



### Policy Type: PA/SP

### Pharmacy Coverage Policy: EOCCO172

### Description

Zanubrutinib (Brukinsa) is an orally administered Bruton's Tyrosine Kinase (BTK) inhibitor.

### Length of Authorization

- Initial: Six months (first three months split fill)
- Renewal: 12 months

### **Quantity Limits**

| Product Name               | Indication   | Dosage Form   | Quantity Limit           |
|----------------------------|--|---------------|--------------------------|
| zanubrutinib<br>(Brukinsa) | Mantle cell lymphoma in adults who have<br>received at least one prior therapy<br>Relapsed or refractory follicular<br>lymphoma (FL), in combination with<br>obinutuzumab, after two or more lines of<br>systemic therapy<br>Waldenström's macroglobulinemia in<br>adults<br>Chronic lymphocytic leukemia or small<br>lymphocytic lymphoma in adults<br>Relapsed or refractory marginal zone<br>lymphoma in adults who have received at<br>least one anti-CD20-based regimen | 80 mg capsule | 120 capsules/<br>30 days |

### **Initial Evaluation**

- I. **Zanubrutinib (Brukinsa)** may be considered medically necessary when the following criteria below are met:
  - A. Member is 18 years of age or older; AND
  - B. Medication is prescribed by, or in consultation with, an oncologist, or hematologist; AND
  - C. Member has not previously progressed on a BTK inhibitor [e.g., ibrutinib (Imbruvica), acalabrutinib (Calquence)]; **AND**
  - D. A diagnosis of one of the following:
    - 1. Waldenström's Macroglobulinemia (WM); AND
      - i. Medication will not be used in combination with any other oncolytic medication; **AND**
      - ii. Member has received one prior therapy [e.g., chemotherapy, rituximab (Rituxan)]; **OR**





- iii. Provider attestation that member is not a candidate for standard immunochemotherapy based on documented risk factors or comorbidities;
  OR
- 2. Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma (CLL/SLL); AND
  - i. Medication will not be used in combination with any other oncolytic medication; **AND**
  - ii. Medication is used in previously untreated CLL/SLL; AND
    - a. The member does not have a del17p mutation; OR
  - iii. Medication is used in the relapsed/refractory CLL/SLL; AND
    - a. Member has received one prior therapy [e.g., chemotherapy, venetoclax (Venclexta), obinutuzumab (Gazyva)]; **OR**
- 3. Relapsed/Refractory Follicular Lymphoma (FL); AND
  - i. Medication will be used in combination with obinutuzumab (Gazyva); AND
  - ii. Disease has progressed following two or more FL chemotherapy regimens that have included an anti-C20 monoclonal antibody (i.e., rituximab) and an alkylating agent (i.e., bendamustine, cyclophosphamide, chlorambucil)
- II. Zanubrutinib (Brukinsa) is considered <u>investigational</u> when used for all other conditions, including but <u>not limited to</u>:
  - A. Previously untreated Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma in patients with a del17p mutation
  - B. Diffuse Large B-cell Lymphoma (DLBCL)
  - C. Hairy Cell Leukemia (HCL)
  - D. Graft-versus Host Disease (GvHD)
  - E. Marginal Zone Lymphoma (MZL)
  - F. Indolent Non-Hodgkin Lymphoma (iNHL)
  - G. MCL monotherapy
  - H. MCL first-line therapy
  - I. MCL combination therapy
  - J. Richter's Transformation

#### **Renewal Evaluation**

- I. Member has received a previous prior authorization approval for this agent through this health plan or has been established on therapy from a previous health plan; **AND**
- II. Member is not continuing therapy based off being established on therapy through samples, manufacturer coupons, or otherwise. Initial policy criteria must be met for the member to qualify for renewal evaluation through this health plan; **AND**
- III. Member has exhibited improvement or stability of disease symptoms (e.g., no signs of disease progression); AND





- IV. A diagnosis of one of the following:
  - Waldenström's Macroglobulinemia (WM) or Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma (CLL/SLL); AND
    - i. Medication will be used as monotherapy
  - Relapsed/ Refractory Follicular Lymphoma (FL); AND
    - i. Medication will be used in combination with obinutuzumab (Gazyva)

