



POST-NEW ORLEANS 2022

Novità dal Meeting della Società Americana di Ematologia

Novità dal Meeting della Società Americana di Ematologia

Milano

Teatro Dal Verme

2-3-4 Febbraio 2023

COORDINATORI

Angelo Michele Carella
Pier Luigi Zinzani

BOARD SCIENTIFICO

Paolo Corradini
Mauro Krampere
Fabrizio Pane
Adriano Venditti

Terapie di salvataggio con anticorpi monoclonali

Luigi Rigacci





DICHIARAZIONE

Luigi Rigacci

Come da nuova regolamentazione della Commissione Nazionale per la Formazione Continua del Ministero della Salute, è richiesta la trasparenza delle fonti di finanziamento e dei rapporti con soggetti portatori di interessi commerciali in campo sanitario.

- Posizione di dipendente in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Consulenza ad aziende con interessi commerciali in campo sanitario **(Menarini)**
- Fondi per la ricerca da aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Partecipazione ad Advisory Board **(Novartis, Astra Zeneca, Abbvie, Takeda, Gilead, Gentili)**
- Titolarità di brevetti in compartecipazione ad aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Partecipazioni azionarie in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Altro



RELAPSED/REFRACTORY LYMPHOMAS

Selected 11 oral presentations and 29 posters

Only those potentially changing practice:

- Aggressive Lymphoma (DLBCL)
- Indolent Lymphoma (FL)



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DIFFUSE LARGE B CELL LYMPHOMA



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American Society of Hematology

Helping hematologists conquer blood diseases worldwide



Polatuzumab Vedotin Combined with R-ICE (PolaR-ICE) as Second-Line Therapy in Relapsed/Refractory Diffuse Large B-Cell Lymphoma

Alex F. Herrera¹, Lu Chen², Jennifer Crombie³, Jonathon Cohen⁴, Ranjana Advani⁵, Ann LaCasce³, Leslie Popplewell¹, Sandrine Puverel¹, Lacolle Peters¹, Shari Daniels¹, James Godfrey¹, Geoffrey Shouse¹, Matthew Mei¹, Swetha Kambhampati¹, Lihua E. Budde¹, Liana Nikolaenko¹, Steven Rosen¹, Larry Kwak¹, Stephen Forman¹, and Matthew Matasar⁶

¹ Department of Hematology/HCT, City of Hope, Duarte, CA; ² Department of Computational and Quantitative Medicine, City of Hope, Duarte, CA; ³ Dana-Farber Cancer Institute, Boston, MA; ⁴ Winship Cancer Institute of Emory University, Atlanta, GA; ⁵ Division of Oncology, Stanford Cancer Institute, Stanford, CA; ⁶ Memorial Sloan Kettering Cancer Center, New York, NY



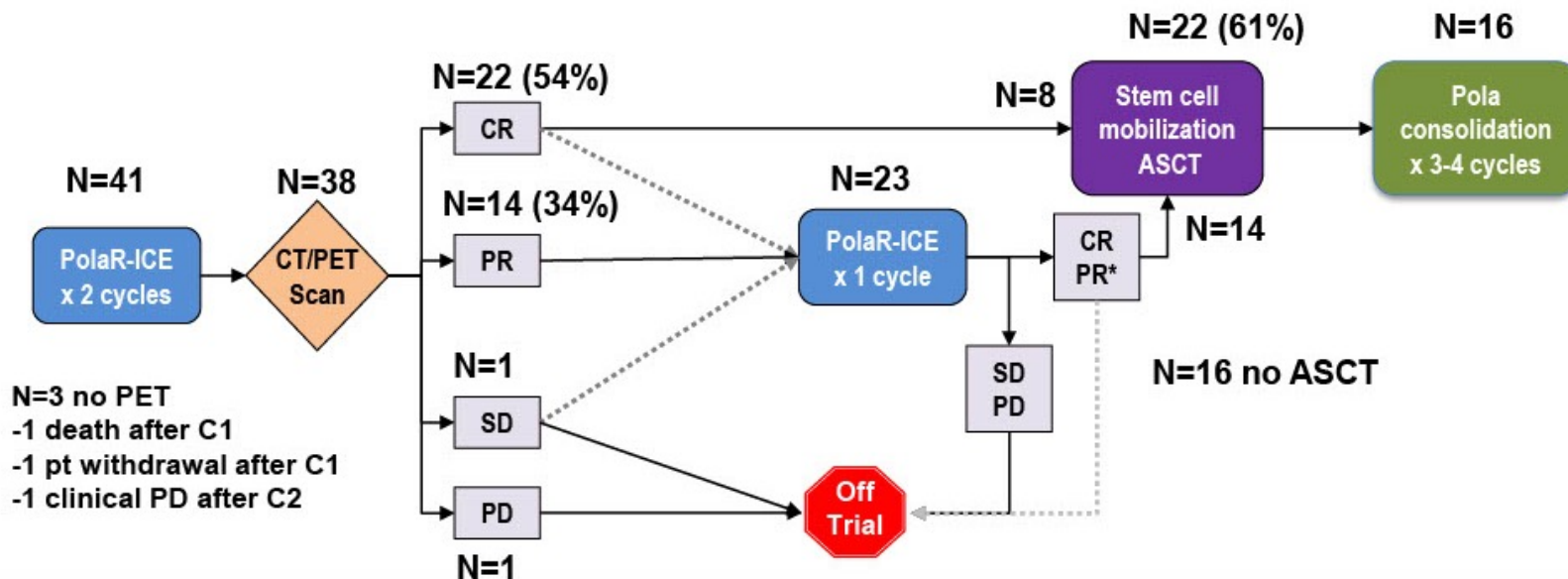
Study scheme and response to PolaR-ICE

Response after 2 cycles (all-treated)

- ORR 88%, CR 54%

Response at end of salvage (all-treated)

- ORR 80%, CR 56%





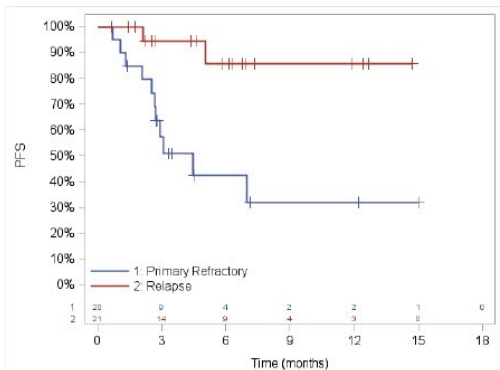
Response in Subgroups (end of salvage)

Response	Primary Refractory (n=20)	Relapsed (n=21)	Overall (n=41)
Overall	14 (70%)	19 (90%)	33 (80%)
Complete Response	7 (35%)	16 (76%)	23 (56%)
Partial Response	7 (35%)	3 (14%)	10 (24%)
Stable Disease	1 (5%)		1 (2%)
Progressive Disease	3 (15%)	1 (5%)	4 (10%)
Not assessed	2 (10%)	1 (5%)	3 (7%)

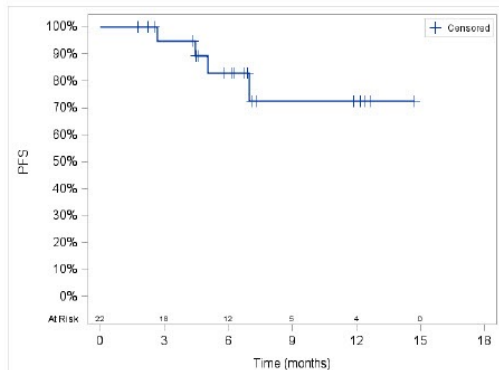


PFS according in subgroups

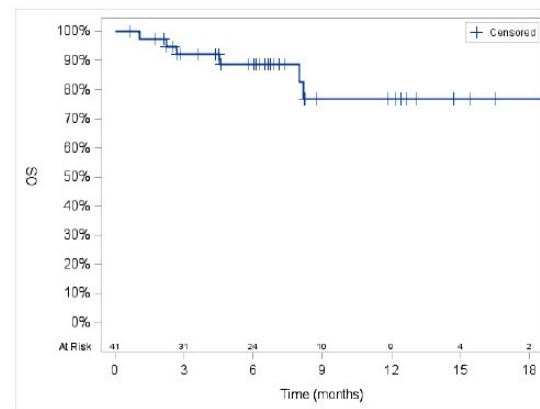
PFS by response to 1L tx (n=41)



