



<u>Daratumumab, Bortezomib, cycloPHOSphamide and dexAMETHasone (D-VCd) Therapy</u>

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	HSE Approved Reimbursement Status*
Daratumumab in combination with bortezomib,	E85	00779a	N/A
cycloPHOSphamide and dexAMETHasone (D-VCd) for the			
treatment of adult patients with newly diagnosed light chain			
(AL) amyloidosis.			

^{*}This is for post 2012 indications only

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.

The dosing schedule for daratumumab in combination with bortezomib, cycloPHOSphamide and dexAMETHasone is based on a 28 day cycle regimen as detailed in treatment table 1 below for a total of 6 cycles, followed by daratumumab monotherapy every 28 days until disease progression or unacceptable toxicity develops.

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

Table 1: Treatment table for daratumumab, bortezomib, cycloPHOSphamide and dexAMETHasone

Cycles 1 and 2

, = =					
Day	Drug	Dose	Route	Diluent and Rate	Cycle frequency
1 , 8, 15, 22	Daratumumab ^a	1800mg	SC	Over 3 to 5 minutes	28 days
1, 8, 15, 22	Bortezomib	1.3mg/m ²	SC (abdomen or thigh) ^{b,c}	n/a	28 days
1, 8, 15, 22	cycloPHOSphamide	300mg/m ² (Max 500mg)	PO ^d	n/a	28 days
1,2, 8, 9 15, 16, 22,23	dexAMETHasone ^e	20mg ^f	PO	n/a	28 days

Cycles 3 - 6

Day	Drug	Dose	Route	Diluent and Rate	Cycle frequency
1, 15	Daratumumab ^a	1800mg	SC	Over 3 to 5 minutes	28 days
1, 8, 15, 22	Bortezomib	1.3mg/m ²	SC (abdomen or thigh) b,c	n/a	28 days
1, 8, 15, 22	cycloPHOSphamide	300mg/m² (Max dose 500mg)	PO ^d	n/a	28 days
1, 2, 15, 16	dexAMETHasone ^e	20mg ^f	PO	n/a	28 days
8, 22	dexAMETHasone ^e	40mg ^f	PO	n/a	28 days

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Cycle 7 onwards

Day	Drug	Dose	Route	Diluent and Rate	Cycle frequency	
1	Daratumumab ^a	1800mg	SC	Over 3 to 5 minutes	28 days	

- ^a If a planned dose of daratumumab is missed, the dose should be administered as soon as possible and the dosing schedule should be adjusted accordingly, maintaining the treatment interval.
- ^b Note: In individual cases where approved by Consultant, bortezomib may be administered as IV bolus over 3-5 seconds through a peripheral or central intravenous catheter followed by a flush with 0.9% NaCl. Note the concentration of bortezomib solution should be 1mg/ml when administered via the IV route.
- ^c The solution should be injected subcutaneously, at a 45-90° angle. Injection sites should be rotated for successive injections. If local injection site reactions occur, either a less concentrated solution may be administered SC or a switch to intravenous injection is recommended. At least 72 hours should elapse between consecutive doses of bortezomib. Bortezomib is a proteasome inhibitor and is neurotoxic. **Refer to NCCP Guidance on the Safe Use of Neurotoxic drugs (including Vinca Alkaloids) in the treatment of cancer** <u>Here</u>
- ^d May also be administered via the IV route. cycloPHOSphamide is available as 50mg tablets. They should be swallowed with sufficient fluid without chewing. The tablets should not be divided before use.
- eAdditional background corticosteroids should not be given on daratumumab dosing days when the patient has received dexAMETHasone as a pre-medication.
- On the days of daratumumab administration the scheduled dose of dexAMETHasone is administered as a premedication prior to dosing rather than taken by the patient at home.
- ^f A reduced dose of 20 mg/week may be considered for patients >70 years, for patients with a Body Mass Index (weight in kg divided by the square of the height in metres) <18.5 and for patients with poorly controlled diabetes mellitus or prior intolerance/adverse event to steroid therapy.
- Consideration should be given to the recommendation for the administration of an oral corticosteroid (20 mg methylprednisolone or equivalent dose of a corticosteroid in accordance with local policy) the day after the daratumumab dose for the prevention of delayed infusion related reactions (IRRs).

