Positive Quality Intervention: Zanubrutinib (Brukinsa®) Patient Selection and Management in Mantle Cell Lymphoma

**Description:** The purpose of this PQI is to identify differentiating characteristics which would indicate zanubrutinib as a preferred treatment option in Mantle Cell Lymphoma as well as discussing key counseling and monitoring criteria to improve patient outcomes.

**Background:** Zanubrutinib is a potent, highly specific, and irreversible inhibitor of Bruton’s tyrosine kinase (BTK). Zanubrutinib received FDA breakthrough therapy designation for the treatment of adult patients with MCL following at least one prior therapy on November 14, 2019 based on data from a phase I and a phase II trial. Since that time, zanubrutinib has gained approval in marginal zone lymphoma (MZL), and Waldenström macroglobulinemia (WM). It is still an investigational treatment for B-cell malignancies including chronic lymphocytic leukemia (CLL).

Zanubrutinib has shown greater selectivity for BTK with fewer off-target receptor interactions compared to the currently approved agents in the class. Potential side effects seen with BTK inhibitors are likely related to off-target interaction with other receptors including epidermal growth factor receptor (EGFR) and interleukin-2-inducible T-cell kinase (ITK). A phase I/II trial evaluated zanubrutinib 160 mg twice daily or 320 mg once daily in 144 patients with various B-cell malignancies. Safety analysis in these patients showed a less than 2% incidence of both Atrial fibrillation (Afib) and major hemorrhage which are potential grade 3/4 adverse effects seen with other BTK inhibitors.

**PQI Process:** Upon receipt of an order for zanubrutinib:
- Ensure patient is appropriate candidate for zanubrutinib based on indication
  - Patient comorbidities may make zanubrutinib a safer option (ex. history of Afib, recent hemorrhage, hypertension, concomitant PPI or H2R antagonists)
- Dose of zanubrutinib is either 160 mg twice daily or 320 mg once daily based on patient preference/ability to adhere to twice daily medication
- Reduce zanubrutinib dose accordingly if co-administered with:
  - Strong CYP3A inhibitor – 80 mg once daily
  - Moderate CYP3A inhibitor – 80 mg twice daily
  - Moderate or strong CPY3A inducer – avoid concomitant use
- Reduce zanubrutinib dose to 80 mg twice daily in patients with severe hepatic impairment (Child-Pugh Class C)
- Consider prophylaxis for herpes simplex virus, *Pneumocystis jirovecii* pneumonia, and other infections according to standard of care in patients at increased risk for infections
  - ≥Grade 3 infections occurred in 23% of patients with pneumonia being the most common
- Verify monitoring parameters:
  - CBC with differential, hepatic function
  - Signs/symptoms of Afib/flutter, bleeding, or infections including opportunistic infections

**Important notice:** NCODA has developed this Positive Quality Intervention platform. This platform represents a brief summary of medication uses and therapy options derived from information provided by the drug manufacturer and other resources. This platform is intended as an educational aid and does not provide individual medical advice and does not substitute for the advice of a qualified healthcare professional. This platform does not cover all existing information related to the possible uses, directions, doses, precautions, warning, interactions, adverse effects, or risks associated with the medication discussed in the platform and is not intended as a substitute for the advice of a qualified healthcare professional. The materials contained in this platform are for informational purposes only and do not constitute or imply endorsement, recommendation, or favoring of this medication by NCODA, which assumes no liability for and does not ensure the accuracy of the information presented. NCODA does not make any representations with respect to the medications whatsoever, and any and all decisions, with respect to such medications, are at the sole risk of the individual consuming the medication. All decisions related to taking this medication should be made with the guidance and under the direction of a qualified healthcare professional.
Patient Centered Activities:

- Provide Oral Chemotherapy Education (OCE) sheet
- Counsel to administer orally
  - Review once a day vs. twice a day dosing
- Proper sign/symptom monitoring
- Evaluate if patients have missed any doses between cycles to determine if interventions are needed such as reminders, calendars, pill box, etc
- See full prescribing information for dose modifications with Grade 3 or worse adverse effects

References:


Supplemental Information:
myBeiGene Patient Support Program

Patient Assistance Program Co-pay/Co-insurance Assistance:

- Co-pay as low as $0/prescription for commercially insured patients
- Bridge supply for insurance coverage delays
- Free product for uninsured and underinsured patients
- Dedicated Oncology Nurse Advocates for practices, patients and caregivers
- Patient and caregiver follow-up support
- Connecting patients and caregivers with advocacy groups and local/national free resources
- Enroll online or by calling myBeiGene at 1-833-234-4363

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