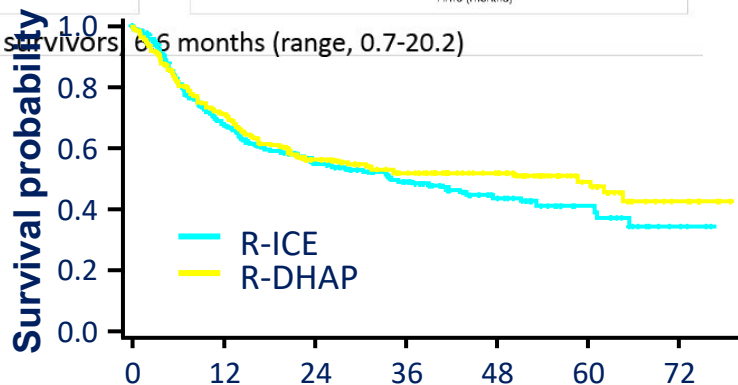
PFS in pts who went to ASCT (n=22)



Overall Survival with PolaR-ICE



Median follow-up in survivors 6.6 months (range, 0.7-20.2)



Median follow-up in survivors, 6.6 months (range, 0.7-20.2)

CORAL Study



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Abstract 443

Subcutaneous Epcoritamab + R-DHAX/C in Patients with Relapsed or Refractory Diffuse Large B-Cell Lymphoma Eligible for Autologous Stem Cell Transplant: Updated Phase 1/2 Results

Pau Abrisqueta, MD, PhD,¹ Raul Cordoba, MD, PhD,² Lorenzo Falchi, MD,³ Sven de Vos, MD, PhD,⁴ Marcel Nijland, MD, PhD,⁵ Fritz Offner, MD, PhD,⁶ Jun Wu, MD, MS,⁷ Irina Bykhovski, PharmD,⁸ Liwei Wang, PhD,⁸ Ali Rana, MD, PhD,⁸ Tycel Phillips, MD⁹



Study Design: EPCORE NHL-2 Arm 4

A phase 1b/2, open-label trial evaluating the safety and antitumor activity of epcoritamab + R-DHAX/C in adults with R/R DLBCL who are eligible for transplant

Key inclusion criteria

- R/R CD20+ DLBCL
 - DLBCL, NOS
 - “Double-hit” or “triple-hit” DLBCL^a
 - FL grade 3B
 - T-cell/histiocyte-rich DLBCL
- Eligible for R-DHAX/C and HDT-ASCT
- ECOG PS 0–2
- Measurable disease by CT or MRI
- Adequate organ function

Data cutoff: September 16, 2022
Median follow-up: 12.6 mo
ClinicalTrials.gov: NCT04663347

Dose escalation, n=8

Step-up dosing

Epcoritamab (SC)
24 mg (n=3) or
48 mg (n=5)
QW C1–4,
Q2W C5–9,
Q4W C10+*

+ R-DHAX/C
C1–3

Primary objectives: DLT/Safety and tolerability
Key secondary objective: Antitumor activity^b

Expansion, n=21

Step-up dosing

Epcoritamab (SC)
48 mg
QW C1–4,
Q2W C5–9,
Q4W C10+*

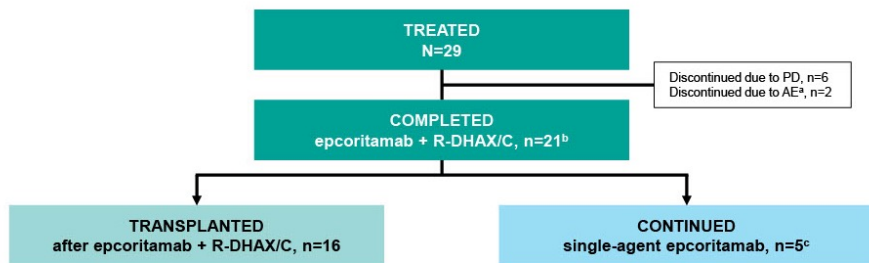
+ R-DHAX/C
C1–3

Primary objective: Antitumor activity^b
Primary endpoint: ORR per Lugano criteria
*Epcoritamab treatment until
HDT-ASCT or PD (whichever is earlier)

R-DHAX/C regimen in C1–3, 21 d each: rituximab 375 mg/m² IV Q3W; dexamethasone 40 mg/d IV or orally on days 1–4; cytarabine 2 g/m² IV repeated after 12 h Q3W; carboplatin AUC = 5 mg/mL x min (Calvert formula) or oxaliplatin 100 mg/m² IV Q3W. Cycle 4 was 21 d; cycles 5+ were 28 d each. ^aClassified as HGBCL, with MYC and BCL2 and/or BCL6 translocations. ^bTumor response was evaluated by PET-CT obtained at 6, 12, 18, 24, 36, and 48 wk, and every 24 wk thereafter, until disease progression.

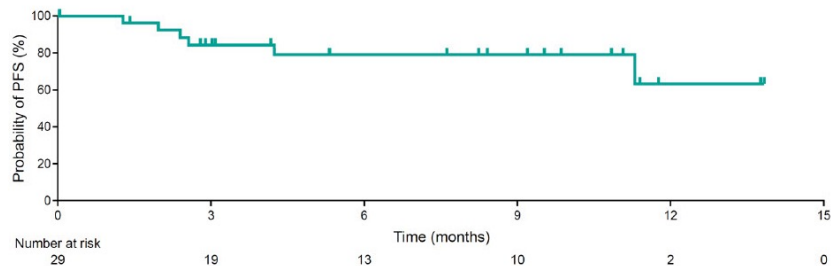


Patient Disposition



The primary reason for patients not proceeding to transplant was patient and/or investigator choice
Median^d (range) follow-up was 12.6 (2.0+ to 17.1) mo

Progression-Free Survival



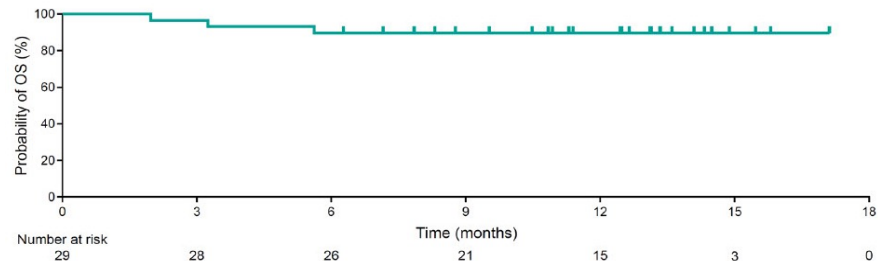
mPFS not reached at a median follow-up of 12.6 mo

Overall and Complete Response Rates Were High

Response, n (%) ^a	Received ASCT n=16	Did not receive ASCT n=11 ^b	Total efficacy evaluable n=27
Overall response	16 (100)	7 (64)	23 (85)
CMR	13 (81)	5 (45)	18 (67)
PMR	3 (19)	2 (18)	5 (19)
Stable disease	0	2 (18)	2 (7)
Progressive disease	0	1 (9)	1 (4)

Data cutoff: September 16, 2022. ^aBased on modified response-evaluable population, defined as patients with ≥ 1 target lesion at baseline and ≥ 1 postbaseline response evaluation and patients who died within 60 d of first dose without assessment. ^bIncludes 5 patients who continued epcoritamab monotherapy and 6 patients who discontinued prior to reaching transplant.

