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RECENT DEVELOPMENTS IN THE TREATMENT OF DLBCL

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DISCLAIMER AND DISCLOSURES



LYMPHOMA CONNECT

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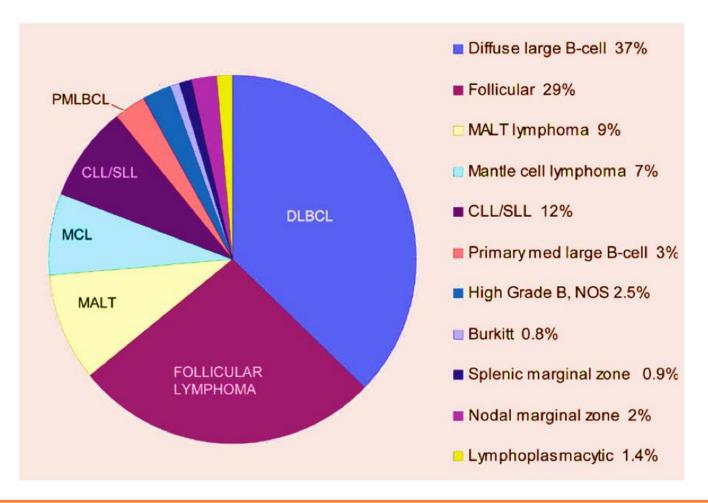
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DISCLOSURES PROF. LENZ

Celgene, Janssen, Roche, Gilead, Bayer, BMS, Hexal, AstraZeneca, MorphoSys, NanoString, Takeda, Abbvie

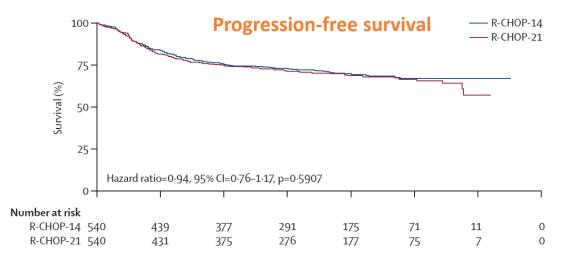
DIFFUSE LARGE B-CELL LYMPHOMA (DLBCL) REPRESENTS THE MOST FREQUENT LYMPHOMA SUBTYPE

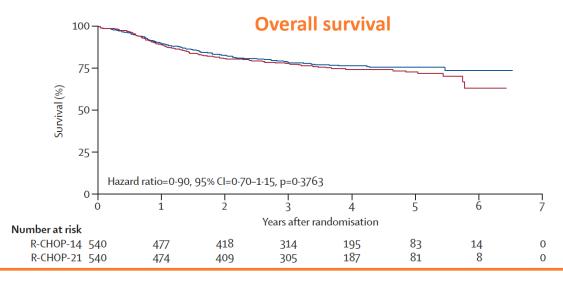




ROUGHLY 70% OF DLBCL PATIENTS CAN BE CURED WITH R-CHOP









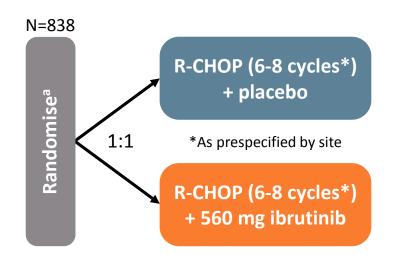
PHOENIX TRIAL

R-CHOP + IBRUTINIB VS R-CHOP + PLACEBO IN PREVIOUSLY UNTREATED NON-GCB DLBCL

PHOENIX: DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE 3 STUDY¹



STUDY DESIGN



Key eligibility criteria

- Untreated non-GCB DLBCL
 - Determined by Hans-based IHC at a central laboratory
 - Retrospectively analysed for ABC subtype using GEP
- Stage II to IV measurable disease
- R-IPI ≥1
- ECOG performance status ≤2

End points

- Primary end point: EFS[†] in ITT (non-GCB) and ABC subgroup
- Secondary end points: PFS, CR rate, OS, safety
 - Response assessed per Revised Response Criteria for Malignant Lymphoma²

^aStratified by R-IPI, region, and number of prespecified treatment cycles (6 vs 8 cycles)

