WELLMED Doctors helping patients for more than 25 years	Effective Date: 10/27/23	Revision Date(s): 10/18/18, 12/06/18, 01/07/20, 02/11/21, 02/18/22, 10/19/23			
Department: PHARMACY	MMC Review/ Approval Date(s): 01/14/20; 03/19/21, 03/15/22, 10/25/23	Page(s): 25			
Policy Number: 008.006					
Policy Title: Coverage Determination Policy for Botulinum toxin A and B					

Botox (OnabotulinumtoxinA); Dysport (AbobotulinumtoxinA); Myobloc (RimabotulinumtoxinB); Xeomin (IncobotulinumtoxinA)

Regions:		☐ Florida	☐ Indiana	☐ New Jersey	☑ New Mexico
Impacted A	Areas:				
Netwo	rk Managemen	t/Provider Services	□ Utilization IV	lanagement	
☐ Membe	er services		\square Case manage	ment	
☐ Quality	Management		\square Disease mana	gement	
☐ Creden	tialing				
□ ІТ			☐ Human resou	irces	
☐ Admini	stration		☐ Finance		
☐ Compli	ance/delegatio	n	☑ Pharmacy		

Available LCD/NCD/LCA: LCD - Botulinum Toxins (L38809)

Disclaimer:

WellMed Coverage Determination Policies are developed as needed, are regularly reviewed and updated, and are subject to change. They represent a portion of the resources used to support WellMed coverage decision making. WellMed may modify these Policy Guidelines at any time. Medicare source materials used to develop these guidelines include, but are not limited to, CMS National Coverage Determinations (NCDs), Local Coverage Determinations (LCDs), Medicare Benefit Policy Manual, Medicare Claims Processing Manual, Medicare Program Integrity Manual, Medicare Managed Care Manual, etc. The information presented in the WellMed Coverage Determination Policies is believed to be accurate and current as of the date of publication, and is provided on an "AS IS" basis. Where there is a conflict between this document and Medicare source materials, the Medicare source materials will apply.

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico

WellMed Medical Management pg. 1





Title: Coverage Determination Policy for Botulinum toxin A and B

• Botox (OnabotulinumtoxinA); Dysport (AbobotulinumtoxinA); Myobloc (RimabotulinumtoxinB); Xeomin (IncobotulinumtoxinA)

Table of Contents	Page	Coverage Policy Number: 008.006
Coverage Determination (General Requirements)	3	Line of Business: Medicare Part B
Coverage Determination (Initial/New Requests)	4	Policy Type: Prior Authorization
Coverage Determination (Renewal/Continuation of Therapy Requests)	10	
FDA Approved Dose and Indication	11	
General Background	15	
Clinical Evidence	16	
HCPCS Code, Dosage Form & Route of Administration	20	
Acronyms	21	
References	22	
Policy History/Revision Information	25	

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico

WellMed Medical Management pg. 2

Coverage Determination:

General Requirements

Applicable to ALL requests: New Starts/Renewals/Continuations

ALL of the following:

- A. Diagnosis
- B. Botulinum toxin administration is no more frequent than every 12 weeks, regardless of diagnosis
- C. **ONE** of the following:
 - Prescriber attests dosing is in accordance with the United States Food and Drug Administration (FDA) approved labeling; or
 - II. For indications without FDA approved dosing, prescriber attests there is published clinical evidence to support the dosing

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico pg. 3

WellMed Medical Management

Initial/New Requests

- 1. WellMed Medical Management will cover **Botox (OnabotulinumtoxinA)** as medically necessary for the following diagnoses:
 - A. **Achalasia** when **BOTH** of the following criteria are met:
 - I. Diagnosis of achalasia as confirmed by esophageal manometry
 - II. Other causes of dysphagia (e.g., peptic stricture, carcinoma, extrinsic compression) ruled out by upper gastrointestinal endoscopy
 - B. **Chronic anal Fissure** with inadequate response to conservative or pharmacologic treatment
 - C. Blepharospasm associated with dystonia
 - D. Cervical Dystonia (also known as spasmodic torticollis)
 - E. Detrusor overactivity (also known as detrusor hyperreflexia) or Detrusor-sphincter dyssynergia due to a spinal cord injury or disease when the following criteria are met:
 - I. Inadequate response to or are intolerant of an anticholinergic medication
 - II. **ONE** of the following:
 - a. Diagnosis of detrusor overactivity

OR

- Diagnosis of detrusor-sphincter dyssynergia due to spinal cord injury or disease
- F. Focal Limb Dystonia
- G. Hand tremor with a high amplitude tremor that disrupts activities of daily living and have had inadequate response to oral pharmacotherapy such as propranolol and primidone
- H. Hemifacial spasm (seventh cranial nerve disorders)
- I. Severe Axillary Hyperhidrosis that is inadequately managed by topical agents
- J. Chronic Migraine Headache when the following criteria are met:
 - I. Diagnosis of chronic migraine, defined by **ALL** of the following:
 - a. Greater than or equal to 15 headache days per month
 - b. Greater than or equal to 8 migraine days per month
 - c. Headaches last 4 hours per day or longer
- K. Oromandibular dystonia

- L. **Overactive bladder** when **ALL** of the following criteria are met:
 - I. Diagnosis of overactive bladder in adults who have an inadequate response to or are intolerant of an anticholinergic medication
 - II. **ONE** of the following symptoms:
 - a. Urge urinary incontinence
 - b. Urgency
 - c. Frequency
- M. Sialorrhea
- N. Spasmodic dysphonia
- O. **Spasticity** associated with **ONE** of the following:
 - I. Cerebral palsy
 - II. Multiple sclerosis
 - III. Neuromyelitis optica (NMO)
 - IV. Stroke
 - V. Other injury, disease or tumor of the brain or spinal cord
- P. Strabismus
- Q. Tongue dystonia
- R. Torsion dystonia
- S. Voice tremors
- T. Laryngeal dystonia (spastic dysphonia) for adductor type (ADSD)
- U. Simple motor tics (bothersome) in adults when the benefits of treatment outweigh the risks
- V. Severely disabling or aggressive vocal tics in adults when the benefits of treatment outweigh the risks

