

# SHARED CARE AGREEMENT

Use of Oromucosal Midazolam Maleate (Epistatus<sup>®</sup> 2.5mg/0.25ml, 5mg/0.5ml, 7.5mg/0.75ml (UNLICENSED)) as an intervention for prolonged seizures and prevention of Status Epilepticus in children under 10 years of age.

Amber TLS – 1 Month

## **Principles of Shared Care**

Shared care agreements provide a framework for the seamless transfer of care from a hospital or specialist service setting to general practice, where this is appropriate and, in the patient's, best interest. When a specialist considers a patient's condition to be stable or predictable, they may seek the agreement of the GP (or other primary care prescriber) concerned and the patient to share their care.

Patients and/or carers must be centrally involved in any decision-making process. They should be supported by good quality information that helps them to both come to an informed decision about engagement in a shared care arrangement and sets out the practical arrangements for ongoing supplies of medicines.

The existence of a shared care agreement does not necessarily mean that the GP has to agree to and accept clinical and legal responsibility for prescribing; they should only do so if they feel clinically confident in managing that condition. Clinical responsibility for prescribing is held by the person signing the prescription, who must also ensure adequate monitoring.

### PLACE IN TREATMENT

Rectal diazepam is another licensed product available for the treatment of status epilepticus, clusters of seizures and prolonged seizures (lasting 5 minutes or more) in children but using this route can be practically difficult and socially unacceptable. Oromucosal midazolam is as effective as rectal diazepam, is absorbed rapidly through the buccal cavity and has practical advantages of ease and social acceptability in administration.

The Epistatus<sup>®</sup> brand of oromucosal midazolam should only be initiated in new patients, or continued in existing patients, where there is a compelling reason to use this more concentrated solution. BUCCOLAM<sup>®</sup> is now the brand of choice for oromucosal midazolam on BSW Formulary (Nov 21) as Buccolam is licensed for use in children from 3 months to < 18 years. Specialist nurses will review the existing cohort of patients using unlicensed Epistatus<sup>®</sup> with the aim to switch them to Buccolam<sup>®</sup>. Buccolam<sup>®</sup> and Epistatus<sup>®</sup> are NOT interchangeable. Please prescribe by BRAND NAME. If a patient needs to use unlicensed Epistatus<sup>®</sup> the parents/carers should be clearly told about the licensing position. *ALL patients should now be prescribed pre-filled syringes and should NOT receive the multi-dose bottle due to the safety risk of drawing up the wrong dose.* 

#### **Responsibilities of Secondary Care Specialist**

- Initiate treatment and prescribe the first supply of Epistatus<sup>®</sup> this should be enough time to allow optimisation of treatment and demonstrate that the patient's response is consistent.
- It is the responsibility of the specialist to ensure that changes to prescription of oromucosal midazolam are clearly communicated in writing to the GP, family/carer and any other setting in which oromucosal midazolam is to be held for emergency use e.g. school nursing/pre-school teams.
- If a patient is switched to Buccolam<sup>®</sup> from Epistatus<sup>®</sup>, it is the responsibility of the specialist to arrange for corresponding care plans/administration plans to be updated accordingly and old supplies to be returned to the community pharmacy and replaced with the new prescription
- All children under 2 years of age who require oromucosal midazolam will ONLY be initiated on the advice of a Consultant Paediatric Epilepsy specialist.
- Discuss the benefits and side effects of treatment with the patient and/or carers clearly documenting the discussion of why an unlicensed product has been chosen.
- Ensure that the patient/carer understands when and how to give the medication. An identified member of the specialist team such as epilepsy specialist nurse and community/school nurse, will work with the parents / carer

Shared Care Agreement for [Oromucosal midazolam (Episatus<sup>®</sup>)]. Version [1.1]. Approved: [Jan 22], Review: [Jan 23].



to develop an Emergency Treatment Plan for child/young person with epilepsy for administration, train in use, ensure appropriate storage and provide written/verbal advice in a way that the individuals can understand.

- Review concurrent medications for potential interactions prior to initiation.
- Undertake the clinical assessment and relevant monitoring at baseline and during the initiation period.
- Communicate details of treatment to GP, including the compelling reasons why an unlicensed product is required, (in writing or via secure email) within the first month of treatment and ask the GP whether he or she is willing to participate in shared care.
- Discuss shared care arrangements with the patient/carer, obtain their consent and explain their responsibilities.
- Review the patient's condition and monitor response to treatment regularly where indicated (at least annually).
- Inform the GP after each clinic attendance if there is any change to treatment or monitoring.
- Supply the GP with background information about diagnosis, the reasons for selecting Epistatus<sup>®</sup> and details of how to prescribe it, including details of how often doses can be repeated, maximum dose in 24 hours and details of any combination therapy. This summary should be received within 14 days of a hospital outpatient review, in-patient stay or community review.
- Inform the appropriate community nursing service that oromucosal midazolam has been prescribed (by brand name). A Health Care Plan should be put into place by the appropriate community nursing service to support use.
- Ensure that clear arrangements exist for GPs to obtain advice and support.
- Report adverse events to the MHRA: <u>https://yellowcard.mhra.gov.uk/</u>
- Stop treatment where appropriate or provide GP with advice on when to stop.

