Indication	For the treatment of newly diagnosed and treatment-naive multiple myeloma in patients who are ineligible for an autologous stem cell transplant or for patients who commenced induction therapy with the combination of daratumumab plus bortezomib, thalidomide and dexamethasone with the intention of proceeding to a stem cell transplant but despite responding to treatment are now ineligible for transplantation.
Tuestasent	NB this is not funded for patients with primary amyloidosis. Disease modification
Treatment Intent	
Frequency and	Every 28 days
number of	LVELY ZO UAYS
cycles	Cycle 1 and 2 every 28 days: weekly daratumumab (8 doses in total)
cycles	Cycle 3 to 6 every 28 days: 2 weekly daratumumab (8 doses in total)
	Cycle 7 onwards 28 days: 4 weekly daratumumab
	Cycle 7 onwards 26 days. 4 weekly daratunidinab
	Continue until progressive disease or unacceptable toxicity or patient choice, whichever occurs first.
	NB the first administration of daratumumab can be given in split doses on different days if IV infusion is used instead of subcutaneous daratumumab.
	A formal medical review MUST occur by the end of the first 8 weeks of treatment to establish
	whether treatment should continue.
Monitoring	Lenalidomide Prescription Authorisation Form must be completed at time of prescribing
Parameters pre-treatment	• Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients not previously tested who are starting a new line of treatment, should also be screened for hepatitis B and C. Further virology screening will be performed following individual risk assessment and clinician discretion.
	 If positive hepatitis B viral serology is found, the patient should be monitored for hepatitis B virus reactivation.
	Consider flu and pneumococcal vaccination pre-therapy.
	• Monitor LFT's and U&Es on day 1 of each cycle.
	• FBC on day 1, 8, 15 and 22 for the first 2 cycles and then on day 1 only of each cycle thereafter.
	• Lenalidomide treatment must not be started if the Absolute Neutrophil Count (ANC) is <1.0 x
	10 ⁹ /L, and/or platelet counts are <50 x 10 ⁹ /L.
	• Thyroid function at baseline and as clinically indicated throughout treatment.
	Hepatic impairment:
	 Daratumumab: no recommended dose adjustment.
	 Lenalidomide: Lenalidomide has not formally been studied in patients with impaired hepatic function and there are no specific dose recommendations.
	Renal impairment:
	 Daratumumab: No dose adjustments necessary.
	 Lenalidomide: No dose reduction required in mild impairment. If CrCl 30-49ml/min, give 10mg OD, after 2 cycles if the patient is tolerating this dose but not responding to treatment the dose may be escalated to 15mg OD. If CrCl <30ml/min give 15mg on alternate days. If CrCl <30ml/min requiring dialysis give 5mg OD, on dialysis days the dose should be given following dialysis.
	 Allopurinol: Ensure renal function is normal before prescribing Allopurinol (usual dose is 300 mg od). Reduce Allopurinol dose to 100mg od if CrCl is 10-20ml/min and 100mg on alternate days if CrCl is <10ml/min.

