

GUIDELINE FOR MANAGEMENT AND PREVENTION OF ACUTE TUMOUR LYSIS SYNDROME IN HAEMATOLOGICAL MALIGNANCIES

This guidance does not override the individual responsibility of health professionals to make appropriate decision according to the circumstances of the individual patient in consultation with the patient and /or carer. Health care professionals must be prepared to justify any deviation from this guidance.

The purpose of this guideline is to predict and prevent adult patients with haematological malignancies from developing tumour lysis syndrome, and to ensure that early recognition and management in a timely and efficient manner, to improve patient outcome.

Patients with haematological malignancies who require treatment with [systemic anti-cancer therapy \(SACT\)](#) are covered by this guideline.

This guideline is for use by the following staff groups:

Staff involved in the treatment of patients with haematological malignancies.

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	19 th July 2023

Approved by Haematology & Palliative Care
Directorate Governance meeting

Approved by Medicines Safety Committee on: 13th September 2023

Review Date : 13th September 2026

This is the most current document and should be used until a revised version is in place

Key amendments to this guideline

Date	Amendment	Approved by:
Oct 19	New document approved for 3 years at MSC	Medicines Safety Committee
13 th September 2023	Document reviewed and approved for 3 years at MSC	Medicines Safety Committee

Abbreviations:

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TLS: Tumor Lysis Syndrome
 ULN: Upper Limit of Normal
 SCLC: Small cell Lung Cancer
 CML: Chronic Myeloid Leukaemia
 CLL: Chronic Lymphocytic Leukaemia
 LN: Lymph node
 ALC: Absolute lymphocyte count
 SmPC: Summary of product characteristics
 AML: Acute Myeloid Leukaemia
 ALL: Acute Lymphoblastic Leukaemia
 BC: Blast Crisis
 SLL: Small Lymphocytic Lymphoma
 MALT lymphoma: Lymphoma involving mucosa associated tissue
 CTCL: Cutaneous T cell Lymphoma
 ALCL: Anaplastic large Cell Lymphoma
 ATLL: Adult T Cell leukaemia/Lymphoma
 DLBCL: Diffuse Large B Cell Lymphoma
 PTCL: Peripheral T Cell Lymphoma
 LRD: Low Risk Disease
 IRD: Intermediate Risk Disease
 HRD: High Risk Disease
 G6PD: Glucose 6 Phosphate Dehydrogenase deficiency
 IV: Intravenous
 BNF: British National Formulary
 BCSH: British Committee for Standards in Haematology
 HDU: High Dependency Unit
 ITU: Intensive Care Unit
 USS Ultrasound
 CVP: Central venous pressure
 SACT: Systemic anti-cancer therapy

**GUIDELINE FOR MANAGEMENT AND PREVENTION OF ACUTE TUMOUR LYSIS SYNDROME
IN HAEMATOLOGICAL MALIGNANCIES**

Introduction

Tumour Lysis Syndrome (TLS) is a life-threatening complication when rapid lysis of tumour cells leads to release of cellular contents into circulation, resulting in a metabolic disturbance characterised by hyperuricaemia, hyperphosphataemia, hyperkalaemia and hypocalcaemia, which may lead to uraemia and/ or acute oliguric renal failure, seizures, cardiac arrhythmias and sudden death. It occurs as a direct result of the action of SACT for malignant disease, most commonly in the treatment of haematological malignancies. Therefore, it is important to prevent it, and recognise and treat early to improve patient outcome. Clinical TLS is rare, affecting 3-6% of all patients with high-grade malignancies. However, it can result in significant adverse outcomes. Therefore, it is important to risk-stratify and identify those patients at high-risk of developing TLS and treat prophylactically. Furthermore, there should be prompt investigations to rule out TLS if the patient is deemed high-risk and treatment should be initiated as soon as possible to reduce the risk of a poor outcome.

