

CLINICAL GUIDELINE

Botulinum Toxin A (Botox) use in chronic migraine protocol

A guideline is intended to assist healthcare professionals in the choice of disease-specific treatments.

Clinical judgement should be exercised on the applicability of any guideline, influenced by individual patient characteristics. Clinicians should be mindful of the potential for harmful polypharmacy and increased susceptibility to adverse drug reactions in patients with multiple morbidities or frailty.

If, after discussion with the patient or carer, there are good reasons for not following a guideline, it is good practice to record these and communicate them to others involved in the care of the patient.

Version Number:	3	
Does this version include changes to clinical advice:	No	
Date Approved:	15 th September 2022	
Date of Next Review:	13 th July 2025	
Lead Author:	Krishna Dani	
Approval Group:	Institute of Neurological Sciences Medical Clinical Governance Group	

Important Note:

The Intranet version of this document is the only version that is maintained.

Any printed copies should therefore be viewed as 'Uncontrolled' and as such, may not necessarily contain the latest updates and amendments.

NHS	NHS Greater Glasgow and Clyde	
	Neurology	
Greater Glasgow and Clyde	Protocol for use of Botulinum toxin A (Botox®) in chronic migraine	
Background:	Onabotulinum toxin A (Botox®) is the only botulinum toxin which is licensed for chronic migraine in the UK. Botox® has been accepted for use by the Scottish Medicines Consortium in patients who have failed to respond to ≥3 prophylactic treatments. In NHS GGC, it is proposed that Botox® should not be considered until patients have received an adequate trial of ≥4 prophylactic treatments.	
Agent and route:	 Intramuscular injection Botulinum toxin products are not interchangeable therefore only onabotulinum toxin A (Botox®) should be used 	
Patient population applicable to:	Patients will be known to the Headache service in the Institute of Neurological Sciences	
Authorised and Designated Areas applicable to:	Institute Outpatients clinic room	
Indication and place in therapy:	Botox® for chronic migraine will only be recommended by the Headache Team (Consultant Neurologists and General Practitioners with Specialist Interest in Headache (GPSIs) where medication overuse has been appropriately managed.	
	Botox® should only be considered if patient has received an adequate trial (i.e. at least 6 weeks at therapeutic dose) of the following 4 medicines/classes of medicine (unless contraindicated or side effects):	
	Beta blockers (e.g. propranolol)	
	 Topiramate Tricyclic antidepressant drug (e.g. amitriptyline, dosulepin) Candesartan 	
	 If the above therapies have failed due to lack of efficacy, tolerability or are contra- indicated due to co-morbid condition then headache clinic clinician discretion to try Flunarizine (unlicensed and dispensed via hospital pharmacy) 	
	Botox will be stopped after 2 courses if	
	 Treatment has failed to reduce the number of headache days by at least 30% or the number of severe headache days by at least 50% or 	
	If chronic migraine becomes episodic (i.e. <15 days/month with headache for 3 consecutive months).	
	Upon initiation of treatment patients should be advised they are being trialled on the treatment and MUST bring their headache diaries to their appointments in order to assess effects, otherwise treatment will be withheld.	
	Patients who fail to bring their diary following this can still be administered the treatment on one occasion, however if they fail to present their diary on a second presentation, treatment will be withheld until diaries are submitted.	
Dose, duration and administration:	155 Units to 195 Units administered intramuscularly as 0.1 ml (5 Units) injections to 31 and up to 39 sites (see below). The recommended re-treatment schedule is every 12 weeks.	
	¹ IM injection site = 0.1ml = 5 units Botox ² Dose distributed bilaterally	

		Recommended Dose		
	Head/Neck area	Total Dosage (number of sites1)		
	Corrugator ²	10 Units (2 sites)		
	Procerus	5 Units (1 site)		
	Frontalis ²	20 Units (4 sites)		
	Temporalis ²	40 Units (8 sites) up to 50 Units (up to 10 sites)		
	Occipitalis ²	30 Units (6 sites) up to 40 units (up to 8 sites)		
	Cervical Paraspinal Muscle Group ²	20 Units (4 sites)		
	Trapezius ²	30 Units (6 sites) up to 50 Units (up to 10 sites)		
	Total Dose Range	155 Units to 195 Units		
		31 to 39 sites		
Strength of	200 unit vial where available			
preparation used:	2 x 100 unit vials if above not available.			
Licensed status:	Licensed Medicine			
	Dr Alok Tyagi, Consultant Neurologist, NHS GGC			
Authorised	Dr Johann Selvarajah, Consultant Neurologist, NHS GGC			
prescribers:	Dr George Gorrie, Consultant Neurologist, NHS GGC			
	Dr Michael McKenzie, GPSI			
	Dr Sandeep Sharma, GPSI			
	Laura McCorkell Headache CNS			
	Anissa Benchiheub, Clinical Nurse Specia			
	Dr Krishna Dani, Consultant Neurologist, NHS GGC			
	Dr Sarah Miller, Consultant Neurologist,	NHS GGC		
Authorised for	Dr Alok Tyagi, Consultant Neurologist, NI	HS GGC		
administration:	Dr Johann Selvarajah, Consultant Neurologist, NHS GGC			
	Dr George Gorrie, Consultant Neurologis	t, NHS GGC		
	Dr Krishna Dani, Consultant Neurologist, NHS GGC			
	Dr Sarah Miller, Consultant Neurologist, NHS GGC			
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	Laura McCorkell, Headache CNS			
	Christine Rankin, Headache CNS			
	Anissa Benchiheub, Headache CNS			
	Marcia McAdam, Headache CNS			
	Donna Neilson, Headache CNS			
	Marissa Herron, Headache CNS			
Authorised for	Yes			
preparation in				
clinical area:				
Authorised for	Vac Stara in a reference			
storage in clinical	Yes. Store in a refrigerator			
areas:				
References:	Scottish Medicines Consortium https://www.scottishmedicines.org.uk/medicines-advice/botulinum-toxin-a-botox-resubmission-69211/			
	Botox® Summary of Product Characteristics http://www.medicines.org.uk/emc/medicine/22562			
Updated by:	Dr Krishna Dani, Consultant Neurologist			
Checked by:	Laura Stobo, Senior Pharmacist Clinical Effectiveness			
Endorsed by:	West of Scotland Regional Headache Service, NHS GGC			
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