

Dose Adjusted riTUXimab, Etoposide, prednisoLONE, DOXOrubicin, cycloPHOSphamide and vinCRIStine

(DA-R EPOCH) Therapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	HSE Approved Reimbursement Status*
Treatment of patients with CD20 positive diffuse large B-cell Non Hodgkins lymphoma (NHL)	C83	00355a	N/A

*This is for post 2012 indications only

TREATMENT: (Please see treatment table on next page)

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Treatment is administered every 21 days for up to 6 cycles or until disease progression or unacceptable toxicity develops.

Facilities to treat anaphylaxis MUST be present when systemic anti-cancer therapy (SACT) is administered.

ELIGIBILITY:

- Previously untreated high or intermediate risk diffuse large B-cell NHL
- ECOG status 0-2

EXCLUSIONS:

- Hypersensitivity to cycloPHOSphamide, DOXOrubicin, etoposide, vinCRIStine, riTUXimab or any of the excipients
- A cumulative life-long dose of 450mg/m² of DOXOrubicin should only be exceeded with extreme caution as there is as risk of irreversible congestive heart failure
- Severe liver impairment (etoposide)
- Breastfeeding
- Pregnancy

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist or Consultant Haematologist working in the area of haematological malignancies.

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					Dose Level (DL)				Administration	Day
Drug	- 2	- 1	Dose Level 1 Initial dose	2	3	4	5	6		
riTUXimab	375mg/m ²	375mg/m ²	375mg/m ²	375mg/m ²	375mg/m ²	375mg/m ²	375mg/m ²	375mg/m ²	IV infusion in 500mL NaCl 0.9% ^a	1
^b Etoposide	50mg/m ²	50mg/m ²	50mg/m²	60mg/m ²	72mg/m²	86.4mg/m ²	103.7mg/m ²	124.4mg/m ²	Dilute in 500mL NaCl 0.9% & infuse over 24 hours (for DL5 & DL6 use 1000mL)	1,2,3,4
^{b,c} DOXOrubicin	10mg/m ²	10mg/m ²	10mg/m ²	12mg/m ²	14.4mg/m ²	17.3mg/m ²	20.7mg/m ²	24.8mg/m ²	Concomitantly in 1000mL NaCl 0.9% & infuse IV over 24 hours	1,2,3,4
^{b,d} vinCRIStine	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²	0.4mg/m ²		1,2,3,4
cycloPHOSphamide	480mg/m ²	600mg/m ²	750mg/m ²	900mg/m ²	1080mg/m ²	1296mg/m ²	^e 1555mg/m ² (Requires mesna)	^e 1866mg/m ² (Requires mesna)	IV infusion in 250mL NaCl 0.9% over 30 minutes (For DL6 use 500mL)	5
^f G-CSF (Round to nearest whole syringe)	5mcg/kg	5mcg/kg	5mcg/kg	5mcg/kg	5mcg/kg	5mcg/kg	5mcg/kg	5mcg/kg	SC – No sooner than 24 hours after the end of cycloPHOSphamide infusion	^g From day 6, until ANC ≥5 X10 ⁹ /L
prednisoLONE	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	PO in two divided doses ^h (i.e. 60mg/m ² 6am and 12noon)	1-5
^a See Table 1: Guidance fo	or administratio	on of riTUXimab								
^b There are various ways o	of administerin	g DOXOrubicin,	vinCRIStine and etc	poside. See local l	nospital policy reco	mmendations rega	irding preferred combinati	ons to be administer	ed concomitantly.	
^c Lifetime cumulative dose	e of DOXOrub i	i cin is 450mg/m²	. In establishing the	maximal cumulati	ve dose of an anthr	acycline, considera	ation should be given to th	e risk factors outline	d below ⁱ and to the age of the pa	atient.
^d vinCRIStin e is a neuroto:	xic chemothera	apeutic agent. Re	efer to NCCP Guidar	ice on the Safe Use	e of Neurotoxic dru	gs (including Vinca	Alkaloids) in the treatmer	it of cancer		
^e At doses of cycloPHOSpl cycloPHOSphamide dose o						ivalent to 20% of c	ycloPHOSphamide dose IV	/ immediately before	cycloPHOSphamide dose (TO) ar	nd 40% of the
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^f Pegylated G-CSF should NOT be substituted for standard G-CSF in this regimen.