Details of Guideline

1. Definition of Tumour Lysis Syndrome

1.1. Laboratory TLS

The presence of 2 or more of the following abnormalities in a patient with cancer or undergoing treatment for cancer within 3 days prior to and up to 7 days after initiation of treatment

Electrolytes	Levels
Uric acid*	>476µmol/l or 25% increase from baseline
Potassium	≥6.0mmol/l or 25% increase from baseline
Phosphate	≥1.5mmol/l or 25% increase from baseline
Albumin corrected calcium	≤1.75mmol/l or 25% decrease from baseline

*Not included if rasburicase has been administered within previous 24 hours

1.2. Clinical TLS

Laboratory TLS plus at least one of:

- Creatinine ≥1.5 x ULN
- Cardiac arrhythmia
- Seizure
- Sudden death

2. Prevention of TLS

2.1. Risk Assessment of TLS

TLS can develop rapidly and is difficult to treat once established. The key to management is to recognise those patients at risk and use prophylactic measures to prevent its occurrence.

2.1.1. Risk factors

- High tumour burden
- High grade tumour with rapid cell turnover
- Pre-existing renal impairment or renal involvement by tumour
- Increased age
- Treatment with highly active, cell-cycle specific agents
- Concomitant use of drugs that increase uric acid level – including alcohol, ascorbic acid, aspirin, caffeine, cisplatin, diazoxide, thiazide, diuretics, adrenaline(epinephrine), ethambutol, pyrazinamide, levodopa, methyldopa, nicotinic acid, phenothiazines and theophylline.

2.1.2. Risk Stratification (Table.1)

Disease subtype	Baseline Risk score	Upgrade if	Following are present
		Renal dysfunction or involvement	Raised urate, Potassium or Phosphate
Solid Tumour			
• Majority of cases	Low risk	-	-
• Bulky germ cell, neuroblastoma or SCLC	Intermediate	High	High
Myeloma	Low	-	-
CML Chronic Phase	Low	Intermediate*	Low
CLL			
• Alkylator alone	Low	Intermediate*	Low
• Targeted/Biological Rx	Intermediate	High	High
• (treatment with venetoclax in CLL patients with LN ≥ 10cm or LN size ≥5 cm & ALC≥25) (see section 2.3.6 Table 3 /venetoclax SmPC)	High	High	High
AML/CML Myeloid BC			
• WBC <25 LDH<2 ULN	Low	Intermediate*	Low
	Intermediate	High	High

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<ul style="list-style-type: none"> WBC <25 LDH ≥2 ULN WBC 25-100 WBC ≥100 	Intermediate	High	High
	High	High	High
ALL or CML Lymphoid BC			
<ul style="list-style-type: none"> WBC <100 LDH <2 ULN WBC <100 LDH ≥2 ULN WBC ≥100 	Intermediate	High	High
	High	High	High
	High	High	High
Burkitt Lymphoma or Lymphoblastic lymphoma	High	High	High
Hodgkin, SLL, Follicular, marginal, MALT, Mantle(non-blastoid), CTCL	Low	Intermediate*	Low
ALCL (adult)	Low	Intermediate*	Low
ATLL, DLBCL, PTCL, Transformed disease, Mantle cell (Blastoid)			
<ul style="list-style-type: none"> LDH ≤ ULN LDH >ULN <2ULN Non-bulky Bulky(>10cm) or LDH > 2 ULN 	Low	Intermediate*	Low
	Intermediate	High	High
	High	High	High

*Low risk disease (LRD) is upgraded to intermediate risk disease (IRD) if there is renal dysfunction or renal involvement, but not upgraded if uric acid/ potassium/phosphate are raised.

Intermediate disease (IRD) is upgraded to High Risk Disease (HRD) if there is either renal dysfunction or renal involvement, or any of following are raised: uric acid, potassium, phosphate.

2.2. Pre-treatment biochemical assessment and TLS screen

- Urea
- Creatinine
- Uric acid
- Phosphate
- Potassium
- Albumin
- Corrected Calcium

- LDH
- Consider baseline G6PD screen in an “at risk” patients (people who originated from the Mediterranean, parts of Africa, and parts of India and South East Asia).

2.3. Prevention – Management according to Risk

2.3.1. Prophylaxis recommendations (BCSH Guideline) (Table.2)

Low risk Disease	Intermediate Risk Disease	High Risk Disease
Monitoring	Monitoring	Monitoring
Hydration	Hydration	Hydration
±Allopurinol	Allopurinol	Rasburicase*

*Contraindicated in patients with a history consistent with G6PD deficiency. In these patients, rasburicase should be substituted with allopurinol or [febuxostat](#).

