

SHARED CARE AGREEMENT

Use of Oromucosal Midazolam Hydrochloride (Buccolam [®] 10mg in 2ml) as an intervention for prolonged seizures and prevention of Status Epilepticus in children from 6 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[®] has been the brand of choice for oromucosal midazolam on BSW Formulary since Nov 21. The 2.5mg/5mg/7.5mg/10mg are licensed for use in children from 3 months to < 18 years and the 10mg is also licensed for use in adults. Please prescribe by BRAND NAME. Specialist nurses are reviewing the cohort of patients on **Epistatus**[®] and the aim will be to switch them to Buccolam[®]. If Buccolam[®] is unavailable, Epistatus[®] may be prescribed with caution and appropriate counselling. Epistatus[®] is a more concentrated solution. It is essential the dose of buccal midazolam prescribed on FP10 matches the dose in the syringe and the dose on the care plan before administering.

Responsibilities of Secondary Care Specialist Consultant or Nurse specialist (continued overleaf)

- 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



Responsibilities of Secondary Care Specialist Consultant or Nurse specialist (continued)

- 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: <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 Buccolam 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.

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1. Summary of	Epilepsies in children, young people and adults NICE guideline NG217 Published 27 April 2022		
condition and	(updated Jan 2025): Overview Epilepsies in children, young people and adults Guidance		
treatment aims	NICE		
Include links to relevant clinical guidelines e.g. NICE	 Only prescribe oromucosal midazolam for use in the community for children and young people who have had a previous episode of prolonged or serial convulsive seizures. Over- and potentially inappropriate prescription of emergency benzodiazepines should not be used to alleviate individual, parental or carer's anxiety. 		

2. Details of medicine and indication Please state whether licensed or unlicensed (off-label) use. Note that shared care is generally unsuitable for off- label prescribing unless it is a widely recognised use (e.g. included in BNF)	First-line treatment for children and young people with prolonged (lasting 5 minutes or more), repeated or cluster (typically three or more self-terminating seizures in 24 hours), generalised, convulsive (tonic–clonic, tonic or clonic) seizures in the community. To be used as per patient specific individual agreed protocol and care plan. Licensed for treatment of prolonged, acute, convulsive seizures in infants, toddlers, children and adolescents (from 3 – 6 months hospital setting only) to < 18 years). Oromucosal midazolam is a short acting benzodiazepine that offers an alternative to rectal diazepam. BUCCOLAM must only be used by parents/carers where the patient has been diagnosed with epilepsy.			
3. Pharmaceutical	Route of	BUC	COLAM is for oromucosal use	
aspects	administration:			
	Formulation:	Pre-f	illed needle-free oral syringe (4 p	re-filled syringes in each pack)
	Administration details:	Plea	se refer to SPC and PIL.	
		BUC	COLAM 10 mg oromucosal solu	tion - Summary of Product
		<u>Char</u>	acteristics (SmPC) - (emc) (med	icines.org.uk)
	Other important	Not	for intravenous use.	
	information:	chok SAFE Upda betw strer	sing. TY: MHRA Guidance; The MHR ate in October 2011) that care w veen Epistatus [®] and Buccolam [®] ngths between the products. ://www.mhra.gov.uk/Safetyinfo	-
4. Usual dose and	Standard dosage:			
frequency	-	syringe	es are available in four colour-co	oded doses and are prescribed
(including details	according to the patient's			·
of dose	Age range		Dose	Label colour
adjustments, e.g.		otting		Yellow
in renal	3 to 6 months hospital se		2.5 mg	
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 prescribing to Primary care is	5 years to < 10 year	s	7.5 mg	Purple
normally after the patient is	10 years to < 18 years	rs	10 mg	Orange
on regular dose and with satisfactory investigation results. All dose or formulation adjustments will be the responsibility of the initiating specialist unless directions have been discussed and agreed with the primary care clinician. The duration of treatment will be determined by the specialist, based on clinical response and tolerability. Termination of treatment will be the responsibility of the specialist.	Buccolam [®] should be given by the oromucosal route (ie the area between the lower gums and inner cheek area of either side of the mouth). The full amount of the solution can be administered on one side but we generally recommend giving approximately half the dose on each side. This should be specified in the individual care plan. The solution should be administered slowly into the space between the gum and the cheek, avoiding contact with the tongue, and the cheek pressed and massaged immediately to retain the solution and assist with absorption. 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 minutes after the first dose but for most children this is only advised in the presence of ambulance crew or a hospital setting. Retain the empty syringe of midazolam to give to the healthcare professional. This will provide information on the dose received by the patient. 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.			