- Median* follow-up was 12.6 mo (range, 2.0+ to 17.1)
- Median duration of response and median duration of CMR were not reached
- Median time to response and complete response was 1.4 mo (range, 1.2–2.2 and 1.2–5.6, respectively)
- **Overall Survival**



An estimated 90% (95% CI, 71%–97%) of patients remained alive at 12 mo;
mOS not reached at a median follow-up of 12.6 mo



Relapse is Uncommon in Patients with Large B-cell Lymphoma Who Are in Complete Remission at the End Of Fixed-course Glofitamab Treatment

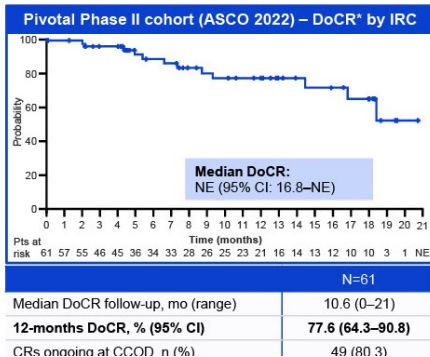
Martin Hutchings,¹ Carmelo Carlo-Stella,² Franck Morschhauser,³ Emmanuel Bachy,⁴ Paolo Corradini,⁵ Gloria Iacoboni,⁶ Cyrus Khan,⁷ Krish Patel,⁸ Mark Hertzberg,⁹ Lorenzo Falchi,¹⁰ Nancy L. Bartlett,¹¹ Joshua Brody,¹² Linda Lundberg,¹³ Yuying Xie,¹⁴ Estefania Mulvihill,¹³ Pauline Baumlin,¹³ James Relf,¹⁵ Kathryn Humphrey,¹⁵ Michael Dickinson¹⁶



Background: Glofitamab monotherapy at RP2D induces durable complete responses

Pivotal Phase II results presented at ASCO 2022

- DLBCL NOS, HGBCL, trFL or PMBCL; ≥ 2 prior therapies
- Glofitamab 2.5/10/30mg (N=155)
- Efficacy
 - CR rate: 39.4% (61/155)
 - ORR: 51.6% (80/155)
- Safety
 - Glofitamab was well tolerated with a low rate of discontinuation
 - CRS was mostly low grade



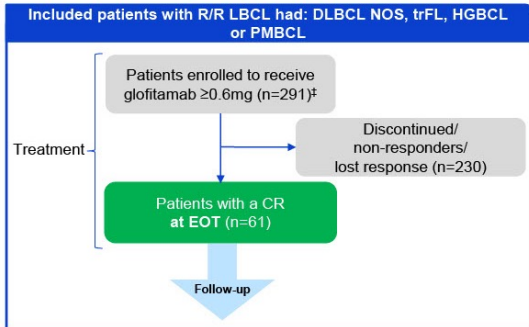
Outcomes in patients with R/R LBCL

Best overall response*:

- CR: 35.4% (103/291)
- PR: 17.2% (50/291)
- ORR: 52.6% (153/291)

Median time to first CR (N=103)†:

- 43 days

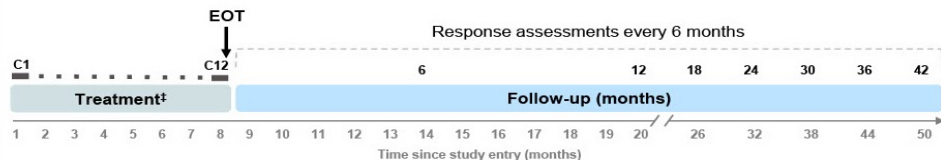


Complete remissions are achieved early in patients with R/R LBCL

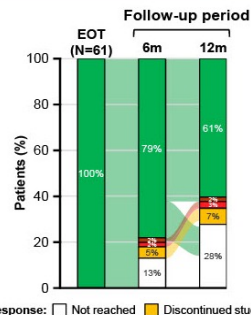
Study overview

Phase I/II dose escalation and expansion in patients with R/R LBCL

- Glofitamab IV administration** fixed dose (0.6–25mg) or with step-up dosing during C1 (target dose: 16mg or 30mg) every three weeks, maximum 13 infusions
- Obinutuzumab pretreatment** (1 x 1000mg) to mitigate CRS
- Fixed duration treatment*** maximum 12 cycles[†] (8.3 months)
- Optional re-treatment** in patients with PD after prior response



Remission at 12 months post-EOT in patients with CR at EOT



Majority of patients remain in remission:

- 6 months follow-up: 79% (48/61)
- 12 months follow-up: 61% (37/61)

After 12 months follow-up, 7 patients had discontinued:

- 1 PD
- 2 deaths (due to lymphoma)
- 4 discontinued study (2 received allogeneic transplant, 1 due to physician decision, 1 lost to follow-up)

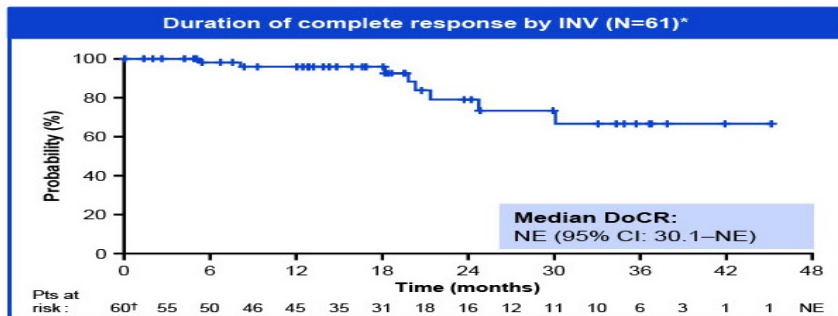
17 patients remained in follow-up but had not yet reached 12 months

Response: Not reached Discontinued study Death PD Continued remission

Majority of patients remain in remission 12 months after cessation of therapy



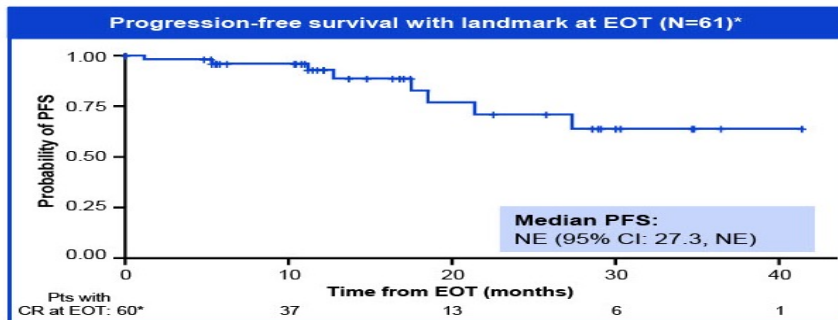
Durable responses after first CR



N=61	
Median DoCR follow-up from first CR, months (95% CI)	18.1 (14.8–20.7)
Median DoCR follow-up from EOT, months (95% CI)	11.5 (10.5–16.4)
Median DoCR, months (95% CI)	NE (30.1–NE)
24-months DoCR, % (95% CI)	79.1 (63.3–95.0)
CRs ongoing at CCOD, n (%)	52 (85.2)

CRs remain durable with significant follow up (11.5 months) post-EOT

PFS in patients with CR at EOT



N=61	
Median PFS follow-up from EOT, months (95% CI)	11.5 (10.5–16.4)
Median PFS, months (95% CI)	NE (27.3–NE)
12-month PFS, % (95% CI)	92.6 (84.3–100.0)