- Patients due to receive chemotherapy for any haematological malignancy should have a risk assessment for TLS and individual TLS prophylaxis plan should be documented in the notes or on MOSAIQ.

2.3.2. Low Risk patients

- Low risk patients can be managed with careful attention to the monitoring and measurement of fluid status and laboratory results with a low threshold for recourse to intravenous fluids and consideration of allopurinol if needed (Grade 2C).
- Patients considered to be at low risk of TLS should be [considered for](#) allopurinol 300mg [once](#) daily (reduce dose [to 100 to 200mg if creatinine clearance <20ml/min](#)) prior to the start of treatment and can commence chemotherapy as an outpatient. They should be advised to drink plenty of fluids daily (3 litres per day) but no special monitoring is necessary.

2.3.3. Intermediate Risk patients

- Intermediate risk patients should be offered allopurinol prophylaxis along with increased hydration post-initiation of treatment or until risk of TLS has resolved.
- Patients considered to be at intermediate risk category should receive allopurinol 300mg daily (provided normal renal function/renal dose) with start of chemotherapy, along with hydration and monitoring.
- [If allopurinol/Rasburicase is unsuitable or contraindicated \(e.g. patients with history of allergy to allopurinol or rasburicase, patients with G6PD deficiency\), febuxostat 120mg once daily can be used in prevention and treatment of hyperuricaemia in adult patients undergoing chemotherapy for haematologic malignancies at intermediate to high risk of TLS. See BNF & SmPC.](#)

2.3.4. High Risk patients

- High risk patients should be offered prophylaxis with rasburicase along with increased hydration (e.g. IV 0.9% sodium chloride 3 Litre/m²/day to maintain urine output of 100ml/m²/hr. Furosemide can be considered if urine output is

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inadequate), and monitoring of fluid balance and TLS blood tests (6 hr and 18 hr after 1st dose chemo, then 24 hourly if no evidence of TLS).

- Rasburicase should be avoided in patients with G6PD deficiency. Such patients should be treated with allopurinol or [Febuxostat](#) and monitored carefully. [See SmPC & BNF \(also important safety information\)](#).
- Daily blood tests for TLS monitoring up to 3 to 5 days to monitor signs of clinical and biochemical TLS. Follow guideline for treatment of TLS if established TLS develop.
- Urate assay, taken whilst patients are on rasburicase, should be sent to the laboratory on ice, if at all possible, to prevent falsely low assay results. However, it is impractical in clinical practice, therefore monitor all other clinical & laboratory parameters to avoid false reassurance when uric acid is falsely low.
- In high risk adults, in the absence of established clinical or laboratory TLS, TLS can be prevented in the majority of patients using a single fixed dose of 3 mg rasburicase but this must be followed by carefully monitoring of clinical and biochemical parameters with repeat dosing (up to 3 to 7 days) if required. Alternatively, rasburicase up to 0.2mg/Kg /day (BNF and SmPC indicated dosage for both prophylaxis and treatment of TLS) can be considered in individual setting in prevention of TLS in high risk patients.
- Where rasburicase is being used in the treatment or prophylaxis of TLS, the addition of allopurinol or [Febuxostat](#) is unnecessary and has the potential to reduce the effectiveness of rasburicase.
- Urinary alkalinisation is not recommended in TLS prophylaxis.

2.3.5. Rasburicase

Rasburicase is a recombinant form of Urate oxidase, an enzyme present in most living organisms but not humans. This catalyses the oxidation of uric acid to allantoin, which is at least 5 times more soluble than uric acid and is more easily excreted in the urine.

Allopurinol blocks the conversion of xanthines to uric acid, so this will reduce the effect of rasburicase; therefore, **DO NOT** give allopurinol (or Febuxostat), and rasburicase together.

It is used in prevention or treatment of TLS (see risk assessment). It is also considered in patients with high urate and unable to tolerate aggressive hydration.

2.3.5.1. Protocol for use:

- Ensure patient is G6PD negative prior to the use (if positive, use aggressive hydration with allopurinol [or febuxostat](#)).
- It is contraindicated in G6PD deficiency patients.
- Dose: 0.2mg/Kg/day in 50ml 0.9% sodium chloride over 30 minutes for prevention and treatment of TLS (BNF and SmPC). However, 3mg single

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dose and review and repeat if necessary for first 3-7 days of chemotherapy is recommended by BCSH guideline.