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico

- 2. WellMed Medical Management will cover **Xeomin (IncobotulinumtoxinA)** as medically necessary for the following diagnoses:
 - A. Blepharospasm associated with dystonia.
 - B. Cervical Dystonia (spasmodic torticollis)
 - C. **Spasticity** associated with **ONE** of the following:
 - I. Cerebral palsy
 - II. Multiple sclerosis
 - III. Neuromyelitis optica (NMO)
 - IV. Stroke
 - V. Other injury, disease, or tumor of the brain or spinal cord
 - D. Sialorrhea

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 pg. 6 Regions: Texas, New Mexico

WellMed Medical Management

- 3. WellMed Medical Management will cover **Dysport (AbobotulinumtoxinA)** as medically necessary for the following diagnoses:
 - A. Achalasia when both of the following criteria are met:
 - I. Diagnosis of achalasia as confirmed by esophageal manometry
 - II. Other causes of dysphagia (e.g., peptic stricture, carcinoma, extrinsic compression) ruled out by upper gastrointestinal endoscopy
 - B. Blepharospasm
 - C. Chronic anal fissures
 - D. Cervical Dystonia
 - E. Detrusor overactivity (also known as detrusor hyperreflexia) or detrusor-sphincter dyssynergia due to a spinal cord injury or disease when the following criteria are met:
 - I. **ONE** of the following:
 - a. Diagnosis of detrusor overactivity

- b. Diagnosis of detrusor-sphincter dyssynergia due to spinal cord injury or
- F. Hand Dystonia (writer's, musician's or typist's cramp)
- G. Hand tremor
- H. **Hemifacial spasm** (seventh cranial nerve disorders)
- I. **Hyperhidrosis including gustatory sweating** (Frey's Syndrome)
- J. Oromandibular dystonia
- K. Sialorrhea
- L. Spasmodic dysphonia
- M. **Spasticity** associated with **ONE** of the following:
 - I. Cerebral Palsy
 - II. Multiple sclerosis
 - III. Neuromyelitis optica (NMO)
 - IV. Stroke
 - V. Other injury, disease, or tumor of the brain or spinal cord
- N. Strabismus
- O. Tongue dystonia
- P. Torsion dystonia
- Q. Voice tremors

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico pg. 7

- 4. WellMed Medical Management will cover **Myobloc (RimabotulinumtoxinB)** as medically necessary for the following diagnoses:
 - A. Cervical dystonia or Spasmodic torticollis
 - B. Detrusor overactivity or Detrusor hyperreflexia
 - C. Spasticity associated with cerebral palsy; MS, Neuromyelitis Optica; Stroke or other injury, disease or tumor of the brain or spinal cord
 - D. Sialorrhea

NOTE: Wellmed will **NOT** cover Botox, Dysport, Myobloc and Xeomin for cosmetic indications

(e.g. glabellar lines, smoker's lines, crow's feet, laugh lines and aging neck). Dysport, Myobloc, and Xeomin are unproven and not medically necessary for the treatment of chronic migraine headache.

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico

pg. 8

WellMed Medical Management

WellMed Medical Management will NOT cover any botulinum toxin products for the treatment of the following conditions, as they have not been proven medically necessary:

Tollowing Conditions, as they have not b	The control of the co
Acquired nystagmus	Pancreas divisum
Anismus (pelvic floor dyssynergia) ¹¹	Pelvic floor spasticity (and associated pain conditions) ¹³
Benign prostatic hyperplasia 12,13,14	Piriformis syndrome ²⁶
Brachial plexus palsy ¹⁵	Post-parotidectomy sialoceles
Chronic daily headache ^{16,17}	Post-thoracotomy pseudoangina
Chronic low back pain ¹⁶	Proctalgia fugax ¹³
Chronic prostatic pain ¹⁸	Severe bruxism ²⁷
Cricopharyngeal dysphagia ²⁰	Severe paradoxical vocal cord movement ¹⁸
Epiphora following salivary gland transplantation	Sphincter of Oddi dysfunction
Esophageal spasm ²¹	Stiff-person syndrome
Gastroparesis (including diabetic gastroparesis) ^{22,23}	Temporomandibular disorders ²⁸
Gustatory epiphora (Crocodile tears)	Tension headache ^{17,29}
Head tremor	Thyroid associated ophthalmopathy
Lateral epicondylitis (tennis elbow) ²⁵	Tourette's syndrome ³⁰
Lichen simplex	Traumatic sixth nerve palsy
Lower urinary tract (voiding) dysfunction ^{19,13}	Trigeminal Neuralgia
Motor tics	Trismus and stridor in amyotrophic lateral sclerosis
Myofascial pain syndrome ²⁴	
Nasal hypersecretion ^{50,67}	
Pain and/or wound healing after hemorrhoidectomy	
· · · · · · · · · · · · · · · · · · ·	

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 pg. 9

WellMed Medical Management Regions: Texas, New Mexico

Renewal/Continuation of Therapy Requests

ALL Indications:

- 1. Botulinum toxin administration is no more frequent than every 12 weeks, regardless of diagnosis
- 2. Documentation of positive clinical response to botulinum toxin therapy

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 WellMed Medical Management Regions: Texas, New Mexico

pg. 10

FDA Approved Dose and Indication

FDA Approved Indication	Botox	Dysport	Myobloc	Xeomin
Bladder muscle dysfunction-OAB	х			
Blepharospasm	х			х
Cervical Dystonia	х	х	Х	Х
Chronic migraine headache	х			
Chronic Excessive Salivation			Х	Х
Severe hyperhidrosis of axilla	Х			
Incontinence due to detrusor instability associated with neurologic conditions	Х			
Lower limb spasticity	х	х		
Strabismus	х			
Upper Limb Spasticity	х	х		Х

- For all indications, dosing requested should be in accordance to FDA-approved dosing and should not exceed the MAXIMUM FDA-approved dosing.
- For NON- FDA approved indications, dosing regimen must be supported by clinical evidence from sources meeting Medicare guidelines.