High proportion of patients (93%) remain progression free 12 months post-EOT



Odronextamab in Patients with Relapsed/Refractory (R/R) Diffuse Large B-Cell Lymphoma (DLBCL): Results from a Prespecified Analysis of the Phase 2 Study ELM-2

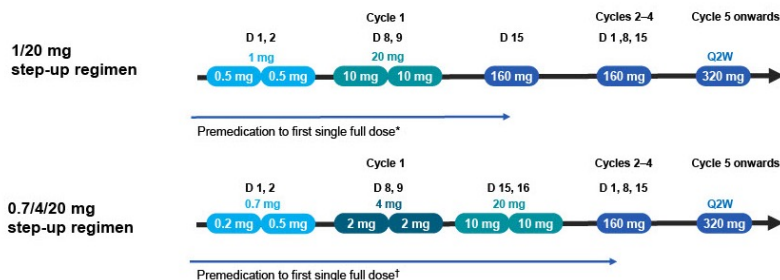
Won Seog Kim¹, Tae Min Kim², Seok-Goo Cho³, Isidro Jarque⁴, Elżbieta Iskierka⁵, Michelle Poon⁶, H. Miles Prince⁷, Sung Yong Oh⁸, Francesca Lim⁹, Cecilia Carpio¹⁰, Tran-Der Tan¹¹, Sabarish Ayyappan¹², Antonio Gutierrez¹³, Jingjin Li¹⁴, Melanie Ufkin¹⁴, Min Zhu¹⁴, Aafia Chaudhry¹⁴, Hesham Mohamed¹⁴, Srikanth Ambati¹⁴, Jan Walewski¹⁵, on behalf of ELM-2 Investigators

¹Samsung Medical Center, Center for Hematologic Malignancy, Seoul, South Korea; ²Seoul National University Hospital, Seoul, South Korea; ³The Catholic University of Korea, Seoul St. Mary's Hospital Hematology, Seoul, South Korea; ⁴Hospital Universitari i Politècnic La Fe, Valencia, Spain; ⁵Copernicus Memorial Hospital, Department of Hematology, Medical University of Łódź, Łódź, Poland; ⁶Hematology Oncology National University Hospital, Singapore; ⁷Epworth Healthcare and University of Melbourne, East Melbourne, Australia; ⁸Dong-A University Hospital, Busan, South Korea; ⁹Singapore General Hospital, Singapore; ¹⁰Department of Hematology, Vall d'Hebron Institute of Oncology (VHIO), University Hospital Vall d'Hebron, Autonomous University of Barcelona (UAB), Barcelona, Spain; ¹¹Hematology and Medical Oncology Koo Foundation Sun Yat Sen Cancer Center, Taipei City, Taiwan; ¹²University of Iowa Hospital and Clinics, Iowa City, IA, USA; ¹³Hospital Universitari Son Espases, IdISBa Palma, Spain; ¹⁴Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA; ¹⁵Narodowy Instytut Onkologii im. Marii Skłodowskiej-Curie Państwowy Instytut Badawczy, Warszawa, Poland



Cycle 1 step-up regimen optimized to mitigate the risk for cytokine release syndrome

- The study initiated with a Cycle 1 step up regimen of 1/20 mg
- This was modified to 0.7/4/20 mg during Cycle 1 to further mitigate the risk of CRS



Cytokine release syndrome

n, (%)	1/20 regimen N=67	0.7/4/20 regimen N=73
CRS any Grade	38 (56.7%)	39 (53.4%)
Grade 1	21 (31.3%)	28 (38.4%)
Grade 2	12 (17.9%)	10 (13.7%)
Grade 3	5 (7.5%)	1 (1.4%)
Grade 4	0	0
Grade 5	0	0
Received corticosteroids	13 (19.4%)	15 (20.5%)
Received tocilizumab	10 (14.9%)	19 (26.0%)
Received vasopressors	5 (7.5%)	1 (1.4%)

- 0.7/4/20 mg step-up regimen reduced the incidence of grade 2 and grade 3 CRS
- Approximately half of R/R DLBCL patients had CRS, mostly grade 1
- Only 1 case of grade 3 CRS with 0.7/4/20 mg step-up regimen (in the setting of acute pancreatitis at week 6) and no grade 4 or higher CRS events
- All CRS events resolved within a median time to resolution of 2 days (range 1-133)
- No patients required mechanical ventilation or ICU admission for the management of CRS

Patients disposition

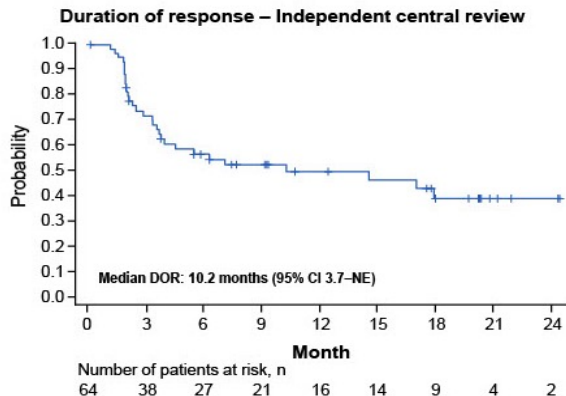
	N=140
Cycle 1 step-up regimen (1/20 mg) / (0/7/4/20 mg)	47.9% / 52.1%
Median duration of exposure, weeks (range)	14.9 (0.9-118.9)
Median number of doses received, no. (range)	15 (1-52)
Median number of cycles completed, no. (range)	5 (0-57)
Completed Cycle 1	128 (91.4%)
≥4 cycles completed	82 (58.6%)
Treatment ongoing	34 (24.3%)
Treatment discontinued	75.7%
Disease progression	41.4%
Adverse event	9.3%
Death	12.9%
Patient or physician decision / withdrawal of consent	12.1%

Other adverse event of interest

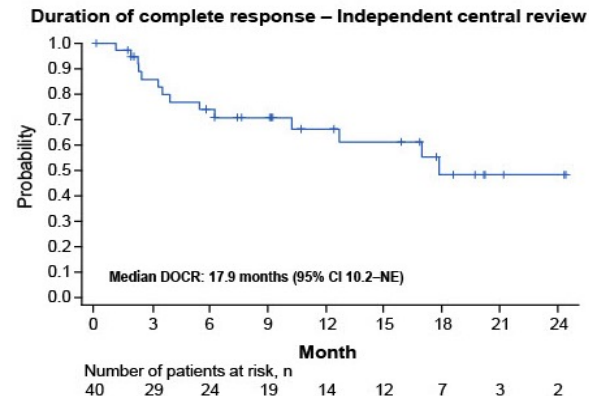
n (%)	1/20 regimen (N=67)	0.7/4/20 regimen (N=73)	All patients (N=140)
ICANS, any grade	3 (4.5%)	1 (1.4%)	4 (2.9%)
Grade ≥3	1 (1.5%)*	0	1 (0.7%)
Infusion related reaction, any grade	16 (23.9%)	8 (11.0%)	24 (17.1%)
Grade ≥3	0	0	0
Infection, any grade	40 (59.7%)	43 (58.9%)	83 (59.3%)
Grades 1-2	13 (19.4%)	24 (32.9%)	37 (26.4%)
Grades 3-4	21 (31.3%)	12 (16.4%)	33 (23.6%)
Grade 5	6 (9.0%)	7 (9.6%)	13 (9.3%)
Tumor lysis syndrome, any grade	1 (1.5%)	0	1 (0.7%)
Grade ≥3	1 (1.5%)	0	1 (0.7%)



Response appears durable



- 12-month DOR: 49.4% (95% CI: 35.0–62.2)
- 18-month DOR: 38.9% (95% CI: 23.9–53.6)



- 12-month DOCR: 66.4% (95% CI: 47.1–80.1)
- 18-month DOCR: 48.3% (95% CI: 26.1–67.4)

