# State-of-the-Art Care in CLL/SLL: Best Practices in an Expanding Therapeutic Landscape

## When to Initiate Treatment for CLL/SLL: iwCLL Guidelines<sup>1</sup>



Prior to initiating treatment, mutational status (ie, *TP53* and *IGHV*), age, and fitness should be assessed along with other relevant clinical criteria

#### Treatment Pathways for CLL/SLL Venetoclax + **First-line Therapy** Chemotherapy **BTKi** obinutuzumab Early Durable Progression Intolerant progression response\* Second-line Therapy Venetoclax + **BTKi or** BTKi Change BTKi and Beyond rituximab venetoclax + (especially to or rituximab between second-(as per previous generation BTKi) Decision-making)

\*Definition of durable response unknown currently. Overall response rate ~70% for patients who have been retreated with venetoclax (16 mo between) in small analysis however these results are limited by selection bias<sup>2</sup>

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## AEs Associated with Treatment Options for CLL/SLL

**Common** AEs that occurred at an incidence ≥30% (BTKi) or ≥20% (venetoclax) **Notable** AEs are unique to either the BTKi or venetoclax and require concerted management



## The Pharmacist's Role in Optimizing CLL Therapy



## **BTK Inhibitors: Dosing Considerations for CLL/SLL**

	Ibrutinib <sup>3</sup>	Acalabrutinib <sup>₄</sup>	Zanubrutinib⁵
ß	Capsules: 70 mg, 140 mg Tablets: 140 mg, 280 mg, 420 mg	100 mg tablets formulation can be coadministered with gastric acid–reducing agents*	180 mg capsules
	420 mg once daily	100 mg orally twice daily	160 mg twice daily
KCI	Take with a high-fat, high-calorie meal	With or without food, avoid high-fat meal	With or without food
Ê	Capsules should be swallowed whole with water Do not cut, crush, or chew tablets	Tablet should be swallowed whole with water	Tablet should be swallowed whole with water
	For missed dose, take as soon as possible on same day and return to normal schedule on next day	For missed dose >3 hr past normal time, skip and resume at next scheduled time	For missed dose, take as soon as possible on same day and return to normal schedule on next day

\*Acalabrutinib exposures were comparable for tablet vs capsule formulations (AUC<sub>inf</sub> 567.8 ng h/mL [36.9] vs 572.2 ng h/mL [38.2], C<sub>max</sub> 537.2 ng/mL [42.6] vs 535.7 ng/mL [58.4], respectively) and tablet can be coadministered with PPIs, food, or via NG tube without affecting the PKs or PDs.<sup>7</sup>

# **Targeted Therapies: Drug Interactions**



	Ibrutinib <sup>3</sup>	Acalabrutinib <sup>4</sup>	Zanubrutinib⁵
	Ibratilib	Acaiabi dtillib	Zandbrutinib
CYP3A4 inhibitors (moderate)	Decrease to 280 mg once daily	Decrease to 100 mg once daily	Decrease to 80 mg twice daily
CYP3A4 inhibitors (strong)	<b>Avoid*</b> or hold ibrutinib (if CYP3A4i used ≤7 days)	<b>Avoid</b> or hold acalabrutinib for ≥24 hr after last dose of CYP3A4i if used ≤7 days	Decrease to 80 mg once daily
CYP3A4 inducers	<b>Avoid</b> May consider monitoring for reduced efficacy with moderate inducers	<b>Avoid</b> If unavoidable, increase dose to 200 mg orally twice daily	<b>Avoid</b> If moderate inducers unavoidable, increase dose to 320 mg twice daily
P-gp inhibitors	N/A		
Anticoagulants	Consider risk vs bonofit and monitor for increased risk of blooding		
Antiplatelets	Consider risk vs benefit and monitor for increased risk of bleeding		
Acid suppressants	N/A	N/A with new tablet formulation	N/A

\*Some strong CYP3A inhibitors can be coadministered, including voriconazole and posaconazole, with specific ibrutinib dose adjustments. See ibrutinib package insert instructions for more information.



**COVID-19 considerations:** nirmatrelvir/ritonavir is a strong CYP3A4 inhibitor that interacts with all BTKi and venetoclax

Consider holding BTKi for duration of 5-day nirmatrelvir/ritonavir course





\*Would consider if persistent/affecting quality of life.