WellMed Medical Management pg. 11

Product	FDA Approved Indication and Dosing				
Botox	When treating 1 or more indications in adults, the maximum cumulative dose of onabotulinumtoxinA should generally not exceed 400 units in a 3-month interval and in pediatric patients, the total dose should not exceed the lower of 10 units/kg body weight or 340 units, in a 3-month interval Blepharospasm: Initial, 1.25 to 2.5 units (0.05 to 0.1 mL into each of 3 sites per affected eye MAX, 200 units/30 days cumulative MAX, 200 units/30 days* Cervical Dystonia: Treatment naive: Use lower initial dose. Limit total dose administered into sternocleidomastoid muscles to 100 units or less to decrease dysphagia occurrence. Patients with history of Botox(R) tolerance: 198 to 300 units (mean, 236 units) divided among affected muscles Chronic migraine headache: total dose 155 Units, as 0.1 mL (5 Units) injections per each site divided across 7 head/neck muscles into each of 31 sites divided across 7 specific head/neck muscle areas (20 units divided in 4 sites in frontalis muscle, 10 units divided in 2 sites in corrugator muscle, 5 units in 1 site in procerus muscle, 30 units divided in 6 sites in occipitalis muscle, 40 units divided in 8 sites in temporalis muscle, 30 units divided in 6 sites in trapezius muscle, and 20 units divided in 4 sites in cervical paraspinal muscle group; doses should be evenly distributed bilaterally in all muscles (except for procerus muscle)* Severe hyperhidrosis of axilla: 50 units (2 mL of a 2.5 units/0.1 mL reconstituted solution) per axilla injected intradermally divided into 0.1 to 0.2 mL aliquots evenly distributed into 10 to 15 sites approximately 1 to 2 cm apart; reinjection may be performed when the benefit of the previous injection lessens Overactive Bladde: total dose 100 Units, as 0.5 mL (5 Units) injections across 20 sites into the detrusor Incontinence due to detrusor instability associated with neurologic conditions: 200 units administered as thirty 1-mL (30 mL of a 6.7 units/1 mL reconstituted solution) injections across detrusor muscle. Median time to retreatment is 42 to				

Upper Limb Spasticity: TOTAL dose up to 400 Units divided among affected muscles. Upper limb spasticity, start with lowest dose; usual dosage ranged from 75 to 400 units (using a 5 units/0.1 mL reconstituted solution) per treatment session. Biceps brachii, 60 to 200 units IM divided in 2 to 4 sites; Brachioradialis, 45 to 75 units IM divided in 1 to 2 sites; Brachialis, 30 to 50 units IM divided in 1 to 2 sites; Pronator teres, 15 to 25 units IM in 1 site; Pronator quadratus, 10 to 50 units IM in 1 site; flexor carpi radialis, 12.5 to 50 units IM in 1 site; flexor carpi ulnaris, 12.5 to 50 units IM in 1 site; flexor digitorum profundus, 30 to 50 units IM in 1 site; flexor digitorum sublimis, 30 to 50 units IM in 1 site; Lumbricals/Interossei, 5 to 10 units IM in 1 site; adductor pollicis, 20 units IM in 1 site; flexor pollicis longus, 20 units IM in 1 site; Flexor pollicis brevis/Opponens pollicis 5 to 25 units IM in 1 site; MAX 50 units/site **Cervical Dystonia:** Initial, 500 units IM, divided among 2 to 4 affected muscles [3] Maintenance, 250 units to maximum of 1000 units IM total dose in a single treatment, divided among 2 to 4 affected muscles* Lower limb spasticity: Total doses of 1000 and 1500 units divided among selected muscles at a given treatment session: Flexor digitorum longus, 130 to 200 units IM in 1 to 2 injection sites per muscle; flexor hallucis longus, 70 to 200 units IM in 1 injection site per muscle; gastrocnemius, medial or lateral head, 100 to 150 units IM in 1 injection site per muscle; soleus, 330 to 500 units IM in 3 injection sites per muscle; tibialis posterior, 200 to 300 units IM in 2 injection sites per muscle; no more **Dysport** than 1 mL should be injected into any single injection site; MAX dose for upper and lower limb combined is 1500 units* Upper Limb Spasticity: Total doses of 500 and 1000 units divided among selected muscles at a given treatment sessions: flexor carpi radialis, flexor carpi ulnaris, flexor digitorum profundus, flexor digitorum superficialis, brachioradialis, 100 to 200 units IM in 1 to 2 injection sites per muscle; brachialis, biceps brachii, 200 to 400 units IM in 1 to 2 injection sites per muscle; pronator teres, 100 to 200 units IM in 1 injection site; no more than 1 mL should be injected into any single injection site; MAX dose for upper and lower limb combined is 1500 units* Cervical Dystonia: Initial, 2500 to 5000 units divided among affected muscles for patients with history of tolerating botulinum toxin injections; use a lower initial dosage for patients without a history of tolerating botulinum toxin injections. Myobloc Duration of response was 12 to 16 weeks at doses of 5000 or 10,000 units. Chronic Excessive Salivation: Initial, 1500 to 3500 units divided among the parotid and submandibular glands as 500 to 1500 units into each parotid gland and 250 units into each submandibular gland.* Blepharospasm: Initial, 50 units (25 units per eye) Max dosage: 100 units per treatment session (50 units per eye) Cervical Dystonia: Initial total dose, 120 units divided Chronic sialorrhea: TOTAL dose of 100 units via intra-salivary gland injection close to the center of the gland, divided as 30 units per side in parotid glands (60 units total) Xeomin and 20 units per side in submandibular glands (40 units total)** repeat no sooner than every 16 weeks** **Upper Limb Spasticity:** (Clenched fist, flexor digitorum superficialis or flexor digitorum profundus) 25