^g Ensure G-CSF is continued until beyond nadir even if WCC is raised (typically beyond Day 10)

^hCan be given as a single 120mg/m² dose in the morning at the discretion of the prescribing consultant

Prophylactic Central Nervous System therapy should be administered as clinically indicated (Refer to local policy)

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Note: Administration volumes and fluids have been standardised to facilitate electronic prescribing system builds.

Table 1: Guidance for administration of riTUXimab

The recommended initial rate for infusion is 50 mg/hour; after the first 30 minutes, it can be escalated in 50 mg/hour increments every 30 minutes, to a maximum of 400 mg/hour.

Subsequent infusions can be infused at an initial rate of 100 mg/hour, and increased by 100 mg/hour increments at 30 minute intervals, to a maximum of 400 mg/hour.

Development of an allergic reaction may require a slower infusion rate. See Hypersensitivity/Infusion reactions under Adverse Effects/Regimen Specific Complications below.

Any deviation from the advised infusion rate should be noted in local policies.

Recommended observation period: Patients should be observed for at least six hours after the start of the first infusion and for two hours after the start of the subsequent infusions for symptoms like fever and chills or other infusion-related symptoms. Any deviation should be noted in local policies.

riTUXimab should be diluted to a final concentration of 1-4mg/mL.

Rapid rate infusion scheduleⁱⁱ See NCCP guidance <u>Available on the NCCP website</u>.

If patients did **not** experience a serious infusion related reaction with their first or subsequent

infusions of a dose of riTUXimab administered over the standard infusion schedule, a more rapid infusion can be administered for second and subsequent infusions using the same concentration as in previous infusions. Initiate at a rate of 20% of the total dose for the first 30 minutes and then 80% of the dose for the next 60 minutes (total infusion time of 90 minutes). If the more rapid infusion is tolerated, this infusion schedule can be used when administering subsequent infusions.

Patients who have clinically significant cardiovascular disease, including arrhythmias, or previous serious infusion reactions to any prior biologic therapy or to riTUXimab, should not be administered the more rapid infusion.

TESTS:

Baseline tests:

- FBC, renal and liver profile, LDH, Uric acid, SPEP
- ECG
- MUGA or ECHO (LVEF > 50% to administer DOXOrubicin) if >65 years or if clinically indicated
- Virology screen Hepatitis B (HBsAg, HBcoreAb) & C, HIV. *See Regimen Specific Complications re Hepatitis B Reactivation

Regular tests:

- FBC (including ANC) twice weekly during treatment, three days apart
- Renal and liver profile prior to each cycle
- Assessment of peripheral neuropathy status prior to each cycle
- MUGA, ECHO as clinically indicated

Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

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DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant.
- Drug doses for subsequent cycles are based on previous cycle ANC nadir (Please see Table 2).
- Measurement of ANC nadir based on twice weekly FBC only which must be taken at least 3 days • apart i.e. Low neutrophil count on 3 consecutive days does NOT require decreasing a level

Haematological:

Table 2: Dose adjustment of R-EPOCH based on previous cycle ANC nadir

FBC result	Action
If Nadir ANC \geq 0.5x10 ⁹ /L on all measurements	Increase 1 dose level above last cycle
If Nadir ANC < 0.5x10 ⁹ /L on 1 or 2 measurements	Dose at same level as last cycle
If the nadir ANC $< 0.5 \times 10^9$ /L on three separate	Decrease to one level below the last cycle
measurements \underline{OR} if the nadir platelet count is < 25	
x 10 ⁹ /L on one measurement	

Renal and Hepatic Impairment:

