



<u>Carfilzomib (27mg/m² twice weekly), Lenalidomide and dexAMETHasone</u> (KRd) Therapy - 28 day

INDICATIONS FOR USE:

		Regimen	Reimbursement Status
INDICATION	ICD10	Code	
Carfilzomib, lenalidomide and dexAMETHasone therapy is indicated for	C90	00405a	ODMS
the treatment of adult patients with multiple myeloma who have			03/09/2018
received at least one prior therapy			

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.

Table 1: Carfilzomib in combination with lenalidomide and dexAMETHasone^a

						CYCLI	1				
	Week	1		Week	ι 2		Week 3	3		Week	4
DRUG	Day	Day	Days	Day	Day	Days	Day	Day	Days	Day	Days
	1	2	3-7	8	9	10-14	15	16	17-21	22	23-28
Carfilzomib (mg/m²) ^b	20	20		27	27		27	27			
dex (mg) ^c	40			40			40			40	
Lenalidomide ^d					25mg c	laily				Rest	Rest
						CYCLE 2	2-12				•
DRUG	Week	1		Week	ί 2		Week 3	3		Week	4
	Day	Day	Days	Day	Day	Days	Day	Day	Days	Day	Days
	1	2	3-7	8	9	10-14	15	16	17-21	22	23-28
Carfilzomib (mg/m²) ^b	27	27		27	27		27	27			
dex (mg) ^c	40			40			40			40	
Lenalidomided		I	I.		25mg c	laily			ı	Rest	Rest
						CLE 13 o	nwards				
DRUG	Week	1		Week	ι 2		Week 3	3		Week	4
	Day	Day	Days	Day	Day	Days	Day	Day	Days	Day	Days
	1	2	3-7	8	9	10-14	15	16	17-21	22	23-28
Carfilzomib (mg/m²)	27	27					27	27			
dex (mg) ^c	40			40			40			40	
Lenalidomided		ı	U		25mg c	laily				Rest	Rest
aInfusion time is 1	10 minu	tes and	remains c			•	regimen.	See tab	le 2 for fu	rther de	tails

alnfusion time is 10 minutes and remains consistent throughout the regimen. See table 2 for further details.

^dConsider appropriate dose reduction for the starting dose of lenalidomide according to current lenalidomide summary of product characteristics. This is especially important for patients with baseline renal impairment in whom excessive myelosuppression due to lenalidomide may occur

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^bPatients with a BSA greater than 2.2 m² should receive a dose based upon a BSA of 2.2 m². Dose adjustments do not need to be made for weight changes of less than or equal to 20%.

^cdexAMETHasone should be administered 30 minutes to four hours before carfilzomib.





- When combined with lenalidomide and dexAMETHasone, carfilzomib is administered on two consecutive days, each week for three weeks (days 1, 2, 8, 9, 15, and 16), followed by a 12-day rest period (days 17 to 28) as shown in table 1.
- Each 28-day period is considered one treatment cycle.
- Carfilzomib is administered at a starting dose of 20 mg/m² (maximum dose 44 mg), in cycle 1 on days 1 and 2.
- If tolerated, the dose should be increased on day 8 of cycle 1 to 27 mg/m² (maximum dose 60 mg).
- From cycle 13, carfilzomib is administered on days 1, 2, 15 and 16 only (day 8 and 9 doses of carfilzomib are omitted).
- Treatment may be continued until disease progression or until unacceptable toxicity occurs.
- Treatment with carfilzomib combined with lenalidomide and dexAMETHasone for longer than 18 cycles should be based on an individual benefit-risk assessment, as the data on the tolerability and toxicity of carfilzomib beyond 18 cycles are limited.

Administration guidelines:

dexAMETHasone and lenalidomide are both administered orally. Carfilzomib is administered as detailed in table 2 below.

