

## New treatment option for relapsed or refractory DLBCL

Polatuzumab vedotin—an antibody–drug conjugate that targets CD79b, a B-cell receptor component—could be an effective treatment for relapsed or refractory diffuse large B-cell lymphoma.

In phase 2 of a multicentre, open-label, phase 1b–2 trial, Laurie Sehn (University of British Columbia, Vancouver, BC, Canada) and colleagues randomly assigned 80 patients with transplantation-ineligible relapsed or refractory diffuse large B-cell lymphoma to polatuzumab vedotin combined with bendamustine and rituximab (n=40) or bendamustine and rituximab alone (n=40). The primary endpoint was independent review committee-assessed complete response. Secondary endpoints included progression-free survival and overall survival.

A significantly higher proportion of patients achieved a complete

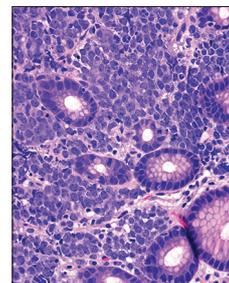
response with polatuzumab vedotin, bendamustine, and rituximab (16 [40%] of 40) than with bendamustine and rituximab alone (7 [17.5%] of 40; p=0.026). Progression-free survival was also significantly longer in the polatuzumab vedotin group (9.5 months [95% CI 6.2–13.9] vs 3.7 months [2.1–4.5]; hazard ratio [HR] 0.36 [95% CI 0.21–0.63]; p<0.001) as was overall survival (12.4 [95% CI 9.0–not estimable] vs 4.7 months [3.7–8.3]; HR 0.42 [95% CI 0.24–0.75]; p=0.002). Grade 3–4 adverse events that were more frequent in patients who received polatuzumab vedotin than in those who did not included neutropenia (18 [46.2%] of 39 vs 13 [33.3%] of 39) and anaemia (11 [28.2%] vs 7 [17.9%]).

“Patients with relapsed or refractory diffuse large B-cell lymphoma

have limited treatment options”, explained Sehn. “This randomised phase 2 trial demonstrates that the combination of polatuzumab with bendamustine and rituximab resulted in improved complete response rates, progression-free survival and overall survival, compared with bendamustine and rituximab alone. Importantly, a proportion of patients achieved durable control without need for further therapy.”

Michael Crump (University of Toronto, Toronto, ON, Canada) commented: “The small sample size and phase 2 design, as well as the poor results reported with bendamustine and rituximab alone compared to previous reports suggests that further evaluation of this novel combination would be helpful.”

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