



Original Effective Date: 03/2016
 Current Effective Date: 12/08/2022
 Last P&T Approval/Version: 10/25/2023
 Next Review Due By: 10/2024
 Policy Number: C8755-A

Botulinum Toxin

PRODUCTS AFFECTED

Botox (onabotulinumtoxinA), Daxxify (daxibotulinumtoxinA-lanm), Dysport (abobotulinumtoxinA), Myobloc (rimabotulinumtoxinB), Xeomin (incobotulinumtoxinA)

Requests for Jeuveau™ (prabotulinumtoxinA-xvfs) or Botox Cosmetic (onabotulinumtoxinA [Cosmetic]): Jeuveau™ (prabotulinumtoxinA-xvfs) is indicated for the temporary improvement in the appearance of moderate to severe glabellar (frown) lines between the eyebrows in adults. Botox Cosmetic (onabotulinumtoxinA [Cosmetic]) is indicated for the temporary improvement in the appearance of glabellar lines, lateral canthal lines (crow's feet), and forehead lines. Currently, Jeuveau and Botox Cosmetic are FDA approved only for cosmetic use; they have no other indications.

Cosmetic use is excluded from coverage and therefore Jeuveau™ (prabotulinumtoxinA-xvfs) and Botox Cosmetic (onabotulinumtoxinA [Cosmetic]) are excluded from coverage.

Requests for Daxxify (daxibotulinumtoxinA-lanm), Dysport (abobotulinumtoxinA), Xeomin (incobotulinumtoxinA) for glabellar lines:

Daxxify (daxibotulinumtoxinA-lanm) is also indicated for the temporary improvement in the appearance of moderate to severe glabellar (frown) lines. Dysport (abobotulinumtoxinA) is also indicated for the temporary improvement in the appearance of moderate to severe glabellar lines associated with procerus and corrugator muscle activity in adults < 65 years of age. Xeomin (incobotulinumtoxinA) is also indicated for the temporary improvement in the appearance of moderate to severe glabellar lines with corrugator and/or procerus muscle activity in adults.

Cosmetic use is excluded from coverage and therefore Daxxify (daxibotulinumtoxinA-lanm), Dysport (abobotulinumtoxinA), Xeomin (incobotulinumtoxinA) for glabellar lines is excluded from coverage.

COVERAGE POLICY

Coverage for services, procedures, medical devices and drugs are dependent upon benefit eligibility as outlined in the member's specific benefit plan. This Coverage Guideline must be read in its entirety to determine coverage eligibility, if any. This Coverage Guideline provides information related to coverage determinations only and does not imply that a service or treatment is clinically appropriate or inappropriate. The provider and the member are responsible for all decisions regarding the appropriateness of care. Providers should provide Molina Healthcare complete medical rationale when requesting any exceptions to these guidelines.

Documentation Requirements:

Molina Healthcare reserves the right to require that additional documentation be made available as part of its coverage determination; quality improvement; and fraud; waste and abuse prevention processes. Documentation required may include, but is not limited to, patient records, test results and credentials of the provider ordering or performing a drug or service. Molina Healthcare may deny reimbursement or take additional appropriate action if the documentation provided does not support the initial determination that the drugs or services were medically necessary, not investigational or experimental, and otherwise within the scope of benefits afforded to the member, and/or the documentation demonstrates a pattern of billing or other practice that is inappropriate or excessive.

Drug and Biologic Coverage Criteria

DIAGNOSIS:

Chronic migraine, Esophageal achalasia, Anal fissure, Axillary hyperhidrosis, Upper and lower limb spasticity, strabismus, Blepharospasm, Facial palsies, Sialorrhea, Overactive bladder and urinary incontinence, Cervical dystonia, Adjunct to surgical larynx closure procedure for chronic aspiration, Organic voice tremor, Spasm of pharyngoesophageal segment following total laryngectomy, Spastic dysphonia

REQUIRED MEDICAL INFORMATION:

NOTE: PRIOR TO ANY REVIEW FOR EXCEPTION, REVIEWER SHOULD VERIFY THERAPY ELIGIBILITY FOR BENEFIT EXCLUSION (i.e., COSMETIC USE)

This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. If a drug within this policy receives an updated FDA label within the last 180 days, medical necessity for the member will be reviewed using the updated FDA label information along with state and federal requirements, benefit being administered and formulary preferencing. Coverage will be determined on a case-by-case basis until the criteria can be updated through Molina Healthcare, Inc. clinical governance. Additional information may be required on a case-by-case basis to allow for adequate review. When the requested drug product for coverage is dosed by weight, body surface area or other member specific measurement, this data element is required as part of the medical necessity review. The Pharmacy and Therapeutics Committee has determined that the drug benefit shall be a mandatory generic and that generic drugs will be dispensed whenever available.