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico WellMed Medical Management pg. 13

session*

to 100 units IM in 2 injection sites per muscle; MAX 400 units/treatment

- (Flexed wrist, flexor carpi radialis) 25 to 100 units IM in 1 to 2 injection sites per muscle; MAX 400 units/treatment session*
- (Flexed wrist, flexor carpi ulnaris) 20 to 100 units IM in 1 to 2 injection sites per muscle; MAX 400 units/treatment session*
- (Flexed elbow, biceps) 50 to 200 units IM in 1 to 4 injection sites per muscle; MAX 400 units/treatment session*
- (Flexed elbow, brachialis) 25 to 100 units IM in 1 to 2 injection sites per muscle; MAX 400 units/treatment session*
- (Flexed elbow, brachioradialis) 25 to 100 units IM in 1 to 3 injection sites per muscle; MAX 400 units/treatment session*
- (Pronated forearm, pronator quadratus) (Thumb-in-palm, flexor pollicis longus) 10 to 50 units IM in 1 injection site per muscle; MAX 400 units/treatment session*
- (Pronated forearm, pronator teres) 25 to 75 units IM in 1 to 2 injection sites per muscle; MAX 400 units/treatment session*
- (Thumb-in-palm, adductor pollicis, flexor pollicis brevis, or opponens pollicis) 5 to 30 units IM in 1 injection site per muscle; MAX 400 units/treatment session*
- (Thumb-in-palm, flexor pollicis longus) 10 to 50 units IM in 1 injection site per muscle; MAX 400 units/treatment session*

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Regions: Texas, New Mexico pg. 14

WellMed Medical Management

^{*}Repeat no frequently than every 12 weeks

^{**}Repeat no frequently than every 16 weeks

General Background

Botulinum toxin is produced by the gram positive anaerobic bacterium, Clostridium Botulinum. Botulinum toxins interfere with neural transmission by inhibiting the release of acetylcholine which is an important neurotransmitter at the neuromuscular junction. This inhibition results in muscle paralysis. The clinical indications for botulinum toxins have expanded rapidly over the years. They have been found to be useful in treating various conditions such as overactive skeletal muscles (e.g. hemifacial spasm, dystonia, and spasticity), smooth muscles disorders (e.g. detrusor overactivity and achalasia), disorder of the glands (e.g. sialorrhoea and hyperhidrosis) focal muscle spastic disorders and excessive muscle contractions, such as dystonias, spasms, and twitches.

There are seven serologically distinct forms of botulinum toxin, A through G. All seven neurotoxins share a common structure consisting of one heavy chain and one light chain. They all inhibit acetylcholine release at the neuromuscular junction via the enzymatic inactivation of a protein that is required for the docking and fusion process involved in the release of acetylcholine. Each neurotoxin works at a distinct site. Botulinum toxin type A cleaves the protein SNAP-25 and botulinum toxin type B cleaves synaptobrevin, both of these proteins are part of a protein complex necessary for proper docking and fusion.

There are currently four botulinum toxin products commercially available in the United States: Botox® (onabotulinumtoxinA), Myobloc® (rimabotulinumtoxinB), Dysport® (abobotulinumtoxinA), and Xeomin® (incobotulinumtoxinA). Each preparation has distinct pharmacological and clinical profiles, and thus is not interchangeable. Recent changes made to the drug names by the FDA were intended to re-enforce the differences among the botulinum toxins products to prevent medication errors.

There are no NCDs relevant to the botulinum toxin products at the time of this policy revision.

Precautions and Warnings

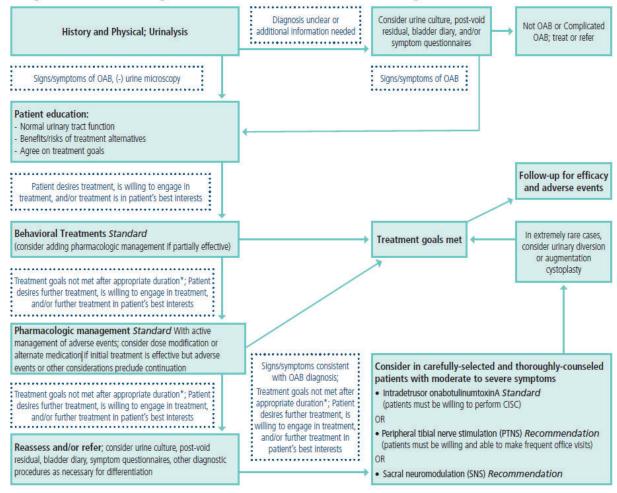
A Black Box Warning is on all the product labeling for botulinum toxin products:

The effects of BOTOX and all botulinum toxin products may spread from the area of injection to produce symptoms consistent with botulinum toxin effects. These symptoms have been reported hours to weeks after injection. Swallowing and breathing difficulties can be life threatening and there have been reports of death. The risk of symptoms is probably greatest in children treated for spasticity but symptoms can also occur in adults, particularly in those patients who have an underlying condition that would predispose them to these symptoms.

Clinical Evidence

A. Overactive Bladder

Diagnosis & Treatment Algorithm: AUA/SUFU Guideline on Non-Neurogenic Overactive Bladder in Adults



The complete OAB Guideline is available at www.AUAnet.org/Guidelines.

*Appropriate duration is 8 to 12 weeks for behavioral therapies and 4 to 8 weeks for pharmacologic therapies

B. Achalasia:

Achalasia is a primary motor disorder of the esophagus characterized by insufficient lower esophageal sphincter relaxation and loss of esophageal peristalsis. This results in patients' complaints of dysphagia to solids and liquids, regurgitation, and occasional chest pain with or without weight loss. Endoscopic finding of retained saliva with puckered gastroesophageal junction or barium swallow showing dilated esophagus with birds beaking in a symptomatic patient should prompt appropriate diagnostic and therapeutic strategies.