Table 2: Administration details for carfilzomib

Cycle	Day	Drug	Dose	Route	Diluent and Rate		
1	1, 2	Carfilzomib	^a 20mg/m ²	IV infusion	100ml Glucose 5% ^c over 10 mins		
1	8, 9, 15,16	Carfilzomib	^b 27mg/m ²	IV infusion	100ml Glucose 5% ^c over 10 mins		
^a Maxim	^a Maximum dose of carfilzomib is 44mg						
bMaxim	bMaximum dose of carfilzomib is 60mg						
^c Carfilzo	^c Carfilzomib may be administered in 50-100ml Glucose 5% over 10 mins.						
Carfilzo	Carfilzomib is a proteasome inhibitor and is neurotoxic. Refer to NCCP Guidance on the Safe Use of Neurotoxic						
drugs (ii	ncluding Vinca A	Alkaloids) in the trea	drugs (including Vinca Alkaloids) in the treatment of cancer.				

ELIGIBILITY:

- Indication as above
- ECOG 0-2

EXCLUSIONS:

- Hypersensitivity to carfilzomib, lenalidomide or any of the excipients.
- Pregnancy.
- Breastfeeding
- Women of childbearing potential unless all the conditions of the Revlimid® Pregnancy Prevention Programme are met.

PRESCRIPTIVE AUTHORITY:

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

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TESTS:

Baseline tests:

- FBC, renal, liver and bone profile
- Blood pressure, blood glucose (patients on oral hypoglycaemics)
- Assessment of peripheral neuropathy status
- VTE risk assessment
- Pregnancy test in women of child-bearing age or evidence of a hysterectomy. Assessment and registration as per Pregnancy Prevention Program for both male and female patients.
- Virology screen -Hepatitis B (HBsAg, HBcoreAb), C and HIV
- *(Reference Adverse Events/Regimen Specific Complications for information on Hepatitis B reactivation)

Regular tests:

- FBC, renal and liver profile monthly.
- Blood pressure, *blood glucose if being treated with oral hypoglycaemics. (* See Drug Interactions)
- Pregnancy test every 28 days if female of childbearing potential.
- Consider monitoring thyroid function tests.

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
- Dose adjustments of carfilzomib do not need to be made for weight changes of less than or equal to 20% subject to local policy.
- Lenalidomide treatment must not be started if the ANC is < 1x 10⁹/L and/or platelets < 75 x 10⁹/L or dependent on bone marrow infiltration by plasma cells, platelet counts < 30 x 10⁹/L
- Dose level reductions for carfilzomib and lenalidomide are described in Table 3 below

Treatment guidelines for specific hematologic toxicities (thrombocytopenia and neutropenia) are outlined in Tables 4 and 5.

Table 3: Dose Level Reductions for Carfilzomib and Lenalidomide

	Carfilzomib	Lenalidomide
Starting Dose	27mg/m ²	25mg
Dose level -1	20mg/m ²	15mg
Dose level -2	^a 15mg/m ²	15mg every 48 hours
Dose level- 3		10mg
Dose level-4		5mg

^a If symptoms do not resolve, discontinue carfilzomib treatment

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Haematological:

Table 4: Dose Modifications for Thrombocytopenia

Platelets	Lenalidomide	Platelets	Carfilzomib
Fall to < 30 x 10 ⁹ /L	Hold lenalidomide therapy, follow FBC weekly. Hold prophylactic anticoagulation	If 10-30 x 10 ⁹ /L without evidence of bleeding	Maintain full dose
	until platelets return to ≥30x10 ⁹ /L then resume at 1dose decrement	If < 10 x 10 ⁹ /L or evidence of bleeding	Hold dose until platelets return to ≥ 10 x 10 ⁹ /L and/or bleeding is controlled then resume at same dose level
For each subsequent drop to < 30 x 10 ⁹ /L	Hold lenalidomide therapy, follow FBC weekly. Hold	If 10-30 x 10 ⁹ /L without evidence of bleeding	Maintain full dose
	prophylactic anticoagulation until platelets return to ≥30x10 ⁹ /L then resume at additional dose decrement. Do not dose below 5mg once daily	If < 10 x 10 ⁹ /L or evidence of bleeding	Hold dose until platelets return to ≥ 10 x 10 ⁹ /L and/or bleeding is controlled, then consider 1 dose level reduction when restarting carfilzomib.