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		Daratum	numab injection related reactions (IRRs):		
			atumumab can cause severe injection read	tions which may result in admission to	
			pital. Pre-meds must be given 1-3 hours be		
			ients should be pre-medicated with chlorp	-	
			acetamol as well as monitored (vital signs l		
			·	nd following the first and second injections.	
			n anaphylactic reaction or life-threatening		
			ergency care should be initiated immediate		
				Patients should be observed for 6 hours post	
			1st injection, 2 hours after 2nd dose and t		
			sequent doses.		
			use of post-infusion medications (e.g. inh	aled corticosteroids, short and long acting	
bro			nchodilators) should be considered for patients with a history of chronic obstructive		
		puli	monary disease to manage respiratory con	nplications should they occur.	
			tration of sub cut daratumumab:	-	
			ct 15 mL into the subcutaneous tissue of t	he abdomen approximately 7.5 cm to the	
		-	t or left of the navel over approximately 3		
		-	body as no data are available. Injection sit	-	
			ctions.		
		-	atumumab solution for subcutaneous injection	ction should never be injected into areas	
			ere the skin is red, bruised, tender, and har		
				t experiences pain. In the event pain is not	
			viated by slowing down the injection, a sec		
			osite side of the abdomen to deliver the re		
			ing treatment with daratumumab solution		
			ninister other medicinal products for subcu		
			atumumab.		
		• Drug spe	cific cautions and dose adjustments:		
			atumumab: Limited data of daratumumab	SC in patients >120kg, give at clinicians'	
			retion.		
		o Con	ntraception: To avoid exposure to the foetus, women of reproductive potential should		
		use	effective contraception during treatment and for 3 months after cessation of		
			atumumab treatment.		
		• No	dose reductions of daratumumab are recommended. Dose delay may be required to		
		allo	w recovery of blood cell counts in the event of haematological toxicity.		
			alidomide:		
			matological toxicity: Treat when neutropl		
			/L. If neutrophils fall below 0.5 x 10 ⁹ /L inte		
			e once resolved to >/=1 x 10 ⁹ /L if neutrope		
				observed other than neutropenia resume at	
			reduced dose level when neutrophils have		
			each subsequent episode of neutropenia (
				dose level when neutrophils have returned	
			$-/=0.5 \times 10^{9}$ /L (see table 1).		
			atelets fall to <25 x 10°/L interrupt treatm		
			ume at one reduced dose level once resolv		
			n-Haematological toxicity: For other Grade		
			alidomide, treatment should be stopped ar		
			en toxicity has resolved to \leq Grade 2 depending on the physician's discretion.		
			alidomide interruption or discontinuation should be considered for Grade 2 or 3 skin		
rash. Lenalidomide must be discontinued for angioedema, a rash, exfoliative or bullous rash, or if Stevens-Johnson syndr					
		rast		Johnson Syndrome (SJS), toxic epidermal	
Protocol No H	HAEN	1-MYEL-048	Kent and Medway SACT Protocol		
				for the accuracy of this information when used	
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			. actionsing consultant (asadily NOO chall)		

	•	 necrolysis (TEN) or Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) is suspected, and should not be resumed following discontinuation from these reactions. Ensure patient is informed of requirement for strict contraception precautions during treatment with Lenalidomide. Follow Lenalidomide risk management programme. Pregnancy test – if patient is of child-bearing age (every 4 weeks). Treatment with lenalidomide has been associated with an increased risk of venous thromboembolism. All patients should be risk assessed and prophylactic anticoagulation considered. Dexamethasone: Dose modification of dexamethasone is to be made on a patient by patient basis at the prescribing clinicians' discretion, this can be a dose reduction or escalation to 40mg if appropriate. Interference with tests (refer to company risk materials): Daratumumab binds to CD38 on red blood cells and results in a positive Indirect Antiglobulin Test (Coombs test) which may persist for up to 6 months after the last infusion. Send a blood sample for group/ direct
		antiglobulin/phenotype testing prior to treatment. Daratumumab may be detected on SPE and IFE assays resulting in false positive results for patients with IgG kappa myeloma protein impacting initial assessment of complete responses.
	•	 Common drug interactions (for comprehensive list refer to BNF/SPC): Daratumumab: No interaction studies have been performed. Lenalidomide: Lenalidomide may increase digoxin concentration, monitor digoxin levels during treatment. Increased risk of rhabdomyolysis when administered with statins. Combined hormonal contraceptives are predicted to increase the risk of venous thromboembolism when given with Lenalidomide. Manufacturer advises avoid.
	•	Missed dose:
		 Daratumumab: If a planned dose is missed, the dose should be administered as soon as possible and the dosing schedule should be adjusted accordingly, maintaining the treatment interval.
		• Lenalidomide: If less than 12 hours after the usual administration time the patient should take the dose and continue as normal the following day. If more than 12 hours after the usual administration time the dose should be omitted and continue with the schedule the following day.
	•	Driving: Patients should be advised that lenalidomide can have an effect on their ability to
		drive and use machines.
	•	For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet.
References	HA	EM-MYEL-048 V2 TSSG HOG 18.11.2024 decision to dose dexamethasone at 20mg for this
	pat	ient cohort.

