

North Central London Joint Formulary Committee

Shared Care Guideline Lokelma (Sodium Ziroconium Cyclosilicate) and Veltassa (Patiromer Calcium) Treatment of hyperkalaemia

Dear Primary Care Prescriber.

The information in this shared care guideline has been developed in consultation with Primary Care, with agreement that shared care is appropriate.

Sharing of care assumes communication between the specialist, primary care prescriber and patient. The intention to share care should be explained to the patient by the specialist clinician when treatment is initiated. It is important that patients are consulted about treatment and are in agreement with it.

Further information on shared care, including out of area referrals, can be found in the NCL Interface Prescribing Guidance.

Shared Care Guideline

Indication	As per local formulary agreement, Lokelma and Veltassa are both potassium binders recommended for the treatment of adults with hyperkalaemia in line with NICE TA599 and NICE TA623 (i.e., for people with persistent hyperkalaemia and chronic kidney disease stage 3b to 5 or heart failure, if they have confirmed serum potassium level of atleast 6.0 mmol/litre, are not taking an optimised dosage of renin-angiotensin-aldosterone system (RAAS) inhibitor due to hyperkalaemia, and are not on dialysis).
	Lokelma and Veltassa are used for other indications on the NCL Joint Formulary, but these are restricted to hospital only.
	Treatment should be initiated by a clinician with expertise in the treatment of hyperkalaemia in the above patient groups, who will consider contraindications for <u>Lokelma</u> and <u>Veltassa</u> , as well as cautions for <u>Lokelma</u> and <u>Veltassa</u> .
Shared Care criteria	Patients who are stabilised on Lokelma and Veltassa in line with <u>NICE TA599</u> and <u>NICE TA623</u> , and have been monitored appropriately at baseline and after initiation of treatment with no problems identified during this period.
	Once a patient has been stabilised on treatment for three months, a shared care arrangement with you will be requested.
Dose	Initial stabilisation (by specialist team):
	The recommended starting dose of Lokelma is 10g, administered three times a day orally as a suspension in water.

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The recommended starting dose of Veltassa is 8.4g once daily and the maximum dose is 25.2g. The dose can be increased or decreased after a minimum interval of 1 week based on serum potassium levels.

When normokalaemia is achieved, a maintenance regimen should be followed (see below).

Maintenance dose:

The table below outlines the action taken for when serum potassium levels are both in and out of range. It also highlights there is no dose adjustments for patients with either renal or hepatic impairment.

Serum potassium (mmol/L)	Action	Special considerations
≤3.8	Consider reducing dose of potassium binder (sodium zirconium by 5g/day or patiromer by 8.4g/day, if on lowest doses consider alternate days (unlicensed) or	Renal impairment: No dose adjustment required
	discontinue. Re check potassium within 2 weeks	Hepatic impairment: No dose adjustment required
>3.8 and <5.1	No change required	
>5.1 and <6.5	Consider increasing dose of potassium binder (sodium zirconium by 5g/day to a maximum of 10g daily, patiromer by 8.4g/day to maximum of 25.2g daily. If at maximum dose, review other causes of hyperkalaemia and if needed consider down titration of RAASi therapy.	
≥6.5	Refer to hospital for repeat assessment and emergency treatment of acute hyperkalaemia.	

Conditions requiring dose adjustment

Further information about prescribing in elderly, children and pregnant women can be found for both Lokelma and <u>Veltassa</u> by clicking on the links respectively.

Missed doses

If a patient misses a dose, they should be instructed to take the next dose at their normal time. The missed dose should not be taken with the next dose.

Duration of	To continue taking until informed otherwise by specialist.
treatment	
Stopping	Treatment should be discontinued immediately due to hypokalaemia (potassium equal to or less than
criteria and	3.5mmol/L) or hypersensitivity to any of the ingredients found in either Lokelma or Veltassa.
treatment	
discontinuation	1

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Baseline Baseline monitoring: monitoring (by specialist) Before initiating treatment, a baseline potassium should be measured. For Veltassa, magnesium must also be monitored at least one month after initiation. Action if out of range Ongoing Test Frequency monitoring (by Serum potassium (Range: 3.5mmol/L to 3-4 monthly (as Stop the medication and inform primary care 6.5mmol/L). advised by initial prescriber for advice. clinician) consultant) Magnesium (Range: 0.7mmol/L to 6 monthly If low, replace as per BNF guidance. 1.2mmol/L) Recheck after 2 weeks. If still low, refer to initial prescriber. See section 'Adverse effects and management' below for Hypercalcaemia (Range: 2.2 mmol/L to Monthly for 2 management of hypercalcaemia. 2.6mmol/L) months. If stable for 2 consecutive months; 6 monthly. Follow up A specialist review in hospital will be undertaken 4-6 monthly to reduce burden in primary care. arrangements The specialist will review the patient's condition and communicate promptly with the GP when treatment is changed. Patients with unstable potassium levels (consistently out of range) may require monitoring more frequent than 3-monthly. In these instances, prescribing and monitoring should be retained by the specialist. Adverse effects **Adverse effect** Frequency **Action for GP** and Hypokalaemia (potassium equal to or Common Stop the medication and inform the management less than 3.5mmol/L) initial prescriber. For a full list of Gastrointestinal upset Common Manage symptomatically, inform the adverse effects. initial prescriber if persistent. please refer to the Manage symptomatically, inform the Nausea and Vomiting Uncommon BNF (Lokelma initial prescriber if persistent. and Veltassa) & SPC (Lokelma and Veltassa). Oedema (Lokelma specific) Common Mostly self-limiting; may require adjustment of diuretic dose. persistent, refer to initial prescriber. Healthcare professionals are asked to report any Hypomagnesaemia (Veltassa specific) This usually occurs during the initiation Common suspected phase, before transfer to secondary adverse care. Inform the initial prescriber if

reactions to the

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persistent.

