



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

(DA-R EPOCH) Therapy

INDICATIONS FOR USE:

		Regimen	Reimbursement
INDICATION	ICD10	Code	Status
Treatment of patients with CD20 positive diffuse large B-cell	C83	00355a	Hospital
Non Hodgkins lymphoma (NHL)			

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)
- Breast feeding
- 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					Administration	Day			
Drug	- 2	- 1	Dose Level 1 Initial dose	2	3	4	5	6		
riTUXimab	375mg/m ²	375mg/m ²	375mg/m²	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	1,2,3,4
b,cDOXOrubicin	10mg/m ²	10mg/m ²	10mg/m²	12mg/m ²	14.4mg/m ²	17.3mg/m ²	20.7mg/m ²	24.8mg/m ²	Concomitantly in 1000ml	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	NaCl 0.9% & infuse IV over 24 hours	1,2,3,4
cycloPHOSphamide	480mg/m ²	600mg/m ²	750mg/m²	900mg/m ²	1080mg/m ²	1296mg/m ²	^e 1555mg/m² (Requires mesna)	^e 1866mg/m² (Requires mesna)	IV infusion in 250ml NaCl 0.9% over 30 minutes	5
fG-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 hrs after the end of cyclophosphamide infusion	gFrom day 6, until ANC ≥5 X10g/L
prednisoLONE	120mg/m ²	120mg/m ²	120mg/m²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	120mg/m ²	PO in two divided doses (i.e. 6am and 12noon)	1-5

^a See Table 1: Guidance for administration of riTUXimab

Prophylactic Central Nervous System Intrathecal Methotrexate should be administered with this regimen as clinically indicated (Refer to local policy)

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

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b There are various ways of administering DOXOrubicin, vinCRIStine and etoposide. See local hospital policy recommendations regarding preferred combinations to be administered concomitantly.

^c Lifetime cumulative dose of **DOXOrubicin** is 450mg/m². In establishing the maximal cumulative dose of an anthracycline, consideration should be given to the risk factors outlined below¹ and to the age of the patient.

d vinCRIStine is a neurotoxic chemotherapeutic agent. Refer to NCCP Guidance on the Safe Use of Neurotoxic drugs (including Vinca Alkaloids) in the treatment of cancer

e At doses of cycloPHOSphamide above 1500mg/m², pre-treatment is required with mesna. Give mesna dose equivalent to 20% of cycloPHOSphamide dose IV immediately before cycloPHOSphamide dose (T0) and 40% of the cycloPHOSphamide dose orally 2 and 6 hours (T2, T6) after the end of the cycloPHOSphamide infusion.

^f Pegylated G-CSF should NOT be substituted for standard G-CSF in this regimen.





Table 1: Guidance for administration of riTUXimab

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

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

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 schedule See NCCP guidance here.

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
- Cardiac function using MUGA or ECHO (LVEF > 50% to administer doxorubicin) if >65 years or if clinically indicated (e.g. smoking history, hypertension).
- Virology screen Hepatitis B (HBsAg, HBcoreAb) & C, HIV.
 - *See Adverse Effects/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
- Cardiac function if 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 ≥ 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 <u>OR</u> if the nadir platelet count is < 25	
x 10 ⁹ /L on one measurement	

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Renal and Hepatic Impairment:

Table 3: Dose modifications based on renal and hepatic impairment

Drug	Renal Impairment		Hepatic Impairment				
riTUXimab	Probably no dose reduction		Probably no do	Probably no dose reduction necessary			
	necessary						
Etoposide	CrCl(ml/min)	Dose	Bilirubin		AST	Dose	
			(micromol/L)		(Units)		
	>50	100%	26-51	or	60-180	50%	
	15-50	75%					
	<15	50%					
	Subsequent dos	es should be	>51	or	>180	Clinical	
	based on clinica	l response				decision	
	<u>Dialysis</u>						
	Start at reduced	dose and					
	increase accordi	ng to clinical					
	response.						
DOXOrubicin	No dose reducti		Bilirubin		Dose		
	Clinical decision	in severe renal	(micromol/L)				
	impairment		20-51		50%		
			51-85		25%		
			>85		Omit		
			If AST 2-3 x no	. •			
			If AST >3x ULN				
	CrCl (ml/min)	Dose	Severe impairr	nent: Clinic	al decision.		
	>20	100%					
	10-20	75%					
	<10	50%					
cycloPHOSphamide	Clinical decision						
	whether patient is being						
	treated with hig	h dose					
	treatment.						
	Dialysis						
	Renal Drug Han						
	50- 100% dose (
	HDF/High flux)	•					
	dialysis for 12 h						
	75-100% dose (CAV/VVHD). If						
	anuric, mesna m required.	iay not be					
vinCRIStine	No dose reducti	on required	Bilirubin		AST/ALT	Dose	
VIIICINISTIILE	ivo dose reducti	on required	(micromol/L)		(Units)	Dose	
			26-51	or	60-180	50%	
			>51	and	Normal	50%	
			>51		>180	Omit	
			/31	and	\10U	UIIIIL	

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Neurotoxicity:

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

able in 2000 incumentation of three bases on hear otoxicity (e.e., 12.1.1.10)			
Symptom	Dose of vinCRIStine		
Grade 1	100%		
Grade 2	Hold until recovery, then reduce dose by 50%		
Grade 3,4	Omit		

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

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	Consider coverage with steroids for those who are
	discontinuing	not already receiving steroids.
	treatment	
Mild or moderate infusion-		Reduce rate of infusion. The infusion rate may be
related reaction		increased upon improvement of symptoms

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

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.

