

# SHARED CARE AGREEMENT

Use of Oromucosal Midazolam Hydrochloride (Buccolam ® 10mg in 2ml) as an intervention for prolonged seizures and prevention of Status Epileptics in children from 3 months to under 18 years old

Amber TLS – 1 Month

### **Principles of Shared Care**

Shared care agreements (SCAs) 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 SCA does not necessarily mean that the GP must 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.

BUCCOLAM is now the brand of choice for oromucosal midazolam on BSW Formulary (Nov 21). It is licensed for use in children from 3 months to < 18 years. Please prescribe by BRAND NAME. Current patients who are under 10 years of age on Epistatus (unlicensed product) will be reviewed at their next appointment with the specialist nurse and the GP practice will be advised if the patient is being switched to BUCCOLAM. Nurses will then review the cohort of patients on licensed Epistatus age 10 years to <18 years. The aim will be to switch them to Buccolam unless there is a compelling reason why a more concentrated solution is required. Family to be made aware that Epistatus is unlicensed. Buccolam and Epistatus are NOT interchangeable.

### Use in adults (>18 years of age):

Please note that no oromucosal midazolam products are licensed for use in adults. Where it is recommended, the GP can prescribe it as an amber shared care medication as per this SCA. The usual recommended dose for an adult is 10mg but prescribers should consult the patients individual care plan if one is in place (or in the clinic letter if there is no care plan).

#### Responsibilities of Secondary Care Specialist Consultant or Nurse specialist

- Initiate treatment and prescribe the first supply of Buccolam 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 buccal midazolam are clearly communicated in writing to the GP, family/carer and any other setting in which buccal midazolam is to be held for emergency use e.g. school nursing/pre-school teams
- If a patient is switched to Buccolam by the specialist from Epistatus, it is their responsibility 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.
- 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 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 (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 midazolam 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: <a href="https://yellowcard.mhra.gov.uk/">https://yellowcard.mhra.gov.uk/</a>

• 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 oromucosal midazolam after communication with specialist about need for treatment and the formulation to be used 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 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	people who have had a previous episode of prolonged or serial convulsive seizures.
clinical guidelines e.g. NICE	• Over- and potentially inappropriate prescription of emergency benzodiazepines should not
	be used to alleviate individual, parental or carer's anxiety.



2 Dataila af	First line two stars and for al	. :   .			
2. Details of				ged (lasting 5 minutes or more)	
medicine and			n hour) generalised, convulsive		
indication Please state whether licensed	seizures in the community. To be used as per patient specific individual agreed protocol and				
or unlicensed (off-label) use.	<ul> <li>care plan.</li> <li>Licensed for treatment of prolonged, acute, convulsive seizures in infants, toddle</li> </ul>				
Note that shared care is		•	<b>C</b>		
generally unsuitable for off- label prescribing unless it is a			onths (hospital setting only) to <	, .	
widely recognised use (e.g.		s a snc	ort acting benzodiazepine that c	mers an alternative to rectal	
included in BNF)	diazepam.				
		usea	by parents/carers where the pa	itient has been diagnosed with	
2 Dhanna coutiach	epilepsy.	DUC	COLAM is for oromucosal use		
3. Pharmaceutical	Route of		COLAM IS IOF OFOTTUCOSALUSE		
aspects	administration:	<b>.</b>			
	Formulation:		illed needle-free oral syringe (4 p	re-filled syringes in each pack)	
	Administration details:		se refer to SPC and PIL.		
			COLAM 10 mg oromucosal solu		
			acteristics (SmPC) - (emc) (med	icines.org.uk)	
	Other important		for intravenous use.		
	information:			oved before use to avoid risk of	
		chok	•		
				A issued a warning (Drug Safety	
	Update in October 2011) that care was needed if transferring			-	
			veen Epistatus <sup>®</sup> and Buccolam <sup>®</sup>	due to the differences in	
			ngths between the products.		
				ormation/DrugSafetyUpdate/CO	
	Chandend deserves	<u>N13</u>	1931		
4. Usual dose and	Standard dosage:				
frequency			es are available in four colour-co	ded doses and are prescribed	
(including details of dose	according to the patient's	s age a		· · · · 1	
adjustments, e.g.	Age range		Dose	Label colour	
in renal	3 to 6 months hospital se	etting	2.5 mg	Yellow	
impairment) and	> 6 months to < 1 years	ar	2.5 mg	Yellow	
duration of therapy	1 year to < 5 years		5 mg	Blue	
Transfer of monitoring and	5 years to < 10 years	s	7.5 mg	Purple	
prescribing to Primary care is normally after the patient is	10 years to < 18 year		10 mg	Orange	
on regular dose and with					
satisfactory investigation results.	Buccolam <sup>®</sup> should be given by the oromucosal route (ie the area between the lower gums and				
All dose or formulation	inner cheek area of either side of the mouth). The full amount of the solution can be				
adjustments will be the	administered on one side but we generally recommend giving approximately half the dose on				
responsibility of the initiating specialist unless directions	each side. This should be specified in the individual care plan.				
have been discussed and	The solution should be administered slowly into the space between the gum and the cheek,				
agreed with the primary care clinician.	avoiding contact with the tongue, and the cheek pressed and massaged immediately to retain the solution and assist with absorption				
The duration of treatment will	the solution and assist with absorption.				
be determined by the	Standard advice given to parents – if seizure is not settling 5 minutes after the first dose then call 999 for an ambulance. Follow advice on individualised care plan. A second dose of midazolam can be given 10				
specialist, based on clinical response and tolerability.		alicad		dazolam can be given 10	
specialist, based on clinical response and tolerability. Termination of treatment will	Follow advice on individu		care plan. A second dose of mi	_	
response and tolerability. Termination of treatment will be the responsibility of the	Follow advice on individu minutes after the first do	se but	care plan. A second dose of mi for most children this is only a	dvised in the presence of	
response and tolerability. Termination of treatment will	Follow advice on individu minutes after the first do ambulance crew or a hos	se but pital s	care plan. A second dose of mi	dvised in the presence of e of midazolam to give to the	