Table 2: Dosing schedule for cycle 1-2

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Daratumumab	√							✓							✓							√	
Bortezomib	√							✓							✓							√	
cycloPHOSphamide	√							✓							✓							√	
dexAMETHasone 20mg	√	√						✓	✓						✓	√						✓	√

Table 3: Dosing schedule for cycle 3-6

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Daratumumab	✓														✓								
Bortezomib	√							√							✓							✓	
cycloPHOSphamide	✓							✓							✓							✓	
dexAMETHasone 20mg	✓	√													√	√							
dexAMETHasone 40mg								✓														√	

ELIGIBILITY:

- Indication as above
- ECOG 0-2
- Patients with pre-existing severe neuropathy should be treated with bortezomib only after careful risk/benefit assessment. Caution should be exercised as further treatment may result in severe prolonged neuropathy

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EXCLUSIONS:

- Hypersensitivity to daratumumab, bortezomib, cycloPHOSphamide, dexAMETHasone or any of the excipients
- Refractory to bortezomib or other proteasome inhibitor
- Pregnancy, breast feeding
- Severe uncontrolled asthma/obstructive airways disease

PRESCRIPTIVE AUTHORITY:

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

TESTS:

Baseline tests:

- FBC, renal, liver and bone profile
- Uric acid
- Urine pregnancy testing for pre-menopausal women < 55 years
- Send a "group and save" sample to transfusion and inform patient and transfusion laboratory
 that patient is due to commence daratumumab. Patient will require red cell phenotyping as
 cross match fails due to binding of daratumumab to red cells.
- Virology screen EBV, CMV, Hepatitis B (HBsAg, HBcoreAb) & C, HIV *See Adverse
 Effects/Regimen Specific Complications re Hepatitis B Reactivation
- Blood pressure, blood glucose* if being treated with oral hypoglycaemics (*See Drug Interactions)
- Assessment of peripheral neuropathy status

Regular tests:

- FBC; monitor platelet count at a minimum of day 1 and day 8 each cycle.
- Renal, liver and bone profile
- Blood pressure, blood glucose* if being treated with oral hypoglycaemics (*See Drug Interactions)
- Assessment of peripheral neuropathy status

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.
- No dose reductions of daratumumab are recommended. Dose delay may be required to allow recovery of blood cell counts in the event of haematological toxicity
- Dose modifications for bortezomib and cycloPHOSphamide are permitted for the management of toxicities. Table 4 outlines the dose reduction steps for bortezomib
- Does modifications for the management of toxicities induced by daratumumab, bortezomib and cycloPHOSphamide are outlined in Tables 5-8

Table 4: Dose reduction steps for bortezomib

Dose Level	Dose
Starting dose	1.3mg/m ²
Dose level 1	1.0mg/m ²
Dose level 2	0.7mg/m ²
Dose level 3	Discontinue

Haematological:

Table 5: Dose modification of daratumumab, bortezomib and cycloPHOSphamide for haematological toxicity

Drug	ANC (x10 ⁹ /L)		Platelets (x10 ⁹ /L)		Dose Modification
Daratumumab	≥0.5-1	or	≥25-50	With bleeding	Consider withholding treatment until symptoms of the toxicity have resolved
	<0.5	or	<25		Consider withholding treatment until symptoms of the toxicity have resolved
Bortezomib	<0.5	or	<25		Withhold treatment until symptoms of the toxicity have resolved. Treatment may be reinitiated at the next lower dose level If the toxicity is not resolved or if it recurs at the lowest dose, discontinuation of bortezomib must be considered unless the benefit of treatment clearly outweighs the risk
cycloPHOSphamide	>1.5	and	>100		100% dose
	1.0 – 1.5	Or	50 – 100		50% dose
	< 1.0	Or	<50		Dose should be held

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Renal and Hepatic Impairment:

