



## **Escalated Dose BEACOPDAC 21 Day Therapy**

## **INDICATIONS FOR USE:**

INDICATION	ICD10	Regimen Code	HSE approved reimbursement status*
Treatment of patients with high risk, advanced stage Hodgkin	C81	00837a	N/A
Lymphoma (IPS ≥ 3)			
Escalation of treatment of patients with Hodgkin Lymphoma after	C81	00837b	N/A
failure to reach complete metabolic response post 2 cycles of ABVD			

<sup>\*</sup>For post 2012 indications

## 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 patient's individual clinical circumstances.

The treatment is administered every 21 days for 4 cycles or until disease progression or unacceptable toxicity develops, whichever is first. This can be increased to 6 cycles at the consultant's discretion. Facilities to treat anaphylaxis MUST be present when systemic anti-cancer therapy (SACT) is administered.

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 1 of 9

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Day	Drug	Dose	Route	Diluent and Rate
1	<sup>a</sup> cycloPHOSphamide	1250mg/m <sup>2</sup>	IV infusion	250mL NaCl 0.9% over 30 minutes
1	<sup>b</sup> DOXOrubicin	35mg/m <sup>2</sup>	IV Bolus	Slow IV bolus over 15 minutes with NaCl 0.9%
1,2,3	<sup>c</sup> Etoposide	200mg/m <sup>2</sup>	IV infusion	1000mL NaCl 0.9% over 2 hours
2,3	<sup>d</sup> Dacarbazine	250mg/m <sup>2</sup> once daily	IV infusion	250mL NaCl 0.9% over 30 minutes
8	<sup>e</sup> vinCRIStine	1.4mg/m <sup>2</sup> (cap at 2mg)	IV infusion	50mL NaCl 0.9% over 15 minutes
8	<sup>f</sup> Bleomycin	10,000 International units/m <sup>2</sup>	IV Bolus	Into the side arm of a fast-running NaCl 0.9% infusion
1-14	<sup>g</sup> prednisoLONE	40mg/m <sup>2</sup> once daily	РО	
9-13 approx	G-CSF (Round to nearest whole syringe)	5 micrograms/kg	SC	until ANC >1x10 <sup>9</sup> /L for 3 days

<sup>a</sup>Consideration could be given to the administration of MESNA 250mg/m<sup>2</sup> IV at T0, T+4 hours and T+8 hours after administration of the cyclophosphamide at the discretion of the prescribing consultant.

<sup>b</sup>Lifetime cumulative dose of DOXOrubicin is 450mg/m<sup>2</sup>. In establishing the maximal cumulative dose of an anthracycline, consideration should be given to the risk factors outlined below<sup>i</sup> and to the age of the patient.

<sup>c</sup>The etoposide 200mg/m<sup>2</sup> dose may need to be split into two 1000mL bags for stability reasons. These should be administered sequentially.

<sup>d</sup>Dacarbazine is sensitive to light exposure. All reconstituted solutions should be suitably protected from light also during administration (light-resistant infusion set).

<sup>e</sup>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 <u>Available on the NCCP website</u>.

<sup>f</sup>The total cumulative dose of bleomycin should NOT exceed 400,000 international units.

The risk of pulmonary toxicity increases beyond a cumulative dose of 300,000 international units. Check the cumulative dose prior to each treatment. Bleomycin dosing should only be expressed in terms of international units.

<sup>g</sup>Alternative steroid regimens with tapering doses may be used at consultant discretion, **e.g.** 60mg od for 14 days, 40mg od for 2 days, 20mg od for 2 days, 15mg od for 1 day, 10mg od for 1 day, 5mg od for 1 day-,then, stop (21 days in total). prednisoLONE is taken as a single daily dose in the morning.

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

### **ELIGIBILITY:**

- Indications as above
- ECOG status 0-2

## **CAUTIONS:**

Patients ≥60 years should be treated at the discretion of the prescribing Consultant

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Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 2 of 9

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### **EXCLUSIONS:**

- Hypersensitivity to cycloPHOSphamide, DOXOrubicin, etoposide, vinCRIStine, bleomycin dacarbazine, prednisoLONE or any of the excipients.
- Bleomycin is contraindicated in patients with acute pulmonary infection or chest X rays suggesting diffuse fibrotic changes or impaired lung function
- Severe liver or kidney impairment
- Leucopenia and/or thrombocytopenia
- 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.