- **Odronextamab is an off-the-shelf investigational CD20xCD3 bispecific antibody**
- **First results from pivotal Phase 2 trial of odronextamab demonstrate clinically important antitumor activity in heavily pretreated, R/R DLBCL**
 - ORR 49.2%; CR 30.8%
 - Responses were deep and durable, mDOCR 17.9 months
- **Consistent efficacy prior to and post-CAR T**
- **Odronextamab generally has a manageable safety profile with the optimized step-up regimen**
 - CRS was mostly grade 1 and occurred mainly with Cycle 1 step-up
 - No cases of TLS and no grade 3 or higher ICANS or IRR reported
- **Phase 3 randomized controlled studies will be initiating in earlier lines of therapy**



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FOLLICULAR LYMPHOMA



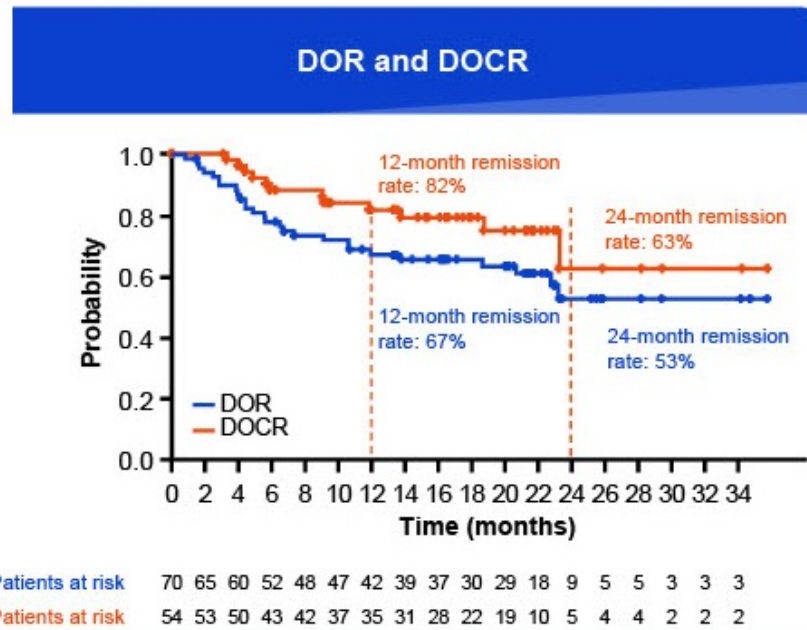
Mosunetuzumab Monotherapy Demonstrates Durable Efficacy with a Manageable Safety Profile in Patients with Relapsed/Refractory Follicular Lymphoma who Received ≥ 2 Prior Therapies: Updated Results from a Pivotal Phase II Study

Nancy L. Bartlett,¹ Laurie H. Sehn,² Matthew Matasar,³ Stephen J. Schuster,⁴ Sarit Assouline,⁵ Pratyush Giri,⁶ John Kuruvilla,⁷ Miguel Canales,⁸ Sascha Dietrich,⁹ Keith Fay,¹⁰ Matthew Ku,¹¹ Loretta Nastoupil,¹² Michael C. Wei,¹³ Shen Yin,¹³ Iris To,¹³ Huang Huang,¹⁴ Juliana Min,¹⁵ Elicia Penuel,¹³ Christopher R. Bolen,¹³ L. Elizabeth Budde¹⁶



Durability of responses

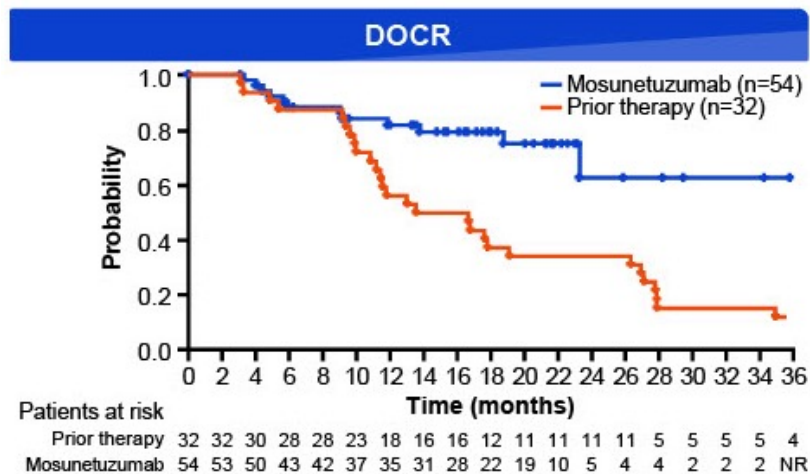
Efficacy endpoint by investigator assessment	N=90
Median DOR, months (range), n=70 24-month DOR (95% CI)	NR (21–NR) 53% (38–68)
Median DOCR, months (range), n=54 24-month DOCR (95% CI)	NR (23–NR) 63% (38–88)
Median PFS, months (range) 24-month PFS (95% CI)	24 (12–NR) 48% (36–60)
Median TTNT, months (range) 24-month TTNT (95% CI)	NR (18–NR) 56% (45–67)
Median OS, months (range) 24-month OS (95% CI)	NR (NR–NR) 87% (80–94)



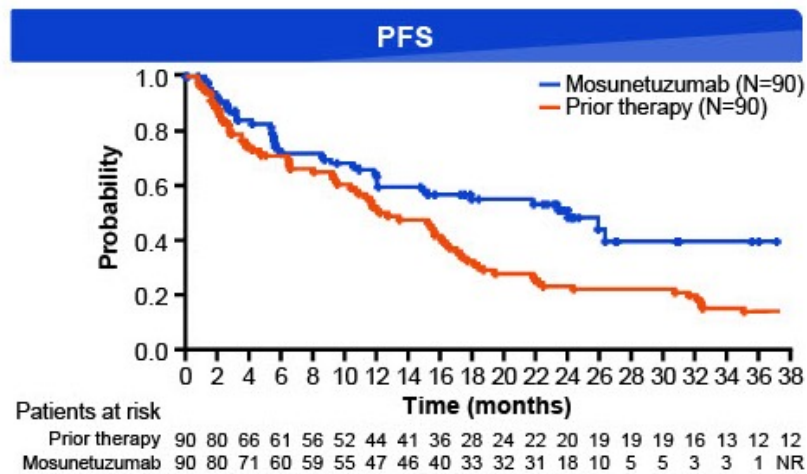
Durable responses: majority of patients in remission after 2 years



DOCR and PFS with mosunetuzumab versus last prior therapy



	Mosunetuzumab (n=54)	Last prior therapy (n=32)
Median DOCR, months (95% CI)	NR (23–NR)	15 (11–26)



	Mosunetuzumab (N=90)	Last prior therapy (N=90)
Median PFS, months (95% CI)	24 (12–NR)	12 (10–16)

Extended DOCR and 12-month improvement in median PFS with mosunetuzumab compared with last prior therapy



- Pivotal Phase II study of mosunetuzumab continues to demonstrate:
 - Clinically meaningful outcomes in heavily pre-treated R/R FL patients, after more than 2 years of follow-up: **CR rate, 60%; 24-month DOCR, 63%**
 - A manageable safety profile with no new CRS events and no late-onset or chronic toxicities



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Subcutaneous Epcoritamab with Rituximab + Lenalidomide in Patients with Relapsed or Refractory Follicular Lymphoma: Phase 1/2 Trial Update

