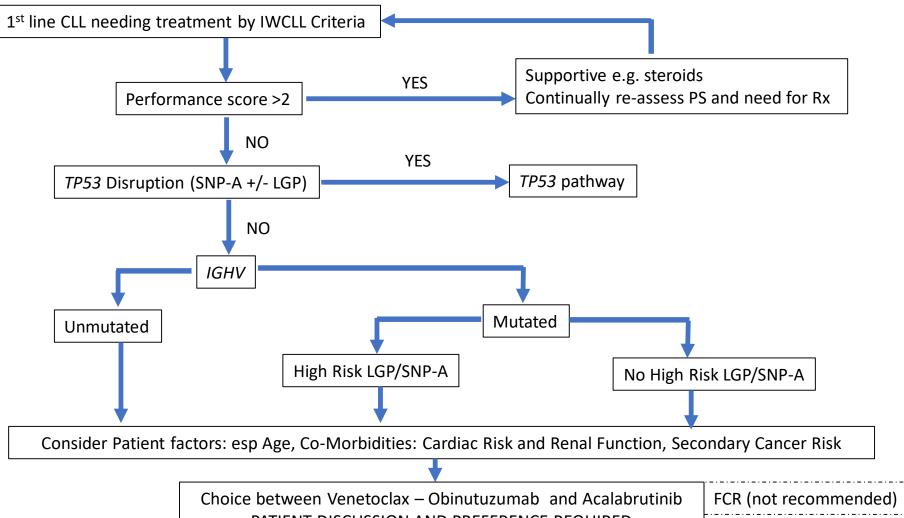


R/R: Relapsed/refractory; TP53 mut: TP53 gene mutation; 2L: Second line; 3L: Third line; CIT: Chemoimmunotherapy; BTKi: Bruton tyrosine kinase inhibitors; FCR: Fludarabine Cyclophosphamide Rituximab; Ven O: Venetoclax Obinutuzumab 12 months; Ven-R: Venetoclax-Rituximab 24 months; Ven-Mono: Single agent continuous venetoclax, ; PI3Ki: Phosphatidylinositol-3 kinase inhibitor; AlloSCT: allogeneic Stem Cell Transplantation

§ Venetoclax-Obinutuzumab is available for NHSE patients for this patient population and is preferred; @Combination with Obinutuzumab is not licensed in the UK; *Alternate BTKi can be offered as an option if intolerant to initial BTKi choice and, when feasible, it is preferred over PI3Ki. ¶Only a first line option for TP53 disrupted patients who are ineligible for BTKi; *Venetoclax monotherapy can be offered to patients relapsing after fixed duration Venetoclax-based regimens, see text in addition.

LGP= Lymphoid gene panel – includes TP53

SNP-A will include assessment for 17p deletion



Acalabrutinib: Only for "FCR/BR unsuitable"

