

Navigate Real-World Treatment Decisions in Chronic Lymphocytic Leukemia (CLL)

A Case-Based Approach

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Jacob and his clinician are considering 2nd-line therapy options for CLL. Here's how they managed his treatment.



JACOB

Male

Current age: 71 years

Occupation: teacher (retired)



Medical History

Hypertension controlled with lisinopril

CLL Diagnosis: Year 0

Primary care visit

Routine bloodwork: lymphocytosis

- 6500 lymphocytes/ μ L

Physical examination: asymptomatic, unremarkable

CLL confirmed with flow cytometry

Prognostic workup

- IGHV molecular assay: negative for mutation
- FISH: unremarkable

Normal hemoglobin and platelet levels



After discussion with his oncologist, a watch-and-wait approach was taken.

Symptom Progression: Year 9

- Increasing fatigue
- Bulky lymphadenopathy
- Increasing lymphocytosis: 22,500 lymphocytes/ μ L
- New anemia: hemoglobin 7.5 g/dL
- Unremarkable cytogenetics and IGHV



Based on his 2-hour commute to appointments and preference for an all-oral therapy, Jacob and his clinician decided that the covalent BTKi ibrutinib would be a better treatment approach for him than a combined oral BCL-2i and anti-CD20 mAb infusion approach.³



With ibrutinib, Jacob experienced:

- Resolution of his anemia and lymphadenopathy
- Initial presentation of a treatment-associated rash that quickly resolved
- Increase of his lisinopril dose
- Occasional headaches and diarrhea

Disease Progression on Treatment: Year 16

- Severe fatigue
- Bulky lymphadenopathy
- Increasing lymphocytosis: 44,000 lymphocytes/ μ L
- Worsening anemia: hemoglobin 7.0 g/dL
- New cytopenia: 15×10^8 /L
- New del(11q) mutation



Based on his progression on a covalent BTKi, another covalent BTKi was not a viable option for Jacob.⁴⁻⁶ He and his oncologist discussed both non-covalent BTKi and BCL-2i/anti-CD20 mAb options, deciding to use the all-oral, non-covalent BTKi pirtobrutinib for 2nd-line treatment.

Key Point

Determine need for initial treatment and treatment of disease relapse by using iwCLL guidelines¹

Key Point

After initiating treatment, evaluate for response and monitor for AEs. Patients should remain on treatment until progression or intolerance indicate a change or the completion of a fixed-duration regimen²

Key Point

Perform molecular/genetic testing at time of treatment initiation and again at progression to inform disease prognosis and individualized treatment options²