FOR ALL INDICATIONS:

1. Prescriber attests to, or the clinical reviewer has found, both of the following: (a) the medication is not prescribed concurrently with other botulinum toxin products AND (b) Botulinum toxin therapy for cosmetic or medical conditions has not been administered within the last 12 weeks AND
2. Prescriber provides documentation of total requested units required for therapy duration [MOLINA REVIEWER NOTE: If not supplied, FDA limit per indication will be approved] AND
3. Prescribed product has an FDA labeled or compendia supported indication for age (see Appendix for guidance on FDA label/compendia and quantity limits)

A. CHRONIC MIGRAINE HEADACHE:

1. Documented diagnosis of chronic migraines (i.e., ≥ 15 headache days per month for at least 3 months with headache lasting 4 hours a day or longer) AND
2. Documentation of trial (2 months per agent) and ineffectiveness/failure or serious side effects or contraindication to THREE of the following therapeutic classes: beta blockers (propranolol, timolol, atenolol, metoprolol, nadolol), antiepileptics (divalproex sodium, topiramate), antidepressants (amitriptyline, nortriptyline, venlafaxine, duloxetine), antihypertensive (verapamil, lisinopril, candesartan) AND
3. Prescriber attests that botulinum toxin will not be used in combination with prophylaxis CGRP agents (e.g., Aimovig, Ajovy, Emgality, Vyepti)
MOLINA REVIEWER NOTE: Please review evidence in BACKGROUND for where appropriate combination use has supportive evidence AND
4. Documentation of baseline (prior to start of requested therapy) migraine/headache days per month [DOCUMENTATION REQUIRED]

B. ESOPHAGEAL ACHALASIA:

1. Documented diagnosis of esophageal achalasia AND
2. Documentation of ONE of the following:
 - a) Member is not a candidate for pneumatic dilation or laparoscopic surgical myotomy (e.g.,

Drug and Biologic Coverage Criteria

due to age, comorbidity, member has epiphrenic diverticulum or hiatal hernia, member has esophageal varices)

- b) Member is at high risk for complications (e.g., perforation, recurrent dysphagia, GERD, pneumothorax, bleeding, infection) associated with pneumatic dilation or surgical myotomy
- c) Member has failure of a prior dilation or myotomy;
- d) Member experienced previous perforation due to pneumatic dilation

C. CHRONIC ANAL FISSURE:

NOTE: Use of botulinum toxin for this indication is not supported with sphincterotomy procedure.

- 1. Member has documented chronic anal fissure refractory to conventional nonsurgical medical therapy (e.g., sitz baths, stool softeners, bulk agents, diet modifications)
AND
- 2. Documentation of a trial (2 weeks) and failure or absolute contraindication to topical calcium channel blocker (nifedipine or diltiazem) or topical nitroglycerin

D. AXILLARY HYPERHIDROSIS:

- 1. Documented diagnosis of primary axillary hyperhidrosis (excessive underarm sweating)
AND
- 2. Documentation of a trial (6 months) and failure of a topical 20% aluminum chloride agent OR oral glycopyrrolate, unless contraindicated or clinically significant adverse reactions were experienced
AND
- 3. Presence of medical complications of hyperhidrosis, including skin maceration with secondary infection or significant functional impairment

E. UPPER AND LOWER LIMB SPASTICITY (INCLUDES SPASMS):

- 1. Diagnosis of ANY of the following upper or lower limb spasticities: Cerebral palsy (including spastic equinus foot deformities), Localized adductor muscle spasticity in multiple sclerosis, Spinal cord injury, Traumatic brain injury, Hereditary spastic paraplegia, Hemifacial spasms
AND
- 2. Member has documented failure, serious side effects, or labeled contraindication or unable to receive BOTH preferred first line treatment options: baclofen and ONE formulary benzodiazepine
AND
- 3. Prescriber attests that the spasticity causes significant decrease of function or Activities of Daily Living (for example, washing, eating) in pediatric or adult individuals

