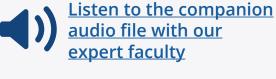


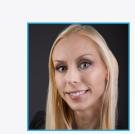
## **Case-Based Discussion**

## **Health Plan Best Practice**

Chronic lymphocytic leukemia (CLL) is a chronic lymphoproliferative disorder (lymphoid neoplasm). It is characterized by a progressive accumulation of functionally incompetent B lymphocytes, which are usually monoclonal in origin.







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CASE INITIAL PRESENTATION

A 65-year-old male presented to his PCP with complaints of fatigue and drenching night sweats. Bone marrow aspiration and biopsy revealed hypocellular marrow with chronic lymphocytic leukemia involving 80-90% of marrow. Flow cytometry revealed monoclonal B-population, CD5 positive, 60% of total cells. PMH: patient takes OTC proton pump inhibitors a few times a week, tension headaches

PE: Enlarged mobile lymph nodes bilaterally (~1.5 cm), no palpable spleen or liver.

#### **Laboratory findings** WBC; 102 X 109/L

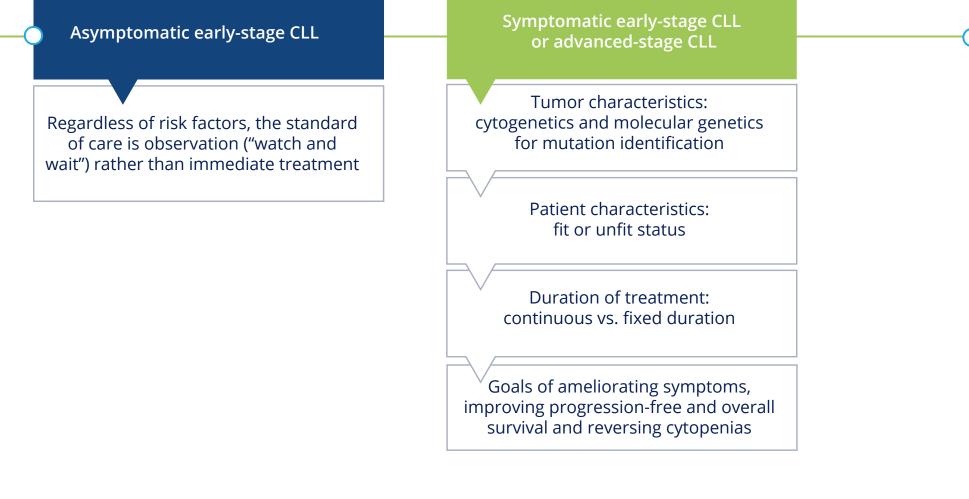
Lymphocytes; 79 X 109/L Hb; 10.4 g/dL Platelets; 180 X 109/L ANC; 1,900/mm3 LDH; 1470 U/L Cytogenetics; del(11q), IgVH-unmutated beta2M; 3.0 mg/L Rai Stage III

## Additional tests are not essential to diagnose CLL but may help predict the prognosis or assess the tumor burden and are

TREATMENT PLAN

recommended before starting treatment. Baseline evaluation of patients with CLL should include molecular cytogenetics (FISH) for del(13g), del(11g), del(17p), add(12) in peripheral blood lymphocytes, TP53 mutation and IGHV mutational status, beta-2microglobulin, and CpG-stimulated metaphase karyotype for complex karyotype (CK).<sup>1,2</sup> In general practice, patients with asymptomatic early-stage disease (Rai Low 0, Binet A), should be monitored without therapy

unless they have evidence of disease progression, threatened end organ function, or significant disease-related symptoms. Patients with intermediate-risk (Rai stages I and II) and high-risk (Rai stages III and IV) disease usually benefit from the initiation of treatment.



### (preferred), zanubrutinib (preferred), or ibrutinib (other recommended regimen), with or without obinutuzumab as category 1 front-line treatment options for CLL.<sup>2</sup>

Current Recommended Treatments in CLL

Anti-CD20 Mechanism of action BTK inhibitor BCL-2 inhibitor monoclonal antibody

The National Comprehensive Cancer Network (NCCN) designates Bruton's tyrosine kinase inhibitors (BTKi), acalabrutinib

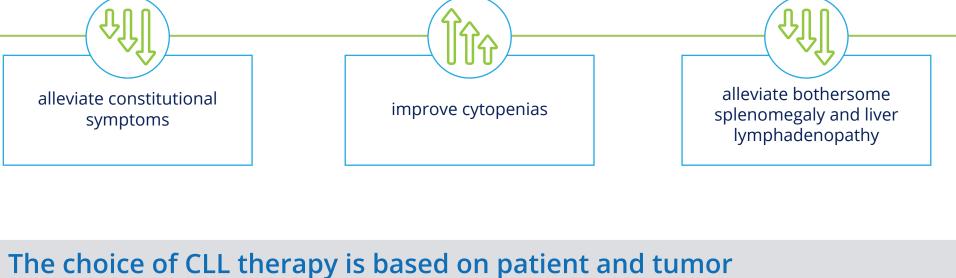
The goals of treatment for patients with CLL are to:

The guidelines also outline various alternative regimens for situations where the disease proves refractory or recurs following

characteristics and goals of therapy

targeted therapy-based regimens as the preferred treatment strategy.

front-line treatment.



## There is no agreed upon standard front-line treatment regimen in CLL and clinical practice varies, therefore treatment pathways and coverage policies should support access to various treatment options.3

CASE EIGHT-MONTH FOLLOW-UP The patient was started on ibrutinib based on need for treatment and high-risk features of deletion 11q as well as an IgVH-

## an EKG shows he has developed atrial fibrillation.

BTKi intolerance

**Intolerance to Treatment** 

response to BTKi treatment, so switching to a second generation BTKi and referral to cardiology is a reasonable approach.

