# **ACALABRUTINIB** for CLL/SLL

Indication: Chronic lymphocytic leukaemia

#### Prior to a course of treatment

- Check FBC. Patient should have adequate bone marrow reserve, i.e neutrophils > 1.0, platelets >75 unless cytopaenia is due to disease, e.g marrow infiltration, splenomegaly
- Check eGFR must be >30ml/min (see dose modification), LFTs
- Check HBsAg, anti-HBc and anti-HCV antibody
- Check baseline ECG and chest-X-ray
- Note hypertension is a common adverse event with acalabrutinib review blood pressure control and treatment. Consider 24-hour blood pressure monitoring.
- Note that acalabrutinib is primarily metabolized by cytochrome P450 enzyme 3A4/5 and there are
  potentially significant drug interactions. CYP4503A4/5 inhibitors may increase acalabrutinib
  toxicity. Review current medications See 'Acalabrutinib and drug interactions'.
- Note concomitant warfarin and acalabrutinib should be avoided. Consider replacing with a NOAC.
   Review risk of bleeding, antiplatelet therapy discuss with consultant
- Inform the patient that they must avoid grapefruit juice and Seville oranges throughout treatment
- Co-administration of acalabrutinib and PPIs may reduce acalabrutinib concentrations. Consider changing to H2-antagonist or antacid with a 2hr gap between doses and acalabrutinib
- Note any recent or planned surgical procedures see 'Surgery and acalabrutinib'
- If appropriate discuss possibility of pregnancy with female patients check pregnancy test if childbearing potential - and need for contraception with both male and female patients.
- Note that the risk of infertility with acalabrutinib is not known. Discuss risk of infertility offer referral for semen cryopreservation/fertility preservation measures if appropriate
- Written consent for course

## Prior to each cycle

- Review fitness for treatment exclude active infection, major changes in organ function, bleeding/bruising
- Review concurrent medications noting any new medications. Evaluate for potential drug toxicities and interactions see 'Acalabrutinib and drug interactions'.
- Review blood pressure control and pulse consider 24-hour blood pressure monitoring and ECG
- Note any recent or planned surgical procedures see 'Surgery and acalabrutinib'
- Check FBC, eGFR, LFTs see dose modification
- Plan monthly review for the first 3-6 months according to response, tolerance, then 3-monthly

Acalabrutinib 100mg bd PO <sup>1</sup>

Consider starting at 100mg for elderly or frail patients

Continue until disease progression or unacceptable toxicity

Prophylaxis for acute emesis Not required
Prophylaxis for delayed emesis Not required

Other medications Allopurinol 300mg od (100mg od if Cr Cl <20ml/min) for cycle 1

Cotrimoxazole 480mg od, continue for 3 months after completion

Aciclovir 400mg bd, continue for 3 months after completion

# Surgery and acalabrutinib

For any surgery or invasive procedure requiring sutures or staples acalabrutinib should be stopped for at least 7 days before and not restarted for at least 7 days after.

For minor procedures (central line placement, thoracentesis, paracentesis, needle biopsy, but not bone marrow biopsy) acalabrutinib should be stopped 3 days before and not restarted for at least 3 days after. For urgent procedures withhold post-procedure for at least 7 days until the site is reasonably healed.

## Acalabrutinib and drug interactions

- Note the lists of drugs below with potential interactions with acalabrutinib are not exhaustive.
   Further information on interactions is available at: <a href="https://www.drugs.com/drug\_interactions.html">https://www.drugs.com/drug\_interactions.html</a> or consult with Oncology Pharmacist
- Avoid strong CYP3A4/5 inhibitors e.g: indinavir, nelfinavir, ritonavir, saquinavir, clarithromycin, telithromycin, ketoconazole, itraconazole, voriconazole, nefazodone. Where short term use is required consider interrupting acalabrutinib – discuss with consultant
- Use moderate CYP3A4/5 inhibitors with caution e.g. aprepitant, erythromycin, fluconazole, verapamil, diltiazem. If a moderate inhibitor must be used reduce acalabrutinib dose to 100mg od.
- Patients taking concomitant moderate or strong inhibitors of CYP3A4/5 must be monitored closely for signs of acalabrutinib toxicity
- Avoid Seville oranges and grapefruit juice throughout treatment
- Avoid use of strong CYP3A4/5 inducers e.g carbamazepine, rifampicin, phenytoin, St John's Wort.
   If concomitant use absolutely necessary consider increasing acalabrutinib to 200mg bd
- Any agents known to prolong the QT interval (amiodarone, chloroquine, chlororomazine, cisapride, citalopram, clarithromycin, diisopyramide, domperidone, erythromycin, flecainide, haloperidol, methadone, pentamidine, procainamide, quinidine, sotalol, terfenadine) should be used with caution and periodic monitoring of ECGs, electrolytes should be considered.

#### **Dose modifications**

Dose modifications are described for haematological, renal and liver dysfunction but note modifications may be indicated for other toxicities also. Discuss all dose reductions or delays with the relevant consultant since the approach may be different depending on the clinical circumstances and treatment intent. Note abnormal liver and renal function tests and blood counts may also be due to the disease being treated.

# For neutropenia for neutropenia (unless due to disease), neutropenic sepsis, thrombocytopaenia

Neuts < 1.0 with sepsis</li>
 Neuts < 0.5</li>
 1<sup>st</sup> occurrence
 Restart at 100mg bd
 Restart at 100mg bd
 3<sup>rd</sup> occurrence
 Restart at 100mg od

• Plats <25	4 <sup>th</sup> occurrence Discontinue acalabrutinib
Dose modification for hepatic impairment	
Child Pugh A (mild impairment)	No adjustment required
Child Pugh B (moderate impairment)	No adjustment required
Child Pugh C (severe impairment)	Not recommended
Dose modification for renal impairment	
eGFR >30ml/min	No modification required
eGFR < 30ml/min, on dialysis	No data available, consider risks and benefits of treatment and monitor for toxicity – discuss with consultant

Acalabrutinib toxicities	
Diarrhoea	Severe infection including atypical and fungal
Treatment-related hyperlymphocytosis	Haemorrhage, bleeding, bruising
Atrial fibrillation	Thrombocytopaenia, purpura
Hypertension, need for increased anti- hypertensive medications	Neutropenia
Muscle & joint pain	Rash, Stevens-Johnson syndrome
Reactivation of hepatitis B	Cardiac failure
Basal cell & squamous cell carcinoma	

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