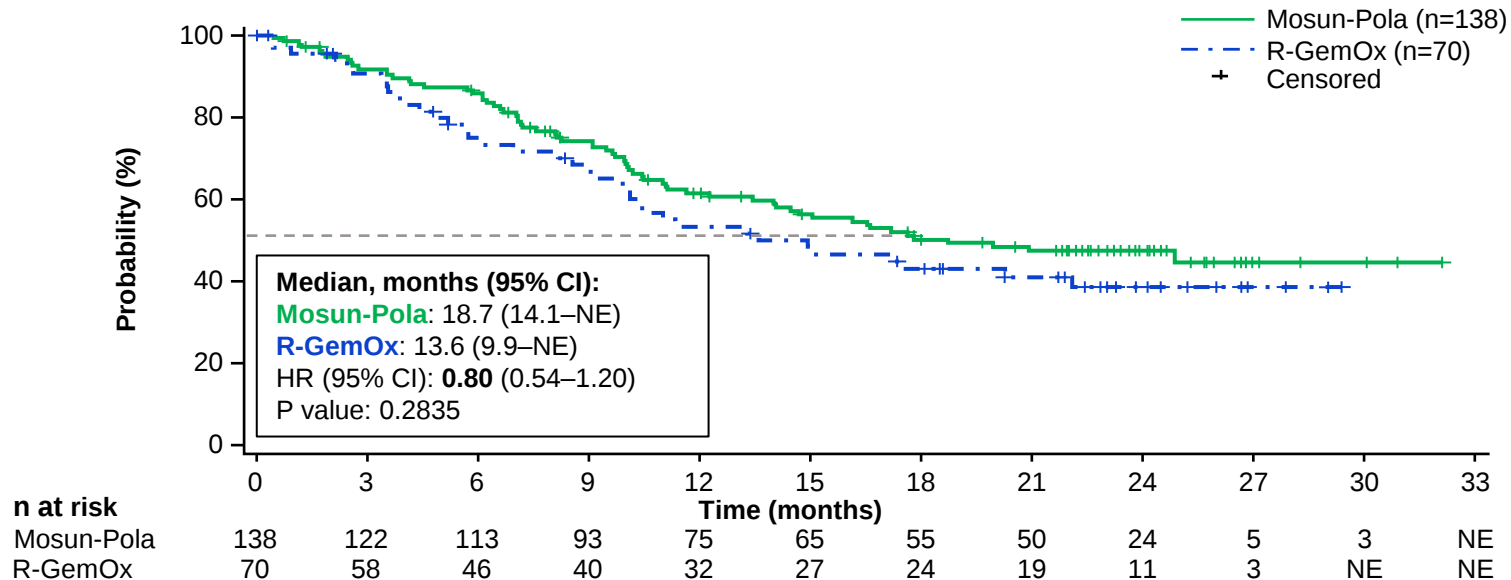
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DOCR, duration of complete response.