Lorenzo Falchi, MD,¹ Pau Abrisqueta, MD, PhD,² Marcel Nijland, MD, PhD,³ Sirpa Leppä, MD,⁴ Martin Hutchings, MD, PhD,⁵ Harald Holte, MD, PhD,⁶ Reid W. Merryman, MD,⁷ Pieternella Lugtenburg, MD, PhD,⁸ Sven de Vos, MD, PhD,⁹ Chan Y. Cheah, MBBS, FRACP, FRCPA, DMSc,¹⁰ Jacob Haaber Christensen, MD, PhD,¹¹ Luca Arcaini, MD,¹² Kristina Drott, MD, PhD,¹³ Mats Hellström, MD, PhD,¹⁴ Lori A. Leslie, MD,¹⁵ Umberto Vitolo, MD,¹⁶ Ali Rana, MD, PhD,¹⁷ Aqeel Abbas, MS,¹⁷ Liwei Wang, PhD,¹⁷ Minh Dinh, MD,¹⁸ David Belada, MD, PhD¹⁹



Study Design: EPCORE NHL-2, Arm 2b

A phase 1b/2, open-label trial evaluating the safety and antitumor activity of epcoritamab + R² in adults with R/R FL^a

Key inclusion criteria

- R/R CD20⁺ FL
 - Grade 1, 2, or 3A
 - Stage II–IV
- Need for treatment based on symptoms or disease burden, as determined by GELF criteria¹
- ECOG PS 0–2
- Measurable disease by CT or MRI
- Adequate organ function

Agent	Treatment Regimen Epcoritamab SC 48 mg + R ²						
	C1	C2	C3	C4	C5	C6–C12	C13+
Epcoritamab SC 48 mg	QW	QW	Q4W	Q4W	Q4W	Q4W	Q4W Up to 2 years
Rituximab IV 375 mg/m ²	QW	Q4W	Q4W	Q4W	Q4W		
Lenalidomide oral 20 mg	Daily for 21 d (for 12 cycles)						

R²

Data cutoff: September 16, 2022
Median follow-up: 6.4 mo

Primary objective: Safety and antitumor activity^b

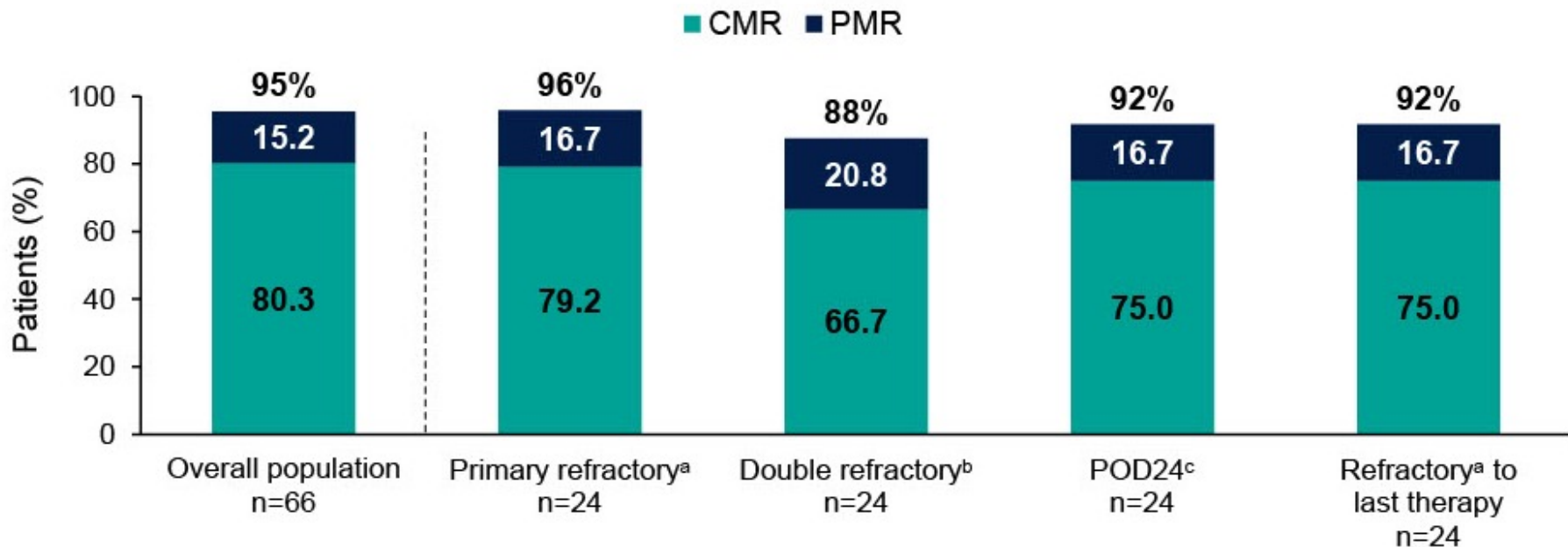


High Overall and Complete Metabolic Response Rates

Response ^a	Efficacy Evaluable n=66
Overall response	95%
CMR	80%
PMR ^b	15%
Stable disease	3%
Progressive disease	2%



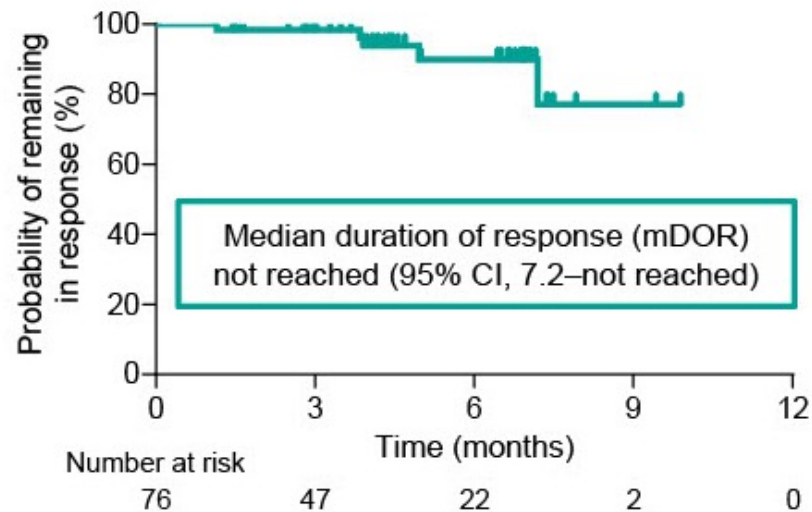
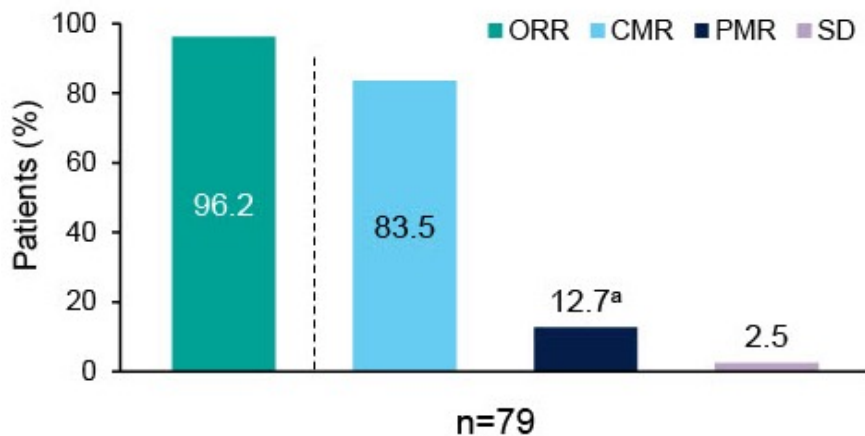
Responses Across High-risk Subgroups