The main appeal of botulinum toxin treatment is the user-friendly approach that is not much more complicated than performing elective endoscopy and the low rates of serious complications. The standard approach is to place 100 units of the toxin using a scleroneedle just above the squamocolumnar junction in at least 4 quadrants. The toxin is usually diluted in preservative-free saline an injected in 0.5-1 ml aliquots. Doses higher than 100 units have not been shown to be more effective and the 12-month success rate ranges from 35 to 41 % . Although the initial (one-month) response rate is high (> 75%), the therapeutic effect eventually wears off and repeat injection is often required in a significant portion of

the patients. Approximately 50 % of patients relapse and require repeat treatments at 6 - 24-month intervals.9

Oral pharmacologic therapies, such as calcium channel blockers and long-acting nitrates are commonly reserved for patients with achalasia who cannot or refuse to undergo more definitive therapies (PD or surgical myotomy) and those who have failed botulinum toxin injections

C. Chronic Anal Fissures:

The aim of the study was to evaluate the efficacy of botulinum toxin injection in the treatment of recurrent anal fissure following lateral internal sphincterotomy. Eighty patients were treated with botulinum toxin (30 units Botox® or 90 units Dysport®), injected into two sites of the internal sphincter. Clinical and manometric results were recorded before and after treatment. If symptoms persisted at 2 months, the examiners could decide to re-treat the patient. The same preparation of serotype A of botulinum neurotoxin was used for reinjection. One month after injection there was complete healing in 54 patients (68 per cent). Eight patients (10 per cent) reported mild incontinence of flatus that had disappeared spontaneously within 2 months. At 2 months, 59 patients (74 per cent) had a healing scar. After reinjection, 11 of 21 re-treated patients reported mild incontinence to flatus that lasted for a few weeks and resolved spontaneously. Anorectal manometry at 1 month demonstrated a significant reduction in both resting anal pressure and maximum voluntary squeeze pressure (P < 0.001). There were no relapses during a mean value of 57.9 months of follow-up. Botulinum toxin is efficacious in patients with recurrent anal fissure following lateral internal sphincterotomy

D. Blepharospasm, cervical dystonia, adult spasticity, and headache:

Indication	Level Aª effective	Level B ^b probably effective	Level C ^c possibly effective	Level U ^d insufficient evidence	Level A° ineffective	Level B ^f ineffective
Blepharospasm		OnabotulinumtoxinA, incobotulinumtoxinA	AbobotulinumtoxinA	RimabotulinumtoxinB		
Cervical dystonia	AbobotulinumtoxinA, rimabotulinumtoxinB	OnabotulinumtoxinA, incobotulinumtoxinA				
Upper limb spasticity ^g	AbobotulinumtoxinA, onabotulinumtoxinA, h incobotulinumtoxinA	RimabotulinumtoxinB				
Lower limb spasticity	OnabotulinumtoxinA, abobotulinumtoxinA			IncobotulinumtoxinA, rimabotulinumtoxinB		
Chronic migraine	OnabotulinumtoxinA ⁱ					
Episodic migraine					OnabotulinumtoxinA	
Tension-type headache						Onabotulinumtoxin/

Abbreviations: aboBoNT-A = abobotulinumtoxinA; incoBoNT-A = incobotulinumtoxinA; onaBoNT-A = onabotulinumtoxinA; rimaBoNT-B = rimabotulinumtoxinB.

Effective Date: 10/27/23 Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Regions: Texas, New Mexico pg. 17

^aLevel A recommendation for effectiveness signifies intervention should be offered.

^bLevel B recommendation for effectiveness signifies intervention should be considered.

^cLevel C recommendation for effectiveness signifies intervention may be considered.

d Level U recommendation signifies insufficient evidence to support or refute effectiveness of intervention.

^{*}Level A recommendation for ineffectiveness signifies intervention should not be offered.

f Level B recommendation for ineffectiveness signifies intervention should not be considered.

⁹ Evidence demonstrates efficacy in reducing spasticity but is inadequate to determine improvement in active function associated with limb spasticity.

h Probably superior to tizanidine and exercise alone for reducing spasticity.

Established as effective for decreasing the number and severity of headaches; probably effective in improvement of health-related quality of life.

E. Chronic Migraine Headache:

First-line prophylactic medications for chronic migraine include: Propranolol, Amitriptyline, Topiramate, Valproic acid and its derivatives for men (and for women who do not have childbearing potential) We suggest that treatment for patients with chronic migraine begin with trials of one of these agents. It is expected that up to 50 percent of patients treated with one of these medications will have at least a 50 percent reduction in the frequency of headaches after three months of treatment, given adequate doses. However, side effects are common and may limit the use of these prophylactic agents. Second- and third-line agents — For patients with chronic migraine that is refractory to adequate trials of first-line agents, a number of other drugs are potential alternatives, including the following: Botulinum toxin type A (onabotulinumtoxinA), Erenumab-aooe, Verapamil, Other beta blockers (atenolol, nadolol, metoprolol, timolol), Gabapentin, Magnesium, Riboflavin, Candesartan, Other tricyclic antidepressants (nortriptyline, protriptyline)

F. Hypersecretory disorders:

Primary focal hyperhidrosis is a chronic idiopathic disorder of excessive sweating which most often affects the axillae, palms, soles, and forehead. Treatment options include topical or systemic pharmacologic therapy, iontophoresis, or surgical procedures. Drooling may be a disabling problem in parkinsonian syndromes, amyotrophic lateral sclerosis, and cerebral palsy. In these disorders, drooling is primarily due to decreased swallowing rather than increased salivary production and may be amenable to pharmacologic treatment or local radiation and surgery in severe cases.

