



(R*)-ICE ((riTUXimab*), Ifosfamide, CARBOplatin and Etoposide) Therapy - Outpatient

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
Treatment of relapsed/refractory Non Hodgkin's Lymphoma (NHL)*	C85	00751a	Hospital
Treatment of relapsed/refractory Hodgkin's Lymphoma (HL)	C81	00751b	Hospital

^{*} riTUXimab to be included in CD20 positive patients

TREATMENT:

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 on Days 1-3 as described in the treatment table every 21 days.

Standard salvage treatment for HL or DLBCL patients eligible for consolidation autologous or allogeneic stem cell transplantation or CAR-T therapy is 3 cycles of R-ICE.

Salvage treatment for patients ineligible for standard consolidation autologous or allogeneic stem cell transplantation or CAR-T therapy is 4 cycles of R-ICE.

Facilities to treat anaphylaxis MUST be present when therapy is administered.

Note: Specific Hydration therapy is required for the safe administration of ifosfamide (See Table below).

Day	Drug	Dose	Route	Diluent & Rate	Cycle
1	riTUXimab	375mg/m ²	IV infusion ^{a, b}	500ml 0.9% NaCl at a maximum rate of	All
			Observe post infusiona	400mg/hr ^a	
1, 2, 3	Etoposide	100mg/m ²	IV infusion	1000mls 0.9% NaCl over 60 minutes	All
1	CARBOplatin	AUC 5	IV infusion	500ml glucose 5% over 30 minutes	All
1, 2, 3	Mesna	500mg/m ²	IV Bolus	Into the side arm of a fast-flowing 0.9% NaCl drip, 15 minutes before ifosfamide infusion starts.	All
1, 2, 3	Ifosfamide ^c	1667mg/m ²	IV infusion	In 1000ml 0.9% NaCl over 2 hours	All
1, 2, 3	Mesna	500mg/m ²	IV Bolus	Into the side arm of a fast-flowing 0.9%NaCl drip, 4 hours post start of ifosfamide infusion.	All
1, 2, 3	Mesna	1000mg/m ²	PO	To be taken 8 hours post start of ifosfamide infusion.	All
From day 4	G-CSF	5mcg/kg	Subcutaneous (SC) injection (Round to nearest whole syringe)	Continued until ANC >1x10 ^{9/} L for 2 consecutive days	All

^aSee Table 1: Guidance for administration of riTUXimab.

Ensure IV hydration (1L NaCL 0.9% IV every 6 hours) is given, commencing prior to first dose of ifosfamide and continuing for 24 hours after completion. Maintain strict fluid balance during therapy, by (1) monitoring fluid balance and (2) daily weights. If fluid balance becomes positive by >1000mls or weight increases by >1Kg, the patient should be reviewed and consideration given to diuresing with furosemide. Furosemide should also be administered if required to ensure a urinary output of at least 100ml/hour.

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^bfrom Cycle 2 onwards, riTUXimab SC (fixed dose of 1,400mg) may be considered.

^cIfosfamide Hydration: (Refer to local policy or see suggested hydration below).





Table 1: Guidance for administration of IV 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.

CARBOplatin dose:

The dose in mg of CARBOplatin to be administered is calculated as follows:

Dose (mg) = target AUC (mg/ml x min) x (GFR ml/min +25)

- Measured GFR (e.g. nuclear renogram) is preferred whenever feasible.
- **Estimation of GFR (eGFR)** can be done by using the Wright formula or using the Cockcroft and Gault formula to measure creatinine clearance.
- The GFR used to calculate the AUC dosing should not exceed 125ml/min.
- For obese patients and those with a low serum creatinine, for example, due to low body weight
 or post-operative asthenia, the formulae may not give accurate results and measured GFR is
 recommended.
 - O Where obesity (body mass index [BMI] ≥ 30 kg/m²) or overweight (BMI 25-29.9) is likely to lead to an overestimate of GFR and isotope GFR is not available, the use of the adjusted ideal body weight for Cockcroft and Gault may be considered.
 - Where serum creatinine is less than 63 micromol/L, the use of a creatinine value of 62 micromol/L or a steady pre-operative creatinine value may be considered.
- These comments do not substitute for the clinical judgement of a physician experienced in prescription of CARBOplatin.

