Managing the practicalities of CAR T-cell therapies in patients with R/R MCL:

Current considerations and future strategies

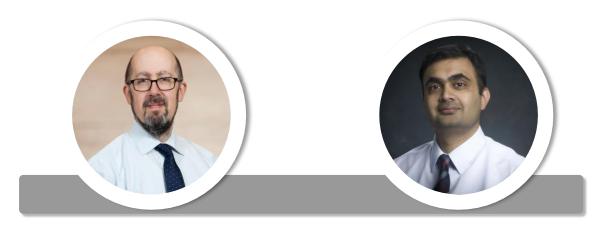


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A conversation between:



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Agenda

Exploring current treatment strategies for R/R MCL and the role of CAR T-cell therapy

Unravelling the practicalities of CAR T-cell therapies for MCL in the clinic: Focus on toxicities and salvage strategies

Future considerations for optimizing the use of CAR T-cell therapies in patients with MCL



Exploring current treatment strategies for R/R MCL and the role of CAR T-cell therapy

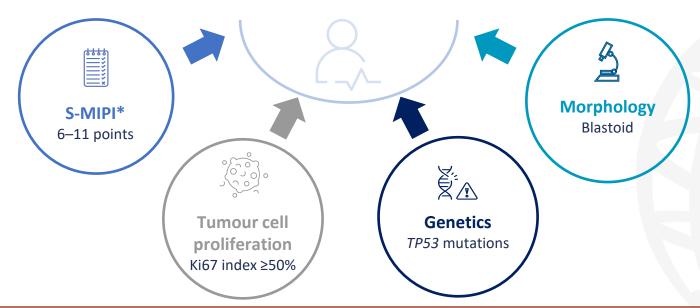
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High-risk baseline factors indicating poor prognosis in R/R MCL

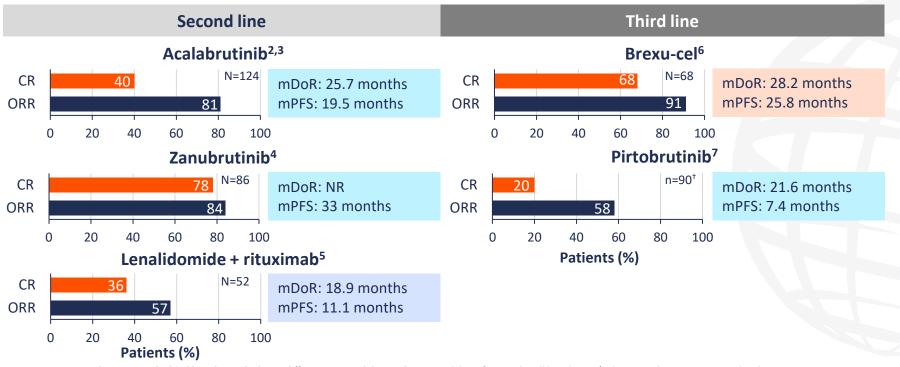


- A pooled analysis of patients with R/R MCL treated with ibrutinib monotherapy in the second line found that ~1 in 3 patients have ≥1 poor prognostic feature at baseline
 - At follow-up, these patients have an ORR of ~55% and a median PFS of ~6 months



^{*}S-MIPI is based on a sum of scores for age, ECOG PS, LDH and white cell count.
ECOG PS, Eastern Cooperative Oncology Group performance status; LDH, lactate dehydrogenase; ORR, overall response rate; PFS, progression-free survival; R/R MCL, relapsed or refractory mantle cell lymphoma; S-MIPI, Simplified Mantle Cell Lymphoma International Prognostic Index.
Kumar A, et al. Am Soc Clin Oncol Educ Book. 2022:42:614–28.

Efficacy of NCCN-preferred agents for R/R MCL*1



Direct comparisons between trials should not be made due to differences in trial design. *NCCN guidelines for mantle cell lymphoma. †Sub-group who were pretreated with cBTKi. Brexu-cel, brexucabtagene autoleucel; cBTKi, covalent Bruton tyrosine kinase inhibitor; CR, complete response; DoR, duration of response; m, median; mo, months; NCCN, National Comprehensive Cancer Network; NR, not reached; ORR, overall response rate; PFS, progression-free survival; R/R MCL, relapsed or refractory mantle cell lymphoma. 1. NCCN. B-Cell lymphomas. V6.2023. Available at: www.nccn.org/guidelines/category 1 (accessed 17 November 2023); 2. Wang M, et al. *Lancet*. 2018;391:659–67;

3. Wang M, et al. *Blood*. 2018;132(Suppl. 1):2876; 4. Song Y, et al. *Blood*. 2022;139:3148–58; 5. Wang M, et al. *Lancet Oncol*. 2012;13:716–23;

6. Wang M, et al. J Clin Oncol. 2023;41:555-67; 7. Wang ML, et al. J Clin Oncol. 2023;41:3988-97.



Unravelling the practicalities of CAR T-cell therapies for MCL in the clinic: Focus on toxicities and salvage strategies

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*Toxicities associated with CAR T-cell therapy and recognized risk factors for them

Specialist centre

Coordination of care

Community care



Short-term toxicities^{1,2}

Risk factors

CRS

- Increased CAR T-cell expansion
- High tumour burden

Neurotoxicity

- Severity of CRS
- Disease burden
- Baseline inflammation
- Neurologic comorbidities

Hematologic

- Severity of CRS/ICANS
- High disease burden
- Low baseline blood counts

Longer-term toxicities²



- Prolonged cytopenia
- Infections
- Secondary malignancies

Patient monitoring is critical for the early recognition of potential toxicities and timely intervention

CAR, chimeric antigen receptor; CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity syndrome.

1. Thompson JA, et al. J Natl Compr Canc Netw. 2022;20:387–405;

2. Shaikh S, Shaikh H. 2023. Available at: www.ncbi.nlm.nih.gov/books/NBK592426/ (accessed 17 November 2023).



Future considerations for optimizing the use of CAR T-cell therapies in patients with MCL

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Operational considerations for CAR T-cell therapy



- Potential for severe AEs

- Production of patient-specific CAR T-cell therapy
- Transportation





- Waiting lists
- Limited capacity
- Lack of inpatient beds