Table 6: Recommended dose modifications for renal and hepatic impairment

Drug	Renal impairmen	nt	Hepatic imp	airment		
Daratumumab	Renal impairmen is needed Haemodialysis: nadjustment is exp		Hepatic imp	airment: no dos	se adjustn	nent is needed
Bortezomib	-	enal impairment: no dose adjustment		Bilirubin level	AST level	Dose modification
			Mild	≤1 x ULN	> ULN	None
		o dose adjustment is er after haemodialysis		>1-1.5xULN	Any	None
	necueu, auriinist	er arter flaciflodiarysis	Moderate	>1.5-3xULN	Any	Reduce dose
			Severe	>3xULN	Any	in the first treatment cycle. Consider dose escalation to 1mg/m² or further dose reduction to 0.5mg/m² in subsequent cycles based on patient tolerability.
cycloPHOSphamide	CrCl/min	Dose	Mild and mo	oderate: no nee	d for dose	e adjustment is
	≥30 10-29	No dose adjustment needed Consider 75% of original dose	expected. Severe: not efficacy	recommended,	ecommended, due to risk of redu	
	<10	Not recommended, if unavoidable consider 50% of original dose				
Daratumumab: Renal a	Haemodialysis nd hepatic – Giraud e	Not recommended, if unavoidable consider 50% of original dose				

Daratumumab: Renal and hepatic – Giraud et al 2023 Bortezomib: Renal – Giraud at al 2023, hepatic – SPC cycloPHOSphamide: Renal and hepatic – Giraud et al 2023

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^{*}Based on NCI Organ Dysfunction Working Group classification for categorizing hepatic impairment (mild, moderate, severe)





Neuropathic pain and/or peripheral neuropathy:

Table 7: Recommended dose modifications of bortezomib for neuropathy

Drug	Severity of neuropathy	Dose Modification
Bortezomib	Grade 1(asymptomatic; loss of deep tendon reflexes or paresthesia) with no pain or loss of function.	None
	Grade 1 with pain or Grade 2 (moderate symptoms; limiting instrumental Activities of Daily Living (ADL)).	Reduce dose to 1 mg/m ²
	Grade 2 with pain or Grade 3 (severe symptoms; limiting self-care ADL)	Withhold treatment until symptoms of toxicity have resolved. When toxicity resolves re-initiate treatment and reduce dose to 0.7mg/m² once every week
	Grade 4 (life-threatening consequences; urgent intervention indicated) and/or severe autonomic neuropathy.	Discontinue treatment

Dose reductions for other toxicities:

Table 8: Dose modification schedule of bortezomib and cycloPHOSphamide based on adverse events

Drug	Adverse reactions	
		Recommended dose modification
Bortezomib	Grade ≥3 Non-	Withhold bortezomib until symptoms
	haematological toxicity	resolved to Grade 1 or baseline then
		reinitiate with one dose level reduction from
		1.3mg/m ² to 1 mg/m ² or from 1mg/m ² to
		0.7mg/m ²
		If the toxicity is not resolved or if it recurs at
		the lowest dose, discontinuation of
		bortezomib must be considered unless the
		benefit of treatment clearly outweighs the
		risk.
	New or worsening	Withhold treatment. Prompt diagnostic
	pulmonary symptoms (e.g.	evaluation required and benefit/risk ratio
	cough, dyspnoea)	should be considered prior to continuing
		bortezomib therapy.
	Posterior Reversible	Discontinue bortezomib
	Encephalopathy Syndrome	
	(PRES)	
cycloPHOSphamide	Cystitis	Withhold toxicity and resume when the
	• Grade ≥2	toxicity resolves to Grade 1 or lower.

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SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

Daratumumab: Minimal (Refer to local policy).

Bortezomib: Low (Refer to local policy).

cycloPHOSphamide: Moderate (Refer to local policy).

PRE AND POST INJECTION MEDICATIONS:

- Pre-dose medications consisting of corticosteroid, anti-pyretic and anti-histamines should be administered to reduce the risk of IRRs to all patients 1-3 hours prior to every dose of daratumumab as suggested in table 9
- When dexAMETHasone is the background-regimen specific corticosteroid, the dexAMETHasone
 treatment dose will instead serve as pre-medication on daratumumab dosing days. Additional
 background regimen specific corticosteroids (e.g. prednisone) should not be taken on
 daratumumab dosing days when patients have received dexAMETHasone as a pre-medication
- Consider use of montelukast 10mg PO 60 minutes pre-daratumumab before the first dose only to reduce the incidence of infusion-related reactions
- See other supportive care section for recommended post-infusion medications

