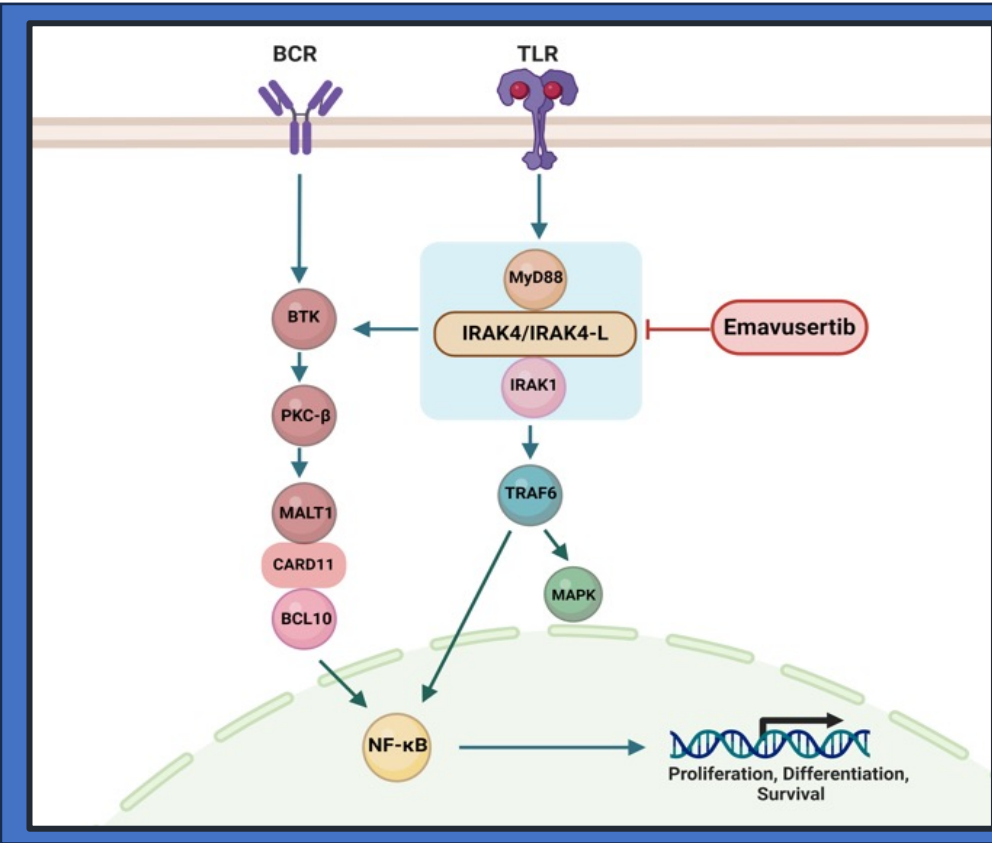


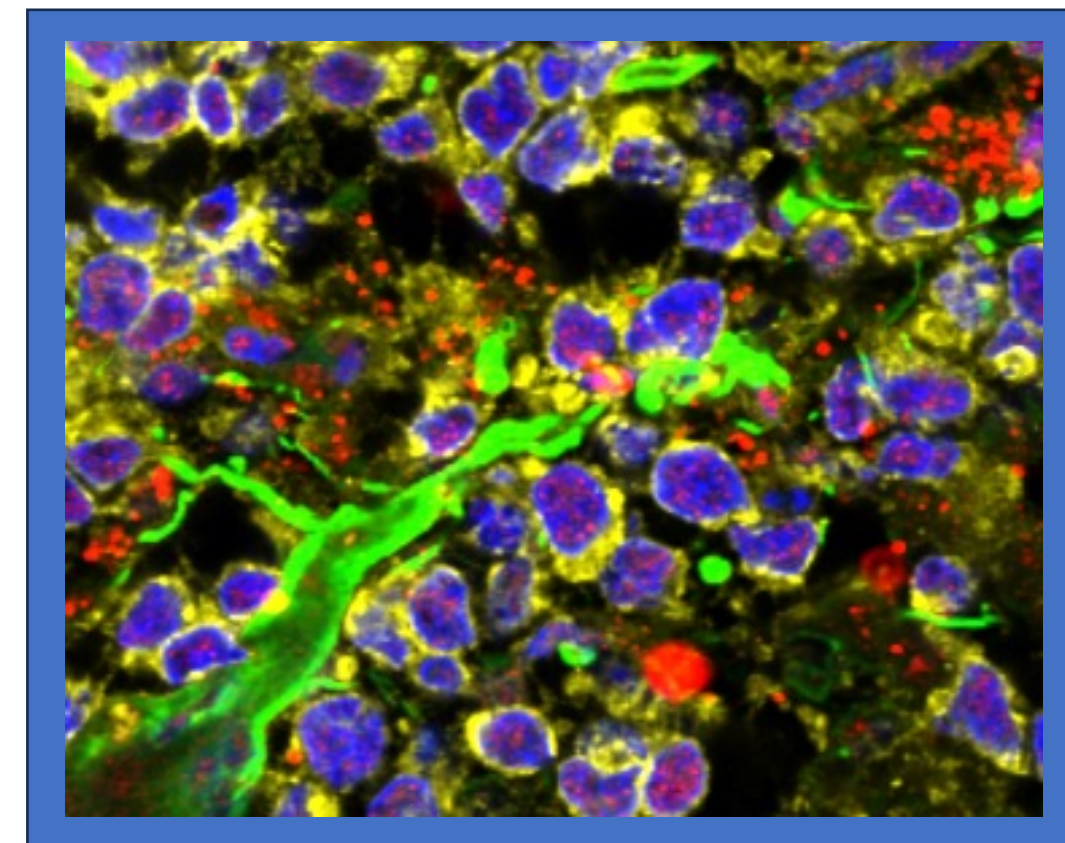
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## BACKGROUND



**Figure 1.** BCR and TLR Pathways independently drive NF-κB overactivity in B-cell lymphoma



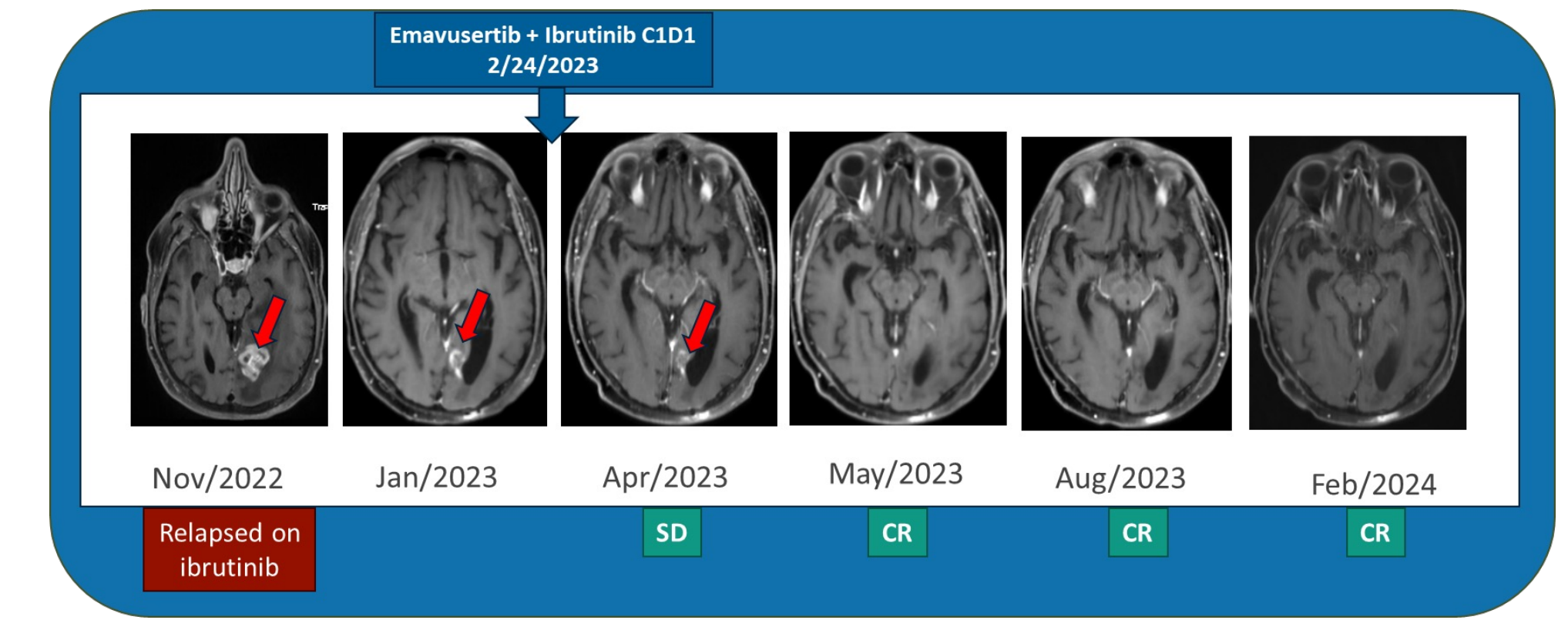
**Figure 2.** Human PCNSL express high levels of IRAK4: Section of a brain tumor biopsy from a PCNSL patient showing immune infiltration (CD45 yellow) characterized by high phosphor IRAK-4 expression (red), interspersed with tumor reactive astrocytes (green) (1).