### **TESTS:**

#### Baseline tests:

- FBC, renal and liver profile
- ECG
- Cardiac function using MUGA or ECHO (LVEF > 50% required to administer doxorubicin) if clinically indicated (e.g. smoking history, hypertension).
- Pulmonary function tests (PFTs) prior to bleomycin
- Virology screen\* Serology for Hepatitis B virus (HBV), [HBV sAg, HBV sAb, HBV cAb], Hepatitis C virus (HCV), human immunodeficiency virus (HIV), cytomegalovirus (CMV) [IgG] and Epstein— Barr virus (EBV)
  - \*See Regimen Specific Complications re Hepatitis B Reactivation

### Regular tests:

- FBC, renal and liver profile prior to each cycle on day 1
- Chest x-ray +/- PFTs, as clinically indicated
- MUGA, ECHO as clinically indicated
- Assessment of peripheral neuropathy status prior to each cycle

### 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:**

- Full dose intensity should be maintained where possible.
- Dose modification should only be carried out following discussion and approval by the consultant.

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 3 of 9

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a>





## Haematological:

Table 1: Haematological criteria to proceed with next cycle of treatment

	<u> </u>			
	ANC		Platelets	Recommendation
Day 1	>1.0 X 10 <sup>9</sup> /L	and	> 80 X 10 <sup>9</sup> /L	Cycle proceeds

- If these values are not reached on day 1 of the next scheduled cycle of treatment, therapy is deferred and FBC should be checked again after 3, 7, 10 and 14 days or until blood count recovery.
- Bleomycin and vinCRIStine should be administered on schedule and at full dose even if leucopenia is observed on day 8.

## Dose modifications (De-escalation as per HD15 protocol, Engert et al)

There is a predefined scheme for dose de-escalation for BEACOPDAC Escalated Therapy.

Ensure to discuss with consultant prior to implementing dose modifications as dose intensity should be maintained where possible.

- The dose in all subsequent cycles will be reduced by one dose level should one or more toxic events occur in a given cycle (see Table 2 below).
- If any toxic event occurs in 2 successive cycles, the subsequent cycle is administered at baseline dose.
- Once dose levels have been reduced, they are not re-escalated for subsequent cycles.

Consider requirement for dose reduction (as per Table 2 below) for the following toxic events. Toxic events include:

- Grade 4 neutropenia or thrombocytopenia
- o Grade 4 leucopenia for more than 4 days (White cell count < 1 x 109/L)
- Other grade 4 toxicity

Table 2: Dose reduction levels for Escalated BEACOPDAC

Level	Cyclophosphamide (Day 1)	DOXOrubicin (Day 1)	Etoposide (Day 1-3)
*4	1250 mg/m <sup>2</sup>	35 mg/m <sup>2</sup>	200 mg/m <sup>2</sup>
3	1100 mg/m <sup>2</sup>	35 mg/m <sup>2</sup>	175 mg/m <sup>2</sup>
2	950 mg/m <sup>2</sup>	35 mg/m <sup>2</sup>	150 mg/m <sup>2</sup>
1	800 mg/m <sup>2</sup>	35 mg/m <sup>2</sup>	125 mg/m <sup>2</sup>
Baseline	650 mg/m <sup>2</sup>	25 mg/m <sup>2</sup>	100 mg/m <sup>2</sup>

<sup>\*</sup>Starting Level

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Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 4 of 9

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## **Renal and Hepatic Impairment:**

