

Identifying Disease Progression Versus Treatment Intolerance in CLL

In CLL, **disease progression** and **treatment intolerance** are the primary reasons for treatment discontinuation but may be challenging to differentiate as they could present with similar symptoms (eg, cytopenia).¹⁻⁴



When assessing **treatment response** and **PD**, **physical examination** and evaluation of **blood and bone marrow** should be performed^{4,5}



Timing of response assessment^{4,5}

- Fixed-duration therapies: at least **2 months** after completing therapy
- Continuous therapies: at least **2 months** after **maximum response**

Assessment of CLL **disease progression** or **treatment intolerance**

PD during or after therapy is characterized by at least one of the parameters below⁴

1. Lymphadenopathy⁴

Increase $\geq 50\%$ from BL or from response

- Transient increases during treatment can occur with novel agents and may not be PD



2. Hepatomegaly/splenomegaly⁴

Increase $\geq 50\%$ from BL or from response

- Hepatomegaly must be attributable to lymphoid involvement to count as PD



3. Constitutional symptoms^{2,4,6}

Any (eg, unexplained weight loss, fatigue, recurrent fever, drenching night sweats)

- ▶ Some can also be an AE of CLL therapies



4. Cytopenia^{4,*}

Decrease in platelet count of $\geq 50\%$ from BL, or in hemoglobin of ≥ 2 g/dL from BL^{*}

- ▶ Can be an AE of many CLL therapies



5. Lymphocytosis⁴

Increase $\geq 50\%$ over BL[†]

- ▶ Can be an AE of certain therapies



6. Marrow infiltration⁴

Increase of CLL cells by $\geq 50\%$ on successive biopsies



Treatment Sequencing Considerations for **PD** and **Intolerance**

- If a patient experiences **intolerance**, it may be possible to try a different agent from the **same drug class**^{7,8}
- In contrast, when **disease progression** occurs, a therapy with a **new MOA** is recommended^{7,8,11}

| Treatment | Outcome | Subsequent therapy |
|-----------|--------------------------|--|
| cBTKi | Intolerance [‡] | Alternative cBTKi or ncBTKi [§] |
| cBTKi | Progression | BCL-2i or ncBTKi [§] |

Differentiating between **disease progression** and **treatment intolerance** is essential to ensure patients maximize adherence to therapy and overall treatment journey to optimize outcomes, as each has distinct implications for subsequent therapy selection.^{3,7,8}

^{*}Secondary to CLL. To define PD, cytopenia cannot be attributable to AIC and must progress at least 3 months after treatment.⁴ [†]A temporary increase in lymphocyte count can also be associated with certain therapies so lymphocytosis alone may not be a sign of treatment failure or PD.⁴ [‡]Intolerance with active disease. [§]Noncovalent BTKi therapy is indicated after at least two prior lines of therapy, including a BTKi and a BCL-2i.⁹ ^{||}If disease progression occurs during a treatment-free interval after completion of fixed-duration therapy (eg, BCL-2i), a re-challenge with the same MOA is an option.⁷

AE, adverse event; AIC, autoimmune cytopenia; BCL-2i, B-cell lymphoma 2 inhibitor; BL, baseline; BTKi, Bruton's tyrosine kinase inhibitor; cBTKi, covalent Bruton's tyrosine kinase inhibitor; CLL, chronic lymphocytic leukemia; MOA, mechanism of action; ncBTKi, noncovalent Bruton's tyrosine kinase inhibitor; PD, progressive disease.

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