NB For funding information, refer to CDF and NICE Drugs Funding List

	Lenalidomide
Starting dose	25 mg
Dose level -1	20 mg
Dose level -2	15 mg
Dose level -3	10 mg
Dose level -4	5 mg
Dose level -5	2.5 mg

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Cycle 1 and 2 only: 28-day cycle

Day	Drug	Dose	Route	Infusion Duration	Administration
1	DEXAMETHASONE	20mg	PO	stat	To be administered 1-3 hours prior to
	Chlorphenamine	4mg	PO	stat	daratumumab. (dispensed as TTO pack)
	Paracetamol	1gm	PO	stat	
	Montelukast Cycle 1 day 1 only	10mg	РО	stat	
	DARATUMUMAB	1800mg	SC	3-5mins	Inject 15 mL into the subcutaneous tissue of the abdomen approximately 7.5 cm to the right or left of the navel over approximately 3-5 minutes. Do not inject at other sites of the body as no data are available. Injection sites should be rotated for successive injections
8, 15 & 22	DEXAMETHASONE	20mg	PO	stat	To be administered 1-3 hours prior to daratumumab.
	Chlorphenamine	4mg	PO	stat	(dispensed as TTO pack)
	Paracetamol	1gm	PO	stat	
	DARATUMUMAB	1800mg	SC	3-5mins	Inject 15 mL into the subcutaneous tissue of the abdomen approximately 7.5 cm to the right or left of the navel over approximately 3-5 minutes. Do not inject at other sites of the body as no data are available. Injection sites should be rotated for successive injections

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TTO Cycle 1 and 2 only

TTO	Drug	Dose	Route	Directions	
Day 1	DEXAMETHASONE	20mg	PO	OM on days 1, 8 , 15 and 22 . Taken as pre-med dose on daratumumab treatment days. Take with or after food.	
	LENALIDOMIDE	25mg	PO	ON on days 1 to 21. The capsules should not be opened, broken or chewed. The capsules should be swallowed whole, preferably with water, either with or without food.	
	Allopurinol	300mg	РО	OD and review after 4 weeks. Prescribe continuing supply if required from cycle 2 onwards.	
	Omeprazole	20mg	РО	OD	
	Aciclovir	400mg	PO	BD continuously (plus 3 more months after completion of last treatment dose)	
	Co-trimoxazole	480mg	РО	TWICE daily on Mondays, Wednesdays and Fridays (plus 3 more months after completion of last treatment dose)	
	Metoclopramide	10mg	РО	TDS for 3 days, then TDS PRN. Do not take for more than 5 days consecutively.	
	Loperamide 2mg-4mg PO		РО	Take two capsules (4mg) after first loose stool, then one capsule (2mg) after each loose stool when required. (Maximum 16mg per day). Dispense on Cycle 1 then only if specified.	
				prophylactic anti-fungals	
				lactic anticoagulation	
	Consider levofloxacin prophylaxis for 12 weeks for all newly diagnosed myeloma patients				
	Pre med TTO packs to be dispensed				

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Cycle 3 to 6 only: 28-day cycle