#### **Responsibilities of GP/Primary Care Prescriber**

- Reply to the request as soon as practicable if they are **unable** to support shared care (in writing or via secure email).
- Prescribe Epistatus<sup>®</sup> after communication with specialist about need for treatment with an unlicensed product and the dose recommended.
- Midazolam is a schedule 3 controlled drug and therefore subject to the requirement for the quantity to be supplied to be written in words and figures and the dose to be on the prescription.
- Undertake ongoing clinical assessment and relevant monitoring following initiation period.
- Annual review and dosage adjustment required as dosage based on age (as advised by specialist nurse).
- Review any new concurrent medications for potential interactions.
- Refer promptly to specialist when any loss of clinical efficacy is suspected (e.g. worsening of disease-related symptoms, new symptoms suggestive of disease recurrence or progression) or intolerance to therapy occurs.
- Report to and seek advice from the specialist on any aspect of patient care that is of concern and may affect treatment.
- Stop treatment on the advice of the specialist.
- Report adverse events to the specialist and MHRA: <u>https://yellowcard.mhra.gov.uk/</u>

#### Responsibilities of Patient/Carer

- Report to the specialist, community nurse or GP if he or she does not have a clear understanding of the treatment.
- Share any concerns in relation to treatment with medicine. Please contact specialist if you start to need treatment more frequently.
- Report any adverse effects to the specialist, community nurse or GP whilst taking the medicine.
- Attend appointments for clinical review and monitoring.

1. Summary	of	Epilepsies: diagnosis and management NICE CG137 (Updated 12 May 2021):
condition a	and	https://www.nice.org.uk/Guidance/cg137
treatment	aims	• Only prescribe oromucosal midazolam for use in the community for children and young
Include links to relevant clinical guidelines e.g. NICE		people who have had a previous episode of prolonged or serial convulsive seizures.
	g. NICE	• Over- and potentially inappropriate prescription of emergency benzodiazepines should
		not be used to alleviate individual, parental or carer's anxiety.



	I		
2. Details of	Treatment for children and young people with prolonged (lasting 5 minutes or more) or		
medicine and	repeated (three or more in an hour) generalised, convulsive (tonic-clonic, tonic or clonic)		
indication	seizures in the community. To be used as per patient specific individual agreed protocol		
Please state whether licensed or unlicensed (off-	and care plan.		
label) use. Note that shared	Use of Epistatus	In children under the age of 10 years is outside the product license.	
care is generally unsuitable	Oromucosal mic	lazolam is a short acting benzodiazepine that offers an alternative to rectal	
for off-label prescribing unless it is a widely	diazepam.		
recognised use (e.g.	Must only be us	ed by parents/carers where the patient has been diagnosed with epilepsy	
included in BNF)	and the licensed 1 <sup>st</sup> line alternative, Buccolam <sup>®</sup> , is not deemed to be suitable.		
3. Pharmaceutical	Route of	Epistatus <sup>®</sup> is for oromucosal use. The 2.5mg/0.25ml, 5mg/0.5ml,	
aspects	administration	7.5mg/0.75ml products used in children under the age of 10 years are	
	:	UNLICENSED.	
	Formulation:	Pre-filled needle-free oral syringe	
	Administratio	Please refer to SPC and PIL for the <i>licensed</i> 10mg/ml product (licensed for	
	n details:	use from 10 years of age to <18.	
		Epistatus 10mg Oromucosal Solution	
	Other	Not for intravenous use.	
	important	SAFETY: MHRA Guidance; The MHRA issued a warning (Drug Safety	
	information:	Update in October 2011) that care was needed if transferring between	
		Epistatus <sup>®</sup> and Buccolam <sup>®</sup> due to the differences in strengths between	
		the products.	
		http://www.mhra.gov.uk/Safetyinformation/DrugSafetyUpdate/CON131	
		<u>931</u>	
4. Usual dose and	The amount of o	promucosal midazolam liquid used depends on weight and age. The usual	
frequency	doses are as foll	ows. The full contents of the syringe should be given, part doses cannot be	
(including details	used as the syrii	nges do not have any measurements on them:	
of dose	<ul> <li>Childrer</li> </ul>	n under 3 months- to 1 year: Hospital only	
adjustments, e.g.	<ul> <li>Childrer</li> </ul>	n 1 to 5 years -5mg (0.5ml)	
in renal	<ul> <li>Childrer</li> </ul>	n 5 to 10 years- 7.5mg (0.75ml)	
impairment) and	<ul> <li>Childrer</li> </ul>	n over 10 years and adults- 10mg (1ml) (Epistatus is licensed in age 10 to	
duration of	under 1	8s see separate shared care agreement here Shared Care Agreements –	
therapy		e CCG Medicines Management (bswccg.nhs.uk)	
Transfer of monitoring and prescribing to Primary care	Epistatus <sup>®</sup> shou	ld be given by the oromucosal route (ie the area between the lower gums	
is normally after the patient	and inner cheek	area of either side of the mouth).	
is on regular dose and with satisfactory investigation		pecified in the individual care plan.	
results.		ould be administered slowly into the space between the gum and the	
All dose or formulation		contact with the tongue.	
adjustments will be the responsibility of the		e given to parents – if seizure is not settling 5 minutes after the first dose	
initiating specialist unless		r an ambulance.	
directions have been discussed and agreed with		n individualised care plan. A second dose of midazolam can be given 10	
the primary care clinician.		e first dose but for most children this is only advised in the presence of	
The duration of treatment		v or a hospital setting. Retain the empty syringe of midazolam to give to the	
will be determined by the specialist, based on clinical		essional. This will provide information on the dose received by the patient.	
response and tolerability.		seizure starts again: A second or repeat dose when seizures re-occur after	
Termination of treatment	an initial response should not be given without prior medical advice UNLESS its specified in		
will be the responsibility of the specialist.	their care plan.		
		continuation of treatment	
		ew of the continued need for emergency rescue treatment with	
	oromucosal midazolam should be carried out by a specialist at least every 12 months to		
		re management plan is still appropriate and to prevent unnecessary long-	
	term prescribing	5.	



