



# Cyclophosphamide, Bortezomib and Dexamethasone (CyBorD) 21-Day Therapy

# **INDICATIONS FOR USE:**

		Regimen	Reimbursement
INDICATION	ICD10	Code	Status
Treatment of newly diagnosed symptomatic multiple myeloma <sup>i</sup>	C90	00273a	Hospital
Treatment of relapsed/refractory multiple myelomai	C90	00273b	Hospital

# **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 consists of four 3-week cycles of bortezomib administered on days 1, 4, 8, and 11; dexamethasone 40 mg on days 1, 4, 8, and 11; plus cyclophosphamide administered orally on days 1, 8, and 15 or until disease progression or unacceptable toxicity occurs.

\*The dexa methasone dose may alternatively be administered as 20 mg on the day of and day after bortezomib (days 1, 2, 4, 5, 8, 9, 11 and 12) as per Kropff et al. 2007.

#### Table 1 Regimen Treatment Table

Day	Drug	Dose	Route	Cycles	
1,4,8,11	<sup>a, b</sup> Bortezomi b	1.3mg/m <sup>2</sup>	<sup>c, d</sup> SC (abdomen or thig		
1, 8,15	Cyclophosphamide	°300mg/m² once daily	РО	4 cycles of 21 days	
1,4,8,11	Dexamethasone	40mg once daily	fPO	4 cycles of 21 days	
<sup>b</sup> Bortezomib is		consecutive doses of bortezomib. d is neurotoxic. Refer to <u>NCCP Guidance on t</u> <u>r</u> .	ne Safe Use of Neurotoxic d	rugs (including	
peripheral or c be 1mg/ml whe d The solution	entral intravenous catheter en administered via the IV r should be injected subcutar	neously, at a 45-90° angle. Injection sites sho	e concentration of bortezon uld be rotated for successiv	hib solution should e injections. If	
recommended <sup>e</sup> Cyclophospha not be divided	local injection site reactions occur, either a less concentrated solution may be administered SC or a switch to IV injection is recommended.         e Cyclophosphamide is available as 50mg tablets. They should be swallowed with sufficient fluid without chewing. The tablets sh ould not be divided before use.         Higher doses up to 500mg/m <sup>2</sup> of cyclophosphamide may be used (Kumar et al).				
<sup>f</sup> Dexamethasc and 12) as per Dose reduction	<sup>f</sup> Dexamethasone dose may alternatively be administered as 20 mg on the day of and day after bortezomib (days 1, 2, 4, 5, 8, 9, 11 and 12) as per Kropff et al. 2007. Dose reduction of dexamethasone to 20mg or 10mg may be considered in selected patients depending on co morbidities. Dexamethasone to be taken in the morning with food.				
-	VCCP Regimen: Cyclophosphamide, Bortezomib and Dexamethasone (CyBorD)Published: 05/04/2017 Review: 01/11/2026Version number: 3				
	Fumour Group: MyelomaIHS/ISMO Contributor:Page 1 of 8NCCP Regimen Code: 00273Dr Patrick Hayden, Dr John QuinnPage 1 of 8				
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# ELIGIBILITY:

- Indications 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

# EXCLUSIONS:

- Hypersensitivity to bortezomib, boron, dexamethasone or any of the excipients
- Acute diffuse infiltrative pulmonary and pericardial disease
- Pregnancy
- Lactation

# **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
- Blood pressure
- Blood glucose\* if being treated with oral hypoglycaemics (\*See Drug Interactions)
- Assessment of peripheral neuropathy status
- Virology screen Hepatitis B (HBsAg, HBcoreAb), hepatitis C, HIV \*See Adverse Effects/Regimen Specific Complications re Hepatitis B Reactivation

### Regular tests:

- FBC to be done minimum of day 1 and day 8 of each cycle
- Renal, liver and bone profile
- Blood pressure weekly
- Assessment of peripheral neuropathy status
- Blood glucose\* if being treated with oral hypoglycaemics (\*See Drug Interactions)

#### 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.

#### Haematological toxicities:

### Table 2: Dose Modification of Bortezomib and Cyclophosphamide for Haematological Toxicity

Prior to Starting a new cycle			
ANC(x10 <sup>9</sup> /L)		Platelets( x10 <sup>9</sup> /L)	Dose of Bortezomib and Cyclophosphamide
≥0.5	and	≥30	100% Dose
<0.5	or	<30	Consider delay until recovery checking FBC weekly; reduce dose of bortezomib to 1mg/m <sup>2</sup> . 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.
		During	g a cycle
ANC(x10 <sup>9</sup> /L)		Platelets( x10 <sup>9</sup> /L)	Dose of Bortezomib and Cyclophosphamide
<0.5	or	<30	Omit cyclophosphamide day 15. Withhold treatment with bortezomib until recovery of toxicity. Reinitiate treatment at a reduced dose of bortezomib (1.3 to 1mg/m <sup>2</sup> or 1mg/m <sup>2</sup> to 0.7mg/m <sup>2</sup> ) and consider dose reduction of cyclophosphamide. 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.

