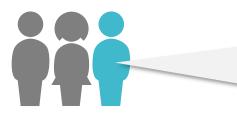
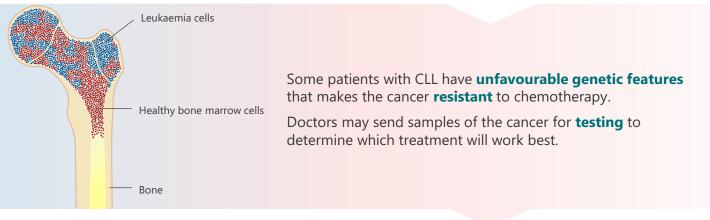


TREATMENTS FOR CHRONIC LYMPHOCYTIC LEUKAEMIA

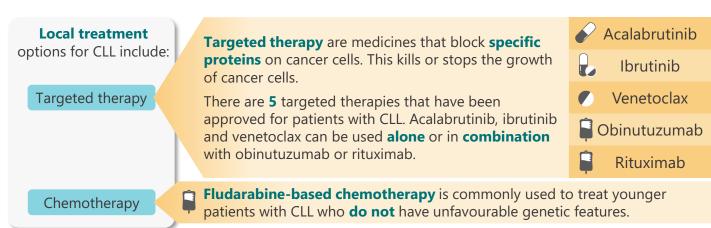


Around **40 people** are diagnosed with chronic lymphocytic leukaemia **(CLL) every year**.¹ It is an uncommon cancer of the white blood cells that usually occurs in older adults. CLL is a long-term (**chronic**) condition that develops **slowly.** Most patients wait until symptoms develop before starting treatment.

Small lymphocytic lymphoma (SLL) is very similar to CLL, except the cancer cells are mainly found in the lymph nodes instead of the blood. SLL and CLL are usually treated in the **same** way.



How is CLL **treated**?



Legend: Capsules Tablets Legend: Capsules



Published studies show that these therapies are **effective** for treating patients with CLL.

They have **different** side effects from each other.

- For newly-diagnosed patients who are suitable for fludarabine-based chemotherapy, ibrutinib plus rituximab is also an effective treatment option but its long-term benefits are uncertain.
 - For newly-diagnosed patients who are unsuitable for chemotherapy, acalabrutinib and ibrutinib, used alone or with obinutuzumab, and venetoclax plus obinutuzumab are effective treatment options in extending the length of time patients can live without their cancer getting worse.
- For patients whose cancer has come back or worsened after previous treatment, acalabrutinib and ibrutinib used alone, and venetoclax plus rituximab are effective treatment options.

ACE reviewed all available clinical evidence and received clinical advice from doctors for each treatment. ACE also negotiated prices with the companies.²

Acalabrutinib, fludarabine-based chemotherapy and venetoclax-based therapies were the best value for money (most cost-effective) for CLL at the prices proposed by the companies.

For **eligible** patients who need acalabrutinib, the company will provide some free capsules to help reduce treatment costs.



Cash or MediSave needed every month after subsidy and MediShield Life for a middle-income patient receiving outpatient treatment at **public** hospitals*:

Fludarabine + rituximab biosimilar (Truxima) + cyclophosphamide	\$50 to \$400 [#]	Subsidised 🗸 MediShield Life: \$1000
Acalabrutinib	\$200 to \$300	Subsidised 🗸 MediShield Life: \$2000
Venetoclax + obinutuzumab	\$500 to \$2,500#	Subsidised 🗸 MediShield Life: \$ 5400
Venetoclax + rituximab biosimilar (Truxima)	\$700 to \$1,500#	Subsidised 🗸 MediShield Life: \$3000
Ibrutinib	\$6,500 to \$7,000	Subsidised × MediShield Life: \$2000
lbrutinib + rituximab	\$6,500 to \$15,500 [#]	Subsidised 🗙 MediShield Life: \$2000
Acalabrutinib + obinutuzumab	\$10,000 to \$15,000#	Subsidised 🗙 MediShield Life: \$2000
lbrutinib + obinutuzumab	\$10,000 to \$15,000 [#]	Subsidised 🗙 MediShield Life: \$2000

Acalabrutinib (used alone), fludarabine-based chemotherapy and venetoclax-based therapies were recommended for government funding³ because they are effective and provide good value for money for treating CLL.



Acalabrutinib plus obinutuzumab, and ibrutinib-based therapies were not recommended for subsidy because their benefits do not justify their costs at the prices offered by the companies. MediShield Life is available to help with some of the cost of these treatments.

Talk to your **doctor** to discuss which treatment is suitable for you. You can also speak to a medical social worker if you need further financial assistance for any of the treatments, or you can reach out to **local patient support groups**⁴ if you want to meet people with similar experiences.

* Expenses will differ according to the amount of medicine that each patient needs and does not include other costs for doctor consultations, medical tests etc. MediSave withdrawal is capped at \$600 per month for these treatments. For Singaporeans who are eligible for subsidy, treatment costs will be subsidised by 40% to 75%. For subsidised drugs, expenses have been calculated using prices proposed by the companies including patient assistance programmes. For non-subsidised drugs, prices at public healthcare institutions at the time of subsidy review were used.

Obinutuzumab and rituximab are given once every 4 weeks, so patients will require one treatment per month for most months and up to 2 treatments per month occasionally.

- . Health Promotion Board National Registry of Diseases Office. Singapore Cancer Registry 50th Anniversary Monograph 1968 to 2017.
- ACE Technology Guidance for Review of cancer drugs for chronic lymphocytic leukaemia. 12 July 2022. Ministry of Health, Singapore. Cancer Drug List. Leukemia & Lymphoma Foundation, Singapore Cancer Society



The Agency for Care Effectiveness (ACE) was established by the Ministry of Health (Singapore) to drive better decision-making in healthcare through health technology assessment (HTA), clinical guidance and education. It publishes guidances on diagnosing, treating, and preventing different medical conditions based on the latest research information available worldwide. This factsheet is not, and should not be regarded as, a substitute for professional or medical advice. Please seek the advice of a qualified healthcare professional about any medical condition. © Agency for Care Effectiveness, Ministry of Health, Republic of Singapore. All rights reserved. Reproduction of this publication in whole or part in any material form is prohibited without the prior written permission of the copyright holder.