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WRIGHT FORMULA

There are two versions of the formula depending on how serum creatinine values are obtained, by the kinetic Jaffe method or the enzymatic method. The formula can be further adapted if covariant creatine kinase (CK) values are available (not shown).

1. SCr measured using enzymatic assay.

GFR (ml/min) = $(6230 - 32.8 \times Age) \times BSA \times (1 - 0.23 \times Sex)$ SCr (micromol/min)

2. SCr measured using Jaffe assay

GFR (ml/min) = $(6580 - 38.8 \times Age) \times BSA \times (1 - 0.168 \times Sex)$ SCr (micromol/min)

Key: Sex = 1 if female, 0 if male; Age in years; BSA= DuBois BSA

COCKCROFT-GAULT FORMULA

GFR (ml/min) = S x (140 - age in years) x wt (kg) serum creatinine (micromol/L)

S= 1.04 for females and 1.23 for males

ELIGIBILITY:

• Indications as above

CAUTION:

• Patients with abnormal renal function or at increased risk of ifosfamide encephalopathy would not be deemed suitable for outpatient ICE.

EXCLUSIONS:

 Hypersensitivity to riTUXimab, CARBOplatin, etoposide, ifosfamide, or any of the excipients.

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PRESCRIPTIVE AUTHORITY:

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

TESTS:

Baseline tests:

- FBC, renal and liver profile
- LDH, Uric acid
- Isotope GFR measurement (preferred) or GFR / Cr Clearance estimation
- Virology screen Hepatitis B (HBsAg, HBcoreAb) & C, HIV
 *See Adverse Effects/Regimen Specific Complications re Hepatitis B Reactivation

Regular tests:

- FBC, renal profile and LDH daily during therapy and twice weekly until count recovery
- Assess neurological function daily while on ifosfamide
- Check urinalysis for haematuria prior to ifosfamide and daily during treatment with ifosfamide

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.

DOSE MODIFICATIONS:

• Any dose modification should be discussed with a Consultant.

Haematological:

Table 2: Dose modification in haematological toxicity

ANC (x 10 ⁹ /L)		Platelets(x 10 ⁹ /L)	Dose
<1	and/or	<50	Discuss with consultant before proceeding

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Renal and Hepatic Impairment:

Table 3: Dose modifications in renal and hepatic impairment

Drug	Renal impairmen	Renal impairment		Hepatic impairment		
riTUXimab	No dose adjustme	ent necessary	No dose adjustment necessary			
Etoposide	CrCl (ml/min)	Dose	Total Bilirubin (micromol/L)		AST	Dose
	>50	100%	26-51	or	60-180	50%
	15-50	75%	>51	or	>180	Clinical decision
	<15	50%				
	Subsequent dose clinical response	s should be based on	d on			
CARBOplatin	See note below*		No dose modification required			
Ifosfamide	CrCl (ml/min)	Dose	Total Bilirubin (micror	nol/L	Dose	•
	>60	100%	Mild and moderate: n	Mild and moderate: no need for dose adjustment is		
	40-59	70%	expected.			
	<40	Clinical decision	Severe: not recommended, due to risk of reduced efficacy. Dose reductions are probably not necessary for patients with altered liver function. However ifosfamide is extensively hepatically metabolised and some clinicians recommend a 25% dose reduction for patients with significant hepatic dysfunction (serum AST > 300units/L or bilirubin > 51.3 micromol/L. Clinical decision.			