F. STRABISMUS:

- 1. Documented diagnosis of ONE of the following:
 - a) Vertical strabismus (superior and inferior rectus muscles, superior and inferior oblique muscles)
OR
 - b) Horizontal strabismus (medial and lateral rectus muscles) (i or ii): i. Horizontal strabismus < 20 prism diopters; OR ii. Horizontal strabismus 20 to 50 prism diopters
OR
 - c) Persistent sixth cranial nerve (VI; abducens nerve) palsy of at least one month involving the lateral rectus muscle

G. BLEPHAROSPASM OR PALSIES:

- 1. Documented diagnosis of blepharospasm OR Seventh cranial nerve palsy (Bell's Palsy) OR Gaze palsies causing persistent pain or vision impairment
AND
- 2. Member is experiencing significant disability in daily functional activities due to interference with vision, hyperlacrimation, synkinesis

H. SIALORRHEA:

- 1. Documentation member has sialorrhea (excessive drooling) due to conditions such as Parkinson's disease or motor neuron disease (cerebral palsy)

Drug and Biologic Coverage Criteria

AND

2. Member has documented failure, serious side effects, or unable to receive a trial of glycopyrrolate.

I. OVERACTIVE BLADDER AND URINARY INCONTINENCE:

1. Documented diagnosis of urinary incontinence due to EITHER of the following:
 - (a) Overactive bladder and member's history is positive for urinary urgency, frequency, and nocturia with or without incontinenceOR
 - (b) Urinary incontinence and member's history is positive for an associated neurologic condition (e.g., spinal cord injury, spinal dysraphism, multiple sclerosis neurogenic detrusor over activity or overactive bladder
- AND
2. Documented inadequate response to or clinically significant adverse reaction to at least two anticholinergic agents (e.g., oxybutynin immediate and extended-release tabs, Oxytrol patch, Gelnique gel, tolterodine immediate and extended release, Toviaz, Enablex, Vesicare, trospium immediate and extended release)
- AND
3. Prescriber attests member has no evidence of current urinary tract infection, or urinary retention

J. CERVICAL DYSTONIA:

1. Documented diagnosis of cervical dystonia
- AND
2. Prescriber attests: (a) that member is experiencing involuntary contractions of the neck and shoulder muscles (e.g., splenius capitis, sternocleidomastoid, levator scapulae, scalene, trapezius, semispinalis capitis) resulting in abnormal postures or movements of the neck, shoulders, or head AND (b) Contractions are causing pain and functional impairment

K. ALL REMAINING INDICATIONS (Adjunct to surgical larynx closure procedure for chronic aspiration, Organic voice tremor, Spasm of pharyngoesophageal segment following total laryngectomy, Spastic dysphonia):

1. Documentation of member diagnosis requiring treatment

CONTINUATION OF THERAPY:

A. CHRONIC MIGRAINE:

1. If member has received >2 botulinum toxin treatment sessions, member has experienced and maintained a 30% reduction in monthly migraine frequency (monthly migraine days) from baseline OR stabilization of migraine headaches from baseline with quality-of-life improvement [DOCUMENTATION REQUIRED]
- AND
2. Prescriber provides documentation of previous injections as well as the future treatment plan details to include documentation of total units administered and discarded units. [DOCUMENTATION REQUIRED]
- AND
3. Prescriber attests to or clinical reviewer has found absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: symptoms of a toxin spread effect (e.g., asthenia, generalized muscle weakness, diplopia, ptosis, dysphagia, dysphonia, dysarthria, swallowing/breathing difficulties, etc.), severe hypersensitivity reactions, severe pulmonary effects (e.g., reduced pulmonary function), corneal exposure/ulceration, retrobulbar hemorrhage, bronchitis/upper-respiratory tract infections, autonomic dysreflexia, urinary tract infection, and urinary retention, etc.
- AND
4. Prescriber attests that botulinum toxin will not be used in combination with prophylaxis CGRP agents (e.g., Aimovig, Ajovy, Emgality, Vyepti).

MOLINA REVIEWER NOTE: Dual therapy may be considered if the member is refractory to

Drug and Biologic Coverage Criteria

at least two preventative treatments and has experienced a partial response to Botox.

B. ALL OTHER INDICATIONS:

1. Documentation that member is responding positively to therapy
AND
2. Prescriber provides documentation of previous injections as well as the future treatment plan details to include documentation of total units administered and discarded units.
[DOCUMENTATION REQUIRED]
AND
3. Prescriber attests to or clinical reviewer has found absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: symptoms of a toxin spread effect (e.g., asthenia, generalized muscle weakness, diplopia, ptosis, dysphagia, dysphonia, dysarthria, swallowing/breathing difficulties, etc.), severe hypersensitivity reactions, severe pulmonary effects (e.g., reduced pulmonary function), corneal exposure/ulceration, retrobulbar hemorrhage, bronchitis/upper- respiratory tract infections, autonomic dysreflexia, urinary tract infection, and urinary retention, etc.

DURATION OF APPROVAL:

Chronic Anal Fissure, Adjunct to surgical larynx closure procedure: Initial authorization: 1 treatment, Continuation of Therapy: NA

All other indications: Initial authorization: 12 months, Continuation of Therapy: 12 months

PRESCRIBER REQUIREMENTS:

Prescribed by a board eligible or board-certified neurologist, ophthalmologist, pain management specialist, physician certified in headache medicine or specialist in the field that is being treated.

AGE RESTRICTIONS:

BOTOX:

Upper limb spasticity, Lower limb spasticity, Hirschsprung Disease, Internal Anal Sphincter, Achalasia, Chronic Anal Fissure: 2 years of age and older

Severe axillary hyperhidrosis, Cervical dystonia, overactive bladder, chronic migraine, esophageal achalasia: 18 years of age and older

Neurogenic detrusor overactivity (NDO): 5 years of age and older

Blepharospasm associated with dystonia, Strabismus: 12 years of age and older

Xeomin:

Cervical Dystonia, Blepharospasm: 18 years of age and older

Chronic Sialorrhea, Upper Limb Spasticity: 2 years of age and older

Dysport:

Cervical Dystonia, Blepharospasm, Hemifacial spasm: 18 years of age and older

Spasticity: 2 years of age and older

Myobloc:

Cervical Dystonia, Chronic Sialorrhea: 18 years of age and older

QUANTITY:

Quantity limit approvals are subject to dosing limits in accordance with FDA-approved labeling, accepted compendia and/or evidence-based practice guidelines. (see Appendix for dosage labeled limits)

Botox – up to 400 units every 3 months (max); in 100 or 200-unit increments, units up to the vial size(s) medically necessary for the use

J0585- Injection, onabotulinumtoxinA, 1 unit

Dysport – up to 1500 units every 3 months for adults, 1000 units every 3 months for peds (max); in

Molina Healthcare, Inc. confidential and proprietary © 2023

This document contains confidential and proprietary information of Molina Healthcare and cannot be reproduced, distributed, or printed without written permission from Molina Healthcare. This page contains prescription brand name drugs that are trademarks or registered trademarks of pharmaceutical manufacturers that are not affiliated with Molina Healthcare.

Drug and Biologic Coverage Criteria

300- or 500-unit increments, units up to the vial size(s) medically necessary for the use
J0586 Injection, abobotulinumtoxinA, 5 units

Myobloc – up to 10,000 units every 3 months (max); in 2500, 5000, or 10000 unit increments, units up to the vial size(s) medically necessary for the use
J0587 Injection, rimabotulinumtoxinB, 100 units

Xeomin – up to 400 units every 3 months (max); in 50 or 100 unit increments, units up to the vial size(s) medically necessary for the use
J0588 Injection, incobotulinumtoxinA, 1 unit

PLACE OF ADMINISTRATION:

The recommendation is that injectable medications in this policy will be for pharmacy or medical benefit coverage and the intramuscular injectable products be administered in a place of service that is a non-hospital facility-based location.

DRUG INFORMATION

ROUTE OF ADMINISTRATION:

Intramuscular

DRUG CLASS:

Neuromuscular Blocking Agent

FDA-APPROVED USES:

Botox (onabotulinumtoxinA) is indicated for:

- Treatment of overactive bladder (OAB) with symptoms of urge urinary incontinence, urgency, and frequency, in adults who have an inadequate response to or are intolerant of an anticholinergic medication
- Treatment of urinary incontinence due to detrusor overactivity associated with a neurologic condition [e.g., spinal cord injury (SCI), multiple sclerosis (MS)] in adults who have an inadequate response to or are intolerant of an anticholinergic medication
- Prophylaxis of headaches in adult patients with chronic migraine (≥ 15 days per month with headache lasting 4 hours a day or longer)
- Treatment of spasticity in patients 2 years of age and older
- Treatment of cervical dystonia in adult patients, to reduce the severity of abnormal head position and neck pain
- Treatment of severe axillary hyperhidrosis that is inadequately managed by topical agents in adult patients
- Treatment of blepharospasm associated with dystonia in patients 12 years of age and older
- Treatment of strabismus in patients 12 years of age and older
- Treatment of neurogenic detrusor overactivity (NDO) in pediatric patients 5 years of age and older who have an inadequate response to or are intolerant of anticholinergic medication

Limitations of Use: Safety and effectiveness of BOTOX have not been established for:

- *Prophylaxis of episodic migraine (14 headache days or fewer per month)*
- *Treatment of hyperhidrosis in body areas other than axillary*

Dysport (abobotulinumtoxinA) is indicated for:

- treatment of cervical dystonia in adults
- treatment of spasticity in patients 2 years of age and older

Xeomin (incobotulinumtoxinA) is indicated for the treatment or improvement of:

- chronic sialorrhea in patients 2 years of age and older
- upper limb spasticity in adults
- upper limb spasticity in pediatric patients 2 to 17 years of age, excluding spasticity caused by

Molina Healthcare, Inc. confidential and proprietary © 2023

This document contains confidential and proprietary information of Molina Healthcare and cannot be reproduced, distributed, or printed without written permission from Molina Healthcare. This page contains prescription brand name drugs that are trademarks or registered trademarks of pharmaceutical manufacturers that are not affiliated with Molina Healthcare.

Drug and Biologic Coverage Criteria

cerebral palsy

- cervical dystonia in adults
- blepharospasm in adults

Myobloc (rimabotulinumtoxinB) is indicated for:

- Treatment of cervical dystonia to reduce the severity of abnormal head position and neck pain associated with cervical dystonia in adults
- Treatment of chronic sialorrhea in adults

COMPENDIAL APPROVED OFF-LABELED USES:

Botox (onabotulinumtoxinA):

Esophageal Achalasia, Adjunct to surgical larynx closure procedure for chronic aspiration, Organic voice tremor, Spasm of pharyngoesophageal segment following total laryngectomy, Spastic dysphonia

Dysport (abobotulinumtoxinA):

Blepharospasm, Hemifacial spasm

Xeomin (incobotulinumtoxinA):

None

Myobloc (rimabotulinumtoxinB):

None

APPENDIX

APPENDIX:

*International Headache Society Criteria for Migraine Diagnosis (ICHD-3) for **Chronic Migraine***

A. Headache (tension-type-like and/or migraine-like) on ≥ 15 days per month for > 3 months and fulfilling criteria B and C;

B. Occurring in a patient who has had at least five attacks fulfilling criteria B-D for 1.1 Migraine without aura and/or criteria B and C for 1.2 migraine with aura;

C. On ≥ 8 days per month for > 3 months, fulfilling any of the following:

- 1. Criteria C and D for 1.1 Migraine without aura; or*
- 2. Criteria B and C for 1.2 Migraine with aura; or*
- 3. Believed by the patient to be migraine at onset and relieved by a triptan or ergot derivative; Not better accounted for by another ICHD-3 diagnosis*

Drug and Biologic Coverage Criteria

Migraine without aura Migraine with aura	Migraine without aura Migraine with aura
<p>A. At least five attacks fulfilling criteria B–D</p> <p>B. Headache attacks lasting 4-72 hours (untreated or unsuccessfully treated)</p> <p>C. Headache has at least two of the following four characteristics:</p> <ol style="list-style-type: none"> 1. unilateral location 2. pulsating quality 3. moderate or severe pain intensity 4. aggravation by or causing avoidance of routine physical activity (e.g., walking or climbing stairs) <p>D. During headache at least one of the following:</p> <ol style="list-style-type: none"> 1. nausea and/or vomiting 2. photophobia and phonophobia <p>E. Not better accounted for by another ICHD-3 diagnosis.</p>	<p>A. At least two attacks fulfilling criteria B and C</p> <p>B. One or more of the following fully reversible aura symptoms:</p> <ol style="list-style-type: none"> 1. visual 2. sensory 3. speech and/or language 4. motor 5. brainstem 6. retinal <p>C. At least three of the following six characteristics:</p> <ol style="list-style-type: none"> 1. at least one aura symptom spreads gradually over ≥ 5 minutes 2. two or more aura symptoms occur in succession 3. each individual aura symptom lasts 5- 60 minutes 4. at least one aura symptom is unilateral 5. at least one aura symptom is positive 6. the aura is accompanied, or followed within 60 minutes, by headache