Table 5: Dose Modifications for Neutropenia

ANC	Lenalidomide	ANC	Carfilzomib
Falls to	Hold lenalidomide therapy,	0.5-1.0 x 10 ⁹ /L	Maintain full dose
< 1.0 x 10 ⁹ /L	administer G-CSF, follow FBC weekly; then resume at full dose when ANC ≥ 1.0x10 ⁹ /L	< 0.5 x 10 ⁹ /L	Hold dose Resume at full dose when ANC ≥ 0.5 x 10 ⁹ /L
For each subsequent drop to <1.0 x 10 ⁹ /L	Hold lenalidomide therapy, administer G-CSF, follow	0.5-1.0 x 10 ⁹ /L	Maintain full dose
,,-	FBC weekly; then resume at 1 dose decrement when ANC ≥ 1.0x10 ⁹ /L	For subsequent drops to < 0.5 x 10 ⁹ /L	Hold dose Resume when ANC ≥ 0.5 x 10 ⁹ /L and consider 1 dose level reduction
		Febrile neutropenia ANC < 0.5 x 10 ⁹ /L and an oral temperature > 38.5 ⁰ C or two consecutive readings of > 38.0 ⁰ C for 2 hours	Hold dose If ANC returns to baseline grade and fever resolves, resume at same dose level
In the case of neutrope	 nia, the use of growth factors in		ld be considered

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Renal and Hepatic Impairment:

Table 6: Dose modification of carfilzomib and lenalidomide based on renal function

Carfilzomib	baseline mild, moderate dialysis. Renal function should be baseline creatinine clea If Serum creatinine ≥2 > creatinine clearance decestop dose and continue creatinine clearance). Carfilzomib should be rewithin 25% of baseline; Since dialysis clearance the medicinal product s	ment for carfilzomib is required in patients with e, or severe renal impairment or patients on chronic e monitored, particularly in patients with lower rance (CrCL < 30 mL/min). A baseline or if Creatinine clearance < 15 mL/min (or creases to ≤ 50% of baseline) or need for dialysis, monitoring renal function (serum creatinine or esumed when renal function has recovered to consider resuming at 1 dose level reduction. Of carfilzomib concentrations has not been studied, hould be administered after the dialysis procedure. cy and safety data on patients with baseline 0 mL/min.	
Lenalidomide	Creatinine Clearance ml/min	Dose modification	
	30 to 50	Reduce dose to 10mg once daily*	
	<30 not requiring dialysis	15mg every other day	
	< 30 requiring dialysis Reduce dose to 5mg once daily. On dialysis days dose should be administered after dialysis.		
	*The dose may be escalated to 15mg once daily after 2 cycles if patient is not responding to treatment and is tolerating the treatment		

Hepatic impairment:

Table 7: Dose modification of carfilzomib and lenalidomide based on hepatic function

Carfilzomib	No starting dose adjustment is recommended in patients with mild or moderate hepatic impairment based on available pharmacokinetic data.
	 However, higher subject incidence of hepatic function abnormalities, ≥ grade 3 adverse events and serious adverse events have been reported in patients with mild or moderate baseline hepatic impairment compared with patients with normal hepatic function.
	 Liver enzymes and bilirubin should be assessed at treatment initiation and monitored monthly during treatment with carfilzomib, regardless of baseline values, and appropriate dose modifications based on toxicity should be made
Lenalidomide	Lenalidomide has not formally been studied in patients with impaired hepatic function and there are no specific dose recommendations

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Non-Haematological Toxicities:

Table 8: Dose modifications for non-haematological toxicity for carfilzomib

Adverse Event	Carfilzomib	
Non-haematologic toxicity (renal)	Hold dose and continue monitoring renal function (serum	
Serum creatinine ≥ 2 × baseline;	creatinine or creatinine clearance)	
OR Creatinine clearance < 15 mL/min (or creatinine clearance decreases to ≤ 50% of baseline) or need for dialysis	Carfilzomib should be resumed when renal function has recovered to within 25% of baseline; consider resuming at 1 dose level reduction ^a For patients on dialysis receiving carfilzomib, the dose is to be administered after the dialysis procedure	
All other grade 3 or 4 non-	Stop carfilzomib until resolved or returned to baseline.	
haematologic toxicities	Consider restarting the next scheduled treatment at 1 dose level reduction ^a	
^a See table 3 for dose level reductions		

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

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

Carfilzomib: Low (Refer to local policy).

Lenalidomide: Minimal to low (Refer to local policy).