Table 3: Dose modifications based on renal and hepatic impairment

	Drug	Renal Impairment		Hepatic Impai	rment	
	riTUXimab ^a	hab ^a No need for dose adjustment is expected Haemodialysis: no dose adjustment is needed.		No need for dose adjustment is expected.		
	Etoposide ^b	CrCl(mL/min)	Dose	Bilirubin (micromol/L)		Dose
		> 50	No dose adjustment is needed	< 50	and normal albumin and	No need for dose
		10-50	75% of the original dose, increase if tolerated		normal renal function	adjustment is expected
		Haemodialysis	ysis Not dialysed, consider 75% of the original			
			dose		or decreased albumin levels	Consider 50% of the dose, increase if
						tolerated
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DOXOrubicin ^c	CrCl (mL/min)	Dose	Bilirubin (micromol/L)	Dose
	> 10	No dose adjustment is needed	20-50	50% of the original dose
			51-86	25% of the original dose
	< 10	No need for dose adjustment is expected	>86 or Child-Pugh C	Not recommended
	Haemodialysis	75% of the original dose may be considered		
cycloPHOSphamide ^d	CrCl (mL/min)	Dose	Mild and moderates adjustment is expect	
	≥30	No dose adjustment is needed	Severe: Not recomn	nended, due to risk of
	10-29	Consider 75% of the original dose	reduced efficacy.	
	<10	50% Not recommended, if unavoidable consider 50% of the original dose		
	Haemodialysis	Not recommended, if unavoidable consider 50% of the original dose		
vinCRIStine ^e	No need for dose adjustment is expected Haemodialysis: no need for dose adjustment is expected		Bilirubin [(micromol/L)	Dose
			>51 5	50% of original dose
 ^a riTUXimab: renal and hepa ^b Etoposide: renal and hepa ^c DOXOrubicin: renal and hepa ^d cycloPHOSphamide: renal ^e vinCRIStine: renal and hepa 	tic - Giraud et al, 2023 epatic - Giraud et al, 2023 and hepatic - Giraud et al,	2023,		

Neurotoxicity:

Table 4: Dose modification of vinCRIStine based on neurotoxicity (CTCAE v 4.0)

Symptom	Dose of vinCRIStine
Grade 1	100%
Grade 2	Hold until recovery, then reduce dose by 50%
Grade 3,4	Omit

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Adverse reactions	Discontinue	Recommended dose modification
Severe infusion related reaction		Interrupt infusion immediately. Evaluate for
(e.g dyspnoea, bronchospasm,		cytokine release/tumour lysis syndrome
hypotension or hypoxia)		(appropriate laboratory tests) and pulmonary
First occurrence		infiltration (chest x -ray). Infusion may be restarted on resolution of all symptoms, normalisation of laboratory values and chest x-ray findings at no more than one-half the previous rate.
Second occurrence	Consider discontinuing treatment	Consider coverage with steroids for those who are not already receiving steroids.
Mild or moderate infusion-		Reduce rate of infusion. The infusion rate may be
related reaction		increased upon improvement of symptoms

Table 5: Dose modification schedule of riTUXimab based on adverse events

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

As outlined in NCCP Classification Document for Systemic AntiCancer Therapy (SACT) Induced Nausea and Vomiting <u>available</u>
 <u>on the NCCP website</u>

riTUXimab: Minimal (Refer to local policy) Etoposide: Low (Refer to local policy) DOXOrubicin: Moderate (Refer to local policy) vinCRIStine: Minimal (Refer to local policy) cycloPHOSphamide Dose Level 1-4: Moderate (Refer to local policy) cycloPHOSphamide Dose Level 5-6: High (Refer to local policy)

 Consider increased risk of vinca alkaloid-induced adverse effects due to inhibition of CYP3A4 by aprepitant.

For information:

Within NCIS regimens, anti-emetics have been standardised by the Medical Oncologists and information is available in the following document:

- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Medical Oncology) available on the NCCP website
- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Haemato-oncology) available on the NCCP website

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PREMEDICATIONS:

Premedication consisting of an anti-pyretic and an anti-histamine should always be administered before each infusion of riTUXimab.

Table 6: Suggested pre-medications prior to riTUXimab infusion

Drugs	Dose	Route	
Paracetamol	1g	PO 60 minutes prior to riTUXimab infusion	
Chlorphenamine	10mg	IV bolus 60 minutes prior to riTUXimab infusion	
On the day of riTUXimab, ensure morning prednisoLONE is taken prior to riTUXimab infusion			

OTHER SUPPORTIVE CARE:

- Tumour lysis syndrome prophylaxis (Refer to local policy)
- Proton pump Inhibitor (Refer to local policy)
- PJP prophylaxis (Refer to local policy)
- Anti-viral prophylaxis (Refer to local policy)
- Anti-fungal prophylaxis (Avoid the concurrent use of azoles and vinCRIStine) (Refer to local policy)
- Prophylactic regimen against vinCRIStine induced constipation is recommended (Refer to local policy)
- Patients should have an increased fluid intake of 2-3 litres on day 5 to prevent haemorrhagic cystitis associated with cycloPHOSphamide.
- Consider mesna if high dose cycloPHOSphamide prescribed on dose escalation (>1.5g/m² at levels 5, 6)

ADVERSE EFFECTS

• Please refer to the relevant Summary of Product Characteristics (SmPC).

