## **■ HAEMATOLOGICAL CANCER**

## Daratumumab proves effective in patients with newly diagnosed multiple myeloma

Bortezomib plus melphalan and prednisone is a widely used standard-of-care treatment for patients with newly diagnosed multiple myeloma who are ineligible for autologous stem-cell transplantation, and typically provides a progression-free survival (PFS) duration of 18–24 months. Now, findings of the phase III ALCYONE trial demonstrate the superiority of adding the anti-CD38 antibody daratumumab to this regimen.

A total of 706 patients with newly diagnosed multiple myeloma were randomly assigned to receive bortezomib plus melphalan and prednisone, with or without daratumumab. The overall response rate was 90.9% in the daratumumab group versus 73.9% in the control group, with complete responses observed in 42.6% and 24.4% of patients, respectively, and the 18-month PFS was 71.6% with daratumumab versus 50.2% with the control regimen (P<0.001 for all comparisons). Patients in the daratumumab group had similar risks of grade 3 or 4

neutropenia, thrombocytopenia and anaemia, albeit with daratumumab infusion-related reactions in 27.7% of patients.

These findings confirm the value of adding daratumumab to chemotherapy regimens for patients with multiple myeloma, and are consistent with the results of the VISTA and GIMEMA trials, which demonstrated the effectiveness of bortezomib and the ability to improve the tolerability of bortezomib-containing regimens by reducing the dose of chemotherapy. Daratumumab is currently approved for use in patients with multiple myeloma after disease progression on at least one prior line of therapy; these observations might lead to the approval of daratumumab in the first-line setting. Long-term follow-up data are eagerly awaited.

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