G. Axillary hyperhidrosis:

Two Class I studies and several Class II studies were identified in axillary hyperhidrosis (table e-1 on the Neurology® Web site at www.neurology.org). In a randomized, placebo-controlled, double-blind study of 320 subjects with axillary hyperhidrosis, 242 patients received BoNT and 78 received saline placebo intradermally.3 Patients receiving BoNT had a higher response rate (more than 50% reduction of sweat production compared to baseline sweating) at all time points than those receiving placebo (82% to 95% vs 20% to 37%; p < 0.001). There was a similar pattern in the decrease of sweat production, and improvement in quality of life. Treatment-related adverse events were reported by 27 patients (11%) receiving BoNT and 4 (5%) receiving placebo, but this difference was not significant (p = 0.13). The mean duration of therapeutic effect was 31 weeks.

In another Class I study of 145 patients with axillary hyperhidrosis, BoNT was injected into one axilla and placebo was injected into the other in a randomized, double-blind manner. At week 2, sweat production was reduced in the axilla that had received BoNT as compared with the placebo-injected side (p < 0.001). Injections were well tolerated.

H. Palmar hyperhidrosis:

Two Class II and several Class III studies were identified in the use of BoNT in palmar hyperhidrosis. In one randomized, placebo-controlled, double-blind Class II study in 19 patients with palmar hyperhidrosis, sweating was significantly reduced by BoNT as compared with placebo based on gravimetric measurements. There was no resulting muscle weakness. Another Class II study in 11 patients with palmar hyperhidrosis also showed reduction of palmar sweating compared with placebo (p < 0.001) using a digitized ninhydrin test. One Class III study evaluated the effect of BoNT on hand muscle strength. No grip weakness resulted in any patients, whereas pinch strength was reduced 2 weeks after the injection. Pinch strength returned to baseline levels 2 months after treatment.

I. Gustatory sweating:

Five Class III studies were identified on the use of BoNT in gustatory sweating after parotidectomy. Intradermal injections of BoNT resulted in a significant and consistent reduction of the area of sweating without significant side effects.

J. Drooling in neurodegenerative diseases and hyperlacrimation:

Four Class II studies were identified in the treatment of sialorrhea in Parkinson's disease (3 BoNT-A and 1 BoNT-B). One of the studies also included 12 patients with ALS. BoNT significantly reduced the amount of saliva production after injection of the parotid/submandibular glands. Adverse events were reported as mild. Only Class IV studies were identified in the use of BoNT in hyperlacrimation. These consistently showed a reduction of tearing after injections of BoNT into the lacrimal glands.

K. Detrusor Overactivity:

Patients who completed a 52-week, phase III trial of onabotulinumtoxinA for NDO were eligible to enter a 3-year, multicenter, open-label extension study of intradetrusor onabotulinumtoxinA (200U or 300U). Patients were treated "as needed" based on their request and fulfillment of prespecified qualification criteria (≥12 weeks since previous treatment and a UI episode threshold). Assessments included change from study baseline in UI episodes/day (primary efficacy measure), volume/void, and Incontinence Quality of Life (I-QOL) total score (week 6); duration of effect; adverse events (AEs); and initiation of de novo clean intermittent catheterization (CIC). Data are presented for up to six treatments.

OnabotulinumtoxinA 200U consistently reduced UI episodes/day; reductions from baseline ranged from -3.2 to -4.1 across six treatments. Volume/void consistently increased, nearly doubling after treatment. I-QOL improvements were consistently greater than twice the minimally important difference (+11 points). Overall median duration of effect was 9.0 months (200U). Results were similar for onabotulinumtoxinA 300U. Most common AEs were urinary tract infections and urinary retention. De novo CIC rates were 29.5, 3.4, and 6.0% (200U), and 43.0, 15.0, and 4.8% (300U) for treatments 1–3, respectively; de novo CIC rates were 0% for treatments 4–6.OnabotulinumtoxinA treatments consistently improve UI, volume/void, and QOL in patients with UI due to NDO in this 4-year study, with no new safety signals.

The best studied for the treatment of urinary incontinence as a result of neurogenic detrusor overactivity and overactive bladder/idiopathic detrusor overactivity is onabotulinum toxin A. This brand is only approved for the treatment of urinary incontinence as a result of neurogenic detrusor overactivity at a dose of 200 U and idiopathic detrusor overactivity at a dose of 100 U. In patients with detrusor overactivity as a result of spinal cord injury or multiple sclerosis, 200 U of onabotulinum toxin A should be injected in 30 different sites above the trigone. It was shown to be highly effective in curing or decreasing urinary symptoms of incontinence, increasing quality of life, increasing bladder capacity and decreasing maximal detrusor pressure. This effect was independent of the concomitant use of oral anticholinergic drugs. Adverse events were mild, mainly urinary tract infections and high post-void residual requiring clean intermittent catheterization. In patients with overactive bladder/idiopathic detrusor overactivity, 100 U of onabotulinum toxin A should be injected in 20 sites above the trigone. It markedly decreases urinary incontinence and improves quality of life. Frequency and urgency episodes are also decreased. Adverse events are mild, mainly urinary tract infections and urinary retention. The latter occurred in just 5% of the patients. Candidates for onabotulinum toxin A treatment should be warned that the effect of the toxin is transient and that repeated injections will be required to maintain the effect in the long term. There is no evidence that repeated injections will have a decreased efficacy.

These studies were the final step of intense clinical research that started in 2000, when onabotA injections in the bladder of SCI patients were first suggested as an alternative treatment to NDO refractory to antimuscarinic drugs. Pivotal studies of onabotA in idiopathic detrusor overactivity have concluded with very positive preliminary reports (Nitti et al. Late Breaking News, AUA annual meeting 2012, and Chapple et al., non-discussed poster, ICS, 2012). FDA approved onabotA 100 U for the treatment of urinary incontinence as a result of OAB/IDO in January 2013.