Deep responses consistent across high-risk R/R FL subgroups



Updated Response Data

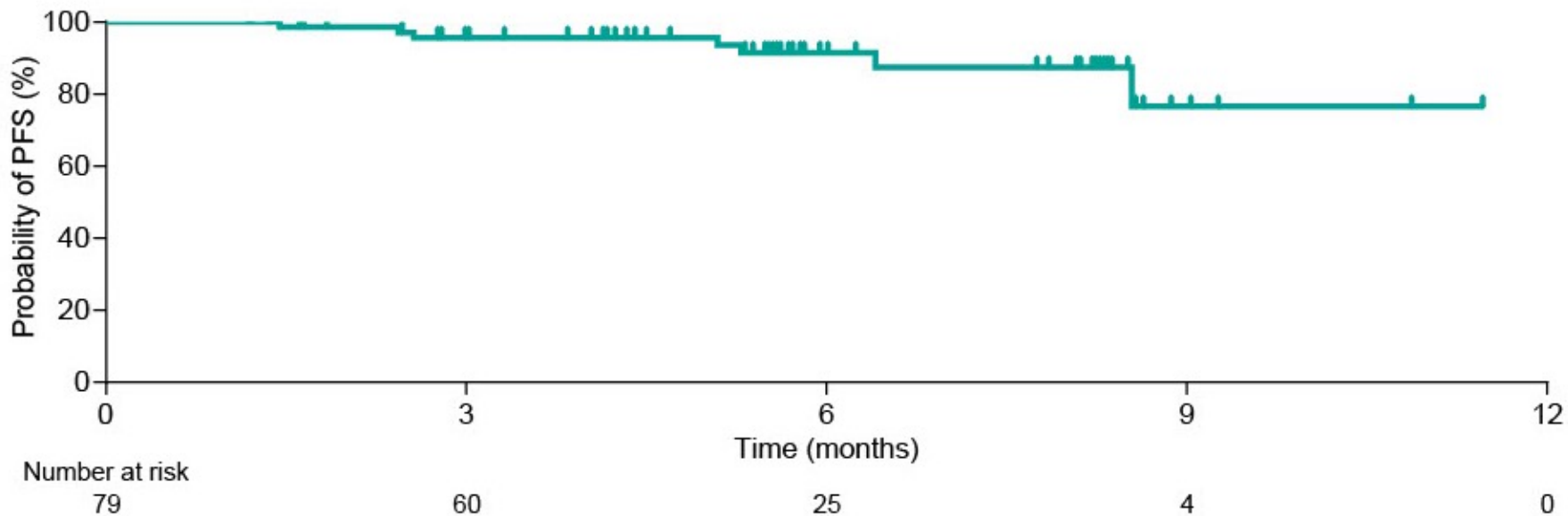


Data cutoff: October 31, 2022

Median follow-up: 5.6 mo (range, 1.2+ to 11.5+)



Progression-Free Survival



Median PFS not reached (95% CI, 8.5–not reached)



- **Epcoritamab + R² showed potent antitumor activity**
 - High response rates: ORR 96.2%, CMR 83.5%; majority achieved at first assessment
 - Deep responses observed across high-risk subgroups
 - Durable responses have been observed

- **Safety remained consistent with previous reports**
 - No grade ≥ 3 CRS observed; CRS events mostly occurred after the first full dose



Odronextamab in Patients with Relapsed/Refractory (R/R) Follicular Lymphoma (FL) Grade 1–3a: Results from a Prespecified Analysis of the Phase 2 Study ELM-2

**Tae Min Kim¹, Michal Taszner², Seok-Goo Cho³, Silvana Novelli⁴, Steven Le Gouill⁵, Michelle Poon⁶, Jose C. Villasboas⁷, Rebecca Champion⁸, Emmanuel Bachy⁹,
Stephanie Guidez¹⁰, Aranzazu Alonso¹¹, Deepa Jagadeesh¹², Michele Merli¹³, David Tucker¹⁴, Jingxian Cai¹⁵, Carolina Leite de Oliveira¹⁵, Min Zhu¹⁵,
Aafia Chaudhry¹⁵, Hesham Mohamed¹⁵, Srikanth Ambati¹⁵, Stefano Luminari¹⁶, on behalf of ELM-2 Investigators**

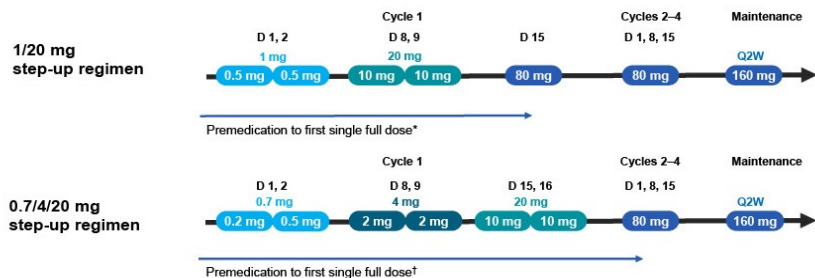
¹Seoul National University Hospital, Seoul, South Korea; ²Department of Haematology and Transplantology, Faculty of Medicine, Medical University of Gdańsk, Gdańsk, Poland; ³The Catholic University of Korea, Seoul St. Mary's Hospital Hematology, Seoul, South Korea; ⁴Hospital de la Santa Creu i Sant Pau, Barcelona, Spain; ⁵Service d'Hématologie Clinique, Centre Hospitalier Universitaire de Nantes, Nantes, France (currently at Institut Curie, Paris, France and Université UVSQ, France); ⁶Hematology Oncology National University Hospital, Singapore; ⁷Mayo Clinic Rochester, Rochester, MN, USA; ⁸Norton Cancer Institute, Louisville, KY, USA; ⁹Hospices Civils de Lyon and Université Claude Bernard Lyon 1, Lyon, France; ¹⁰Centre Hospitalier Universitaire (CHU) de Poitiers, Poitiers, France; ¹¹Hospital Universitario Quiron Salud Madrid, Madrid, Spain; ¹²Cleveland Clinic Main Campus, Cleveland, OH, USA; ¹³Ospedale di Circolo e Fondazione Macchi, Varese, Italy; ¹⁴Royal Cornwall Hospital, Cornwall, United Kingdom; ¹⁵Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA; ¹⁶Division of Hematology, Azienda Unità Sanitaria Locale-IRCCS, Reggio Emilia, Italy



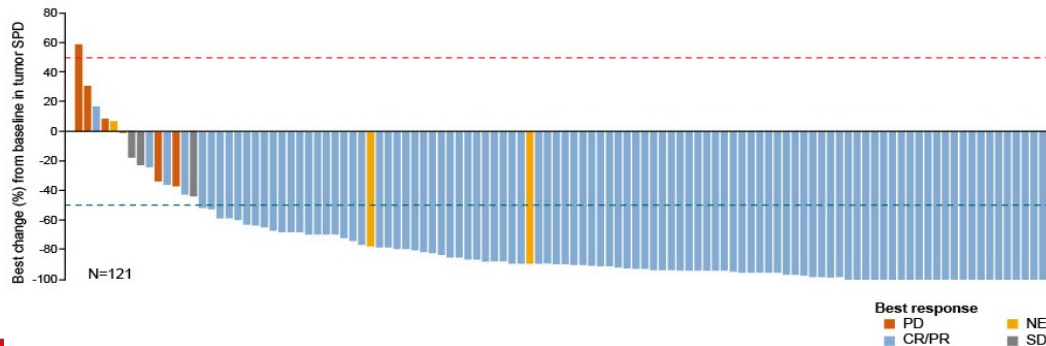
2-3-4 Febbraio 2023

Cycle 1 step-up regimen optimized during the course of the study to further mitigate the risk for cytokine release syndrome

- The study initiated with a Cycle 1 step-up regimen of 1/20/80 mg
- This was modified to 0.7/4/20 mg during Cycle 1 to further mitigate the risk of CRS