For information:

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) <u>Available on the NCCP website</u>
- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Haemato-oncology) Available on the NCCP website

PRE-MEDICATIONS:

- Adequate hydration is required before dose administration in cycle 1, especially in patients at high risk
 of tumour lysis syndrome or renal toxicity
- All patients should be monitored for evidence of volume overload and fluid requirements should be tailored to individual patient needs
- The total volume of fluids may be adjusted as clinically indicated in patients with baseline cardiac failure or who are at risk for cardiac failure
- Recommended hydration includes both
 - o oral fluids (30 mL/kg/day for 48 hours before day 1 of cycle 1) and
 - o intravenous fluids (250 mL to 500 mL of appropriate intravenous fluid before each dose in cycle 1).

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- Give an additional 250 mL to 500 mL of intravenous fluids as needed following carfilzomib administration in cycle 1
- Oral and/or intravenous hydration should be continued, as needed, in subsequent cycles.
- Serum potassium levels should be monitored monthly or more frequently during treatment with carfilzomib as clinically indicated. The frequency of assessment will depend on the potassium levels measured before the start of treatment, concomitant therapy used (e.g. medicinal products known to increase the risk of hypokalaemia) and associated comorbidities
- Ensure patient remains well hydrated during treatment

OTHER SUPPORTIVE CARE:

- Antiviral prophylaxis should be considered in patients being treated with carfilzomib to decrease the risk of herpes zoster reactivation (Refer to local policy)
- Tumour Lysis Syndrome (TLS) has been reported in patients receiving carfilzomib. As well as adequate
 prophylaxis, consider prophylactic treatment e.g. allopurinol (Refer to local policy)
- Thromboprophylaxis (Refer to local policy)
- In case of neutropenia the consultant may consider the use of filgrastim (G-CSF)
- Prophylactic laxatives to prevent lenalidomide-induced constipation (Refer to local policy).
- Bisphosphonates should be considered in all patients with myeloma-related bone disease.
- Consider the use of a H₂ antagonist or proton pump inhibitor if appropriate in patients receiving dexAMETHasone therapy (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. Carfilzomib and lenalidomide are subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.

• **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.

Carfilzomib

- Cardiovascular: New or worsening cardiac failure (e.g. congestive cardiac failure, pulmonary oedema, decreased ejection fraction), myocardial ischaemia and infarction have occurred following administration of carfilzomib. While adequate hydration is required prior to dosing in cycle 1, all patients should be monitored for evidence of volume overload, especially patients at risk for cardiac failure. The total volume of fluids may be adjusted as clinically indicated in patients with baseline cardiac failure or who are at risk for cardiac failure. Stop carfilzomib for grade 3 or 4 cardiac events until recovery and consider whether to restart carfilzomib at 1 dose level reduction based on a benefit/risk assessment.
- The risk of cardiac failure is increased in elderly patients (≥ 75 years). Patients with signs or symptoms of NYHA Class III or IV cardiac failure, recent history of myocardial infarction (in the last 4 months), and in patients with uncontrolled angina or arrhythmias, should have a comprehensive medical assessment, prior to starting treatment with carfilzomib. This assessment should optimise the patient's status, with particular attention to blood pressure and fluid management. Subsequently patients should be treated with caution and remain under close follow-up.

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- **Electrocardiographic changes:** There have been cases of QT interval prolongation reported in clinical studies with carfilzomib. An effect of carfilzomib on QT interval cannot be excluded.
- Pulmonary toxicity: Acute respiratory distress syndrome (ARDS), acute respiratory failure, and acute
 diffuse infiltrative pulmonary disease such as pneumonitis and interstitial lung disease have occurred in
 patients receiving carfilzomib. Some of these events have been fatal. Evaluate and stop carfilzomib until
 resolved and consider whether to restart carfilzomib based on a benefit/risk assessment.
- **Hypertension:** Hypertension, including hypertensive crisis and hypertensive emergency, has been observed with carfilzomib. Some of these events have been fatal. It is recommended to control hypertension prior to starting treatment. All patients should be routinely evaluated for hypertension while on carfilzomib and treated as needed. If the hypertension cannot be controlled, the carfilzomib dose should be reduced. In case of hypertensive crises, stop carfilzomib until resolved or returned to baseline and consider whether to restart carfilzomib based on a benefit/risk assessment.
- Infusion reactions: Infusion reactions, including life-threatening reactions, have been reported in patients
 who received carfilzomib. These reactions can occur immediately following or up to 24 hours after
 administration of carfilzomib. DexAMETHasone should be administered prior to carfilzomib to reduce the
 incidence and severity of reactions.