#### **Management Recommendations for Key AEs**



#### **Atrial Fibrillation Management**

- Risks include cardiac risk factors, acute infections, and prior history of atrial fibrillation
- Educate patients on their risk and when to call the healthcare team
- Rate control: β-blocker preferred due to CYP drug interactions with verapamil and diltiazem
- Monitor digoxin level for concomitant use with P-gp inhibitor
- Rhythm control; consider drug interactions
- For controllable Afib: continue therapy; can consider switching to alternative BTKi
- For uncontrollable Afib: consider alternative therapy

#### **Bleeding Management**

• Real-world risks based on multivariate analysis: elevated INR (>1.5) increases risk 4.6x and use of antiplatelet + anticoagulant vs neither increases risk 20x<sup>8</sup>

 Conflicting data: low bleed incidence despite antiplatelet and/or anticoagulant (comorbidities may be more predictive)<sup>9</sup>

- Hold BTK inhibitor prior to and after invasive procedures for 3 (minor) to 7 days (major)<sup>3-5</sup>
- Reversible impact within 1 wk of discontinuation
- Platelet transfusion may reverse antiplatelet effects
- Anticoagulants/antiplatelets are not contraindications<sup>3-5</sup>
- Avoid warfarin
- Consider stopping other medications



#### **Hypertension Management**

- BTK inhibitor may ↑ HTN risk by 13x<sup>10</sup>
- New or worsened HTN ↑ major CV events but control with antihypertensive ↓ major CV events
- Monitor blood pressure throughout treatment
- Standard management for hypertension, with no specific agent recommended
- BTK inhibitor treatment discontinuation not necessary in most cases
- Adequate management of HTN mitigates CV events



#### **Anticoagulation Management**

- **Calculate risk**: calculate CHA<sup>2</sup>DS<sup>2</sup>-VASc and HAS-BLED score (neither scoring system has been validated in patients receiving BTKi)
- Prevent bleeding: discuss risk vs benefit based on HAS-BLED score and other factors
   \*\*avoid warfarin\*\*
- Prevent stroke: if CHA<sup>2</sup>DS<sup>2</sup>-VASc ≥2, consider anticoagulation



Additional factors to consider: baseline uric acid, LDH, potassium, phosphorous, sCr, calcium

## Venetoclax: Hematologic Toxicity Management<sup>6</sup>

# Grade 3 neutropenia with infection or fever or Grade 4 hematologic toxicity

-•	First occurrence:
	Interrupt treatment
	Resume at <i>same dose</i> once
	resolved to grade ≤1 or baseline
	Consider growth factor
-•	Second and subsequent occurrences:

Interrupt treatment Resume at *lower dose* level once resolved to grade ≤1 or baseline Consider growth factor

Dose at Interruption	Reduced Dose Level	
400 mg	300 mg	
300 mg	200 mg	
200 mg	100 mg	
100 mg	50 mg	
50 mg	20 mg	
20 mg	10 mg	

Consider discontinuation for patients who require dose reductions to <100 mg for more than 2 wk

#### Targeted Therapies: Drug Interactions<sup>6</sup>

	Venetoclax		
CYP3A4 inhibitors (moderate)	Reduce dose by 50%	17. T. T.	
CYP3A4 inhibitors (strong)	Avoid during initiation and ramp-up Reduce dose by at least 75% after ramp-up phase considerations:		
CYP3A4 inducers	Avoid	nirmatrelvir/ritonavir is a strong CYP3A4 inhibitor that interacts with all BTKi and venetoclax	
P-gp inhibitors	<b>Avoid</b> , if possible, or reduce dose by 50% and separate dosing by ≥6 hr		
Anticoagulants	May increase warfarin concentration	Consider dose reduction  or dose hold for venetoclax	
Antiplatelets	N/A	during 5-day nirmatrelvir/ ritonavir course, depending on clinical scenario	
Acid suppressants	N/A		

## Strategies to Improve Patient Adherence to Oral Therapy

## While Receiving BTK Inhibitors

Follow up with patients weekly during their first mo of BTK inhibitor therapy

Then, consider follow-up every 3 mo during the first yr with a consistent point of contact

Most patients will be seen less frequently by their physician at this point in their care

#### While Receiving Venetoclax

Weekly office visits until ramp-up dosing is complete

After the patient is stabilized, reach out monthly and then every 3 mo until the full course of venetoclax therapy is complete



Regular follow-up and monitoring of patients is critical with oral therapy to identify any AEs early and for appropriate AE management

Regular follow-up can improve patient outcomes and adherence, and regular touch points allows us to stay up to date on any new medications the patient may need to begin

#### References

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