# Interim analysis showed overall survival was prolonged with Mosun-Pola versus R-GemOx

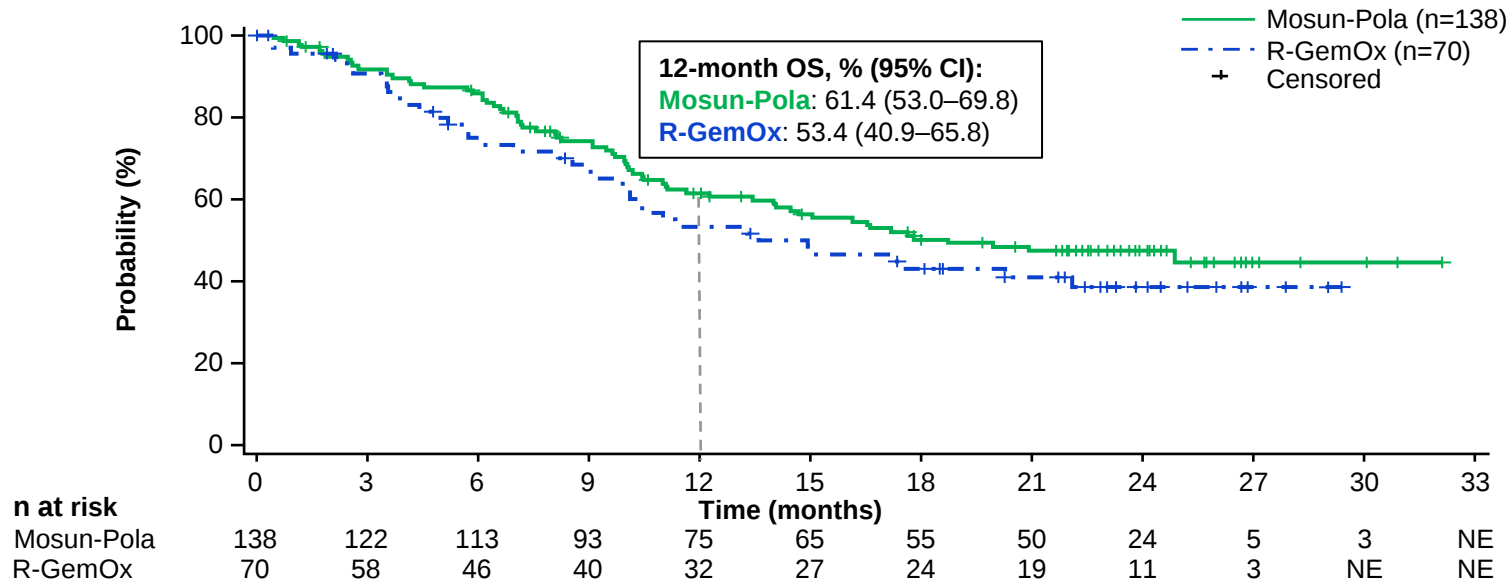
## Interim analysis of overall survival



OS numerically favoured Mosun-Pola versus R-GemOx (HR: 0.80) at the interim OS analysis

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OS numerically favoured Mosun-Pola versus R-GemOx (HR: 0.80) at the interim OS analysis