## CASE PRESENTATION

### Case study

- 53-year-old male PCNSL patient whose disease progressed following two prior lines of treatment, including ibrutinib.
- Patient enrolled in the TakeAim lymphoma study, receiving emavusertib (100 mg BID) in combination with ibrutinib (560 mg QD) in a 21-day cycle.
- At baseline, the patient presented one target lesion (13x12mm size). After cycle 2, the patient presented stable disease. By the end of cycle 4, the target lesion was absent (patient achieved CR).
- Emavusertib dose was interrupted for seven days due to grade 4 lipase increase, then resumed at the same dose level after resolution.
- Patient is ongoing and has maintained CR > 1yr without the use of steroids.

## CASE STUDY EFFICACY



**Figure 3.** Axial Magnetic Resonance images (MRI) showing pre-treatment and post-treatment PCNSL brain images from one R/R PCNSL patient. After two cycles of emavusertib+ ibrutinib, the patient showed stable disease (SD). Complete responses (CR) with absent lesions have been seen after cycle 4.

## CONCLUSIONS AND CLINICAL SIGNIFICANCE

- Emavusertib in combination with ibrutinib continues to show promising efficacy, including complete responses, along with a manageable and acceptable safety profile, in heavily pretreated patients, including BTKi-naïve and BTKi-experienced patients.
- Here we describe a case of a patient who, after receiving emavusertib in combination with ibrutinib for 2.7 months, achieved CR. Further, there is no clinical evidence of disease progression 13 months after initial treatment.
- Consistent with our previous findings, these data support the hypothesis that emavusertib can re-sensitize patients to BTKi therapy, marking a significant advancement in R/R PCNSL treatment.
- The trial continues to enroll with the addition of 17 sites in seven countries.