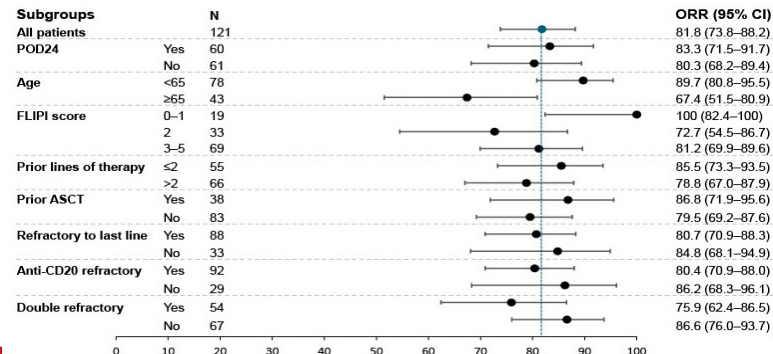


Odronextamab efficacy



Patients disposition

	N=131
Cycle 1 step-up regimen (1/20 mg) / (0/7/4/20 mg)	51.9% / 48.1%
Median duration of exposure, weeks (range)	22.1 (0.4–137.0)
Median number of doses (range)	19 (1–61)
Median number of cycles (range)	9.1 (0.1–66.5)
Completed cycle 1	95.4%
Completed ≥4 cycles	80.9%
Treatment ongoing	42.7%
Treatment discontinued	57.3%
Disease progression	19.8%
Patient or physician decision / withdrawal of consent	17.6%
Adverse event	9.9%
Death	9.9%





Cytokine release syndrome

n, (%)	1/20 regimen (N=68)	0.7/4/20 regimen (N=63)
CRS any Grade	38 (55.9%)	36 (57.1%)
Grade 1	22 (32.4%)	28 (44.4%)
Grade 2	12 (17.6%)	7 (11.1%)
Grade 3	4 (5.9%)	1 (1.6%)
Grade 4	0	0
Grade 5	0	0
Received corticosteroids	11 (16.2%)	17 (27.0%)
Received tocilizumab	9 (13.2%)	12 (19.0%)
Received vasopressors	4 (5.9%)	1 (1.6%)

- 0.7/4/20 mg step-up regimen reduced the incidence of grade 2 and grade 3 CRS
- Approximately half of patients with R/R FL had CRS, mostly grade 1
- Only 1 case of grade 3 CRS with 0.7/4/20 mg step-up regimen and no grade 4 or higher CRS events
- All CRS events resolved with a median time to resolution of 2 days (range 1–51)
- No patients required mechanical ventilation or ICU admission for the management of CRS

Adverse event of interest

n (%)	1/20 regimen (N=68)	0.7/4/20 regimen (N=63)	All patients (N=131)
ICANS, any grade	1 (1.5%)	0	1 (0.8%)
Grade ≥3	0	0	0
Infusion related reaction, any grade	21 (30.9%)	16 (25.4%)	37 (28.2%)
Grade ≥3	4 (5.9%)	2 (3.2%)	6 (4.6%)
Infection, any grade	51 (75.0%)	35 (55.6%)	86 (65.6%)
Grades 1–2	23 (33.8%)	21 (33.3%)	44 (33.6%)
Grades 3–4	19 (27.9%)	11 (17.5%)	30 (22.9%)
Grade 5	9 (13.2%)	3 (4.8%)	12 (9.2%)
Tumor lysis syndrome, any grade	1 (1.5%)	0	1 (0.8%)
Grade ≥3	1 (1.5%)	0	1 (0.8%)



- Odronextamab is an off-the-shelf, investigational CD20×CD3 bispecific antibody
- First results from the pivotal Phase 2 trial of odronextamab demonstrate a new benchmark for efficacy in heavily pretreated, R/R FL
 - ORR 81.8%, CR 75.2%; 92% of responders were complete responders
 - Responses were deep and durable with a mPFS of 20.2 months
- Odronextamab has a generally manageable safety profile with the optimized step-up regimen
 - CRS was mostly grade 1 and generally occurred with Cycle 1 step-up
 - No cases of ICANS or TLS
 - Treatment-related adverse events leading to treatment discontinuation occurred infrequently (7.6%)
- Phase 3 randomized controlled studies will be initiating in follicular lymphoma in earlier lines of therapy



- 1351 NNV024 a humanized anti-CD37 antibody with enhanced ADCC and extended plasma half-life for the treatment of B-cell malignancies
- 1357 IKS03 a next generation CD-19 targeted antibody drug conjugated shows potente activity in preclinical models of aggressive B-cell lymphoma
- 1363 PIT 565, a first in class anti-CD19, anti-CD3, anti-CD2 trispecific antibody for the treatment of B-cell malignancies
- 1613 Phase I study of the anti-BTLA antibody Tifcemalimab as a single agent or in combination with Tporipalimab in R/R lymphomas
- 1618 Magrolimab in combination with Rituximab+Chemotherapy in patients wth R/R DLBCL
- 1625 A first in Human phase I study of ABBV-319, an antibody drug conjugated composed of a CD19 antobody linked to a potent proprietary gucocorticoid receptor modulator, in patients with R/R B-cell malignancies
- 1630 Mosunetuzumab with Polatuzimab Vedotin is effective and has a manageable safety profile in patients aged <65 years and >65 years with R/R diffuse large B-cell lymphoma and >=1 prior therapy: subgroup analysis of a phase Ib/II study
- 1637 SUNMO: a phase III trial evaluating the efficacy and safety of Mosunetuzumab in combination with Polatuzumab Vedotin versus Rituximan in combination with Gemcitabine plus Oxaliplatin in patients with R/R aggressive B-cell non Hodgkin Lymphoma
- 1659 Phase I study of CD-19 targeted CD-28 costimulatory agonist in combination with Glofitamab to enhance T cell effector function in R/R B-cell lymphoma
- 2938 First in Human (FIH) study of the fully-human Kappa-Lambda CD19/CD47 bispecific antibody TG-1801 in patients with B-cell lymphoma
- 2955 A phase II open label study of Loncastuximab Tesirine in combination with Rituximab in previously untreated unfit/frail patients with diffuse large B-cell lymphoma (LOTIS-9)
- 2983 Glofitamab in R/R diffuse large B-cell lymphoma: real world data
- 4200 Preliminary safety and efficacy evaluation of IMM0306, a CD20 bispecific monoclonal antibody-TRAP (mAB-Trap) from an ongoing phase I dose escalation study in patients with R/R B-cell non Hodgkin's lymphoma
- 4206 Phase III trial of subcutaneous Epcoritamab in combination with Rituximab and Lenalidomide (R2) vs R2 among patients with R/R follicular lymphoma (EPCORE FL-1)
- 4259 CD19 4-1BBL (RO7227166) a novel costimulatory bispecific antibody can be safely combined with the T-cell engaging bispecific antibody Glofitamab in R/R B-cell non Hodgkin Lymphoma
- 4262 A phase I study of Plamatomab an anti CD20 x anti CD3 bispecific antibody, in patients with R/R non Hodgkin's lymphoma: recommended dose safety/efficacy update and escalation exposure response analysis
- 4267 The type II Glycoenginnred humanized anti CD20 monoclonal antibody MIL62 combined with Orelabrutinib in Chinese patients with relapsed or refractory B-cell non Hodgkin lymphoma: updated results of a multcenter phase I/IIa trial
- 4277 Phase II trial to evaluate safety of subcutaneous Epcoritamab monotherapy in the outpatients setting among patients with R/R diffuse grade 1-3° large B-cell and follicular lymphoma (Epcore NHL-6)



CONCLUSIONI

- Polatuzumab si dimostra una importante risorsa per migliorare l'efficacia dei regimi chemioterapici di salvataggio.
- Gli anticorpi bispecifici stanno sempre più confermando la loro efficacia sia da soli che in associazione.
- I risultati di questi anticorpi in seconda linea sono veramente importanti e soprattutto, aumentando il follow-up, di lunga durata.
- Il loro ruolo dopo le CAR-T si sta sempre più definendo.
- Gli effetti collaterali (CIRS e ICANS) con aggiustamento di dosi, scheduling ad incrementare, sono sempre meglio gestibili aprendo ad un utilizzo in regimi non di ricovero.