

## South East London Integrated Medicines Optimisation Committee Formulary recommendation

Reference	119
Intervention:	Botulinum toxin type A via intramuscular injection into vocal cords for spasmodic dysphonia (laryngeal dystonia) in adults (Botulinum toxin is a protein complex derived from the bacterium Clostridium botulinum)
Date of Decision	November 2020. Updated March 2022 following report on patient numbers and outcome data.
Date of Issue:	December 2020. Re-issued April 2022 following report on patient numbers and outcome data.
Recommendation:	Red – suitable for prescribing, supply and administration by the bosnital
Further Information	<ul> <li>Botulinum toxin type A injection is accepted for use in SEL for the treatment of spasmodic dysphonia (laryngeal dystonia) in adults in line with the following criteria:</li> <li>The spasmodic dysphonia is interfering with function or independence (e.g. communication, ability to intake nutrition) and/or is painful, and</li> <li>Conservative measures (including at least 3 sessions of speech therapy) have been ineffective and the next step would otherwise be surgery.</li> <li>The applicant is required to ensure that there is robust governance in place at Trust level for the use of botulinum toxin type A in this setting. This includes developing a clinical guideline for approval through the Trust Drug and Therapeutics Committee. The guideline should set out the place in therapy and outline how outcomes will be monitored over time. The guideline will also be shared with the SEL IMOC for information.</li> <li>In line with information provided by the applicant, a dose of botulinum toxin type A of 1.5 to 3 units will be injected into each vocal cord at each visit. Depending on patient response, treatment will be repeated 3-6 monthly if successful.</li> <li>April 2022: In line with the original formulary recommendation issued in December 2020, a report back to the Committee was requested after 12 months of use outlining the number of patients who continue treatment, outcomes and safety data. This was reported back in March 2022, patient numbers were lower than estimated due to the COVID-19 pandemic, however the outcomes data available indicated improvements in Voice-Related Quality of Life and Voice Handicap index and no safety concerns.</li> <li>As of April 2022, botulinum toxin type A injection for use in this indication, taking into account any locally negotiated prices.</li> <li>Note: at the time of writing, there are no brands of botulinum toxin type A injection licensed for the treatment of spasmodic dysphonia. Patients should be made aware of the off-label nature of use before treatment is started.</li></ul>
Shared Care/ Transfer of care required:	N/A
Cost Impact for agreed patient group	<ul> <li>This application suggests 15 patients per year will be treated in SEL. The patient number will be cumulative over time.</li> <li>Based on costs of the botulinum toxin type A preparation with the lowest acquisition cost and the cost of ENT initial and follow up clinical attendances, a cost of between £3,360-£6,720 for the first year in SEL. If all patients remained on treatment, by 5 years the patient cohort would have reached 75, which would equate to £16,800 - £33,600 per annum costs in SEL or up to ~£1,800 per 100,000 population. Of this, £9,000 to £18,000 would be drug costs (up to £1,000 per 100,000 population).</li> </ul>

South East London Integrated Medicines Optimisation Committee (SEL IMOC). A partnership between NHS organisations in South East London: South East London Clinical Commissioning Group (covering the boroughs of Bexley/Bromley/Greenwich/Lambeth/Lewisham and Southwark) and GSTFT/KCH /SLaM/ Oxleas NHS Foundation Trusts and Lewisham & Greenwich NHS Trust



Usage Monitoring &	Acute Trusts:
Impact Assessment	<ul> <li>Monitor use and submit usage data and audit reports (against this</li> </ul>
	recommendation and the pathway) upon request to the SEL IMOC.
	SEL Borough Medicines Teams:
	Monitor tariff excluded high cost drugs invoicing submitted by the Trust to the
	CSU to ensure billing of the most cost effective product.
Evidence reviewed	References (from evidence review)
	1. Watts C, Whurr R, Nye C. Botulinum toxin injections for the treatment of
	spasmodic dysphonia. Cochrane Database of Systematic Reviews. 2004.
	2. Stachler R, Francis D. Schwartz S et al. Clinical Practice Guideline: Hoarseness
	(Dysphonia(update. Otolaryngology–Head and Neck Surgery 2018 Volume: 158
	issue: 1_suppl, page(s): S1-S42.
	3. Botox (botulinum toxin). Summary of Product Characteristics. Available online at
	https://www.medicines.org.uk/emc/product/859/smpc (accessed 10/02/2020).
	4. Truong D, Rontal M, Rolnick M, Aronson A, Mistura K. Double-Blind Controlled
	Study of Botulinum Toxin in Adductor Spasmodic Dysphonia. The Laryngoscope.
	1991;101(6):630-634.
	5. Finnegan E, Luschei E, Gordon J, Barkmeier J, Hoffman H. Increased Stability of
	Airflow Following Botulinum Toxin Injection. The Laryngoscope. 1999;109(8):1300-
	1306. 6. van Esch B, Wegner I, Stegeman I, Grolman W. Effect of Botulinum Toxin and
	Surgery among Spasmodic Dysphonia Patients: A Systematic Review.
	Otolaryngology–Head and Neck Surgery. 2016;156(2):238-254.
	7. Patel P, Kabagambe E, Starkweather J, Keller M, Gamsarian V, Lee J et al.
	Outcomes of Onabotulinum Toxin A Treatment for Adductor Spasmodic
	Dysphonia and Laryngeal Tremor. JAMA Otolaryngology–Head & Neck Surgery.
	2018;144(4):293.
	8. Boutsen F, Cannito M, Taylor M, Bender B. Botox Treatment in Adductor
	Spasmodic Dysphonia. Journal of Speech, Language, and Hearing Research.
	2002;45(3):469-481.
	9. 9. Venkatesan N, Johns M, Hapner E, DelGaudio J. Abductor paralysis after botox
	injection for adductor spasmodic dysphonia. The Laryngoscope. 2010;1177-1180

## NOTES:

- a) SEL IMOC recommendations and minutes are available publicly via the website.
- b) This SEL IMOC recommendation has been made on the cost effectiveness, patient outcome and safety data available at the time. The recommendation will be subject to review if new data becomes available, costs are higher than expected or new NICE guidelines or technology appraisals are issued.
- c) Not to be used for commercial or marketing purposes. Strictly for use within the NHS