5.	Baseline	Baseline investigations
	investigations	None required
	and initial	
	monitoring to	
	be undertaken	
	by specialist	
6.	Ongoing	None required
	monitoring	
	requirements to	
	be undertaken	
7	by primary care	
7.	Action(s) to be	<ul> <li>If frequency of use increases seek advice from the specialist team</li> </ul>
	taken by primary care if	
	abnormal	
	result(s)	
	i court(o)	
8.	Cautions and	Cautions
•	contraindication	<ul> <li>Care must be taken when administering the product to avoid the risk of the patient</li> </ul>
	S	choking.
Please note this does not		Respiratory insufficiency: Midazolam should be used with caution in patients with
-	ace the Summary of Juct Characteristics	chronic respiratory insufficiency because midazolam may further depress respiration.
(SPC	C) and should be read in	• Altered elimination of midazolam: Midazolam should be used with caution in patients
conj	unction with it.	with chronic renal failure, impaired hepatic or cardiac function. Midazolam may
		accumulate in patients with chronic renal failure or impaired hepatic function whilst in
		patients with impaired cardiac function it may cause decreased clearance of midazolam.
		• Concomitant use with other benzodiazepines: Debilitated patients are more prone to
		the central nervous system (CNS) effects of benzodiazepines.
		• Risk from concomitant use of opioids: Concomitant use of <sup>®</sup> and opioids may result in
		sedation, respiratory depression, coma and death. Because of these risks, concomitant
		prescribing of sedative medicines such as benzodiazepines or related drugs such as
		midazolam with opioids should be reserved for patients for whom alternative
		treatment options are not possible. If a decision is made to prescribe midazolam
		concomitantly with opioids, the lowest effective dose and the shortest possible
		duration of opioids should be used.
		• The patients should be followed closely for signs and symptoms of respiratory
		depression and sedation. In this respect, it is strongly recommended to inform patients
		and their caregivers (where applicable) to be aware of these symptoms.
		<ul> <li>Medical history of alcohol and drug abuse: Midazolam should be avoided in patients</li> </ul>
		with a medical history of alcohol or drug abuse.
		Amnesia: Midazolam may cause anterograde amnesia.     Sucieitante of Impoure effects MALTITOL. Existence® contains multitul. Deficients with some
		<ul> <li>Excipients of known effect: MALTITOL; Epistatus<sup>®</sup> contains maltitol. Patients with rare hereditary problems of fructose intolerance should not take this medicine.</li> </ul>
		<ul> <li>ETHANOL; Epistatus<sup>®</sup> contains ethanol. The small amount of alcohol in this medicine</li> </ul>
		will not have any noticeable effects.
		Contraindications
		<ul> <li>Hypersensitivity to the active substance, benzodiazepines or to any of the excipients</li> </ul>
		<ul> <li>Myasthenia gravis.</li> </ul>
		<ul> <li>Severe respiratory insufficiency.</li> </ul>
		<ul> <li>Sleep apnoea syndrome.</li> </ul>
		<ul> <li>Severe hepatic impairment.</li> </ul>