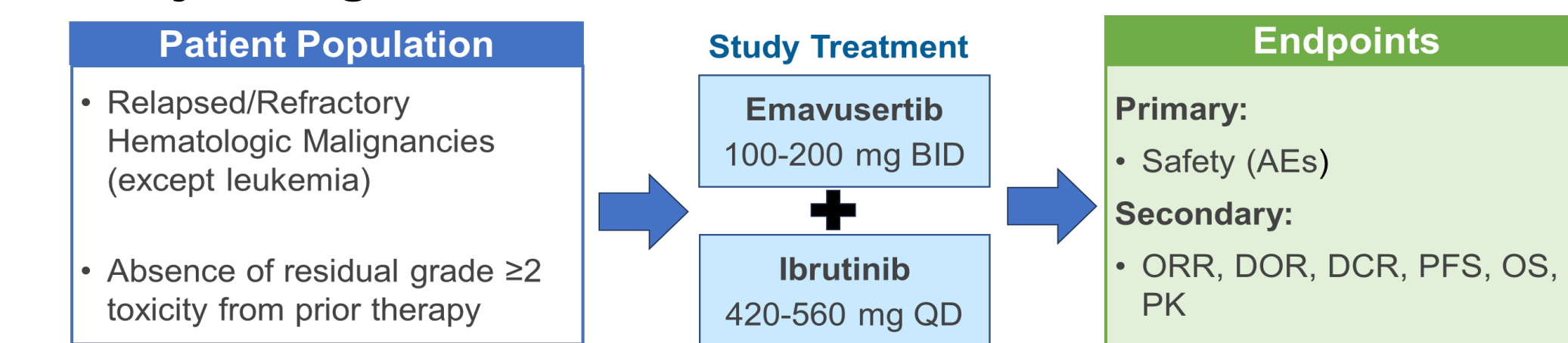
## SAFETY PROFILE

Grade 3+ Treatment-Related Adverse Event Occurred in >1 Patient	100 mg BID+IBR	200 mg BID+IBR	300 mg BID+IBR	Total
<b>N (%)</b>	<b>(N=2)</b>	<b>(N=10)</b>	<b>(N=7)</b>	<b>(N=19)</b>
# patients having grade 3+ TRAEs	1 (50)	7 (70)	6 (86)	14 (74)
Platelet count decreased		2 (20)	1 (14)	3 (16)
Alanine aminotransferase increased		1 (10)	1 (14)	2 (11)
Aspartate aminotransferase increased		1 (10)	1 (14)	2 (11)
Fatigue		1 (10)	1 (14)	2 (11)
Hyponatraemia		2 (20)		2 (11)
Lipase increased	1 (50)	1 (10)		2 (11)

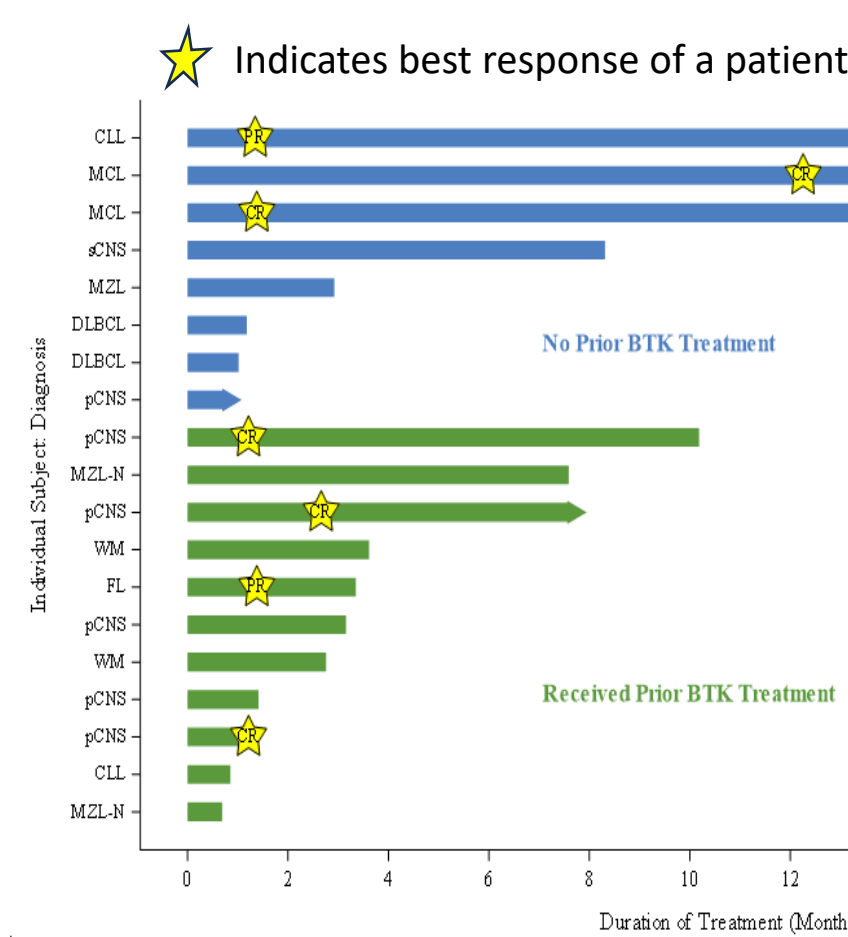
**Abbreviations**  
Primary Central Nervous System Lymphoma (PCNSL), Non-Hodgkin Lymphomas (NHL), Toll Like Receptor (TLR), Blood-Brain Barrier (BBB), Once a day (QD), Two times a day (BID), IBR Ibrutinib, Complete Response (CR), Stable Disease (SD), Bruton's Tyrosine Kinase inhibitor (BTKi).