2.3.6. Recommended TLS prophylaxis based on tumour burden in patients with CLL

- TLS prophylaxis and monitoring during venetoclax treatment, should be based on tumour burden, but patient comorbidities should also be considered for risk-appropriate prophylaxis and monitoring, either outpatient or in hospital.

Table 3. Recommended TLS prophylaxis based on tumour burden in patients with CLL on venetoclax treatment (venetoclax SmPC)

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Tumour burden		Prophylaxis		Blood chemistry monitoring ^{c,d}
		Hydration ^a	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.

^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.

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

^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.

3. Treatment of TLS ± Clinical TLS

- Multidisciplinary approach with involvement with Haematologist, nephrologist and intensive care physicians. Intensive care/high dependency facility or

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haematology centre offering higher level of care as defined by BCSH should be considered.

- All patients should receive aggressive intravenous hydration 0.9% sodium chloride (or alternate with 5% glucose) 3 litre/m²/day.
- Potassium must NOT be added to the hydration fluid.
- Urinary alkalinisation is NOT recommended in the treatment of TLS.
- A urinary catheter should be passed with careful monitoring of fluid balance and urine output to maintain 100ml/m²/hr.
- Allopurinol is NOT the drug of choice in established TLS except in the presence of G6PD deficiency or allergic to rasburicase.
- In absence of contraindication, rasburicase at a dose of 0.2 mg/Kg/day as a 30 min infusion in 50ml 0.9% sodium chloride, should be given if patient has not already received it, or repeated again if a repeat sample (must be sent on ice) shows a measurable uric acid level above 89 umol/l. The duration of treatment should be determined by the clinical response.
- [If both allopurinol and rasburicase are contraindicated, Febuxostat can be used for treatment of acute hyperuricaemia with initial chemotherapy for haematologic malignancies \(see BNF and SmPC\).](#)
- An ECG should be performed.
- Blood monitoring of U&E, corrected calcium, phosphate, and urate should be every 2 – 6 hrs depending on the severity.
- Asymptomatic hypocalcaemia should not be treated.
- Symptomatic hypocalcaemia should be treated with a short infusion of calcium gluconate at a dose applicable to the age/weight of the patient and close monitoring of calcium levels, phosphate levels, and renal function.
- Patients with potassium level ≥6mmol/l or having experienced a 25% increase in potassium level from the baseline should have cardiac monitoring.
- Intractable fluid overload, hyperkalaemia, hyperuricaemia, hyperphosphataemia or hypocalcaemia are indications for renal dialysis.
- Peritoneal dialysis is not recommended for the treatment of TLS.
- Dialysis should continue there is adequate recovery of renal function, resolution of severe electrolyte imbalance and recovery of urine output.

3.1. Hyperphosphataemia

- A level of >1.5mmol/l in adult is abnormal.
- May lead to nausea, vomiting, diarrhoea, lethargy, fits and precipitation of calcium phosphate
- IV and oral calcium supplements should be avoided.
- Levels >2.1mmol/l may be treated with oral chelation using a phosphate binder. This is slow to act and poorly tolerated and so should not be routinely used. (eg. Aluminium hydroxide oral 50-150 mg/kg/day in 4 divided doses)
- Levels >4mmol/l will usually require more aggressive therapy usually with haemodialysis or haemofiltration and must be discussed urgently with the renal team.

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3.2. Hypocalcaemia

- If asymptomatic then this should not be treated but it will correct as other abnormalities improve.
- If $<1.75\text{mmol/l}$ and symptomatic with severe tetany, seizures or prolonged QT interval on ECG then 10mL of 10% calcium *gluconate* IV in 50 to 100ml 5% *glucose* (2.2mmol) by slow IV injection **over 10 minutes** can be given peripherally with ECG monitoring. (Risk of nephrocalcinosis)

3.3. Hyperkalaemia

- If $>6\text{mmol/l}$ but $<7\text{mmol/l}$ in an asymptomatic patient, initiate ECG monitoring.
- Exclude IV potassium from IV fluid.
- Follow Trust Guideline “Emergency Management of Hyperkalaemia Quick Reference Guide for management of the patient”
- Patient should be monitored on HDU/ITU.
- Haemodialysis should be discussed with renal team/ITU.