Table 3: Recommended dose modifications based on renal and hepatic impairment

Drug	Renal Impairment		Hepatic Impairment	
cycloPHOSphamide	CrCl (mL/min)	Dose		no need for dose adjustment is
	≥30	No dose	expected.	•
		adjustment is		
		needed	Severe: not recommended, due to risk of reduc	
	10-29	Consider 75%	efficacy	
	10 25	of the original		
		dose		
	<10	Not		
	110	recommended,		
		if unavoidable		
		consider 50%		
		of the original		
		dose		
	Haemodialysis	Not		
	Tiacinoalarysis	recommended,		
		if unavoidable		
		consider 50%		
		of the original		
		dose		
Bleomycin	CrCl (mL/min)	Dose	No need for dose adjustment is expected	
,	>50	No dose	,	·
		adjustment is		
		needed		
	10-50	75% of the		
		original dose		
	<10	50% of the		
		original dose		
	Haemodialysis	50% of the		
	,	original dose		
		may be		
		considered		
DOXOrubicin	CrCl (mL/min)	Dose	Bilirubin	Dose
			(micromol/L)	
	>10	No dose	20-50	50% of the original dose
		adjustment is		
		needed		
	<10	No need for	51-86	25% of the original dose
		dose		
		adjustment is		
		expected		
	Haemodialysis	75% of the	>86 or Child-Pugh C	Not recommended
		original dose		
		may be		
		considered		

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 5 of 9

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Etoposide	CrCl (mL/min)	Dose	Bilirubin < 50 μmol/L <b>and</b> normal albumin <b>and</b> normal
	>50	No dose	renal function: no need for dose adjustment is expected
		adjustment is	
		needed	Bilirubin ≥ 50 μmol/L <b>or</b> decreased albumin levels:
	10-50	75% of the	consider 50% of the dose, increase if tolerated
		original dose,	
		increase if	
		tolerated	
	Haemodialysis	Not dialysed,	
		consider 75%	
		of the original dose	
Dacarbazine	CrCl (mL/min)	Dose	Can be hepatotoxic.
Dacarbazine		Dose	Consider dose reduction.
	45-60	80%	consider dose reduction.
	30-45	75%	
	<30	70%	
vinCRIStine	Renal impairmen	t: no need for	Bilirubin > 51 μmol/l: 50% of original dose
	dose adjustment	is expected	
	Haemodialysis: n	o need for dose	
adjustment is expected			
cycloPHOSphamide, bleomycin, DOXOrubicin, etoposide, vinCRIStine – renal and hepatic: Giraud et al 2023			
Dacarbazine - Renal and hepatic: North London Cancer Network 2009			

## **Neurotoxicity:**

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

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

## **SUPPORTIVE CARE:**

## **EMETOGENIC POTENTIAL:**

As outlined in NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting - <u>Available on the NCCP website</u>

cycloPHOSphamide/DOXOrubicin: High (Refer to local policy)
Etoposide: Low (Refer to local policy)
Dacarbazine High (Refer to local policy)
vinCRIStine Minimal (Refer to local policy)
Bleomycin Minimal (Refer to local policy)

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 6 of 9

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Within NCIS regimens, antiemetics have been standardised by Medical Oncologists and Haemato-oncologists and information is available in the following documents:

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

### **PREMEDICATIONS:**

None usually required

### **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
- All patients should receive irradiated blood products Refer to local policy for notification procedure
- Consider referral for fertility preservation

## **ADVERSE EFFECTS:**

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

## **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:**

• Current SmPC and drug interaction databases should be consulted for information.

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 7 of 9

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NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 8 of 9

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Version	Date	Amendment	Approved By
1	20/05/2024		NCCP Lymphoid SACT CAG
1a	13/01/2025	Amended Table 2 heading.	NCCP
		Added links in emetogenic potential	
		section.	
2	07/05/2025	Regimen reviewed. Updated Tests (baseline	Dr. Derville O'Shea
		and regular). Updated adverse effects,	
		regimen specific complications and drug	
		interactions as per NCCP standardisation.	

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

NCCP Regimen: Escalated Dose BEACOPDAC 21-day Therapy	Published: 20/05/2024 Review: 07/05/2030	Version number: 2
Tumour Group: Lymphoma and Other Lymphoproliferative Disorders NCCP Regimen Code: 00837	IHS Contributor: Dr Derville O'Shea	Page 9 of 9

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<sup>&</sup>lt;sup>i</sup> Cardiotoxicity is a risk associated with anthracycline therapy that may be manifested by early (acute) or late (delayed) effects.