Lenalidomide

- **Teratogenetic effects:** Lenalidomide is structurally related to thalidomide a powerful human teratogen. It must never be used by women who are pregnant or by women who could become pregnant unless all the conditions of the Revlimid® Pregnancy Prevention Programme are met.
- **Skin reactions:** Lenalidomide must be discontinued permanently for exfoliative or bullous rash or if Stevens-Johnson syndrome (SJS) or toxic epidermal necrolysis (TEN) is suspected.
- Cardiovascular: Patients with known risk factors for MI, including prior thrombosis should be closely monitored and action should be taken to try to minimise all modifiable risk factors (e.g. smoking, hypertension and hyperlipidaemia). There is an increased risk of venous and arterial thromboembolism in patients treated with lenalidomide and dexAMETHasone. Previous history of thromboembolic events or concomitant administration of erythropoietic agents or other agents such as hormone replacement therapy, may also increase thromboembolic risk in these patients. Particularly, a haemoglobin concentration above 12g/dl should lead to discontinuation of erythropoietic agents. Thromboprophylaxis should be considered especially in patients with additional thrombotic risk factors.
- **Peripheral Neuropathy:** Lenalidomide is structurally related to thalidomide which is known to induce severe peripheral neuropathy. The neurotoxic potential of lenalidomide associated with long-term use cannot be ruled out.
- **Thyroid function:** Cases of hypothyroidism have been reported and baseline and ongoing monitoring of thyroid function is recommended.
- **Tumour lysis syndrome:** Patients at risk of tumour lysis syndrome are those with high tumour burden prior to treatment. These patients should be monitored closely and appropriate precautions taken.
- **Pulmonary hypertension**: Cases of pulmonary hypertension, some fatal, have been reported in patients treated with lenalidomide. Patients should be evaluated for signs and symptoms of underlying cardiopulmonary disease prior to initiating and during lenalidomide therapy.

DRUG INTERACTIONS:

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- Carfilzomib is primarily metabolised via peptidase and epoxide hydrolase activities, and as a result, the
 pharmacokinetic profile of carfilzomib is unlikely to be affected by concomitant administration of
 cytochrome P450 inhibitors and inducers.
- Erythropoietic agents, or other agents that may increase the risk of thrombosis, such as hormone replacement therapy, should be used with caution in multiple myeloma patients receiving lenalidomide with dexAMETHasone
- There is an increased risk of rhabdomyolysis when statins are administered with lenalidomide, which may be simply additive. Enhanced clinical and laboratory monitoring is warranted notably during the first weeks of treatment.
- Current drug interaction databases should be consulted for more information.

COMPANY SUPPORT RESOURCES/Useful Links:

Lenalidomide

- Please refer to the HPRA website (<u>www.hpra.ie</u>) for the individual product for list of relevant support resources
- Prescribers are required to read and understand the relevant HCP Information Guide and to adhere to the PPP

REFERENCES:

- 1. Keith Stewart A et al. Carfilzomib, Lenalidomide, and dexAMETHasone for Relapsed Multiple Myeloma. N Engl J Med 2015;372:142-52
- 2. NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V2 2019. Available at: https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classification-document-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf
- 3. Kyprolis®Summary of Product Characteristics. Accessed February 2021. Available at: https://www.ema.europa.eu/en/documents/product-information/kyprolis-epar-product-information en.pdf
- 4. Revlimid®Summary of Product Characteristics Accessed February 2021.Available at: https://www.ema.europa.eu/en/documents/product-information/revlimid-epar-product-information-en.pdf

Version	Date	Amendment	Approved By
1	31/08/2018		Dr Patrick Hayden
2	10/03/2021	Update of regimen title Update of management of Hepatitis B Reactivation and emetogenic potential	
2a	13/02/2024	Updated company support resources/ useful links section in line with NCCP standardisation.	NCCP
2b	27/11/2024	Updated emetogenic potential section with standard wording.	NCCP

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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