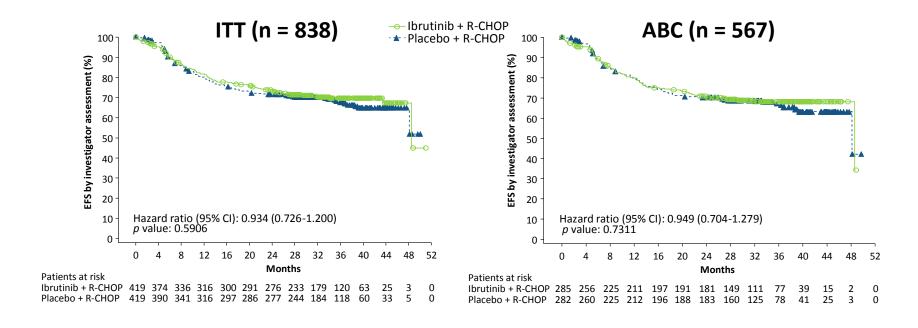
· Prophylactic antibiotics and G-CSF were not mandated but were permitted at the investigator's discretion per local or other standard guidelines

[†]EFS: time from randomization to PD, relapse from CR, initiation of subsequent disease-specific therapy for PET-positive or biopsy-proven residual disease after ≥6 cycles of R-CHOP, or any-cause death

ABC, activated B-cell; CR, complete response; DLBCL, diffuse large B-cell lymphoma; ECOG, Eastern Cooperative Oncology Group; EFS, event-free survival; GCB, germinal centre B cell-like; GEP, gene expression profiling; G-CSG, granulocyte colony stimulating factor; IHC, immunohistochemistry; ITT, intent-to-treat; OS, overall survival; PD, progressive disease; PET, positron emission tomography; PFS, progression-free survival; R-CHOP, rituximab-cyclophosphamide-doxorubicin hydrochloride-vincristine-prednisolone; R-IPI, revised International Prognostic Index

PHOENIX PRIMARY END POINT: EFS IN THE ITT AND ABC POPULATION



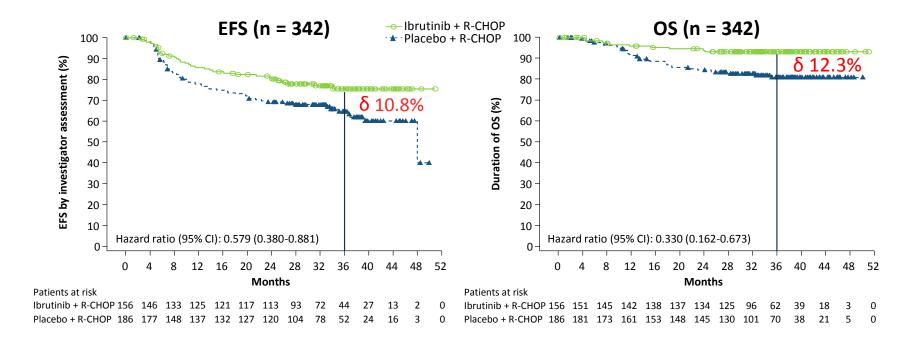


- Overall response (89.3% vs 93.1%) and CR rates (67.3% vs 68.0%) were similar in the ibrutinib + R-CHOP and placebo + R-CHOP arms in the ITT population
- CNS progression was observed in 10 (2.4%) vs 16 (3.8%) patients in the ibrutinib + R-CHOP and placebo + R-CHOP arms

PHOENIX

EFS AND OS IN PATIENTS <60 YEARS (ITT POPULATION)





- Ibrutinib + R-CHOP improved EFS and OS vs placebo + R-CHOP in patients <60 years of age
- Subgroup analyses showed that EFS benefit was consistent across most subgroups for baseline factors
- A similar trend with age was seen in patients with the ABC subtype (HR [95% CI]: 0.532 [0.307-0.922] for EFS;
 HR [95% CI]: 0.345 [0.138-0.862] for OS)
- More patients on the placebo + R-CHOP arm received subsequent antilymphoma therapy (16.2% vs 21.6%)