BTK inhibitors have common side effects, including bleeding, hypertension, atrial fibrillation, joint pain, potential skin rash, and diarrhea. Many patients report fatigue, arthralgias or myalgias, and headaches. Second-generation BTK inhibitors have a more

study (zanubrutinib vs. ibrutinib).<sup>5,6</sup> Both trials focused on patients with relapsed or refractory CLL and demonstrated that the

unmutated status. The patient returned to the clinic for a follow-up appointment 8 months after starting ibrutinib. Clinical assessment demonstrated partial remission, but he is complaining of joint pain and recent episodes of lightheadedness and

second-generation BTK inhibitors had significantly fewer side effects compared to ibrutinib. An indirect cross-trial comparison of acalabrutinib versus zanubrutinib indicated that the risk of experiencing grade 3 or more severe adverse events, such as atrial fibrillation, hemorrhage, or events leading to treatment discontinuation, was similar for acalabrutinib and zanubrutinib. Nevertheless, acalabrutinib and zanubrutinib have not been directly compared in a head-to-head fashion.

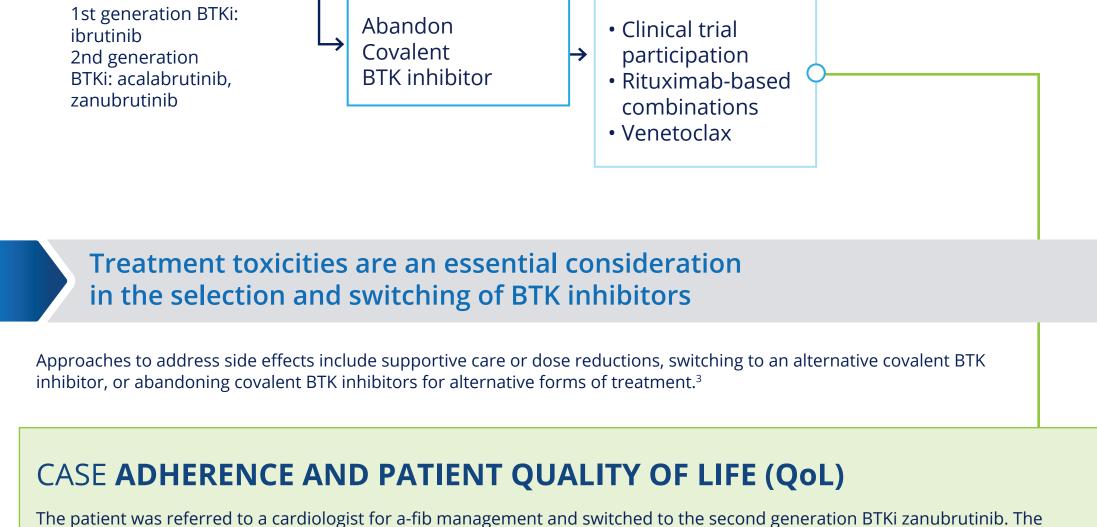
It is not uncommon for CLL patients to switch treatments during their journey with the disease. The patient has demonstrated partial

favorable toxicity profile, not only in terms of cardiovascular effects but also in other aspects, such as diarrhea, muscle pain, and joint pain. Acalabrutinib and zanubrutinib were compared to ibrutinib in the ELEVATE-RR trial (acalabrutinib vs. ibrutinib) and the ALPINE

Suggested Treatment Algorithm in Patients Intolerant of 1st Generation BTK Inhibitor 1st generation Manage Side

2nd generation

**BTKi** 



patient asks about the dosing of zanubrutinib because he does not want to have to go into the hospital for his CLL treatment and

# **Medication Adherence**

**Effects** 

Switch to another

covalent BTK

inhibitor

Do they want time-limited vs

continuous therapy?

Patient, treatment, and health system factors, such as older age, increased medication and comorbidity burden, previous cancer

disease and patient factors in conjunction with a view to sequencing available therapies in event of disease relapse.

therapy, health insurance type, and higher outpatient visits, have been identified as factors influencing adherence to oral therapies for CLL.8 Optimal selection of frontline therapy from multiple effective options may be a challenge for clinicians, who need to consider both

healthcare providers to tailor treatment plans that align with the patient's values, goals, and preferences. This helps ensure that the patient is an active participant in their care and can make choices that best suit their needs. Questions to ask the patient to promote

Patients have the right to make informed decisions about their healthcare. Understanding their treatment preferences allows



developing coverage policies

prefers to have a medication he can take at home.

What are their treatment

preferences?

shared decision making around their CLL treatment may include:

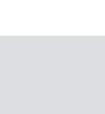






Do they want all oral vs IV

plus oral therapy?



Health insurance type Medication burden Older age, geography

in longer-term adherence and discontinuation since BTKis are to be taken daily unless the patient experiences an adverse event or disease progression, while venetoclax is a fixed-duration treatment given for 12 months as frontline therapy in combination with obinutuzumab. Given the importance of sustained adherence for disease control in CLL, dosing frequency may be an important consideration for patients and physicians. (

Further, in those patients progressing or intolerant to BTKis, venetoclax-based therapy remains highly efficacious. Both BTKis and venetoclax are oral self-administered therapies that may offer convenience for patients. It is important to consider the differences

The BCL-2 inhibitor, venetoclax, has offered patients an alternative to BTKis as a fixed-duration treatment providing durable responses.

High medication adherence is needed to achieve optimal outcomes in CLL.3

Treatment adherence and impact on QoL are key factors when

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