HCPCS Code, Dosage Form & Route of Administration

HCPCS Code	Description	Dosage Form	Route of Administration
J0585	Botox (OnabotulinumtoxinA)	100 units or 200 units in single dose vial	Intradermal or Intramuscular
J0586	Dysport (AbobotulinumtoxinA)	500 units or 300 units single dose vial	Intramuscular
J0587	Myobloc (RimabotulinumtoxinB)	2,500 units/0.5 mL or 5,000 units/mL or 10,000 units/2mL single dose vial	Intraglandular
J0588	Xeomin (IncobotulinumtoxinA)	50 units, 100 units or 200 units single dose vial	Intramuscular or Intraglandular

Acronyms

NCD = National Coverage Determination

LCD = Local Coverage Determination

ADL = Activities of Daily Living

Policy Number: 008.006 Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 WellMed Medical Management Regions: Texas, New Mexico

pg. 21

References

- 1. Botox® In: IBM Micromedex® DRUGDEX® (electronic version). Truven Health Analytics, Greenwood Village, Colorado, USA. Available at: http://www.micromedexsolutions.com/ (December 22, 2021)
- 2. Myobloc® In: IBM Micromedex® DRUGDEX^R System (electronic version). Truven Health Analytics, Greenwood Village, Colorado, USA. Available at: http://www.micromedexsolutions.com/ (December 22, 2021)
- 3. Xeomin® In: IBM Micromedex® DRUGDEX^R System (electronic version). Truven Health Analytics, Greenwood Village, Colorado, USA. Available at: http://www.micromedexsolutions.com/ (December 22, 2021)
- 4. Dysport® In: IBM Micromedex® DRUGDEX^R System (electronic version). Truven Health Analytics, Greenwood Village, Colorado, USA. Available at: http://www.micromedexsolutions.com/ (December 22, 2021)
- 5. Pasricha PJ, Rai R, Ravich WJ et. al. Botulinum Toxin for Achalasia: Long-term Outcome and Predictors of Response. Gastroenterology 1996; 110: 1410–1415
- 6. Brisinda G., Albanese A., Cadeddu F et. al. Botulinum neurotoxin to treat chronic anal fissure: results of a randomized 'Botox vs. Dysport' controlled trial. Aliment Pharmacol Ther 2004; 19: 695–701.
- 7. Smith CC, Pariser D Primary focal hyperhidrosis. Up to Date. July 2019 Accessed at: https://www.uptodate.com/contents/primary-focal-hyperhidrosis . Accessed on December 23, 2021.
- 8. Gormley EA, Lightner DJ, Burgio KL et al. Diagnosis and Treatment of Non-Neurogenic Overactive Bladder (OAB) in Adults: AUA/SUFU Guideline. 2014. Accessed at: https://www.auanet.org/guidelines/incontinence-non-neurogenic-overactive-bladder (2012-amended-2014). Accessed On December 28th, 2019.
- Vaezi MF, Pandolfino JE, Vela MR. ACG Clinical Guidelines: Diagnosis and Management of Achalasia. Am J Gastroenterol advance online publication, 23 July 2013; doi: 10.1038/ajg.2013.196 Accessed at: https://www.spg.pt/wp-content/uploads/2015/11/2013-ACG Guideline Achalasia July 2013.pdf . Accessed on December 22, 2021.
- 10. Simpson DM, Hallett M, Ashman EJ, et al. Practice guideline update summary: Botulinum neurotoxin for the treatment of blepharospasm, cervical dystonia, adult spasticity, and headache: Report of the Guideline Development Subcommittee of the American Academy of Neurology. Neurology 2016;86:1-9.
- 11. Farid M, El Monem HA, Omar W, et al. Comparative study between biofeedback retraining and botulinum neurotoxin in the treatment of anismus patients. Int J Colorectal Dis. 2009;24(1):115-20
- 12. Silva J, Pinto R, Carvalho T, et al. Intraprostatic Botulinum Toxin Type A injection in patients with benign prostatic enlargement: duration of the effect of a single treatment. BMC Urol. 2009;9:9.
- 13. Apostolidis A, Dasgupta P, Denys P, et al. Recommendations on the Use of Botulinum Toxin in the Treatment of Lower Urinary Tract Disorders and Pelvic Floor Dysfunctions: A European Consensus Report. Eur Urol. 2009;55(1):100-20.

