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POSTER ABSTRACTS

623.MANTLE CELL, FOLLICULAR, AND OTHER INDOLENT B CELL LYMPHOMAS: CLINICAL AND EPIDEMIOLOGICAL

Acalabrutinib with Rituximab As First-Line Therapy for Older Patients with Mantle Cell Lymphoma - a Phase II Clinical Trial

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Introduction - Previously, our group reported results from ibrutinib with rituximab in older mantle cell lymphoma (MCL) patients (pts) with an atrial fibrillation rate of 22%. To develop a chemotherapy-free combination for elderly MCL pts, we designed this phase II clinical trial to investigate the efficacy and safety of acalabrutinib with rituximab (AR) as a first line approach in MCL pts (\geq 65 yrs).

Methods - We enrolled 50 previously untreated pts in this single institution, single arm, phase II clinical trial - NCT05214183. Pts received acalabrutinib 100 mg orally twice a day and intravenous rituximab, weekly for first 4 weeks, followed by once a month for 12 months and subsequently once every 2 months totaling 24 months. Acalabrutinib was continued. The primary objective was to assess best overall response rate (ORR) rate after AR. Responses were assessed as per Lugano response criteria. Clonoseq based minimal residual disease (MRD) assessment was performed. Adverse events were coded as per CTCAE version 5. Genomic studies are ongoing.

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Results - Among 50 pts, the median age was 69 years (range: 65-81). Male/female were 36 and 14 respectively. Bone marrow was positive for MCL in 45/50 (90%) and GI tract in 35/47 (74%) pts. Forty-six pts had classic morphology while three were blastoid and one was pleomorphic. Ki-67% was available in 42 pts - 13/42 (31%) had high Ki-67% and 29/42 (69%) had a low Ki-67% (< 30%). Simplified MIPI risk stratification included: low (n=4), intermediate (n=35) and high risk (n=11). TP53 aberration status (mutations or deletion) was available in 43/50 pts and 12 pts had aberrant TP53 while 31/43 did not have aberrant TP53. Thirty-nine pts had baseline next generation sequencing (NGS) on tumor tissue biopsy and 25/39 (64%) had \geq 3 mutations.

Median number of AR cycles was 12 (range: 3-24). One pt was not evaluable for response at 12 weeks. Overall, the best response was 94% ORR and 90% CR, 4% PR; 6% were non-responders. Median number of cycles to get complete metabolic response was 3 (range 2-7). Fourteen pts were MRD negative at last follow-up of the 28 evaluable pts.

With a median follow up of 17 months, the median PFS and OS were not reached (2 year 92% and 96% respectively). The median PFS and OS was not reached and not significantly different in pts with high and low Ki-67% or with/without *TP53* aberrations or among pts with low, medium or high-risk categories. Nine pts (18%) came off study - 3 for adverse events (syncope, atrial fibrillation, intolerance), 3 for disease progression, one melanoma recurrence, one pt choice and one with an unusual monocytosis. Overall, 2 pts died (1 on trial with primary progression).

The most common all-grade toxicities were fatigue (82%), myalgia (64%), headache (38%), bruising (28%) and <1% were grade 3 or higher. Among 50 pts, 1 pt had recurrence of grade 2 atrial fibrillation (2%) and one pt had recurrence of grade 3 unstable angina.

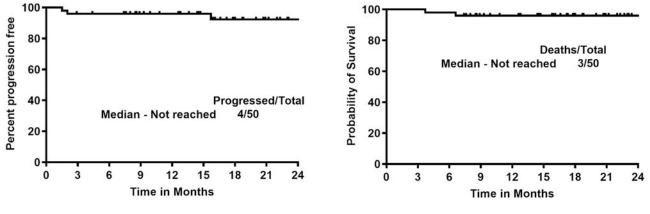
Conclusions -Chemotherapy-free frontline therapy with AR is highly effective and safe and induced early CR in older pts with MCL.

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