

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

A Case-Based Approach

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Jacob and his oncologist are considering therapy options for CLL. Here's how they managed his treatment.



JACOB

Male
Current age: 71 years
Occupation: teacher (retired)
Commutes 2 hours for appointments



Medical History

Hypertension controlled with medication

CLL Diagnosis: Year 0

Primary care visit

Physical examination: asymptomatic, unremarkable

Routine bloodwork:

- Lymphocytosis: 6500 lymphocytes/ μ L
- Normal hemoglobin and platelet levels

CLL confirmed with flow cytometry

Prognostic workup:

- Unmutated IGHV
- FISH: unremarkable



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

Symptom Progression: Years 5-6

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



First-Line Treatment Options

- Covalent BTKi
- BCL-2i and anti-CD20 mAb

Given Jacob's preference for an all-oral treatment regimen, he and his oncologist selected a covalent BTKi as a more suitable treatment option³



With the covalent BTKi, Jacob experienced:

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

Disease Progression on Treatment: Year 12

- Severe fatigue
- Bulky lymphadenopathy
- Increasing lymphocytosis: 44,000 lymphocytes/ μ L
- Worsening anemia: hemoglobin 7.0 g/dL
- New cytopenia: $15 \times 10^9/L$
- New del(11q) mutation



Second-Line Treatment Options

- Non-covalent BTKi
- BCL-2i and anti-CD20 mAb

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 options and selected an all-oral, non-covalent BTKi for 2nd-line treatment.

Key Point

Determine need for initial treatment and treatment of disease relapse per iwCLL guideline criteria¹

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 regimen³

Key Point

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