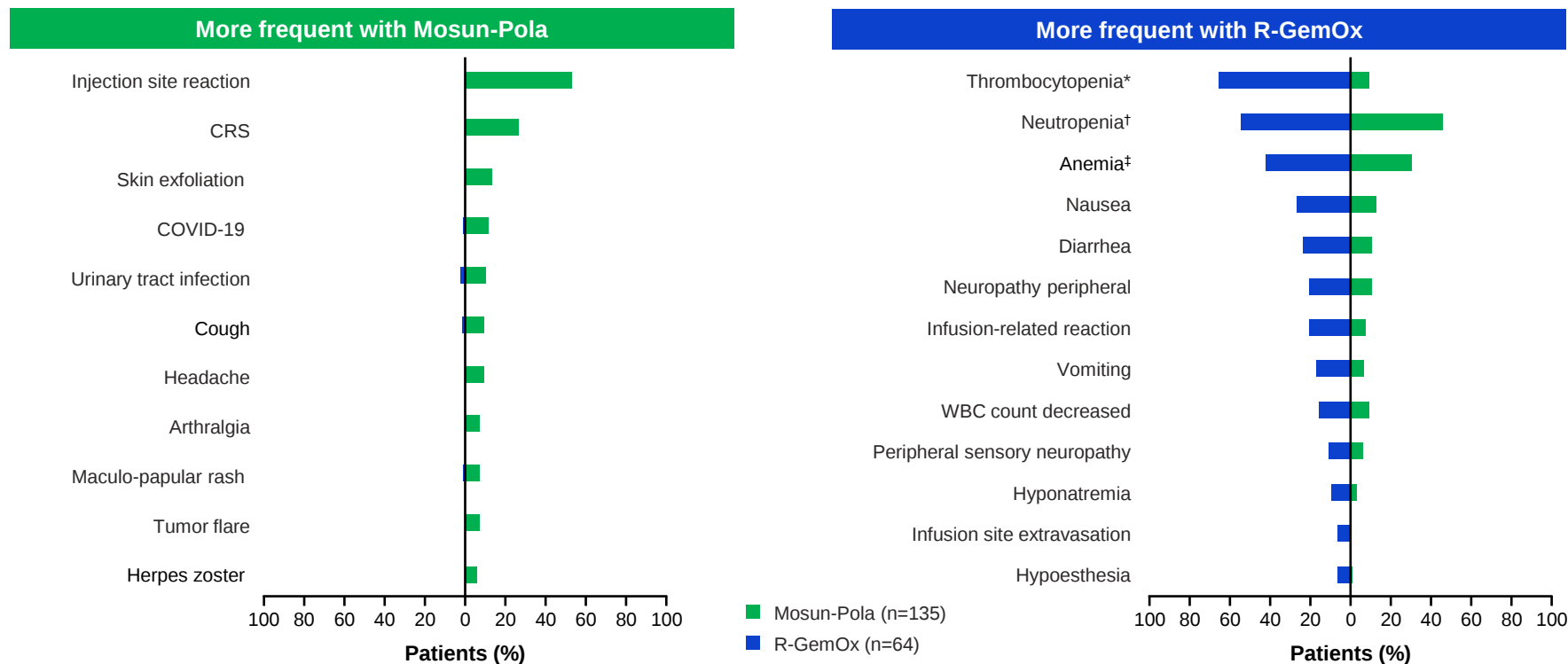
# Safety summary

| % (n), unless otherwise stated                       | Mosun-Pola<br>n=135 | R-GemOx<br>n=64 |
|------------------------------------------------------|---------------------|-----------------|
| <b>Number of cycles</b> , median (range)             | 8.0 (1–8)           | 5.0 (1–8)       |
| <b>Any AE</b>                                        | 97.0% (131)         | 95.3% (61)      |
| Treatment-related AE                                 | 93.3% (126)         | 89.1% (57)      |
| <b>SAEs</b>                                          | 33.3% (45)          | 25.0% (16)      |
| Treatment-related SAE                                | 24.4% (33)          | 20.3% (13)      |
| <b>Grade 3–4 AE</b>                                  | 58.5% (79)          | 57.8% (37)      |
| Treatment-related Grade 3–4 AE                       | 52.6% (71)          | 51.6% (33)      |
| <b>Grade 5 AE</b>                                    | 5.2% (7)            | 6.3% (4)        |
| Treatment-related Grade 5 AE*                        | 1.5% (2)            | 3.1% (2)        |
| <b>AE leading to any study drug discontinuation†</b> | 2.2% (3)            | 4.7% (3)        |

AE rates are comparable between Mosun-Pola and R-GemOx, with fewer AEs leading to treatment discontinuation in the Mosun-Pola arm

Clinical cut-off date: 17 February, 2025. \*Mosun-Pola: COVID-19 and COVID-19 pneumonia (n=1 each); R-GemOx: COVID-19 pneumonia and pneumonia (n=1 each). †Mosun-Pola: pneumonitis, infusion-related reaction, and cytomegalovirus infection reactivation (n=1 each); R-GemOx: delirium, embolism, and respiratory syncytial virus infection (n=1 each). COVID-19, coronavirus disease-19; SAE, serious adverse event.

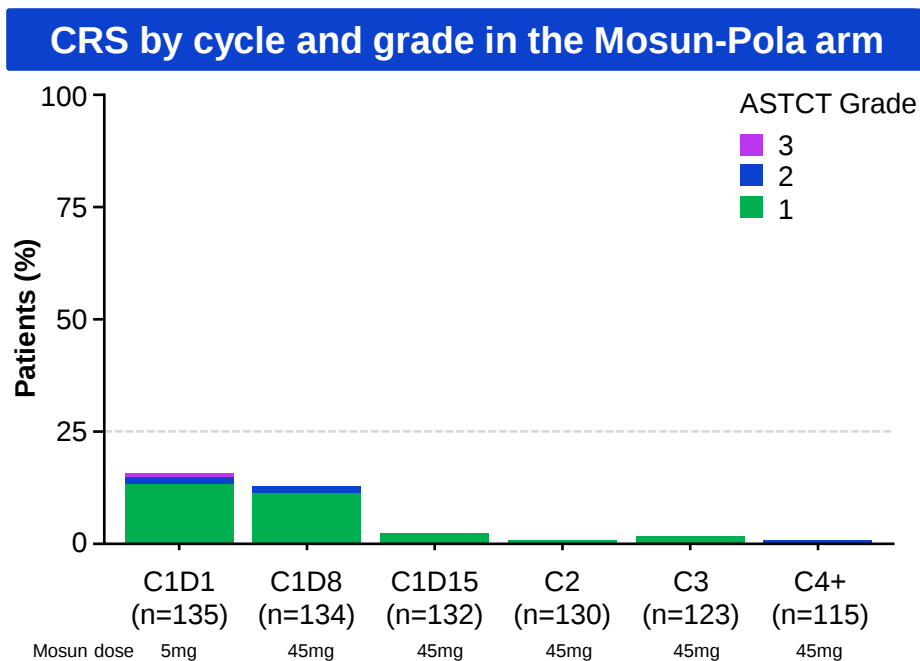
# AEs with a difference of at least 5% between treatment arms



Clinical cut-off date: 17 February, 2025. \*Includes thrombocytopenia and platelet count decrease. †Includes neutropenia/neutrophil count decrease. ‡Includes anemia and hemoglobin decrease. WBC, white blood cell.

