

(PS2103) CLINICAL CHARACTERISTICS AND EFFICACY OF MYC/BCL-2 DOUBLE-EXPRESSING DIFFUSE LARGE B-CELL LYMPHOMA: REAL-WORLD DATA FROM THE BELIEVE STUDY**Topic:** 19. Large B cell lymphomas - Clinical

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Background

Diffuse large B-cell lymphoma (DLBCL) displays marked molecular heterogeneity. The phase II GUIDANCE-01 trial showed that subtype-guided immunochemotherapy (R-CHOP-X) improves anti-tumor efficacy with manageable safety (*Cancer Cell* 2023;41:1705-1716). The phase III DEB trial confirmed that R-CHOP plus chidamide significantly prolongs survival in MYC/BCL-2 double-expressing DLBCL (DEL-DLBCL) (*ASH 2025 oral 475*).

Aims

We present the large-scale Chinese real-world BELIEVE study (NCT06026488) to assess the effectiveness of different therapeutic strategies in DEL-DLBCL and generate real-world evidence to support clinical decision-making.

Methods

This retrospective study enrolled DLBCL patients who underwent next-generation sequencing (NGS). Baseline characteristics, treatments, efficacy, and survival data were collected. The primary endpoint was progression-free survival (PFS); key secondary endpoints included objective response rate (ORR), complete response rate (CRR), and overall survival (OS).

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Results

Among 3773 DLBCL patients, 28.8% (1088/3773) were classified as DEL. Median age was 61 years (IQR 51–69); 51.5% male; 60.5% had Ann Arbor stage III–IV disease; 34.4% had ≥ 2 extranodal sites; 69.5% had non-GCB phenotype; and 42.2% had IPI score 3–5. R-CHOP-like was the most frequent treatment regimen (52.5%), followed by R-CHOP plus target agents (16.4%). Among 1051 DEL-DLBCL patients evaluable for efficacy, ORR and CRR were 75.9% and 57.5%, lower than non-DEL-DLBCL patients (ORR 84.1%, CRR 68.4%). R-CHOP plus target agents achieved higher ORR than R-CHOP (84.2% vs. 75.6%). Within R-CHOP plus target agents combinations, BTK inhibitor was commonly used. Among patients prescribed R-CHOP+BTKi regimens (n=69), ORR and CRR were 88.4% and 75.4%. Orelabrutinib was the commonly used BTKi (n=43) with ORR and CRR were 88.3% and 76.7%.

Summary/Conclusion

In this large Chinese real-world cohort, DEL-DLBCL accounts for ~30% of DLBCL and is characterized by aggressive clinicopathological features and inferior outcomes compared with non-DEL DLBCL, confirming its high-risk nature. R-CHOP-like therapy shows limited efficacy in DEL-DLBCL, whereas R-CHOP plus BTKi show promising efficacy, supporting individualized, evidence-based treatment options for DEL-DLBCL. This study provides real-world evidence to optimize DEL-DLBCL management. Long-term survival analyses including PFS are ongoing.

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