Chronic Lymphocytic Leukemia

Epidemiology



CLL represents ≈1.1% of all new cancer cases in the US1

Each year, 4.7 new cases develop among every 100,000 people1



In 2019, there were an estimated 200,766 people living with CLL in the US1

5-year relative survival for patients with CLL has steadily increased over time^{1,2}



1975 65.1%



2012-2018 87.9%

Initial Diagnosis

CLL is often asymptomatic at initial presentation3

B symptoms: ≈5-10% of cases³



Unexplained fevers (>100.5)



Unintentional weight loss



Drenching night sweats

Additional symptoms3:



Early satiety



Extreme fatigue



Lymphadenopathy



Splenomegaly



Hepatomegaly



Cutaneous manifestations

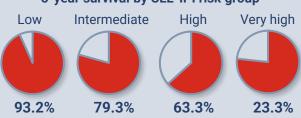
Disease Staging and Prognostic Biomarkers

Rai and Binet staging systems

Although widely used in clinical practice, the Rai and Binet classifications are not sufficient to determine if the patient will present with rapidly progressive or indolent disease. Currently, genetic, epigenetic, and molecular markers are the focus of attention in prognostication of CLL4

The CLL-IPI combines genetic, biochemical, and clinical parameters into a prognostic model with 4 subgroups^{2,5}

5-year survival by CLL-IPI risk group



Genetic marker ^{6,7}	Frequency in CLL patients ⁶⁻⁸	Importance ^{6,7}
Altered TP53	80 % with del(17p)	Associated with aggressive disease and poor response to CIT
Del(13q)	55%	Favorable prognosis
Unmutated IGHV	Nearly 40%	Aggressive disease
Trisomy 12	16%	Intermediate risk
Del(17p)	1 in 10	Associated with aggressive disease and poor response to CIT
Del(11q)	1 in 5	Progressive disease

Treatment Considerations

Diagnosis9

First-line therapy options9

R/R therapy options^{9,10}

- Many patients are asymptomatic at diagnosis when observation is the standard of care
- Consider surveillance when discussing treatment options
- Therapy is often necessary once disease is symptomatic Prognostic modeling with the CLL-IPI, along with consideration comorbidities, and patient preference, may guide treatment options
- Therapy options for R/R CLL are based on the patient's response to previous line(s) of therapy, including timing of progression, tolerance to prior therapy, and patient goals
- Repeat testing of del17p/TP53 may also help guide later lines of therapy

CIT, chemoimmunotherapy; CLL-IPI, International Prognostic Index for Chronic Lymphocytic Leukemia; R/R, relapsed or refractory.

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