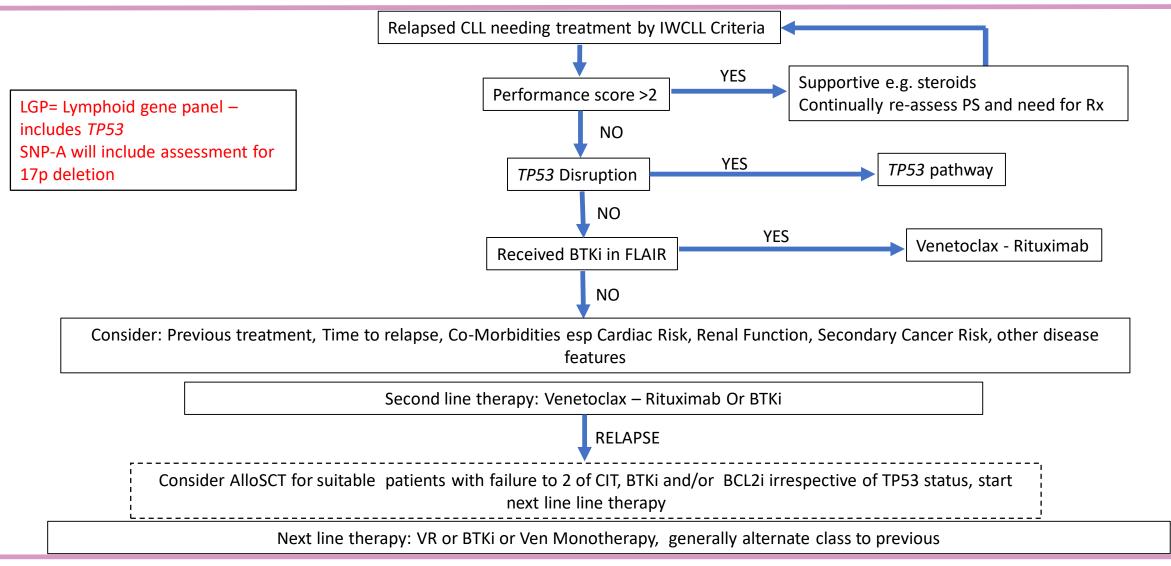
PATIENT DISCUSSION AND PREFERENCE REQUIRED











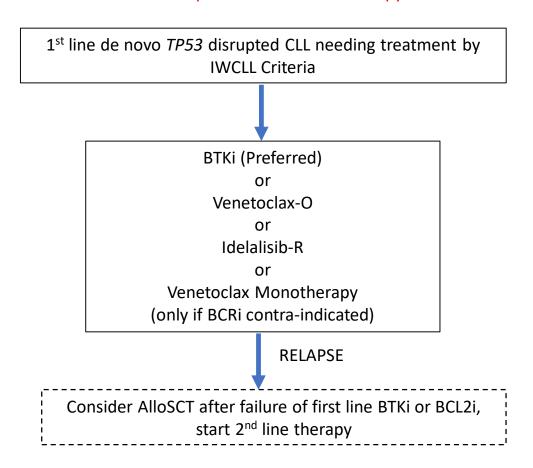




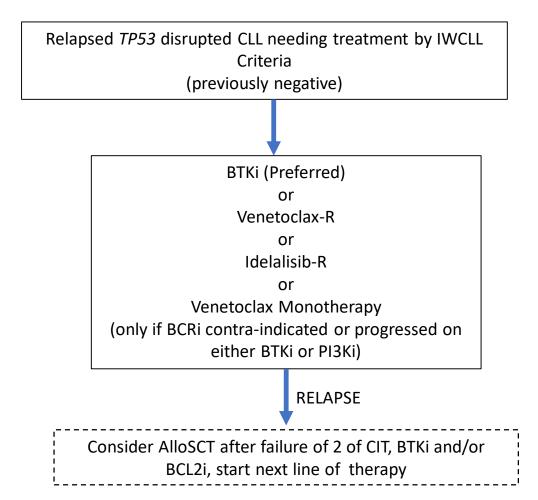




TP53 Disruption at first line of therapy



TP53 Disruption emerging during therapy











Sequencing of targeted inhibitors

RELAPSED THERAPY

BTKi relapse

PI3Ki relapse

BCL2i/BTKi relapse

BCL2i/BTKi/PI3Ki relapse

Venetoclax Obinutuzumab

Venetoclax mono relapse

Venetoclax Rituximab relapse**

SUGGESTED SEQUENCE

→BCL2i* or PI3Ki***

→BTKi or BCL2i

→PI3Ki or AlloSCT or clinical trial

→ AlloSCT or clinical trial

→BTKi or Venetoclax Rituximab**or PI3Ki***

→BTKi or PI3Ki***

→BTKi or Venetoclax monotherapy or PI3Ki***

BTKi: Bruton tyrosine kinase inhibitors; Ven O: Venetoclax Obinutuzumab;

VenR: Venetoclax-Rituximab regimen; PI3K: Phosphatidylinositol-3 kinase inhibitor

AlloSCT, allogeneic Stem Cell Transplantation







^{*}the only sequence with phase 3 clinical trial evidence

^{**}as long as the patient have not relapsed whilst on Venetoclax combination treatment and had at least 12 months remission

^{***} BTKi or BCL2 are the preferred options in those naive to those classes

Recommended TLS Prophylaxis based on tumour burden in patients with CLL when using venetoclax (SMPC)