BSW APC: BaNES, Swindon & Wiltshire (BSW) CCG, Avon & Wiltshire Mental Health Partnership NHS Trust (AWP), Royal United Hospitals Bath NHS Foundation Trust, Great Western Hospitals NHS Foundation Trust, Salisbury NHS Foundation Trust, Virgin Care, Swindon Community Health Services, Wiltshire Health & Care

<ul> <li>9. Significant medicine and food interactions and management</li> <li>For a comprehensive list, consult the BNF or Summary of Product Characteristics (SPC)</li> <li>10. Adverse effects</li> </ul>	<ul> <li>Midazolam is metabolized by cytochrome P450 3A4 isozyme (CYP3A4). Inhibitors and inducers of CYP3A4 have the potential to respectively increase and decrease the plasma concentrations and, subsequently, the effects of midazolam thus requiring dose adjustments accordingly.</li> <li>Calcium channel blockers, erythromycin, other macrolides, azole antifungals, cimetidine, ranitidine, omeprazole and grapefruit juice reduce the clearance of midazolam. This may result in prolonged duration of sedative effect.</li> <li>Midazolam may interact with other hepatically metabolised medicinal products, e.g. phenytoin, causing potentiation.</li> </ul>		
and	• The most common side	effects with Epistatus <sup>®</sup> (seen in 1	/100 to 1/10) are sedation,
management Include details of incidence, identification, importance and management.	<ul><li>vomiting. All patients rea after administration.</li><li>Respiratory depression of complication of convulsi</li></ul>	levels of consciousness, respirato ceiving midazolam are likely to be occurs at a rate of up to 5%, altho ve seizures as well as being relate not known; agitation, restlessne n reported.	e drowsy for several hours ough this is a known ed to benzodiazepine use.
11. Advice to	Read <u>Patient Information</u>	n Leaflet carefully to understand	how to give the medication.
patients and	Seek medical advice fror	n your doctor, nurse or pharmaci	ist if further enquiry required.
<b>Carers</b> The specialist will counsel the patient with regard to the benefits and risks of treatment and will provide the patient with any relevant information and advice, including patient information leaflets on individual medicines.		v to the ambulance staff or docto . Do not refrigerate or freeze. Sto	
12. Pregnancy and	Pregnancy:		
<b>breast feeding</b> It is the responsibility of the specialist to provide advice on the need for contraception to male and female patients on initiation and at each review but the ongoing responsibility for providing this advice rests with both the GP and the specialist.	<ul> <li>There are no or limited amount of data from the use of midazolam in pregnant women.</li> <li>Midazolam may be used during pregnancy if clearly necessary. The risk for new-born infants should be taken into account in the event of administration of midazolam in the third trimester of pregnancy.</li> <li>Breastfeeding:</li> <li>Midazolam is excreted in low quantities (0.6%) in human milk. As a result, it may not be necessary to stop breast feeding following a single dose of midazolam.</li> </ul>		
13. Specialist	Contact details	Telephone no.	Email address
contact	Faye Price	01225 825375	Faye.price@nhs.net
information	RUH Paediatric Epilepsy		
	Nurse Specialist		
	Natalie Morabito	01722 336 262	natalie.morabito@nhs.net
	Salisbury District Hospital		
	Specialist Epilepsy Nurse	01702 001000	
	Susan Mulhall & Natasha	01793 604969	susan.mulhall@nhs.net
	Harding	(24 hour voicemail)	
	GWH paediatric epilepsy		
	specialist nurse	formation	
	Other Specialist Contact In		
	<ul> <li>Click or tap here to enter</li> </ul>	r text.	



<b>14. Additional</b> <b>information</b> For example, process for when Specialist or GP changes roles; specific issues related to patient age/ capacity/ specific monitoring.	Click or tap here to enter text.
15. References	<ul> <li>Summary of Product Characteristics for 10mg/1ml Epistatus® via <u>https://www.medicines.org.uk/emc/product/2679/</u> (Please note that the lower strength pre-filled syringes used in children under the age of 10 are unlicensed and hence there is no SPC for them)</li> <li>BNF online via <u>https://bnf.nice.org.uk/</u></li> <li>Epilepsies: diagnosis and management NICE CG137 (Updated 12 May 2021): <u>https://www.nice.org.uk/Guidance/cg137</u></li> </ul>
16. To be read in conjunction with the following documents	<ul> <li>NHS England: Responsibility for Prescribing Between Primary &amp; Secondary/ Tertiary Care. Ref 07573, Version 1.0, Published January 2018. Accessed via: <u>https://www.england.nhs.uk/publication/responsibility-for-prescribing-between-primary-and-secondary-tertiary-care/</u></li> <li>Click or tap here to enter text.</li> </ul>

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