## RESULTS

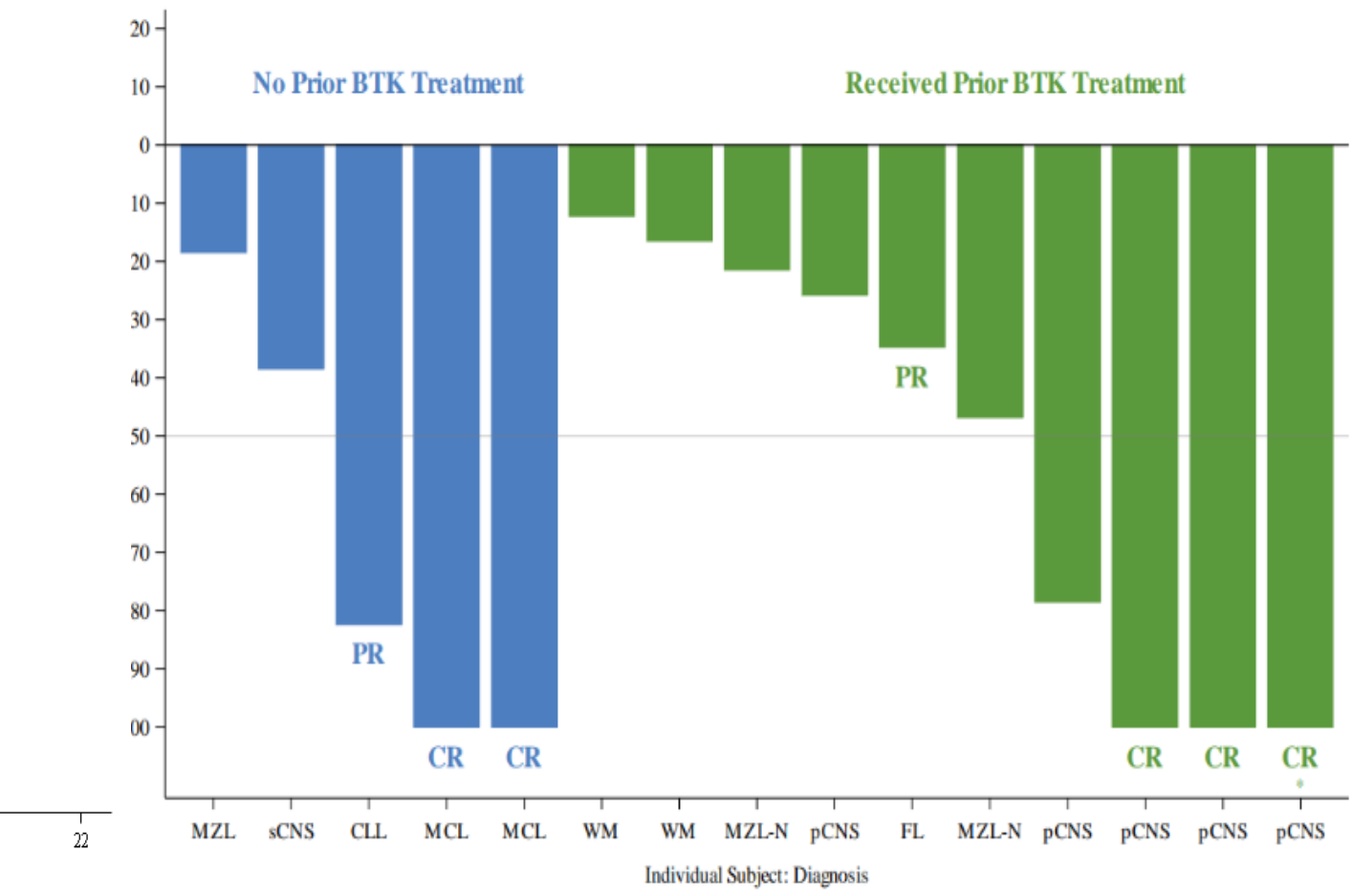
### Study Design TakeAim-Lymphoma (NCT03328078)- Part A2: Dose escalation of emavusertib in combination with ibrutinib



### Duration of treatment



### Best percent change in tumor burden



- From 19 treated patients, 11 patients had received prior BTKi treatment and showed promising anti-cancer activity with 5 CRs.
- Median treatment duration was 96 days (range 21-613 days), suggesting acceptable safety and tolerability.
- Majority of patients had decreases in tumor burden or stable disease over time.
- The preliminary efficacy data of 16 evaluable patients in combination with ibrutinib showed 5 CR (2 MCL, 3 PCNSL).

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