REGIMEN SPECIFIC COMPLICATIONS:

• ***Hepatitis B Reactivation:** Patients should be tested for both HBsAg and HBcoreAb as per local policy. If either test is positive, such patients should be treated with anti-viral therapy **(Refer to local infectious disease policy)**. These patients should be considered for assessment by hepatology.

DRUG INTERACTIONS:

• Consult current drug interaction databases and relevant SmPC.

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- 3. Dunleavy K, Pittaluga S et al. Dose-Adjusted EPOCH-Rituximab Therapy in Primary Mediastinal B-Cell Lymphoma N Engl J Med 2013;368:1408-16.
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- cycloPHOSphamide (Endoxana[®]) Injection 500mg Powder for Solution for Injection. Summary of Product Characteristics Last updated: 21/12/2018.Accessed August 2024.Available at: <u>https://www.hpra.ie/img/uploaded/swedocuments/Licence_PA2299-027-002_21122018112109.pdf</u>
- DOXOrubicin Accord 2mg/mL concentrate for solution for infusion. Summary of Product Characteristics. Last updated: 09/02/2024. Accessed August 2024. Available at: https://www.hpra.ie/img/uploaded/swedocuments/Licence_PA2315-083-001_20022024123027.pdf
- Etoposide 20 mg/mL Concentrate for Solution for Infusion Summary of Product Characteristics. Last updated: 13/02/2024. Accessed August 2024. Available at: <u>https://www.hpra.ie/img/uploaded/swedocuments/Licence_PA2059-036-001_13022024104803.pdf</u>
- vinCRIStine Summary of Product Characteristics. Last updated: 28/09/2023. Accessed August 2024. Available at:<u>https://www.medicines.ie/medicines/vincristine-sulphate-1-mg-ml-solution-for-injection-or-infusion-34195/spc</u>

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Version	Date	Amendment	Approved By
1	18/12/2017		Dr Cliona Grant,
			Prof Maccon Keane
2	16/10/2020	Reviewed. Standardisation of treatment table	Dr Cliona Grant, Prof Maccon
		and pre-medications. Updated HepB reactivation	Keane
		wording.	
		Updated recommendation for hepatic	
		impairment	
3	15/09/2021	Amended footnote in treatment table in relation	Dr Cliona Grant, Prof Maccon
		to pegylated G-CSF.	Keane
4	06/11/2023	Reviewed. Updated emetogenic potential.	Dr Cliona Grant, Prof Maccon
		Updated pre-medications table for rituximab.	Keane
		Updated drug interactions section.	
5	16/10/2024	Reviewed. Updated treatment table. Updated	Dr Cliona Grant, Prof Maccon
		baseline and regular tests. Updated renal and	Keane
		hepatic dose modifications in line with Giraud	
		2023. Updated emetogenic potential. Updated	
		premedications table. Updated other supportive	
		care. Regimen updated in line with NCCP	
		standardisation.	

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

- high cumulative dose, previous therapy with other anthracyclines or anthracenediones
- prior or concomitant radiotherapy to the mediastinal/pericardial area
- pre-existing heart disease
- concomitant use of other potentially cardiotoxic drugs

In establishing the maximal cumulative dose of an anthracycline, consideration should be given to the risk factors above and to the age of the patient

ⁱⁱThe rapid infusion is an unlicensed means of administration of riTUXimab for the indications described above, in Ireland. Patient's should be informed of this and consented to treatment in line with the hospital's policy on the use of unlicensed medication and unlicensed or "off label" indications. Prescribers should be fully aware of their responsibility in communicating any relevant information to the patient and also ensuring that the unlicensed or "off label" means of administration has been acknowledged by the hospital's Drugs and Therapeutics Committee, or equivalent, in line with hospital policy.

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ⁱ Cardiotoxicity is a risk associated with anthracycline therapy that may be manifested by early (acute) or late (delayed) effects.

Risk factors for developing anthracycline-induced cardiotoxicity include: