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SIMILAR**Name of Journal:** *World Journal of Clinical Oncology***Manuscript NO:** 58857**Manuscript Type:** Review**Chronic Myeloid Leukemia - From the Philadelphia chromosome to specific target drugs - a literature review**Sampaio MM *et al.* Chronic Myeloid Leukemia a literature review

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Chronic Myeloid Leukemia - From the Philadelphia chromosome to



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Treatment Overview

Therapies Using Medication

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In cancer care, different types of doctors often work together to create a patient's overall treatment plan that combines different types of treatments. This is called a multidisciplinary team. It is important that a hematologist or an oncologist experienced in blood cancers treats a person with CML. A hematologist is a doctor who specializes in treating blood disorders. An oncologist is a doctor who specializes in treating cancer. Cancer care teams include a variety of other health care professionals, such as physician assist...

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## Chronic myelogenous leukemia - Drugs.com

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Overview

Symptoms

Causes

Risk Factors

Diagnosis



Chronic myelogenous leukemia (CML) is an uncommon type of cancer of the bone marrow — the spongy tissue inside bones where blood cells are made. CML causes an increased number of white blood cells in

## Chronic Myeloid Leukemia

Medical Condition

A type of white blood cell cancer that is caused due to an acquired genetic defect.

Rare (Fewer than 200,000 cases per year in US)

Often requires lab test or imaging

Treatment from medical professional advised

Can last several years or be lifelong

Caused because of a spontaneous genetic defect due to a process called chromosomal translocation. Characterized by easy bleeding, weight loss, pale skin, fatigue and night sweats. Treatment involves targeted drugs such as imatinib, stem cell transplant and biological therapy.

### Symptoms

This condition only shows symptoms in the later stages and symptoms vary depending on the stage of CML.



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## Translation of the Philadelphia chromosome into therapy ...

<https://ashpublications.org/blood/article/112/13/...> ▾

Throughout its history, **chronic myeloid leukemia (CML)** has set precedents for cancer research and therapy. These range from the identification of the first **specific** chromosomal abnormality associated with cancer to the development of imatinib as a **specific**, targeted therapy for the disease.

Cited by: 798      Author: Brian J. Druker  
Publish Year: 2008

## Preclinical approaches in chronic myeloid leukemia: from ...

<https://www.sciencedirect.com/science/article/pii/S0301472X16307500>

Mar 01, 2017 - Chronic myeloid leukemia (CML) is a myeloproliferative disorder of hematopoietic stem cell (HSC) origin caused by the **t (9;22) chromosomal translocation**.

Cited by: 12      Author: Cassie J. Clarke, Tessa L. Holyoake  
Publish Year: 2017

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What is chronic myelogenous leukemia (CML)? ▾

Is myeloid leukemia genetic? ▾

Can tyrosine kinase inhibitors cause leukemia? ▾

What is chromosome positive leukemia? ▾

Feedback

## Treatment and monitoring of Philadelphia chromosome ...

<https://jhoonline.biomedcentral.com/articles/10.1186/s13045-019-0729-2> ▾



Apr 23, 2019 - The Philadelphia (Ph) chromosome, resulting from the **t(9;22)(q34;q11)** translocation, can be found in **chronic myeloid leukemia (CML)** as well as in a subset

...

Cited by: 16      Author: Simona Soverini, Renato Bassan,...  
Publish Year: 2019

## Coexistence of recurrent chromosomal abnormalities and the ...

<https://molecularcytogenetics.biomedcentral.com/...> ▾



Aug 19, 2020 - Progression of **chronic myelogenous leukemia (CML)** is frequently

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