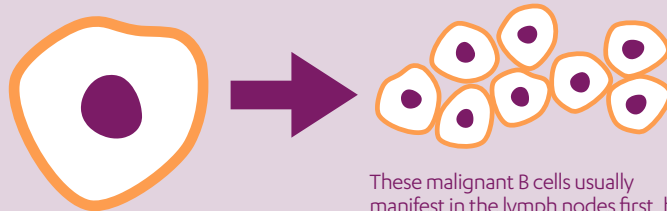


# Mantle Cell Lymphoma (MCL)

A rare and aggressive B-cell malignancy

## What is Mantle Cell Lymphoma?<sup>1,2</sup>

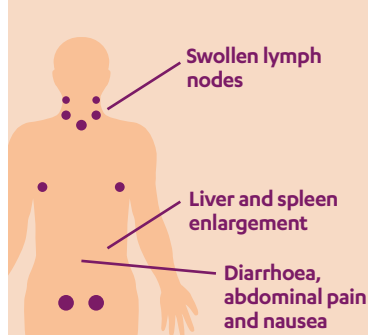
MCL affects the lymphatic system and is an aggressive form of blood cancer which originates from B cells, a type of white blood cell (lymphocyte)



MCL results from a malignant transformation of a B-lymphocyte in the outer edge of a lymph node follicle (the mantle zone)

These malignant B cells usually manifest in the lymph nodes first, but can spread to other parts of the lymphatic system where they build up in large numbers. Malignant B cells can accumulate within the bone marrow, liver, spleen or bowel.

## Signs and symptoms<sup>2,3</sup>



Excessive weight loss



Recurrent fevers, heavy sweating at night



Persistent fatigue

## Prevalence and patients<sup>1,4,5</sup>



MCL is more prevalent in men

65

Median age at diagnosis

3-4 years

Median overall survival rate

## Diagnosis<sup>3</sup>

Unfortunately, due to its ability to grow aggressively and spread quickly, people with MCL are often diagnosed in the later stages of the disease

Diagnosis and staging of MCL may include the following examinations:



Physical examination



Blood and other laboratory tests



Biopsy



Imaging tests (X-rays or CT scans)

## Staging<sup>6</sup>

The following stages are most often used to determine the extent of MCL:



## Treatment<sup>\*7,8,9,10,11,12</sup>

Patients commonly receive multiple treatments over the course of their disease



Chemotherapy



Radiation therapy



Biologic therapy



Stem cell transplant therapy



Targeted non-chemo agents

MCL can be a challenging disease to treat. Many patients will relapse or become resistant to treatment.

MCL treatments have improved in recent years. However, MCL remains a serious and fatal malignancy for which there is a high unmet need for new treatments. Many promising new therapies are currently being investigated.<sup>13</sup>

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## References

- 1 Leukemia and Lymphoma Society. Mantle Cell Lymphoma Facts. Available from: <http://www.lls.org/content/nationalcontent/resourcecenter/freeeducationmaterials/lymphoma/pdf/mantlecelllymphoma.pdf>  
Accessed July 3, 2014.
- 2 Cancer Research UK. What is mantle cell lymphoma. Available from: <http://www.cancerresearchuk.org/cancer-help/type/non-hodgkins-lymphoma/about/types/mantle-cell-lymphoma>.  
Accessed July 3, 2014.
- 3 MacMillan Cancer Support. Mantle cell lymphoma. Available from <http://www.macmillan.org.uk/Cancerinformation/Cancertypes/Lymphomanon-Hodgkin/TypesofNHL/Mantlecell.aspx>  
Accessed July 3, 2014.
- 4 Lenz G, Dreyling M, Hiddemann W. Mantle cell lymphoma: established therapeutic options and future directions. *Ann Hematol* 2004; 83: 71–77.
- 5 Witzig TE. Current treatment approaches for mantle-cell lymphoma. *J Clin Oncol* 2005; 23: 6409–6414.
- 6 National Cancer Institute. Stages of Adult Non-Hodgkin Lymphoma. Available from: <http://www.cancer.gov/cancertopics/pdq/treatment/adult-non-hodgkins/Patient/page2>  
Accessed July 3, 2014.
- 7 American Cancer Society. Chemo – What it is, how it helps. Available from: <http://www.cancer.org/treatment/treatmentsandsideeffects/treatmenttypes/chemotherapy/whatitishowithelps/chemo-what-it-is-questions-about-chemo>  
Accessed July 3, 2014.
- 8 Cancer Research UK. Steroid therapy for non-Hodgkins lymphoma. Available from: <http://www.cancerresearchuk.org/cancer-help/type/non-hodgkins-lymphoma/treatment/steroid-therapy-for-non-hodgkins-lymphoma>  
Accessed: July 3, 2014.
- 9 American Cancer Society. Radiation Therapy – What it is, how it helps. Available from: <http://www.cancer.org/acs/groups/cid/documents/webcontent/003299-pdf.pdf>  
Accessed: July 3, 2014.
- 10 National Cancer Institute. Biological therapy. Available from: <http://www.cancer.gov/cancertopics/treatment/biologcaltherapy>  
Accessed: July 3, 2014.
- 11 American Cancer Society. Stem cell transplant. Available from <http://www.cancer.org/acs/groups/cid/documents/webcontent/003215-pdf.pdf>  
Accessed: July 3, 2014.
- 12 Alinari L, Christian B, Baiocchi R. Novel targeted therapies for mantle cell lymphoma. *Oncotarget* 2012;3:2  
Accessed: July 3, 2014.
- 13 Cancer Research UK. Non-Hodgkin lymphoma: treatment. Available from: <http://www.cancerresearchuk.org/cancer-help/type/non-hodgkins-lymphoma/treatment/types>  
Accessed July 3, 2014