- 14. McVary KT, Roehrborn CG, Chartier-Kastler E, et al. A multicenter, randomized, double-blind, placebo controlled study of onabotulinumtoxinA 200 U to treat lower urinary tract symptoms in men with benign prostatic hyperplasia. J Urol. 2014; 192(1):150-156.
- 15. Price AE, Ditaranto P, Yaylali I, et al. Botulinum toxin type A as an adjunct to the surgical treatment of the medial rotation deformity o the shoulder in birth injuries of the brachial plexus. J Bone Joint Surg Br. 2007;89(3):327-9.
- 16. Mathew NT, Kailasam J, Meadors L. Predictors of Response to Botulinum Toxin Type A (BoNTA) in Chronic Daily Headache. Headache. 2008;48(2);194-200.
- 17. Naumann M, So Y, Argoff CE, et al. Assessment: Botulinum neurotoxin in the treatment of autonomic disorders and pain (an evidence-based review): Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Neurology. 2008;70(19):1707-14.
- 18. Baldwin MK, Benumof JL. Paradoxical vocal cord movement: a unique case of occurrence and treatment. Anesthesiology. 2007;107(2):359.
- 19. Chen JL, Chen CY, Kuo HC. Botulinum toxin A injection to the bladder neck and urethra for medically refractory lower urinary tract symptoms in men without prostatic obstruction. J Formos Med Assoc. 2009;108(12):950-6.
- 20. Oh TH, Brumfield KA, Hoskin TL, et al. Dysphagia in inclusion body myositis: clinical features, management, and clinical outcomes. Am J Phys Med Rehabil. 2008;87(11):883-9
- 21. Krause E, Hempel JM, Gürkov R. Botulinum toxin A prolongs functional durability of voice prostheses in laryngectomees with pharyngoesophageal spasm. Am J Otolaryngol. 2009 Nov-Dec;30(6):371-5.
- 22. Reddymasu SC, Singh S, Sankula R, et al. Endoscopic pyloric injection of botulinum toxin-A for the treatment of postvagotomy gastroparesis. Am J Med Sci. 2009;337(3):161-4.
- 23. Camilleri M, Parkman HP, Shafi MA, Abell TL, Gerson L, American College of Gastroenterology. Clinical guideline: management of gastroparesis. Am J Gastroenterol 2013;108:18-37.
- 24. Lew HL, Lee EH, Castaneda A, et al. Therapeutic use of botulinum toxin type A in treating neck and upper-back pain of myofascial origin: a pilot study. Arch Phys Med Rehabil. 2008;89(1):75-80.
- 25. Sapci T, Yazici S, Evcimik MF, et al. Investigation of the effects of intranasal botulinum toxin type A and ipratropium bromide nasal spray on nasal hypersecretion in idiopathic rhinitis without eosinophilia. Rhinology. 2008;46(1);45-51.
- 26. Yoon SJ, Ho J, Kang HY, et al. Low-dose botulinum toxin type A for the treatment of refractory piriformis syndrome. Pharmacotherapy. 2007;27(5):657-65.
- 27. Guarda-Nardini L, Manfredini D, Salamone M, et al. Efficacy of botulinum toxin in treating myofascial pain in bruxers: a controlled placebo pilot study. Cranio. 2008;26(2):126-35
- 28. Vázquez Bouso O, Forteza González G, Mommsen J, et al. Neurogenic temporomandibular joint dislocation treated with botulinum toxin: report of 4 cases. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2010;109(3):e33-7.
- 29. Kemal Erdemoglu A, Barlibas A. The long-term efficacy and safety of botulinum toxin in refractory chronic tension-type headache. J Headache Pain. 2007;8(5):294-300.
- 30. Aguirregomozcorta M, Pagonabarraga J, Diza-Manera J, et al. Efficacy of botulinum toxin in severe Tourette syndrome with dystonic tics involving the neck. 2008;14(5):443-5.
- 31. Garza I, Schwedt TJ. Up to Date. Chronic Migraine. May 2019. Accessed at https://www.uptodate.com/contents/chronic-

- <u>migraine?sectionName=MANAGEMENT&topicRef=3345&anchor=H7&source=see_link#H7</u> . Accessed on December 22, 2021.
- 32. Kennelly M, Dmochowski, Schulte-Baukloh H, et al. Efficacy and Safety of OnabotulinumtoxinA Therapy are Sustained Over 4 Years of Treatment in Patients With Neurogenic Detrusor Overactivity: Final Results of a Long-Term Extension Study. Neurourol Urodyn 36:368–375 (2017).
- 33. Matande J. Treating Overactive Bladder(OAB). Univadis. July 11, 2018. Accessed at: http://www.univadis.com/player/yiypwgrpk?r=1&u=ydzpyhpri.
- 34. Brisinda G, Cadeddu F, Brandara F, et al. Botulinum toxin for recurrent anal fissure following lateral internal sphincterotomy. Br J Surg. 2008;95(6):774-8.
- 35. Santos-Silva A, Martins da Silva C, Cruz F. Botulinum toxin treatment for bladder dysfunction. International Journal of Urology. May 2, 2013 Accessed at: https://onlinelibrary.wiley.com/doi/full/10.1111/iju.12188 Accessed on December 28, 2019.
- 36. Wald A, Bharucha AE, Cosman BC, et al. ACG Clinical Guidelines: Management of Benign Anorectal Disorders. Am J Gastroenterol advance online publication. 15 July 2014; doi:10.1038/ajg.2014.190

 Accessed at https://acgcdn.gi.org/wp-content/uploads/2018/04/ACG-Anorectal-Disorders-Guideline-Summary.pdf Accessed on February 3, 2021
- 37. Lightner DJ, Gomelsky A, Souter L et al. Diagnosis and treatment of overactive bladder (non-neurogenic) in adults: AUA/SUFU Guideline amendment. J Urol. 2019; 202: 558.
- 38. Gormley EA, Lightner DJ, Burgio KL et al. Diagnosis and treatment of overactive bladder (non-neurogenic) in adults: AUA/SUFU guideline. J Urol. 2012; 188: 2455.
- 39. Silberstein SD, Holland S, Freitag F, et al. Evidence-based guideline update: Pharmacologic treatment for episodic migraine prevention in adults. Neurology. 2012; 78 (17): 1337–1345
- 40. HIGHLIGHTS OF PRESCRIBING INFORMATION MYOBLOC® (rimabotulinumtoxinB) injection, for intramuscular or intraglandular use. (2021, March). https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm?event=overview.process&Appl No=103846.
- 41. HIGHLIGHTS OF PRESCRIBING INFORMATION XEOMIN® (incobotulinumtoxinA) injection, for intramuscular or intraglandular use. (2021, August). https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm?event=overview.process&Appl No=125360
- 42. HIGHLIGHTS OF PRESCRIBING INFORMATION BOTOX® (onabotulinumtoxinA) injection, for intramuscular or intraglandular use. (2022, August). https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm?event=overview.process&Appl No=103000%20
- 43. HIGHLIGHTS OF PRESCRIBING INFORMATION DYSPORT® (abobotulinumtoxinA)) injection, for intramuscular. (2023, January). https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm?event=overview.process&Appl No=125274

Policy Name: Coverage Policy for Botulinum toxin A and B Effective Date: 10/27/23 Policy Number: 008.006 pg. 25

Regions: Texas, New Mexico WellMed Medical Management