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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	
Ensure glucocorticoid component of the treatment regimen (prednisoLONE 120mg/m²) is given at least 30 minutes 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 (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 / REGIMEN SPECIFIC COMPLICATIONS:

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

Please see NCCP Regimen 00542 riTUXimab 375mg/m² Combination Therapy -21 day for detailed information on the adverse effects/Regimen Specific Complications relating to riTUXimab Therapy

- Hypersensitivity/Infusion Reactions: Close monitoring is required throughout the first infusion of riTUXimab. (Refer to local policy). riTUXimab can cause allergic type reactions during the IV infusion such as hypotension, wheezing, rash, flushing, pruritis, sneezing, cough, fever or faintness. Monitor infusion of etoposide for the first 15 minutes for signs of hypotension.
- 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.
- Cardiac Toxicity: Patients with a history of cardiac disease and/or cardiotoxic chemotherapy should be monitored closely while on riTUXimab. DOXOrubicin is cardiotoxic and must be used with caution, if at all, in patients with cardiac dysfunction.
- Neuropathy: vinCRIStine may cause peripheral neuropathy which is dose related and cumulative, requiring monitoring before each dose is administered. The presence of pre-existing neuropathies or

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previous treatment with other neurotoxic drugs may increase risk of peripheral neuropathy. Patients with mild peripheral neuropathy can usually continue to receive full doses of vinCRIStine, but when symptoms increase in severity and interfere with neurologic function, dose reduction or discontinuation of the drug may be necessary. The natural history following discontinuation of treatment is gradual improvement, which may take up to several months. A routine prophylactic regimen against constipation is recommended for all patients receiving vinCRIStine sulphate. Paralytic ileus may occur. The ileus will reverse itself upon temporary discontinuance of vinCRIStine and with symptomatic care.

• **Extravasation**: DOXOrubicin and vinCRIStine cause pain and possible tissue necrosis if extravasated (refer to local policy).

DRUG INTERACTIONS:

- Antihypertensives: Additive effect of hypotension during riTUXimab infusion. Consider withholding antihypertensives 12 hours before and during riTUXimab infusion.
- DOXOrubicin cardiotoxicity is enhanced by previous or concurrent use of other anthracyclines, or other
 potentially cardiotoxic drugs (e.g. 5-Fluorouracil, cycloPHOSphamide or PACLitaxel) or with products
 affecting cardiac function (e.g. calcium antagonists).
- Consider increased risk of vinca alkaloid-induced adverse effects due to inhibition of CYP3A4 by aprepitant.
- Current drug interaction databases should be consulted for more information including potential for interactions with CYP3AR inhibitors/ inducers.

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- DOXOrubicin Accord 2mg/ml concentrate for solution for infusion. Summary of Product Characteristics. Last updated: 27/02/2019 Accessed Jan 2023 Available at: https://www.hpra.ie/img/uploaded/swedocuments/LicenseSPC_PA0437-026-002_03032016152104.pdf
- Etoposide 20 mg/ml Concentrate for Solution for Infusion Summary of Product Characteristics. Last updated: 29/07/2019. Accessed Jan 2023. Available at: https://www.hpra.ie/img/uploaded/swedocuments/LicenseSPC_PA1809-020-001 02022016153110.pdf
- 11. vinCRIStine Summary of Product Characteristics. Last updated: 23/09/2022 . Accessed Jan 2023 . Available at: https://www.medicines.ie/medicines/vincristine-sulphate-1-mg-ml-solution-for-injection-or-infusion-34195/spc

Version	Date	Amendment	Approved By
1	18/12/2017		Dr Cliona Grant,
			Prof Maccon Keane
2	16/10/2020	Reviewed. Standardisation of treatment table and pre-medications. Updated HepB reactivation wording. Updated recommendation for hepatic impairment	Dr Cliona Grant, Prof Maccon Keane
3	15/09/2021	Amended footnote in treatment table in relation to pegylated G-CSF.	Dr Cliona Grant, Prof Maccon Keane
4	06/11/2023	Reviewed. Updated emetogenic potential. Updated pre-medications table for rituximab. Updated drug interactions section.	Dr Cliona Grant, Prof Maccon Keane

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

Risk factors for developing anthracycline-induced cardiotoxicity include:

- 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.