### **Supporting Evidence**

- l. <u>WM:</u>
  - A. Zanubrutinib (Brukinsa) is FDA-approved for WM based on the non-comparative assessment of DOR from zanubrutinib (Brukinsa) treatment arms and was granted Fast Track and Orphan Drug designation.
  - B. Zanubrutinib (Brukinsa) was studied in one Phase 1/2 open-label, dose expansion, singlearm trial of B-cell malignancies (BGB-3111-AU-003) in 77 WM patients and one head-tohead trial against ibrutinib (ASPEN). ASPEN was a Phase 3, randomized, active control, open-label trial which enrolled 137 relapsed/refractory (RR) and 37 treatment naïve WM adult patients. Median number of previously tried therapies included 1 (range: 1-8) and majority (90%) were refractory to anti-CD20 therapies (rituximab, ofatumumab), alkylating agents (88%) (cyclophosphamide, chlorambucil, bendamustine), and glucocorticoids (72%). Treatment naïve patients consisted of those unsuitable for standard immunochemotherapy based on presence of comorbidities or risk factors precluding its use (e.g., age, cardiac, renal, infection comorbidities). Median patient age was 70 years of age. The trial excluded patients with previous exposure to BTK inhibitor therapy and those with WM central nervous system involvement. The primary endpoint of proportion of patients achieving very good partial response (VGPR) or CR was not reached. The trial efficacy analysis used hierarchical sequence; thus, all secondary endpoints were considered exploratory. Secondary endpoint of median PFS was not estimable, but 18-month PFS was 85% for zanubrutinib (Brukinsa) and 84% for ibrutinib. Median OS was not estimable at the time of analysis, but 18-month OS was 97% for zanubrutinib (Brukinsa) and 93% for ibrutinib.
  - C. Zanubrutinib (Brukinsa) had lower rates of atrial fibrillation (2% vs 15%), hypertension (11% vs 16%), minor bleeding (48.5% vs 59.2%), major hemorrhage (5.9% vs 9.2%), and diarrhea (20.8% vs 31.6%) compared to ibrutinib, respectively. The rate of neutropenia was 29.7% and 13.3% for zanubrutinib (Brukinsa) and ibrutinib, respectively.
  - NCCN guidelines recommend the following preferred therapies for the treatment of primary, and previously treated, WM: bendamustine/rituximab, bortezomib/dexamethasone/rituximab, ibrutinib ± rituximab (category 1), rituximab/cyclophosphamide/dexamethasone, and zanubrutinib (Brukinsa) (category 1).
- II. CLL/SLL:





- A. Efficacy and safety of zanubrutinib (Brukinsa) in treatment naïve CLL/SLL without a del17p mutation is established based on one Phase 3, open-label, randomized, active-controlled (cohort 1) trial (SEQUOIA). Enrolled patients (N=590) had untreated CLL/SLL, were ≥65 years of age or  $\geq$ 18 years of age with comorbidities and were considered unsuitable for fludarabine-cyclophosphamide-rituximab treatment (defined as 65 years or older, a Cumulative Illness Rating Scale [CIRS] score of more than 6, creatinine clearance less than 70 mL/min, or history of severe or frequent infections). Patients in cohort 1 were without del17p mutation and were randomized 1:1 to zanubrutinib (Brukinsa) 160mg BID or bendamustine and rituximab (BR). Patients in cohort 2 (single-arm, open label portion of trial) had del17p mutation and underwent treatment with zanubrutinib (Brukinsa) by itself. As of December 2022, results are available for a median follow-up of 26.2 months. Median PFS and OS were not reached in any treatment group. Estimated PFS at 24 months was statistically superior for zanubrutinib (Brukinsa) as compared to BR (85.5% vs 69.5%) p<0.001. In cohort 1, the difference in PFS between the treatment groups was not significant among patients with mutated IGHV, small subgroup of patients with SLL, and those with pathogenic TP53 mutation. Estimated OS at 24 months did not reach statistical significance between groups, (94.3% vs 94.6%) p=0.87. The estimated PFS at 24 months for cohort 2 was 88.9%. Efficacy in patients with del17p mutation (cohort 2) remain undefined as results are considered observational due to lack of comparator arm. Grade 3 serious adverse events occurred more frequently in patients treated with BR those treated with zanubrutinib (Brukinsa) (31% vs 20%). Incidence of Grade 3 neutropenia was higher with BR than zanubrutinib (Brukinsa) (22% vs 5%). Grade 1-2 bleeding and cardiac adverse events occurred more frequently with zanubrutinib (Brukinsa) than with BR (41% vs 9%) and (10% vs 6%), respectively. Several patients who reported major bleeding adverse events were treated with anticoagulants which may confound this safety data. Rates of cardiac arrhythmias with zanubrutinib (Brukinsa) in this study were consistent with those observed in other large, randomized studies of second-generation BTK inhibitors, including zanubrutinib (Brukinsa) and acalabrutinib (Calquence), in B-cell malignancies.
- B. Zanubrutinib (Brukinsa) was studied in one phase 1/2 open-label, dose expansion, single-arm trial of B-cell malignancies (BGB-3111-AU-003) in 101 patients with treatment relapsed/refractory CLL or SLL; one phase 2, open-label, single-arm trial (BGB-3111-205) in 91 Chinese patients with relapsed/refractory CLL or SLL; and one phase 3, randomized, open-label, head-to-head study against ibrutinib (ALPINE). The ALPINE study included 652 adult patients with relapsed/refractory CLL or SLL who have tried ≥1 prior systemic therapy consisting of ≥2 cycles of treatment. The median age was 67 years (range, 35 to 90), 73% had unmutated immunoglobulin heavy-chain variable region (IGHV) status, and 23% had a chromosome 17p deletion, TP53 mutation, or both. The median number of previous lines of therapy was 1 (range, 1 to 12). The percentage of patients with an overall response (ORR), as assessed by the independent review committee were higher in the zanubrutinib





(Brukinsa) group than in the ibrutinib group (86.2% vs 75.7%). At 24 months, the percentage of patients with progression-free survival, as assessed by the investigators, was 78.4% (95% CI, 73.3 to 82.7) in the zanubrutinib (Brukinsa) group and 65.9% (95% CI, 60.1 to 71.1) in the ibrutinib group. Median progression-free survival was not reached in the zanubrutinib (Brukinsa) group and was 34.2 months (95% CI, 33.3 to not estimable) in the ibrutinib group. Results were consistent in the high-risk population of patients with 17p deletion, TP53 mutation, or both. The percentages of patients who were alive without disease progression at 24 months in the high-risk population were 72.6% (95% CI, 60.3 to 81.7) in the zanubrutinib (Brukinsa) group and 54.6 (95% CI, 40.7 to 66.4) in the ibrutinib group. As of the data-cutoff date in the final analysis, fewer deaths had been reported in the zanubrutinib (Brukinsa) group than in the ibrutinib group (48 and 60). Overall survival was not different in the two groups (hazard ratio for death 0.76; 95% CI, 0.51 to 1.11); longer follow-up is warranted to determine any differences between the treatments with respect to overall survival. The median overall survival had not been reached in either treatment group. Safety profile was comparable between the two treatment arms except, zanubrutinib (Brukinsa) had a higher incidence of Grade ≥3 adverse events compared to ibrutinib: neutropenia (16% vs 13.9%) and hypertension (14.8% vs 11.1%). There was a lower incidence of Grade  $\geq$ 3 atrial fibrillation/flutter (1.9% vs 3.7%), serious events leading to treatment discontinuation (15.4% vs 22.2%) and events leading to death (10.2% vs 11.1%) in zanubrutinib (Brukinsa) vs ibrutinib treatment groups.

### III. Relapsed/refractory Follicular Lymphoma (FL)

- A. Follicular lymphoma (FL) is the second most common non-Hodgkin lymphoma (NHL). It is a slow-growing B-cell lymphoproliferative disorder, with survival calculated in years rather than months. Prognosis is variable with some patients having waxing and waning disease that can last five or more years without therapy in a watch phase. Others with more disseminated disease and/or rapid tumor growth, require treatment before massive nodal and organ enlargement leads to pain, lymphatic obstruction or organ dysfunction.
- B. Long term survival can vary, but the five-year survival rate is about 90%, with 76-83% still living 10 years after diagnosis. Those that require a first line intervention have a high likelihood of a complete response; however, therapy is not curative and most patients will ultimately develop progressive disease. Patients relapsing over 24 months after initial chemotherapy, or over 12 months after single-agent rituximab, will have a clinically indolent course requiring intermittent treatment over decades and survival rates that mirror the general population. Modern therapy results in serial complete or partial remissions with treatment focusing on the alleviation of symptoms, reversal of cytopenias, and improvement of quality of life. Allogeneic hematopoietic cell transplantation (HCT) should be considered for all patients with relapsed FL; however, while curative of FL, this poses risks in itself such as graft versus host disease (GVHD) and survival rates are similar to patients who respond well to first line therapy. With each relapse, a histology should be





rechecked as progression to a more aggressive lymphoma, such as diffuse large B cell lymphoma (DLBCL), requires a different treatment paradigm.

- C. Initial therapy for high tumor burden includes chemotherapy regimens such as CHOP or R-CHOP [cyclophosphamide, doxorubicin, vincristine, prednisone +/- obinutuzumab or rituximab], lenalidomide (Revlimid) plus rituximab, or bendamustine plus obinutuzumab or rituximab. Second-line therapy includes the same as first line recommendations, unless there is past bendamustine use, where that arm should not be retried. Additionally, second line treatment options include obinutuzumab monotherapy and lenalidomide (Revlimid) monotherapy or in combination with obinutuzumab. Patients may choose to stay on a long-term agent post first-line or second-line targeted therapy as well, which includes rituximab maintenance, obinutuzumab maintenance, or tazemetostat, or they may cease therapy to watch phase. Patients' refractory to two or more systemic therapies that have included an anti-CD20 monoclonal antibody (i.e., rituximab) and an alkylating agent (i.e., bendamustine, cyclophosphamide, chlorambucil), have the option of third line therapy. Third line includes bispecific antibody therapy, chimeric antigen receptor (CAR) T-cell therapy, tazemetostat, or zanubrutinib (Brukinsa) plus obinutuzumab. Most patients with more aggressive FL that experience serial relapses will be treated with many available agents at some point during their disease course covering multiple mechanisms of action. While relapsed FL is typically sensitive to additional therapy, the depth and duration of remission generally becomes shorter with each subsequent therapy.
- D. The efficacy of zanubrutinib (Brukinsa) plus obinutuzumab (Gazyva) for relapsed/refractory FL is from the Phase II trial, ROSEWOOD, an open-label, randomized, international study. Beginning in 2017, a total of 217 adult patients with a diagnosis of FL with failures of two or more systemic therapies for FL, including an anti-CD20 antibody and an alkylator-based combination therapy, with disease progression after completion of the most recent therapy or were refractory to therapy enrolled. Patients were randomized 2:1 for zanubrutinib (Brukinsa) 160mg twice daily plus intravenous (IV) obinutuzumab (Gazyva) [ZO, n=145] or monotherapy IV obinutuzumab (Gazyva) [O, n=72]. The primary endpoint read at the specified data cutoff timeline of 3 years and 11 months was overall response rate (ORR) done by PET-CT assessment. Secondary endpoints were tracked up to seven years and included duration of response (DOR), progression free survival (PFS), overall survival (OS), and time to next treatment (TTNT).
- E. At the primary analysis readout, ORR was significantly higher with ZO versus O, 69% to 46% with a risk difference of 23% (95% CI: 9,37; *p*=0.001). The ORR in the ZO arm was driven by both complete response and partial response with 39% and 30% respectively, while the ORR in the O arm was driven by partial response at 26% versus complete response at 19%. Secondary endpoints of DOR, TTNT, OS have not been fully realized due to sustained response with the ZO arm. For example, median TTNT in the ZO arm was not estimated as not all patients had required a next therapy, first reported TTNT was at 33.4 months versus





the median TTNT in the O arm was 12.2 (8.5 to 17.3) months. Similarly, OS was also not estimable for the ZO arm as all patients were living versus some OS data in the O arm at 29.3 months and greater. Progression free survival also was not estimable in the combination arm of ZO reported as 28.0 months (16.1 to NE) with monotherapy O being 10.4months (6.5 to 13.8); HR of 0.50 (0.33 to 0.75) *p<0.001*.