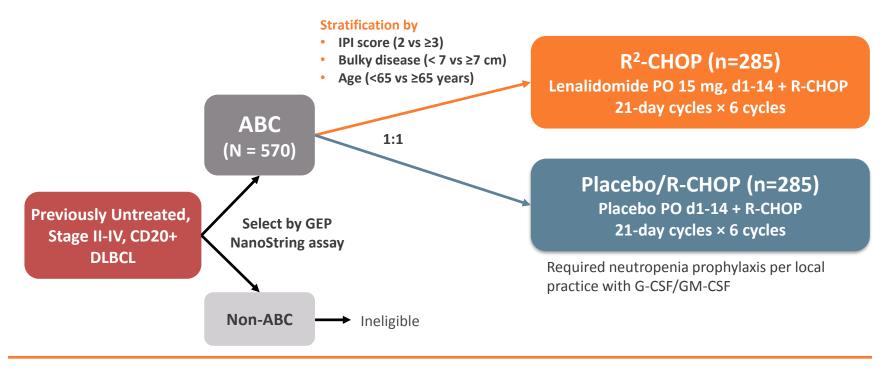
ROBUST TRIAL

R²-CHOP VS PLACEBO/R-CHOP IN PREVIOUSLY UNTREATED ABC-TYPE DLBCL

ROBUST: PHASE 3 STUDY STUDY DESIGN



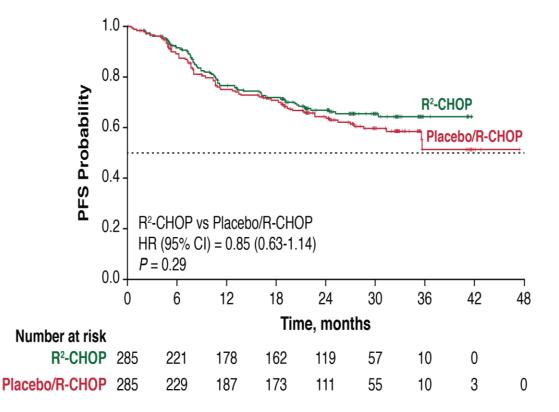
- Multicentre, randomised, double-blind, placebo-controlled, phase 3 study in 282 global sites^{1,2}
- Primary endpoint: PFS by central review (per 2014 IWG)^{1,3}
- Secondary endpoints: EFS (key secondary), OS, ORR, CR rate, DOR, and safety¹



ROBUST PRIMARY ENDPOINT





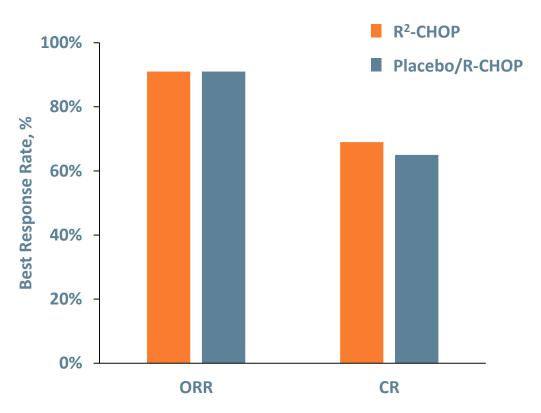


PFS Rates	R ² -CHOP (n = 285)	Placebo/ R-CHOP (n = 285)
1 year	77%	75%
2 year	67%	64%

- At a median follow-up of 27.1 months (range 0–47), the primary endpoint of PFS was not met (medians not reached)
- Median PFS improved from 24 months with R-CHOP to 38 months with R^2 -CHOP in ABC-DLBCL (192 events with 90% power; HR = 0.625)

ROBUST RESPONSE





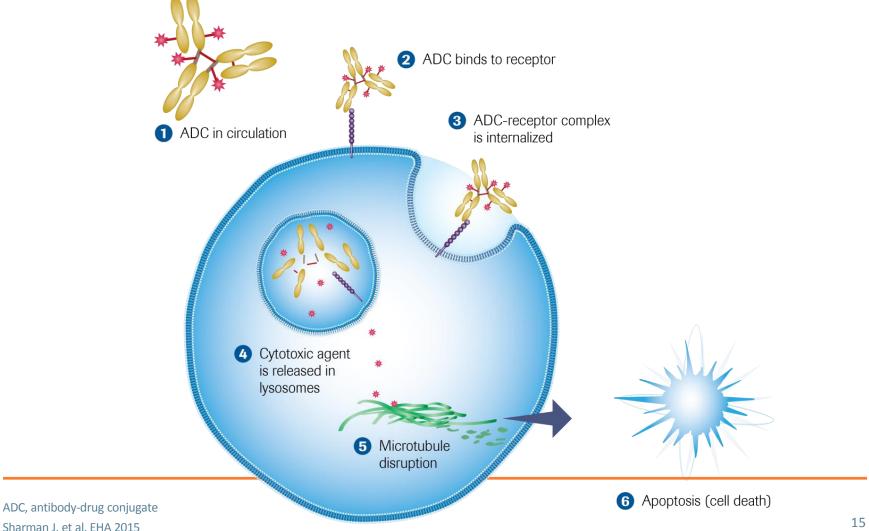
- ORR and CR rates were high in both arms
- Median time from diagnosis to treatment was 31 days for each arm