#### **Renal impairment:**

#### Table 3: Dose Modification of Bortezomib and Cyclophosphamide in Renal Impairment

Drug	Dose modification		
Bortezomib	It is unknown if the pharmacokinetics of bortezomib are influenced in patients with severe renal impairment not undergoing dialysis (CrCL < 20ml/min). Since dialysis may reduce bortezomib concentrations, it should be a dministered after the dialysis procedure.		
	CrCl ml/min	Dose modification	
	>20	100%	
Cyclophosphamide	10-20	75%	
	< 10	50%	
Clinical decision - consider whether patient is being treated with high dose treatr			

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### Hepatic impairment:

#### Table 4: Dose Modification of Bortezomib and Cyclophosphamide in Hepatic Impairment

Drug		Bilirubin	SGOT (AST)	
	Grade*	Level	levels	Modification of starting dose
Bortezomib	Mild	≤1 x ULN	>ULN	None
		>1 - 1.5 x ULN	Any	None
	Moderate Severe	>1.5 - 3 x ULN	Any	Reduce bortezomib to 0.7 mg/m <sup>2</sup> in the first treatment cycle. Consider dose escalation to 1.0 mg/m <sup>2</sup> or further dose reduction to 0.5 mg/m <sup>2</sup> in subsequent cycles based on patient tolerability.
	*Based on NCI Organ D moderate, severe). SGOT=serum glutamic			cation for categorising hepatic impairment (mild,
Cyclophosphamide	Severe impairment:	Clinical decision		

#### Neuropathic pain and/or peripheral neuropathy:

#### Table 5: Dose modifications for Bortezomib Related Neuropathy

Severity of neuropathy	Dose Modification
Grade 1 (asymptomatic; loss of deep tendon	None
reflexes or paresthesia) with no pain or loss of	
function	
Grade 1 with pain or Grade 2	Reduce dose to 1 mg/m <sup>2</sup>
	Or
	Change treatment schedule to 1.3 mg/m <sup>2</sup> once every week
	Withhold treatment until symptoms of toxicity have resolved.
Grade 2 with pain or Grade 3	When toxicity resolves re-initiate treatment and reduce dose to
	0.7mg/m <sup>2</sup> once every week.
Grade 4 and/or severe autonomic neuropathy	Discontinue treatment
Grade 1: Asymptomatic; clinical or diagnostic observat	ions only
Grade 2: Moderate symptoms; limiting instrumental A	ctivities of Daily Living (ADL)
Grade 3: Severe symptoms; limiting self-care ADL	
Grade 4: Life-threatening consequences; urgent interv	entionindicated
Grading based on NCI Common Toxicity Criteria CTCAE	v 4

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#### Dose reductions for other toxicities :

#### Table 6: Dose Modification of Bortezomib for Adverse Events

Adverse reactions	Recommended dose modification
Grade 3 Non-haematological toxicity	Withhold treatment until symptoms of the toxicity have resolved. Treatment may be reinitiated at a 25% reduced dose (1.3 mg/m <sup>2</sup> reduced to 1 mg/m <sup>2</sup> ; 1 mg/m <sup>2</sup> reduced to 0.7 mg/m <sup>2</sup> ). 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 pulmonary symptoms	Withhold treatment.
(e.g. cough, dyspnoea)	Prompt diagnostic evaluation required and benefit/risk ratio should be considered prior to continuing bortezomib therapy.
Posterior Reversible Encephalopathy Syndrome (PRES)	Discontinue treatment.

### **SUPPORTIVE CARE:**

### **EMETOGENIC POTENTIAL:**

Bortezomib:Low (Refer to local policy)Cyclophosphamide:Moderate to high (Refer to local policy)

**PREMEDICATIONS:** Not usually required. Ensure patient remains well hydrated during treatment.

#### **OTHER SUPPORTIVE CARE:**

- Bisphosphonates should be considered in all patients with myeloma related bone disease.
- H<sub>2</sub>-antagonist or PPI in patients receiving dexamethasone therapy (**Refer to local policy**).
- Low dose antiviral prophylaxis (Refer to local policy).
- Consider PJP prophylaxis (Refer to local policy).
- Tumour Lysis Syndrome 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.

#### Bortezomib:

• **Peripheral Neuropathy:** Patients with pre-existing severe neuropathy may be treated with bortezomib only after careful risk/benefit assessment.

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- **Hypotension**: Treatment is commonly associated with orthostatic/postural hypotension. A minority of patients with orthostatic hypotension experienced syncopal events. Caution is advised when treating patients with a history of syncope receiving medicinal products known to be associated with hypotension; or who are dehydrated due to recurrent diarrhoea or vomiting.
- **Gastrointestinal toxicity**: Gastrointestinal toxicity, including nausea, diarrhoea, vomiting and constipation are very common with bortezomib treatment.
- 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 10<sup>9</sup>/L. Potential benefit of treatment should be carefully weighed against the risks, particularly in case of moderate to severe thrombocytopenia and risk factors for bleeding. Complete blood counts with differential and including platelet counts should be frequently monitored throughout treatment with bortezomib. Platelet transfusion should be considered when clinically appropriate.
- **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.
- **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).
- 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.

### Cyclophosphamide

• Haemorrhagic cystitis: Ensure patient is well hydrated.

## **DRUG INTERACTIONS:**

- 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.

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- 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. Current drug interaction databases should be consulted for more information.
- 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.

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# NCCP Chemotherapy Regimen



Version	Date	Amendment	Approved By
1	05/04/2017		Dr Patrick Hayden Dr John Quinn
2	19/06/2019	Updated to new template. Updated recommendation on Hep B reactivation Updated dose modifications for haematological toxicity	Dr Patrick Hayden Dr John Quinn
3	01/11/2021	Reviewed. Amended treatment table. Updated exclusion criteria. Updated dose modification for hepatic impairment and for neuropathy. Updated emetogenic potential. Updated standard wording on Hep B reactivation. Updated adverse effects section to include gastrointestinal toxicity and haemorrhagic cystitis.	Dr Patrick Hayden Dr John Quinn

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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<sup>&</sup>lt;sup>i</sup> This is an unlicensed regimen for the use of bortezomib in Ireland. Patients 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" indication has been a cknowledged by the hospital's Drugs and Therapeutics Committee, or equivalent, in line with hospital policy