	1		Γ	1		
MHRA via the						
Yellow Card	1 .		Unknown	Down titrate dose by 8.4g daily or		
<u>Scheme</u> .	(Correc			discontinue Veltassa if causing		
	2.6mm	, ,		persistent hypercalcaemia once al		
		ing to local laboratories – Veltassa		calcium supplements have been		
	specific	c)		rationalised. Notify specialist as dose of		
				RAASi therapy may also need to be		
				adjusted. If hypercalcaemia continues		
				then consider using alternative		
				potassium binder (sodium zirconium).		
Advice to	To info	rm specialist or GD of any other m	edication being tal	ken, including over-the-counter products.		
patients and		in specialist of GP of any other in	ledication being tai	ken, including over-the-counter products.		
IT .	Donort	any adverse effects or warning s	mntome as outline	ad in 'Advarsa affacts and managements'		
carers			mptoms as outline	ed in 'Adverse effects and managements'		
	to the	GP or specialist.				
	Lokolm	as make up in 45ml of water and	stir wall. The naw	der will not dissolve. Administer azole		
		•	· ·	hours before or after sodium zirconium		
	cyclosi	• •	Killase Illilibitors 2	nours before or after socium zircomum		
	Cyclosi	iicate.				
	Voltace	a make up in 40ml of water or a	and ctir	well. The newder will not discolve. Take		
	Veltassa – make up in 40ml of water or apple juice and stir well. The powder will not dissolve. Take					
		within an hour of initial suspension. Can be taken with or without food. Separate dose by at least 3				
	hours from other medications. Stored in the fridge but patients may store below 25°C for up to 6					
	month			· Lo · Lauce fi ·		
Resources and	1.	·		emia Guidance NICE [Internet].		
key references		www.nice.org.uk. 2020 [cited 20		e from:		
		https://www.nice.org.uk/guidan				
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	5.	Levien TL, Baker DE. Sodium Zirc	onium Cyclosilicate	e. Hospital Pharmacy [Internet]. 2018		
	Dec 14 [cited 2024 Jan 9];54(1):12–9. Available from:					
		https://www.ncbi.nlm.nih.gov/p	mc/articles/PMC63	<u>333952/</u>		
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		Pharmacology of Patiromer, a No	onabsorbed Cross-	Linked Polymer That Lowers Serum		
		Potassium Concentration in Patie				
		Pharmacology and Therapeutics	[Internet]. 2016 Ju	lly 8 [cited 2024 Jan 9];21(5):456–65.		
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	7.			oral suspension - Summary of Product		
				dicines.org.uk. 2023. Available from:		
		https://www.medicines.org.uk/e	=	_		
	8.		•	Veltassa (Patiromer) 8.4 g powder for		
	0.	oral suspension - Summary of Pr				
	1	C. S. Gaopension California y Of Th	- the later Common Control	is the content of the content of		

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9. Guidance for the use of potassium binders in adults with hyperkalaemia and Heart Failure with reduced Ejection Fraction. North London Cardiac Operational Delivery Network. 2023. [cited 2024 Apr 19]

Contact Details

Trust name:	Specialist service contact details:	
North Middlesex University Hospital NHS Trust Hospital Switchboard: 020 887 2000	Consultant Physician and Nephrologist: Dr Salman Sajid (Ext 2281)	
Royal Free London NHS Foundation Trust Hospital Switchboard: 020 3758 2000	Specialist Pharmacist: Ahmed Mohamed (Ext 3409) Consultant Cardiologist: Dr Ameet Bakhai Via switchboard	
Whittington Hospital NHS Trust Hospital Switchboard: 020 7272 3070	Consultant Nephrologist: Dr Mark Harber Via switchboard	
Pharmacy Medicines Advice across NCL Trusts	https://nclhealthandcare.org.uk/16 contactdetails MIHC/	

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Document control

Date	Version	Amendments
18/09/2024	1.0	New document developed by NMUH clinical team in liaison with the NCL ICB

Groups / Individuals who have overseen the development of this guidance:	Dr Salman Sajid Mr Ahmed Mohammed NCL ICB Medicines Optimisation team
Groups which were consulted and have given approval:	NCL consultants and specialist pharmacists NCL GPPA NCL LMC NCL Shared Care Group
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Equality impact assessment:	Low
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Appendix 1: xxx transfer form: from [Trust] to GP practice

Section A: to be completed by secondary care Send to practice

This document is to request the shared care pathway of your patient and comprises an agreement between the GP and named consultant. The patient will continue to be seen by the named consultant as regular folup.

Fix address label here	(ensure NHS Number.on)	Clinic stamp or give details below
Department		
Clinic phone		
Consultant		Email
Indication for prescription	n	
Drug prescribed		
Date	Drug started	Current dose
Relevant conditions		
Monitoring variations		
Date next blood test	Next	disease review due in months' time.

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Section B: [Accept Shared Care] to be completed by practice

Send back FAO referring consultant above

The above patient has been accepted into our monitoring service.

		_	
Practice date for n	next blood test		Practice stamp
Signed /			
Designation			
Date			
Section B: [Rejec	ct Shared Care] to be completed by pra	act	ice
Send back FAO re	eferring consultant above		
The above patient	has not been accepted into our monitoring	ng	service.
Reason			Practice stamp
Signed /			
Designation			

Date

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