	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.
5. Baseline investigations and initial monitoring to be undertaken by specialist	Baseline investigations 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 contraindications Please note this does not replace the Summary of Product Characteristics (SPC) and should be read in conjunction with it.	 Cautions 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. Contraindications Hypersensitivity to the active substance (midazolam), benzodiazepines or to any of the excipients, myasthenia gravis, severe respiratory insufficiency, sleep apnoea syndrome, severe hepatic impairment.
9. Significant medicine and food interactions and management For a comprehensive list, consult the BNF or Summary of Product Characteristics (SPC)	 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. 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. Midazolam may interact with other hepatically metabolised medicinal products, e.g. phenytoin, causing potentiation.
10. Adverse effects	Adverse Effects (see SPC for full list)
and management Include details of incidence, identification, importance and management.	 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. Rare: agitation, restlessness and disorientation have been reported.



	prescribed according		ailable in four colour-coo patient:	ded doses and are		
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 with any relevant information	3 to 6 months hospital	setting	2.5 mg	Yellow		
and advice, including patient	> 6 months to < 1 y	ear	2.5 mg	Yellow		
nformation leaflets on ndividual medicines.	1 year to < 5 year	S	5 mg	Blue		
individual medicines.	5 years to < 10 years	ars	7.5 mg	Purple		
	10 years to < 18 years		10 mg	Orange		
	· · · · ·		illy to understand how to	Jan State St		
	Buccolam UK P2.indd			0		
				sk of choking.		
	 The oral syringe cap should be removed before use to avoid risk of choking. Seek medical advice from your doctor or pharmacist if further enquiry required. Keep the syringe to show to the ambulance staff or doctor after administration. 					
	• Storage: keep the ora	al syringe in the pr	otective plastic tube. Do	not refrigerate or freeze.		
	Contact specialist if y	ou start to need to	o use this medication mo	re frequently.		
	Useful patient inform	nation including ad	ministration video: Bucc	olam NXP » About Epilepsy		
.2. Pregnancy and	Pregnancy:					
breast feeding	There are no or limite	ed amount of data	from the use of midazol	am in pregnant women.		
t is the responsibility of the pecialist to provide advice on				he risk for new-born infants		
he need for contraception to	should be taken into account in the event of administration of midazolam in the third					
nale and female patients on nitiation and at each review	trimester of pregnan	cy.				
ut the ongoing responsibility	Breastfeeding:					
or providing this advice rests				. As a result, it may not be		
vith both the GP and the pecialist.	necessary to stop bre	east feeding follow	ing a single dose of mida	izolam.		
L3. Specialist contact						
information	Contact details	Telephone no.	Email address			
	Faye Price	01225 825375	Faye.price@nhs.net			
	RUH Paediatric					
	Epilepsy Nurse					
	Specialist	01722 336 262				
	SFT Epilepsy Nurse Specialist	01/22 336 262				
			oft nandconilonsv@	nhs not		
	· ·	01703 604060	<u>sft.paedsepilepsy@</u>			
	Susan Mulhall and	01793 604969 (24 hour	susan.mulhall@nhs	.net		
	Susan Mulhall and Natasha Thomas	(24 hour		.net		
	Susan Mulhall and Natasha Thomas GWH paediatric	(24 hour voicemail)	susan.mulhall@nhs	.net		
	Susan Mulhall and Natasha Thomas GWH paediatric Epilepsy Nurse	(24 hour	susan.mulhall@nhs	.net		
	Susan Mulhall and Natasha Thomas GWH paediatric	(24 hour voicemail) 01793 605193	susan.mulhall@nhs	.net		
	Susan Mulhall and Natasha Thomas GWH paediatric Epilepsy Nurse Specialists	(24 hour voicemail) 01793 605193 t Information	susan.mulhall@nhs	.net		
4. Additional	Susan Mulhall and Natasha Thomas GWH paediatric Epilepsy Nurse Specialists Other Specialist Contact • Click or tap here to e	(24 hour voicemail) 01793 605193 t Information nter text.	susan.mulhall@nhs Natasha.thomas22	<u>.net</u> @nhs.net		
4. Additional information	Susan Mulhall and Natasha Thomas GWH paediatric Epilepsy Nurse Specialists Other Specialist Contact • Click or tap here to en Please be advised that	(24 hour voicemail) 01793 605193 t Information nter text. at the use of Bud	susan.mulhall@nhs Natasha.thomas22	<u>.net</u> @nhs.net lled syringes should		
information For example, process for when	Susan Mulhall and Natasha Thomas GWH paediatric Epilepsy Nurse Specialists Other Specialist Contact • Click or tap here to en Please be advised that continue without the	(24 hour voicemail) 01793 605193 t Information nter text. at the use of Buc e need of a sea	susan.mulhall@nhs Natasha.thomas22 ccal Midazolam pre-fi ed cap. The pre-filled	<u>.net</u> <u>@nhs.net</u> lled syringes should d syringes will have a red		
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BSW SCA for Buccolam (Midazolam Hydrochloride 10mg in 2ml). Version 2. Approved: BSW APC Jan 2023, Reviewed & approved: Feb 25 (adult license update).



16. To be read in	• NHS England: Responsibility for Prescribing Between Primary & Secondary/ Tertiary Care.
conjunction with	Ref 07573, Version 1.0, Published January 2018. Accessed via:
the following	https://www.england.nhs.uk/publication/responsibility-for-prescribing-between-primary-
documents	and-secondary-tertiary-care/
	Click or tap here to enter text.

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	Minor update Feb 22 to include wording on P1 on use in adults (>18 years of age)
	Minor update Jan 23 to incorporate changes in Epistatus licence and links to
	updated NICE guidance
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