F. While ORR and PFS are surrogate endpoints in oncology, the use of TTNT lifts the confidence in this data. Follicular lymphoma (FL) is a non-curable disease with survival measured in years; the intent of treatment is to keep patients in remission and prevent disease progression. The combination therapy of ZO was able to achieve a higher ORR driven by the number of patients with complete response to therapy versus monotherapy O; as well as prolong the timeline for the TTNT by 21 months on average. Moreover, the data from PFS and OS was also in favor of the combination arm.

#### Investigational or Not Medically Necessary Uses

- I. The following indications do not have sufficient evidence to support the use of zanubrutinib (Brukinsa) at this time:
  - A. Previously untreated Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma in patients with a del17p mutation
    - The safety and efficacy in patients with del17p mutation was studied in cohort 2 (Group C) of the SEQUOIA trial. Estimated PFS at 24 months was 88.9% (95% CI: 81.3-93.6). Estimated OS at 24 months was 93.6% (95% CI: 87.1-96.9). Due to the open label, single-arm trial design with respect to the cohort 2 population, safety and efficacy remains observational and is undetermined at this time.
  - B. Diffuse Large B-cell Lymphoma (DLBCL)
  - C. Hairy Cell Leukemia (HCL)
  - D. Graft-versus Host Disease (GvHD)
  - E. Marginal Zone Lymphoma (MZL)
    - For the treatment of MZL, zanubrutinib (Brukinsa) is FDA-approved under the accelerated approval pathway based on ORR and DOR. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials. Finalized data have not been published on these trials at this time.
    - Zanubrutinib (Brukinsa) was studied in one Phase 1/2 open-label, dose expansion, single-arm trial of B-cell malignancies including 20 previously treated MZL patients (BGB-3111-AU-003) and one Phase 2, open-label, multicenter, single-arm trial of 68 previously treated patients with MZL who had received at least 1 prior anti-CD20-based regimen (MAGNOLIA). MAGNOLIA study included patients with a median age of 70 years (range: 37 to 85), 38% had extranodal MZL, 38% nodal, 18% splenic and 6% had unknown subtype. The median number of prior systemic





therapies was 2 (range: 1 to 6), with 88% of patients having prior rituximab-based chemotherapy, 32% had refractory disease at study entry. ORR was reached in 45 (68.2%) patients while DOR was not reached at the time of data analysis. Twelve-month DOR, PFS, and OS was as 93.0%, 82.5%, and 95.3%, respectively.