3.4. Poor urine output

- IV Furosemide 2-4 mg/kg should be given and discuss with the renal team.
- CVP monitoring may be required.
- If the patient has intra-abdominal nodal disease, then USS should be performed to exclude hydronephrosis.
- Haemodialysis or hemofiltration should be considered for volume overload, uncontrolled acidosis or other metabolic disturbances. It should be discussed with ITU and renal team.

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Monitoring Tool

Page/ Section of Key Document	Key control:	Checks to be carried out to confirm compliance with the policy:	How often the check will be carried out:	Responsible for carrying out the check:	Results of check reported to: <i>(Responsible for also ensuring actions are developed to address any areas of non-compliance)</i>	Frequency of reporting:
	WHAT?	HOW?	WHEN?	WHO?	WHERE?	WHEN?
	Patients with haematological malignancy treated with chemotherapy that received rasburicase should have had a risk assessment for TLS completed.	Audit, spot-checks, analysis of incident trends, monitoring of attendance at training.)	2024	Staff involved in the treatment of patients with haematological malignancies.	Audit present in Haematology Journal Club	2025
	High risk adults should be offered prophylaxis with a single 3-mg dose of rasburicase along with increased hydration (exception- full dose as per BNF for certain individual high risk patients). Febuxostat can be considered as an alternative option if Rasburicase contraindicated.	Audit				
	No patients should undergo urinary alkalinisation for TLS prophylaxis	Audit				
	No patient with established TLS should have hydration fluid with added potassium.	Audit				

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	Patients with established TLS should be given rasburicase at a dose of 0.2 mg/kg/day, unless it is contraindicated. (Febuxostat can be considered if rasburicase contraindicated)	Audit				
	Rasburicase/Febuxostat treatment should be continued until the TLS has resolved.	Audit				
	All patients with established TLS and intractable fluid overload, hyperkalaemia, hyperphosphataemia or hypocalcaemia should have renal dialysis considered.	Audit				
	No patients with TLS should be treated with peritoneal dialysis.	Audit				

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This key document has been circulated to the chair(s) of the following committee's / groups for comments;

Committee
Haematology Governance Meeting
Medicines Safety Committee

Supporting Document 1 - Equality Impact Assessment Tool

To be completed by the key document author and attached to key document when submitted to the appropriate committee for consideration and approval.

		Yes/No	Comments
1.	Does the policy/guidance affect one group less or more favourably than another on the basis of:	No	
	• Race	No	
	• Ethnic origins (including gypsies and travellers)	No	
	• Nationality	No	
	• Gender	No	
	• Culture	No	
	• Religion or belief	No	
	• Sexual orientation including lesbian, gay and bisexual people	No	
	• Age	No	
2.	Is there any evidence that some groups are affected differently?	No	
3.	If you have identified potential discrimination, are any exceptions valid, legal and/or justifiable?	No	
4.	Is the impact of the policy/guidance likely to be negative?	No	
5.	If so can the impact be avoided?	No	

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6.	What alternatives are there to achieving the policy/guidance without the impact?	No	
7.	Can we reduce the impact by taking different action?	No	

If you have identified a potential discriminatory impact of this key document, please refer it to Human Resources, together with any suggestions as to the action required to avoid/reduce this impact.

For advice in respect of answering the above questions, please contact Human Resources.

Supporting Document 2 – Financial Impact Assessment

To be completed by the key document author and attached to key document when submitted to the appropriate committee for consideration and approval.

	Title of document:	Yes/No
1.	Does the implementation of this document require any additional Capital resources	No
2.	Does the implementation of this document require additional revenue	No
3.	Does the implementation of this document require additional manpower	No
4.	Does the implementation of this document release any manpower costs through a change in practice	No
5.	Are there additional staff training costs associated with implementing this document which cannot be delivered through current training programmes or allocated training times for staff	No
	Other comments:	No

If the response to any of the above is yes, please complete a business case and which is signed by your Finance Manager and Directorate Manager for consideration by the Accountable Director before progressing to the relevant committee for approval.