Day	Drug	Dose	Route	Infusion Duration	Administration
1	DEXAMETHASONE	20mg	PO	stat	To be administered 1-3 hours prior to daratumumab.
	Chlorphenamine	4mg	PO	stat	(dispensed as TTO pack)
	Paracetamol	1gm	PO	stat	
	DARATUMUMAB	1800mg	SC	3-5mins	Inject 15 mL into the subcutaneous tissue of the abdomen approximately 7.5 cm to the right or left of the navel over approximately 3-5 minutes. Do not inject at other sites of the body as no data are available. Injection sites should be rotated for successive injections
15	DEXAMETHASONE	20mg	PO	stat	To be administered 1-3 hours prior to daratumumab.
	Chlorphenamine	4mg	PO	stat	(dispensed as TTO pack)
	Paracetamol	1gm	PO	stat	
	DARATUMUMAB	1800mg	SC	3-5mins	Inject 15 mL into the subcutaneous tissue of the abdomen approximately 7.5 cm to the right or left of the navel over approximately 3-5 minutes. Do not inject at other sites of the body as no data are available. Injection sites should be rotated for successive injections

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TTO Cycle 3 to 6 only

TTO	Drug	Dose	Route	Directions
Day 1	DEXAMETHASONE	20mg	PO	OM on days 1, 8,15 and 22 . Taken as pre-med dose on daratumumab treatment days. Take with or after food.
	LENALIDOMIDE	25mg	PO	ON on days 1 to 21 . The capsules should not be opened, broken or chewed. The capsules should be swallowed whole, preferably with water, either with or without food.
	Omeprazole	20mg	РО	OD
	Aciclovir	400mg	РО	BD continuously (plus 3 more months after completion of last treatment dose)
	Co-trimoxazole	480mg	РО	TWICE daily on Mondays, Wednesdays and Fridays (plus 3 more months after completion of last treatment dose)
	Metoclopramide	10mg	РО	TDS for 3 days, then TDS PRN. Do not take for more than 5 days consecutively.
	Loperamide	2mg-4mg	PO	Take two capsules (4mg) after first loose stool, then one capsule (2mg) after each loose stool when required. (Maximum 16mg per day). Dispense on Cycle 1 then only if specified.
	Consider the use of prophylactic anti-fungals Consider prophylactic anticoagulation			
	Consider levoflox			veeks for all newly diagnosed myeloma patients
	Pre med TTO packs to be dispensed			

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Cycles 7 onwards: 28-day cycle

Day	Drug	Dose	Route	Infusion Duration	Administration
1	DEXAMETHASONE	20mg	PO	stat	To be administered 1-3 hours prior to daratumumab.
	Chlorphenamine	4mg	PO	stat	(dispensed as TTO pack)
	Paracetamol	1gm	PO	stat	
	DARATUMUMAB	1800mg	SC	3-5mins	Inject 15 mL into the subcutaneous tissue of the abdomen approximately 7.5 cm to the right or left of the navel over approximately 3-5 minutes. Do not inject at other sites of the body as no data are available. Injection sites should be rotated for successive injections
TTO	Drug	Dose	Route	Directions	
Day 1	DEXAMETHASONE	20mg	PO	OM on days 1, 8,15 and 22 . Taken as pre-med dose on daratumumab treatment days. Take with or after food.	
	LENALIDOMIDE	25mg	PO	ON on days 1 to 21. The capsules should not be opened, broken or chewed. The capsules should be swallowed wh preferably with water, either with or without for	
	Omeprazole	20mg	РО	OD	
	Aciclovir	400mg	PO	BD continuously (plus 3 more months after completion of last treatment dose)	
	Co-trimoxazole	480mg	РО	TWICE daily on Mondays, Wednesdays and Fridays (plus 3 more months after completion of last treatment dose)	
	Metoclopramide	10mg	РО	TDS for 3 days, then TDS PRN. Do not take for more than 5 days consecutively.	
	Loperamide	2mg-4mg	PO	one capsul required. (Dispense o	capsules (4mg) after first loose stool, then le (2mg) after each loose stool when Maximum 16mg per day). on Cycle 1 then only if specified.
	Consider the use of prophylactic anti-fungals				
Consider prophylactic anticoagulation			-		
	Pre med TTO packs to be dispensed			spensed	

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