- 3. The most common adverse events were similar to adverse events seen in clinical trials studying other cancer types and included diarrhea, contusion, constipation, pyrexia, and upper respiratory tract infections. Serious adverse events occurred in 38.2% of patients and included COVID-19 pneumonia, pyrexia, and fall. Four patients discontinued treatment due to adverse events and 29.4% of patients had dose interruption due to adverse events.
- 4. Treatment of MZL with zanubrutinib (Brukinsa) remains experimental and investigational. The quality of evidence is considered low due to observational nature of clinical trials (single-arm, open-label study designs) with unknown clinical impact on the overall survival rate, health-related quality of life, or symptom improvement in treated patients. Confirmatory trials are needed to definitively establish benefit and value of this agent in MZL.
- 5. NCCN guidelines recommend anti-CD20 based regimens as preferred therapies in second-line and subsequent setting as well as CHOP (cyclophosphamide, doxorubicin, vincristine, prednisone) ibrutinib, lenalidomide + rituximab, and zanubrutinib with a Category 2A recommendation. Other recommend regimens additionally umbralisib and PI3K inhibitors in patients relapsed/refractory after 2 prior therapies.
- F. Indolent Non-Hodgkin Lymphoma (iNHL)
- G. MCL monotherapy
  - For the treatment of MCL, zanubrutinib (Brukinsa) was FDA-approved under the accelerated approval pathway based on overall response rate (ORR). Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials; however, finalized data has not been published on these trials at this time.
  - 2. Zanubrutinib (Brukinsa) was studied in one open-label, single-arm, Phase 2 trial (BGB-3111-206), and one Phase 1/2 safety and pharmacokinetic trial (BGB-3111-AU-003) in 118 patients with MCL who had progressed on prior systemic therapy. The primary efficacy outcome was ORR which was 84% in both trials. Secondary efficacy outcomes were complete response (CR), partial response (PR), and duration of response (DOR). The percentage of patients with a CR was 59% and 22% for the Phase 2 trial and Phase 1/2 trial, respectively. The percentage of patients with a PR was 24% and 62% for the Phase 2 trial and Phase 1/2 trial, respectively. Median DOR in months was 19.5 and 18.5 for the Phase 2 trial and





Phase 1/2 trial, respectively. Progression-free survival was evaluated in the Phase 2 trial and found 74.6% of patients at 12 months were progression-free.

- 3. Treatment of MCL with zanubrutinib (Brukinsa) remains experimental and investigational. The quality of evidence is considered low due to observational nature of clinical trial (single-arm, open-label study design) with unknown clinical impact on the overall survival rate, health-related quality of life, or symptom improvement in treated patients. Confirmatory trials are needed to definitively establish benefit and value of this agent in MCL.
- H. MCL first-line therapy
- I. MCL combination therapy
- J. Richter's Transformation

#### References

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### **Related Policies**

Policies listed below may be related to the current policy. Related policies are identified based on similar indications, similar mechanisms of action, and/or if a drug in this policy is also referenced in the related policy.

| Policy Name  | Disease state                      |  |  |
|--|------------------------------------|--|--|
| lenalidomide (Revlimid <sup>®</sup> ); pomalidomide            | Follicular Lymphoma                |  |  |
| (Pomalyst <sup>®</sup> ); thalidomide (Thalomid <sup>®</sup> ) | , ,                                |  |  |
| tazemetostat (Tazverik™)                                       |                                    |  |  |
| ibrutinib (IMBRUVICA®)   | Waldenström Macroglobulinemia      |  |  |
| ibrutinib (IMBRUVICA®)   |                                    |  |  |
| idelalisib (Zydelig <sup>®</sup> )                             |                                    |  |  |
| pirtobrutinib (Jaypirca™)                                      | Chronic Lymphocytic Leukemia/Small |  |  |
| venetoclax (Venclexta®)  | Lymphocytic Lymphoma (CLL/SLL)     |  |  |
| duvelisib (Copiktra®)  |                                    |  |  |
| acalabrutinib (Calquence <sup>®</sup> )                        |                                    |  |  |

#### **Policy Implementation/Update:**

| Action and Summary of Changes  | Date    |
|--|---------|
| Addition of related policies table. Addition of coverage for follicular lymphoma.  | 12/2024 |
| Removed criterion requiring use of other BTKi before Brukinsa in relapsed/refractory CLL/SLL. Added previously untreated CLL/SLL indication and associated criteria. Added previously untreated CLL/SLL with del17p mutation as E/I. Changed the length of initial approval from three to six months. Updated supporting evidence section. | 12/2022 |
| Removed initial criteria and moved MCL indication to experimental or not medically necessary uses section.   | 01/2022 |
| Added initial criteria for non-FDA approved indication of CLL/SLL and updated supporting evidence. Added Richter's Transformation in the E/I section.  | 12/2021 |
| Added expanded indication of Waldenström's macroglobulinemia (WM) in the initial evaluation criteria.<br>Updated supporting evidence section to include clinical trial information for WM. Added supporting<br>evidence for the expanded indication of marginal zone lymphoma (MZL) in investigational uses section.                       | 11/2021 |
| Policy created   | 02/2020 |