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CHRONOS-3: RANDOMIZED PHASE III STUDY OF COPANLISIB PLUS RITUXIMAB VS RITUXIMAB/PLACEBO IN RELAPSED INDOLENT NON-HODGKIN LYMPHOMA

Topic: 18. Indolent and mantle-cell non-Hodgkin lymphoma - Clinical

Keywords: Indolent non-Hodgkin's lymphoma Phase III PI3K Rituximab

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Background: Rituximab (R)-based therapies are standard for patients (pts) with relapsed advanced indolent non-Hodgkin lymphoma (iNHL). Copanlisib (C) is a PI3K inhibitor approved as monotherapy for relapsed follicular lymphoma (FL) in pts who have had ≥ 2 prior systemic therapies.

Aims: We report primary data from the Phase III CHRONOS-3 study of treatment with C+R vs placebo (P)+R in relapsed iNHL (NCT02367040).

Methods: Pts with relapsed iNHL who were progression-free and treatment-free for ≥ 12 months (mo) after last R-

based therapy or unwilling/unfit to receive chemotherapy were randomized 2:1 to receive C+R or P+R. C 60 mg/P was given i.v. on days 1, 8, and 15 (28-day cycle); R 375 mg/m² was given i.v. on days 1, 8, 15, and 22 during cycle 1 and on day 1 of cycles 3, 5, 7, and 9. Primary endpoint: centrally assessed progression-free survival (PFS). Secondary endpoints: objective response rate (ORR), duration of response, complete response rate (CRR), overall survival (OS), and treatment-emergent adverse events (TEAEs). The data cut-off date was August 31, 2020. All pts provided informed consent.

Results: 307 pts were randomized to C+R and 151 to P+R. FL was the most common lymphoma histology subtype (60.0%), followed by marginal zone (MZL, 20.7%), small lymphocytic (SLL, 10.9%), and lymphoplasmacytic/Waldenström macroglobulinemia (LPL/WM, 8.3%). Median age was 63 years (range 28-91). With a median follow-up of 19.2 mo, the primary study endpoint was met: C+R significantly reduced the risk of disease progression/death vs P+R (hazard ratio [HR] 0.52 [95% CI 0.39, 0.69]; 1-sided p=0.000002); median PFS was 21.5 mo (95% CI 17.8, 33.0) vs 13.8 mo (95% CI 10.2, 17.5), respectively. Reductions in risk of progression/death were seen across all histology subtypes (HR [95% CI]): FL 0.580 [0.404, 0.833]; MZL 0.475 [0.245, 0.923]; SLL 0.243 [0.111, 0.530]; LPL/WM 0.443 [0.160, 1.231]. ORRs were 80.8% (CRR 33.9%) for C+R and 47.7% (CRR 14.6%) for P+R. Higher ORRs and CRRs were seen across all iNHL subtypes with C+R treatment. Median OS was not estimable. Most common TEAEs (all grades [G]/G3+) in pts receiving C+R were hyperglycemia (69.4%/56.4%), hypertension (49.2%/39.7% [all G3]), and diarrhea (33.6%/4.9% [all G3]). For pts receiving P+R, hyperglycemia (23.3%/8.2% [all G3]), hypertension (19.2%/8.9% [all G3]), neutropenia (16.4%/12.3%), and upper respiratory tract infection (16.4%/0%) were the most common TEAEs. Serious adverse events were higher with C+R (47.2%) vs P+R (18.5%). G5 TEAEs occurred in 6 pts (2.0%) receiving C+R (1 [0.3%] deemed treatment-related; pneumonitis) and 1 (0.7%) receiving P+R.

Summary/Conclusion: C+R demonstrated broad and superior efficacy vs P+R in pts with relapsed iNHL. The safety profile of C+R was manageable and consistent with C and R as monotherapy. Copanlisib is the first PI3K inhibitor to be safely combined with R in relapsed iNHL, representing a potential new therapy option for relapsed iNHL across all subtypes.

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