Tumour burden		Prophylaxis		Blood chemistry monitoring ^{c,d}
		Hydrationa	Anti-hyperuricaemics ^b	Setting and frequency of assessments
Low	All LN <5 cm AND ALC <25 x10 ⁹ /L	Oral (1.5-2 L)	Allopurinol	Outpatient For first dose of 20 mg and 50 mg: Pre-dose, 6 to 8 hours, 24 hours For subsequent dose increases: Pre-dose
Medium	Any LN 5 cm to <10 cm OR ALC ≥25 x10 ⁹ /L	Oral (1.5-2 L) and consider additional intravenous	Allopurinol	 Outpatient For first dose of 20 mg and 50 mg: Pre-dose, 6 to 8 hours, 24 hours For subsequent dose increases: Pre-dose For first dose of 20 mg and 50 mg: Consider hospitalisation for patients with CrCl <80ml/min; see below for monitoring in hospital
High	Any LN ≥10 cm OR ALC ≥25 x10 ⁹ /L AND any LN ≥5 cm	Oral (1.5-2 L) and intravenous (150-200 ml/hr as tolerated)	Allopurinol; consider rasburicase if baseline uric acid is elevated	 In hospital For first dose of 20 mg and 50 mg: Pre-dose, 4, 8, 12 and 24 hours Outpatient For subsequent dose increases: Pre-dose, 6 to 8 hours, 24 hours

ALC = absolute lymphocyte count; CrCl = creatinine clearance; LN = lymph node.

dAt subsequent dose increases, monitor blood chemistries at 6 to 8 hours and at 24 hours for patients who continue to be at risk of TLS.









^aInstruct patients to drink water daily starting 2 days before and throughout the dose-titration phase, specifically prior to and on the days of dosing at initiation and each subsequent dose increase. Administer intravenous hydration for any patient who cannot tolerate oral hydration.

^bStart allopurinol or xanthine oxidase inhibitor 2 to 3 days prior to initiation of venetoclax.

Evaluate blood chemistries (potassium, uric acid, phosphorus, calcium, and creatinine); review in real time.

Venetoclax dose escalation algorithms at weekly ramp up

All LN <5 cm AND ALC <25 x10⁹/L

Low Risk (Outpatient pathway)



- Bloods in Outpatient Department
- Checked by CNS

D1

- Venetoclax at home
- Oral fluids + allopurinol

D₂

- 24hr bloods in Outpatient Department*
- Checked by CNS

*Mandatory at 20mg and 50mg dose

1. Venclyxto SmPC. https://www.medicines.org.uk/emc/product/10041/smpc#gref – Accessed November 2022







Any LN 5 cm to <10 cm OR ALC \geq 25 x10⁹/L

Medium Risk (Ambulatory pathway)



- Bloods in Outpatient Department/Ambulatory
- Bloods checked by Ambulatory team

D1

- Attend ambulatory
- Rasburicase (prescribed on Mosaiq) +/- IVI and venetoclax

D2

24 hr bloods in Ambulatory*

Use of single dose rasburicase +/- IVI in ambulatory setting is sufficient to mitigate TLS risk, with blood check at 24 hr only needed.

*Mandatory at 20mg and 50 mg dose

1. Venclyxto SmPC. https://www.medicines.org.uk/emc/product/10041/smpc#gref – Accessed November 2022







Any LN \geq 10 cm OR ALC \geq 25 x10⁹/L AND any LN \geq 5 cm

High Risk (Inpatient pathway)



Bloods in Outpatient Department

D1

Admit for IVI hydration o/n + rasburicase

• 12hr bloods

D2

24hr bloods +/- discharge

Audit revealed no TLS at 6 hrs, therefore suggest no need to assess TLS bloods prior to 12 hrs post 1st dose

*Re-assess risk before 100mg dose-?appropriate for ambulatory pathway

1. Venclyxto SmPC. https://www.medicines.org.uk/emc/product/10041/smpc#gref – Accessed November 2022







High Risk Pts Can downgrade if suitable

- At 100 mg and beyond re-assess risk
- If WCC <25 can downgrade;
 - Use Allopurinol
 - Oral fluids
 - Suggest bloods day before, patient take venetoclax at home at 6AM and attends for 6-8 hr bloods at midday
 - Can drop 24 hr blood assessments

Permission has been granted by the patient to use this case for educational and illustrative purposes







Ven-O pathway at KCH