# CRS was infrequent, early, and low grade

| Patients with $\geq 1$ CRS AE, % (n)           | Mosun-Pola<br>n=135 |
|------------------------------------------------|---------------------|
| <b>Any grade</b>                               | 25.9% (35)          |
| Grade 1                                        | 21.5% (29)          |
| Grade 2                                        | 3.7% (5)            |
| Grade 3                                        | 0.7% (1)            |
| <b>Any serious event of CRS*</b>               | 5.2% (7)            |
| <b>Median onset to first CRS, days (range)</b> | 3 (1–6)             |
| <b>Median duration, days (range)</b>           | 3 (1–11)            |
| <b>Tocilizumab for CRS management</b>          | 4.4% (6)            |
| <b>Corticosteroids for CRS management</b>      | 3.7% (5)            |



Mosun-Pola treatment resulted in no significant CRS (Grade 2 or higher) in 96% of patients

# Other AEs of interest

| % (n)                                        | Mosun-Pola<br>n=135 | R-GemOx<br>n=64 |
|----------------------------------------------|---------------------|-----------------|
| <b>Injection site reaction</b>               | 52.6% (71)          | N/A             |
| Grade ≥3                                     | 0                   | N/A             |
| <b>ICANS</b>                                 | 0                   | N/A             |
| <b>Peripheral neuropathy</b>                 | 24.4% (33)          | 42.2% (27)      |
| Grade ≥3                                     | 0                   | 0               |
| <b>Tumor flare</b>                           | 6.7% (9)            | 0               |
| Grade ≥3                                     | 1.5% (2)            | 0               |
| <b>Pneumonitis/interstitial lung disease</b> | 5.2% (7)            | 0               |
| Grade ≥3                                     | 2.2% (3)            | 0               |
| <b>HLH</b>                                   | 0                   | 0               |

| % (n)                       | Mosun-Pola<br>n=135 | R-GemOx<br>n=64 |
|-----------------------------|---------------------|-----------------|
| <b>Tumor lysis syndrome</b> | 0.7% (1)            | 0               |
| Grade ≥3                    | 0.7% (1)            | 0               |
| <b>Infections</b>           | 51.1% (69)          | 31.3% (20)      |
| Grade ≥3*                   | 15.6% (21)          | 14.1% (9)       |
| <b>Serious infections</b>   | 16.3% (22)          | 14.1% (9)       |
| <b>Neutropenia</b>          | 45.9% (62)          | 54.7% (35)      |
| Grade ≥3                    | 33.3% (45)          | 31.3% (20)      |
| <b>Febrile neutropenia</b>  | 2.2% (3)            | 3.1% (2)        |

The safety profile of Mosun-Pola is consistent with the known risk of the individual study drugs

Clinical cut-off date: 17 February, 2025. \*3.7% (n=5) of patients in the Mosun-Pola arm and 6.3% (n=4) of patients in the R-GemOx arm had a Grade 5 event.  
N/A, not applicable; HLH, hemophagocytic lymphohistiocytosis.

# Conclusions

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## **SUNMO is the first positive Phase III trial without conventional chemotherapy**

- Mosun-Pola reduced the risk of death or progression by 59%
  - Tripled the median PFS
  - Doubled the CR rate

## **Mosun-Pola has the lowest CRS incidence and severity among T-cell directed therapies to date**

- With 96% of patients not having significant CRS, **Mosun-Pola** may expand patient access to a highly effective therapy and allow for broad outpatient usage at more treatment centers

**Mosun-Pola** is a fixed duration outpatient regimen that combines a bispecific antibody with an ADC, which provided **clinically meaningful and statistically significant improvements in PFS and response** in patients with transplant-ineligible R/R LBCL

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- The study coordinators and nurses
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