*Renal dysfunction and CARBOplatin:

- Patients with creatinine clearance values of <60ml/min are at greater risk of developing myelosuppression.
- If GFR between 20 to ≤ 30ml/min, CARBOplatin should be administered with extreme caution
- If GFR ≤ 20ml/min, CARBOplatin should not be administered at all
- If Cockcroft & Gault or Wright formula are used, the dose should be calculated as required on each cycle based on a serum creatinine obtained within 48 hrs of drug administration.
- If isotope GFR is used, the dose can remain the same provided the serum creatinine is ≤110% of its value at the time of the isotope measurement. If the serum creatinine increases, consideration should be given to remeasuring the GFR or to estimating it using Cockcroft & Gault or Wright formulae.

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Management of adverse events:

Table 4: Dose Modification of riTUXimab based on Adverse Events

Adverse reactions	Recommended dose modification
Severe infusion related reaction (e.g. dyspnoea, bronchospasm, hypotension or hypoxia)	
First occurrence	Interrupt infusion immediately. Evaluate for cytokine release/tumour lysis syndrome (appropriate laboratory tests) and pulmonary 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 coverage with steroids for those who are not already receiving steroids. Consider discontinuing treatment.
Mild or moderate infusion-related reaction	Reduce rate of infusion. The infusion rate may be increased upon improvement of symptoms.

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

riTUXimab: Minimal (Refer to local policy).
Etoposide: Low (Refer to local policy).
CARBOplatin: High (Refer to local policy).
Ifosfamide: High (Refer to local policy).

Consider increased risk of ifosfamide-induced neurotoxicity due to inhibition of CYP3A4 by aprepitant.

PREMEDICATIONS:

Premedication consisting of an anti-pyretic and an anti-histamine should always be administered before each infusion of riTUXimab. Consider the inclusion of a glucocorticoid in patients not receiving glucocorticoid containing chemotherapy.

Table 5: 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
Hydrocortisone	100mg	IV bolus 60 minutes prior to riTUXimab infusion

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OTHER SUPPORTIVE CARE:

- Proton pump inhibitor (Refer to local policy)
- Tumour lysis syndrome prophylaxis (Refer to local policy)
- PJP prophylaxis (Refer to local policy)
- Mouth care (Refer to local policy)
- Anti-viral prophylaxis (Refer to local policy)
- Anti-fungal prophylaxis (Refer to local policy)

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS:

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

- **Ifosfamide-induced encephalopathy:** This may occur in patients treated with high doses of ifosfamide.
 - Consider risk factors for ifosfamide induced encephalopathy (renal insufficiency, low serum albumin, large pelvic mass).
 - Methylene blue, dexmedetomidine (a sympathetic blocker) or thiamine may be a treatment option for the prevention and management of ifosfamide-associated encephalopathy (Refer to local policy).
- Renal and urothelial toxicity: Ifosfamide is both nephrotoxic and urotoxic. For prophylaxis of hemorrhagic cystitis, ifosfamide should be used in combination with mesna. Ifosfamide should be used with caution, if at all, in patients with active urinary tract infections.
- Hepatitis B Reactivation: All lymphoma 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.

Please Refer to NCCP Regimen 00542 riTUXimab 375mg/m² Combination Therapy-21 day and NCCP Regimen 00261 CARBOplatin (AUC 4-6) Monotherapy-21 days for detailed information on Adverse Reactions/Regimen Specific Complications associated with riTUXimab and CARBOplatin therapy.

DRUG INTERACTIONS:

- Avoid concurrent use of CARBOplatin and ifosfamide with nephrotoxic drugs (e.g. aminoglycosides, NSAIDS) due to additive nephrotoxicity. If necessary monitor renal function closely.
- Consider increased risk of ifosfamide-induced neurotoxicity due to inhibition of CYP3A4 by aprepitant.
- Avoid concurrent use of CARBOplatin with ototoxic drugs (e.g. aminoglycosides, NSAIDS). When necessary perform regular audiometric testing.
- Current drug interaction databases should be consulted for more information e.g. interaction potential with CYP3A4 inhibitors / inducers.

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Version	Date	Amendment	Approved By
1 02/11/2022	02/11/2022	22	NCCP Lymphoid Clinical
		Advisory Group	

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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ⁱ The 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.