Table 9: Suggested medications for pre and post daratumumab administration

Day	Drugs	Dose	Route	Timing	Cycle
1,2 8,9, 15 16, 22, 23	dexAMETHasone	Refer to Table 1: Treatment table for daratumumab, bortezomib, cycloPHOSphamide and		Cycles 1-2	
1,2 ,15 16	dexAMETHasone	dexAMET	Hasone		Cycles 3-6
1	dexAMETHasone	12mg	РО	1-3 hours prior to daratumumab injection	Cycle 7 onwards
2, 3	dexAMETHasone	4mg	РО		Cycle 7 onwards
1, 8, 15, 22	Paracetamol	1g	РО	1-3 hours prior to daratumumab injection	Cycle 1-2
1, 15	Paracetamol	1g	РО	1-3 hours prior to daratumumab injection	Cycles 3-6
1	Paracetamol	1g	РО	1-3 hours prior to daratumumab injection	Cycle 7 onwards
1, 8, 15, 22	Chlorphenamineb	4mg	РО	1-3 hours prior to daratumumab injection	Cycle 1-2
1, 15	Chlorphenamineb	4mg	РО	1-3 hours prior to daratumumab injection	Cycle 3-6
1	Chlorphenamineb	4mg	РО	1-3 hours prior to daratumumab injection	Cycle 7 onwards

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^a Note. On the days of daratumumab administration, the scheduled treatment dose of dexAMETHasone will be administered as a premedication prior to infusion

^bOr equivalent oral or intravenous antihistamine

OTHER SUPPORTIVE CARE:

- Anti-viral prophylaxis should be considered for the prevention of herpes zoster virus reactivation (Refer to local policy)
- Bisphosphonates should be considered in all patients with related bone disease
- Tumour lysis syndrome prophylaxis (Refer to local policy)
- H2 antagonist or proton pump inhibitor (Refer to local policy)
- Consider PJP prophylaxis (Refer to local policy)
- Influenza vaccination in appropriate patients
- Women of child-bearing potential should use effective contraception during, and for 3 months after cessation of daratumumab treatment
- Recommended post-injection medications for patients with a history of obstructive pulmonary disorder:
 - The use of post-injection medications including short and long acting bronchodilators, and inhaled corticosteroids should be considered. Following the first four infusions, if the patient experiences no major IRRs, these inhaled post-infusion medications may be discontinued at the discretion of the physician

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS:

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

Daratumumab

- **Infusion-related reactions**: Infusion-related reactions (IRRs) were reported in approximately half of all patients treated with daratumumab.
- Interference with Indirect Antiglobulin Test (Indirect Coombs Test): Daratumumab binds to CD38 found at low levels on red blood cells (RBCs) and may result in a positive indirect Coombs test. Daratumumab mediated positive indirect Coombs test may persist for up to 6 months after the last daratumumab infusion. It should be recognised that daratumumab bound to RBCs may mask detection of antibodies to minor antigens in the patient's serum. The determination of a patient's ABO and Rh blood type are not impacted. Patients should be typed and screened prior to starting daratumumab treatment. Phenotyping may be considered prior to starting daratumumab treatment as per local practice. Red blood cell genotyping is not impacted by daratumumab and may be performed at any time. In the event of a planned transfusion blood transfusion centres should be notified of this interference with indirect antiglobulin tests. If an emergency transfusion is required, non-cross-matched ABO/RhDcompatible RBCs can be given per local blood bank practices.
- Interference with determination of Complete Response: Daratumumab is a human IgG kappa monoclonal antibody that can be detected on both the serum protein electrophoresis (SPE) and immunofixation (IFE) assays used for the clinical monitoring of endogenous M-protein. This

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interference can impact the determination of complete response and of disease progression in some patients with IgG kappa myeloma protein

