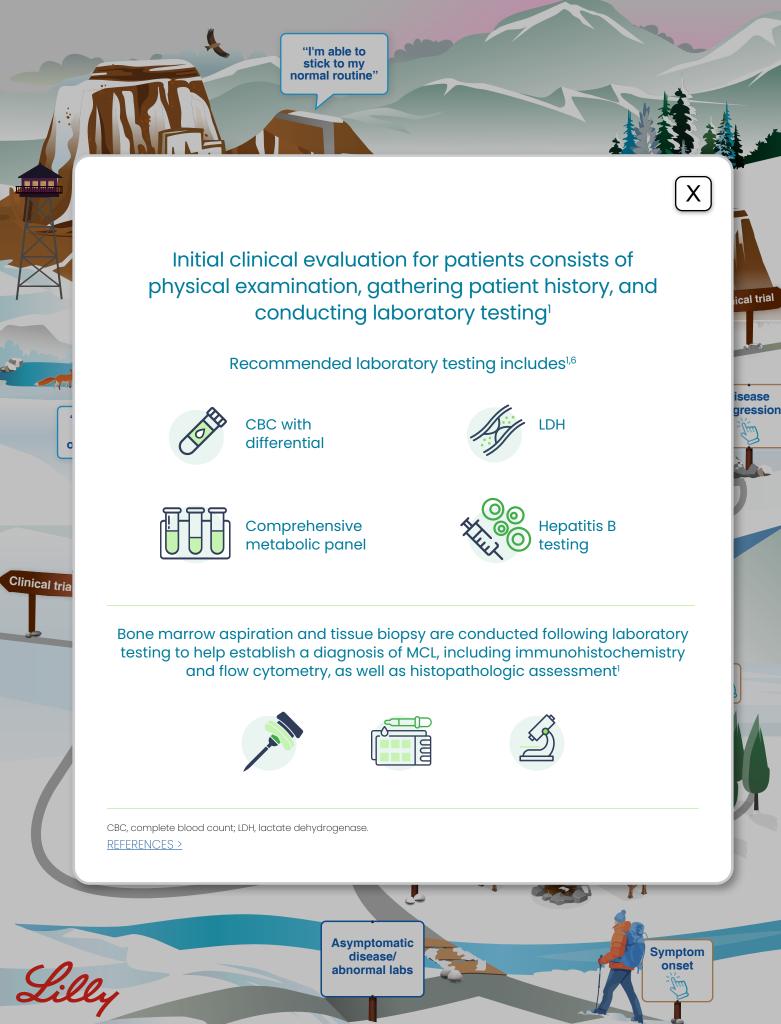
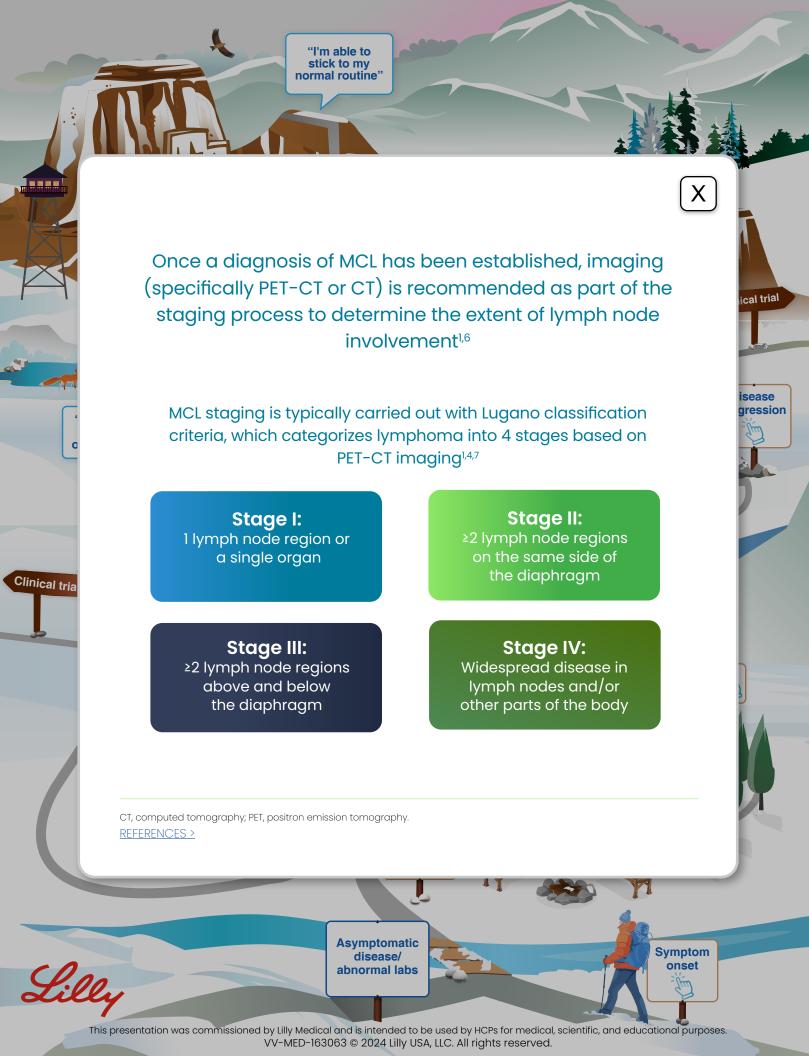




Symptom

onset









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The MCL International Prognostic Index (MIPI) is one tool used to characterize disease prognosis for patients with MCL3,8,9

- ✓ MIPI uses factors such as age, ECOG PS, LDH levels, and WBC count to determine a patient's overall survival prognosis
- MIPI scores used in conjunction with the Ki-67 index can also determine a cumulative prognostic index (biological MIPI)

Additionally, prognosis can be determined when the following factors are considered³

- Histological subtype
- Ki-67 positivity
- SOX-11 status
- Complex karyotype
- Somatic mutations (IGHV, TP53, ATM, NOTCHI/2)
 - TP53 mutation confers a highrisk, poor-prognostic status, thereby impacting treatment decisions

Genomic and transcriptomic profiling has also helped identify 4 genetic clusters of patients with unique 5-year OS rates¹⁰

Cluster 1

Mutated IGHV, CCND1 mutation, amp(11a), and active BCR signaling

Cluster 2

Del(11q)/ATM mutations and upregulation of NF-kB and DNA repair pathways

Cluster 3

Mutations in SP140, NOTCH1, and NSD2, with downregulation of BCR signaling and MYC targets

Cluster 4

Del(17p)/TP53 mutations, del(13a), del(9p), and active MYC pathway and hyperproliferation signatures



100% 5-year OS rate



56.7%

5-year OS rate



48.7%

5-year OS rate



14.2%

5-year OS rate

amp(11q), amplification 11q; ATM, ataxia-telangiectasia mutated; BCR, B-cell receptor; CCND1, cyclin D1; del(9p), deletion 9p; del(11q), deletion 11g; del(13p), deletion 13p; del(17p), deletion 17p; ECOG PS, Eastern Cooperative Oncology Group performance status; IGHV, immunoglobulin heavy-chain variable; LDH, lactate dehydrogenase; MYC, myelocytomatosis; NF-κB, nuclear factor kappa B; NSD2; nuclear receptor binding SET domain protein 2; OS, overall survival; SOX-11, SRY-box transcription factor 11; SP140, Speckled 140 KDa; TP53, tumor protein p53; WBC, white blood cell.

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The treatment approach to MCL depends on factors including disease stage, transplant eligibility, patient age and fitness, symptom severity, prior treatment history, and other risk factors^{1,14,15}

LOCALIZED DISEASE^{16,17}



Radiotherapy

Clinical

ADVANCED DISEASE¹⁵⁻²⁰



Chemoimmunotherapy



CAR T-cell therapy



Stem cell transplant



Targeted therapy (including BTKi)

Available advanced disease treatment options by line of therapy¹⁴⁻²²

1L

- Chemoimmunotherapy
 ± SCT (<65 years of age)
- Chemoimmunotherapy ± steroid therapy (265 years of age)
- Covalent BTKi + chemoimmunotherapy

2L

BTKi naive

 Covalent BTKi ± chemoimmunotherapy

BTKi refractory

- Chemoimmunotherapy
- Proteasome inhibitor + anti-CD20 antibody

3L+

BTKi refractory

- Noncovalent BTKi
- CAR T-cell therapy

There are limited treatment options for patients who progress after treatment with BTKi²²

lL, first line; 2L, second line; 3L+; third line and beyond; BTKi, Bruton tyrosine kinase inhibitor; CAR, chimeric antigen receptor; CD20, cluster of differentiation 20; SCT, stem cell transplant.

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Each MCL therapy has a unique adverse event profile; however, certain adverse events are common to many treatment types and require timely clinical management and/or prophylaxis



Neutropenia (5%-49%)^{21,23-26,a}



Upper respiratory tract infection/ pneumonia (10%-39%)^{21,24,26,b}



Anemia (12%-46%)^{21,23-26,a}



Diarrhea (19%-39%)^{20,21,23-26,a}



Arthralgia (8%-37%)^{20,21,24,26,c}



Thrombocytopenia (16%-44%)^{20,21,23-26,a}



Fatigue (28%-52%)^{20,21,23,25,26,d}



Nausea (11%-36%)^{20,21,23,25,26,d}

^aRange based on data from patients with MCL treated with immunotherapy, and targeted therapy (proteasome inhibitors and BTK inhibitors).

^bRange based on data from patients with MCL treated with immunotherapy and targeted therapy (BTK inhibitors).

Range based on data from patients with MCL treated with immunotherapy, CAR T-cell therapy, and targeted therapy (BTK inhibitors).

^dRange based on data from patients with MCL treated with immunotherapy, CAR T-cell therapy, and targeted therapy (proteasome inhibitors and BTK inhibitors)

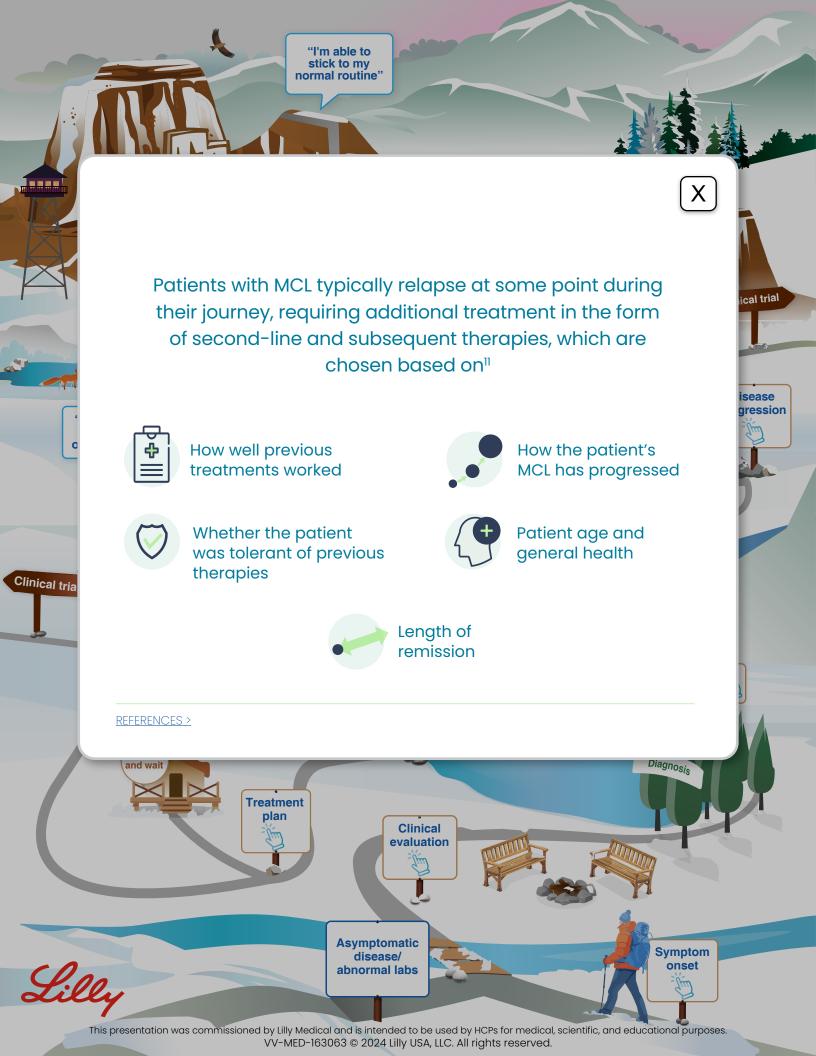
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Clinical trial







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