POLATUZUMAB

POLATUZUMAB VEDOTIN IS AN ANTIBODY-DRUG CONJUGATE (ADC)



MECHANISM OF ACTION



Sharman J, et al. EHA 2015

POLATUZUMAB PHASE 1/2 STUDY IN DLBCL

STUDY DESIGN



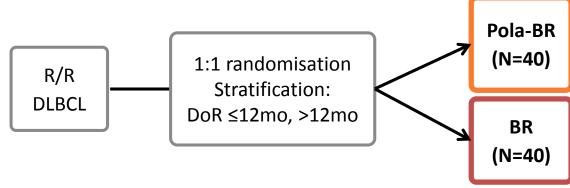
Phase 1b safety run-in: Pola-BR or BG¹ R/R
DLBCL

Pola-BR
(N=6)

Pola-BG
(N=6)

Phase 2 expansion: Pola-BG¹ R/R
DLBCL Pola-BG
(N=20)

Phase 2 randomisation: Pola-BR vs. BR



Treatment administered every 21 days x 6 cycles:

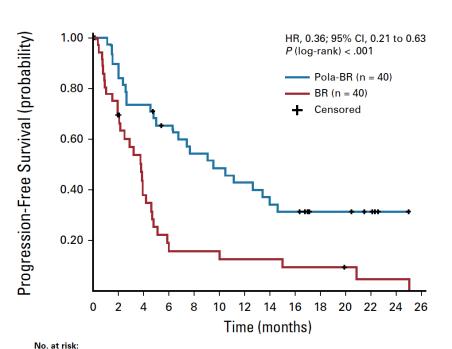
- Polatuzumab vedotin: 1.8 mg/kg, C1D2, then D1 for C2+
- Bendamustine (B): 90 mg/m², C1D2/3, then D1/2 for C2+
- Obinutuzumab (G): 1000 mg, C1D1/8/15, then D1 for C2+
- Rituximab (R): 375 mg/m², D1 for C1+

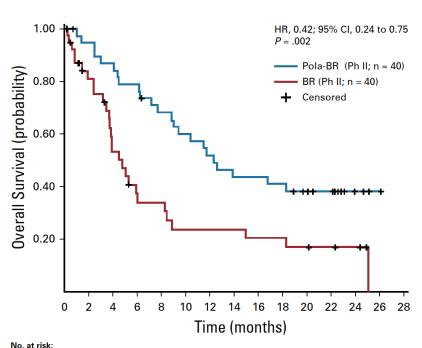
POLATUZUMAB IS ACTIVE IN DLBCL





Overall Survival





Pola-BR (Ph II) 40 38 32 28 28 24 23 21 19 19 17 16 15 14 12 11 11 8 7 7 7 6 5 1 1 BR (Ph II) 40 28 23 18 12 8 5 5 5 5 4 4 4 4 4 3 3 3 3 3 2 1 1 1 1 1 1 Pola plus BR (Ph II) 40 38 36 34 33 30 30 27 25 24 22 21 19 17 16 16 16 15 15 13 12 9 9 5 3 2 BR (Ph II) 40 33 27 25 17 15 11 10 10 7 7 7 7 7 7 7 6 6 6 6 6 5 5 4 4 3 3 1

CLINICAL IMPLICATIONS





Standard of care

• R-CHOP remains the first-line standard of care in DLBCL



No benefit of adding ibrutinib or lenalidomide

• The PHOENIX and ROBUST trials did not show clinically meaningful improvement of adding ibrutinib or lenalidomide to R-CHOP





Promising novel agents

- Antibody-drug conjugates, such as polatuzumab vedotii
- CAR T-cells
 - CAR T-cells have been approved for use in the R/R setting
- Bispecific antibodies

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