	<ul> <li>What to do if a seizure starts again: A second or repeat dose when seizures re-occur after an initial response should not be given without prior medical advice UNLESS its specified in their care plan.</li> <li>Review and discontinuation of treatment         An ongoing review of the continued need for emergency rescue treatment with oromucosal midazolam should be carried out by a specialist at least every 12 months to ensure the seizure management plan is still appropriate and to prevent unnecessary long-term prescribing.     </li> </ul>
5. Baseline	Baseline investigations
investigations and initial monitoring to be undertaken by specialist	None required
6. Ongoing monitoring requirements to be undertaken by primary care	None required
7. Action(s) to be taken by primary care if abnormal result(s)	If frequency of use increases seek advice from the specialist team
8. Cautions and	Cautions
<b>contraindications</b> Please note this does not replace the Summary of Product Characteristics (SPC) and should be read in conjunction with it.	<ul> <li>Buccolam should be used with caution in patients with chronic renal failure as elimination of midazolam may be delayed and the effects prolonged. Careful monitoring of the clinical effects and vital signs is recommended following administration of midazolam in patients with hepatic impairment. Midazolam should be used with caution in patients with chronic respiratory insufficiency because midazolam may further depress respiration.</li> <li>Contraindications</li> </ul>
	<ul> <li>Hypersensitivity to the active substance (midazolam), benzodiazepines or to any of the excipients, myasthenia gravis, severe respiratory insufficiency, sleep apnoea syndrome, severe hepatic impairment.</li> </ul>
9. Significant medicine and food interactions and management	<ul> <li>Midazolam is metabolized by 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,</li> </ul>
For a comprehensive list, consult the BNF or Summary of Product Characteristics	ranitidine, omeprazole and grapefruit juice reduce the clearance of midazolam. This may result in prolonged duration of sedative effect.
( <u>SPC</u> )	<ul> <li>Midazolam may interact with other hepatically metabolised medicinal products, e.g.</li> <li>phenytoin, causing potentiation</li> </ul>
10. Adverse effects	phenytoin, causing potentiation. Adverse Effects (see SPC for full list)
and management Include details of incidence, identification, importance and management.	<ul> <li>The most common side effects with Buccolam (seen in 1/100 to 1/10) are sedation, somnolence, depressed levels of consciousness, respiratory depression and nausea and vomiting. All patients receiving midazolam are likely to be drowsy for several hours after administration.</li> <li>Rare: agitation, restlessness and disorientation have been reported.</li> </ul>
	י המרכי מצורמנוסה, רבאובאארבא מחת מואסרובווגמנוסח חמיב שבפון ופעטו נפע.



11. Advice to patients	Buccolam pre-filled o	ral syringes are avai	lable in four colour-coc	led doses and are		
and carers	prescribed according					
The specialist will counsel the						
patient with regard to the benefits and risks of treatment	Age range		Dose	Label colour		
and will provide the patient	3 to 6 months hospital s	setting	2.5 mg	Yellow		
with any relevant information and advice, including patient	> 6 months to < 1 ye	ear	2.5 mg	Yellow		
information leaflets on individual medicines.	1 year to < 5 years	S	5 mg	Blue		
individual medicines.	5 years to < 10 yea	rs	7.5 mg	Purple		
	10 years to < 18 years	ars	10 mg	Orange		
			y to understand how to			
	Buccolam UK P2.indd			0		
			before use to avoid ris	k of choking.		
	Seek medical advice f			-		
	• Keep the syringe to sh	now to the ambulan	ce staff or doctor after	administration.		
	• Storage: keep the ora	I syringe in the prot	ective plastic tube. Do	not refrigerate or freeze.		
	Contact specialist if ye	ou start to need to ι	use this medication mo	re frequently.		
	Useful patient inform	ation including adm	inistration video: <u>Bucc</u>	olam NXP » About Epilepsy		
12. Pregnancy and	Pregnancy:					
breast feeding	• There are no or limited amount of data from the use of midazolam in pregnant women.					
It is the responsibility of the specialist to provide advice on	-			he risk for new-born infants		
the need for contraception to			ent of administration	of midazolam in the third		
male and female patients on	trimester of pregnance	cy.				
initiation and at each review but the ongoing responsibility	Breastfeeding:					
for providing this advice rests		•		. As a result, it may not be		
with both the GP and the specialist.	necessary to stop bre	ast feeding followin	g a single dose of mida	zolam.		
13. Specialist contact						
information	Contact details	Telephone no.	Email address			
	Faye Price	01225 825375	Faye.price@nhs.net			
	RUH Paediatric					
	Epilepsy Nurse					
	Specialist					
	Natalie Morabito	01722 336 262	natalie.morabito@r	<u>hs.net</u>		
	Salisbury District					
	Hospital Specialist					
	Epilepsy Nurse					
	Susan Mulhall	01793 604969	susan.mulhall@nhs.	net		
	GWH paediatric	(24 hour				
	epilepsy specialist	voicemail)				
	nurse Other Createlist Contest	01793 605193				
	•	Other Specialist Contact Information  Click or tap here to enter text				
	Click or tap here to enter text.					
14 Additional	Not applicable					
14. Additional						
information						
<b>information</b> For example, process for when Specialist or GP changes roles;						
<b>information</b> For example, process for when						



15. References	<ul> <li>Summary of Product Characteristics for Buccolam via <u>https://www.medicines.org.uk/emc/product/7460/smpc</u></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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