- O Consider use of daratumumab-specific IFE reflex assay (DIRA) to distinguish the therapeutic from the patient's M protein. The DIRA assay can be used to determine whether additional testing, including determination of the sFLC ratio and BM evaluation, is warranted in patients with IgG-κ band and low measurable M protein (≤2 g/L) to assess the presence of (stringent) CR
- Hepatitis B Reactivation: Hepatitis B virus reactivation, in some cases fatal, has been reported in patients treated with daratumumab. HBV screening should be performed in all patients before initiation of treatment with daratumumab. For patients with evidence of positive HBV serology, monitor for clinical and laboratory signs of HBV reactivation during, and for at least six months following the end of daratumumab treatment. Manage patients according to current clinical guidelines. Consider consulting a hepatitis disease expert as clinically indicated. In patients who develop reactivation of HBV while on daratumumab, suspend treatment with daratumumab and institute appropriate treatment. Resumption of daratumumab treatment in patients whose HBV reactivation is adequately controlled should be discussed with physicians with expertise in managing HBV

Bortezomib and cycloPHOSphamide

• **Neutropenia:** Fever or other evidence of infection must be assessed promptly and treated appropriately

Bortezomib

- **Peripheral Neuropathy:** Patients with pre-existing severe neuropathy may be treated with bortezomib only after careful risk/benefit assessment.
- **Hypotension:** Treatment is commonly associated with orthostatic/postural hypotension
- **Hepatic Impairment;** Bortezomib is metabolised by liver enzymes. Bortezomib exposure is increased in patients with moderate or severe hepatic impairment; these patients should be treated with bortezomib at reduced doses and closely monitored for toxicities.
- Haematological toxicity: Gastrointestinal and intracerebral haemorrhage have been reported in association with bortezomib treatment. Therefore platelet counts should be monitored prior to each dose of bortezomib and bortezomib should be withheld when the platelet count is < 25 x 10⁹ /L.
- **Seizures**: Seizures have been uncommonly reported in patients without previous history of seizures or epilepsy. Special care is required when treating patients with any risk factors for seizures.
- **Posterior Reversible Encephalopathy Syndrome (PRES):** In patients developing PRES, treatment with bortezomib should be discontinued.
- **Heart Failure:** Acute development or exacerbation of congestive heart failure, and/or new onset of decreased left ventricular ejection fraction has been reported during bortezomib treatment. Patients with risk factors for or existing heart disease should be closely monitored.
- Renal Impairment: Patients with renal impairment should be monitored closely.

cycloPHOSphamide

Haemorrhagic cystitis: Ensure patient is well hydrated.

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dexAMETHasone

• **Steroid use:** Steroid use is associated with numerous side effects including insomnia, gastric irritation, increased blood sugar levels, mood changes, increased appetite, bruising, skin fragility and osteoporosis (long term use).

DRUG INTERACTIONS:

- No interaction studies have been performed with daratumumab.
- Additive hypotensive effect with anti-hypertensives and bortezomib. Blood pressure should be monitored and ensure patient is well hydrated prior to bortezomib dose. Adjustment of anti-hypertensives may be required.
- During clinical trials, hypoglycemia was uncommonly reported and hyperglycemia commonly reported in diabetic patients receiving oral hypoglycemics. Patients on oral anti-diabetic agents receiving bortezomib treatment may require close monitoring of their blood glucose levels and adjustment of the dose of their anti-diabetic medications.
- Patients should be closely monitored when given bortezomib in combination with potent CYP3A4-inhibitors. Caution should be exercised when bortezomib is combined with CYP3A4- or CYP2C19 substrates.
- CYP3A-inhibitors also decrease the conversion of cycloPHOSphamide to both its active and inactive metabolites. Patients should also be counselled with regard to consumption of grapefruit juice.
- CYP3A-inducers increase the conversion of cycloPHOSphamide to both its active and inactive metabolites.
- Current drug interaction databases should be consulted for more information.

COMPANY SUPPORT RESOURCES/Useful Links:

Please note that this is for information only and does not constitute endorsement by the NCCP

Educational materials- HCP

HCP card

https://www.hpra.ie/img/uploaded/swedocuments/fdc060ab-a3f9-4b54-a125-711db53e63a4.pdf Blood bank card

https://www.hpra.ie/img/uploaded/swedocuments/6c0b4305-1ec7-421b-8037-a07a93f7a5a9.pdf

Educational materials – patient:

Patient card

https://www.hpra.ie/imq/uploaded/swedocuments/595cba0f-1112-4955-a62a-d817fe1b0a14.pdf

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Version	Date	Amendment	Approved By
1	02/05/2024		NCCP Plasma Cell Disorders CAG

Comments and feedback welcome at oncologydrugs@cancercontrol.ie

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