

READ IT BEFORE YOUR PATIENTS

Niraparib in Patients with Newly Diagnosed Advanced Ovarian Cancer

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BACKGROUND

Niraparib, an inhibitor of poly (adenosine diphosphate [ADP]-ribose) polymerase (PARP), has been associated with significantly increased progression-free survival among patients with recurrent ovarian cancer after platinum-based chemotherapy, regardless of the presence or absence of BRCA mutations. The efficacy of niraparib in patients with newly diagnosed advanced ovarian cancer after a response to first-line platinum-based chemotherapy is unknown.

METHODS

In this randomised, double-blind, phase 3 trial, we randomly assigned patients with newly diagnosed advanced ovarian cancer in a 2:1 ratio to receive niraparib or placebo once daily after a response to platinum-based chemotherapy. The primary end-point was progression-free survival in patients who had tumours with homologous-recombination deficiency and in those in the overall population, as determined on hierarchical testing. A pre-specified interim analysis for overall survival was conducted at the time of the primary analysis of progression-free survival.

RESULTS

Of the 733 patients who underwent randomisation, 373 (50.9%) had tumours with homologous-recombination deficiency. Among the patients in this category, the median progression-free survival was significantly longer in the niraparib group than in the placebo group (21.9 months vs. 10.4 months; hazard ratio for disease progression or death, 0.43; 95% confidence interval [CI], 0.31 to 0.59; P<0.001). In the overall population, the corresponding progression-free survival was 13.8 months and 8.2 months (hazard ratio, 0.62; 95% CI, 0.50 to 0.76; P<0.001). At the 24-month interim analysis, the rate of overall survival was 84% in the niraparib group and 77% in the placebo group (hazard ratio, 0.70; 95% CI, 0.44 to 1.11). The most common adverse events of grade 3 or higher were anaemia (in 31.0% of the patients), thrombocytopaenia (in 28.7%), and neutropaenia (in 12.8%). No treatment-related deaths

CONCLUSIONS

Among patients with newly diagnosed advanced ovarian cancer who had a response to platinum-based chemotherapy, those who received niraparib had significantly longer progression-free survival than those who received placebo, regardless of the presence or absence of homologous-recombination deficiency.