Drug and Biologic Coverage Criteria

Migraine without aura	Migraine with aura
<p>A. At least five attacks fulfilling criteria B–D</p> <p>B. Headache attacks lasting 4-72 hours (untreated or unsuccessfully treated)</p> <p>C. Headache has at least two of the following four characteristics:</p> <ol style="list-style-type: none"> 1. unilateral location 2. pulsating quality 3. moderate or severe pain intensity 4. aggravation by or causing avoidance of routine physical activity(e.g., walking or climbing stairs) <p>D. During headache at least one of the following:</p> <ol style="list-style-type: none"> 1. nausea and/or vomiting 2. photophobia and phonophobia <p>E. Not better accounted for by another ICHD-3 diagnosis</p>	<p>A. At least two attacks fulfilling criteria B and C</p> <p>B. One or more of the following fully reversible aura symptoms:</p> <ol style="list-style-type: none"> 1. visual 2. sensory 3. speech and/or language 4. motor 5. brainstem 6. retinal <p>C. At least three of the following six characteristics:</p> <ol style="list-style-type: none"> 1. at least one aura symptom spreads gradually over ≥5 minutes 2. two or more aura symptoms occur in succession 3. each individual aura symptom lasts 5-60 minutes 4. at least one aura symptom is unilateral 5. at least one aura symptom is positive 6. the aura is accompanied, or followed within 60 minutes, by headache <p>D. Not better accounted for by another ICHD-3 diagnosis</p>

QUANTITY LIMITS BY INDICATION:

Botox – up to 400 units every 3 months(max); [J0585- Injection, onabotulinumtoxinA, 1unit]

FDA Indication and Dose- labeled-

Axillary hyperhidrosis:

50 units (2 mL of a 2.5 units/0.1 mL reconstituted solution) per axilla injected intradermally divided into 0.1 to 0.2mL 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

Bladder muscle dysfunction: Overactive, refractory to or intolerant of anticholinergic medication

100 units administered as twenty 0.5-mL injections (10 mL of a 10 units/1 mL reconstituted solution) into the detrusor muscle via flexible or rigid cystoscope; i MAX 100 units per treatment (FDA dosage)

Blepharospasm, Associated with dystonia:

Initial, 1.25 to 2.5 units (0.05 to 0.1 mL) injected into medial and lateral pretarsal orbicularis oculi muscle of upper lid and into lateral pretarsal orbicularis oculi muscle of lower lid; dose may be increased up to two- fold if the response from the initial treatment is considered insufficient to a max of 5 units per site. treatment may be repeated every 3 months; cumulative MAX, 200 units/30days may be performed when the benefit of the previous injection lessens

Cervical dystonia (Spasmodic Torticollis):

Treatment naive: Use lower initial dose. Limit total dose administered into sternocleidomastoid muscles to 100units or less to decrease dysphagia occurrence, Patients with history of Botox tolerance: 198 to 300 units (mean, 236 units) divided among affected muscles. Limit total dose administered into sternocleidomastoid muscles to 100 units or less to decrease dysphagia occurrence

Chronic migraine:

155 units (3.1 mL of a 50 unit/mL reconstituted solution) as 5 units (0.1 mL) IM into each of 31 sites divided across 7 specific head/neck muscle areas (20 units divided in 4 sites in frontalis muscle,

Drug and Biologic Coverage Criteria

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); usual retreatment every 12 weeks

Incontinence due to detrusor instability, Associated with a neurologic condition:

Adults and Pediatric Members weighing ≥ 34 kg: 200 units administered as thirty 1-mL (30 mL of a 6.7 units/1 mL reconstituted solution) injections; Median time to retreatment is 42 to 48 weeks, but no sooner than 12 weeks; MAX 200 units per treatment [3].

Pediatric members weighing <34 kg: 6 units/kg administered as twenty 1-mL injections; Median time to retreatment is 30 weeks, but no sooner than 12 weeks.

Lower limb spasticity:

Start with lowest dose. Total dose of 300 to 400 units. May be repeated when the effects have lessened, but generally no sooner than 12 weeks after the previous injection.

Strabismus:

Vertical muscles and horizontal strabismus less than 20 diopters: Initial, 1.25 to 2.5 units injected into any 1 muscle; assess efficacy 7 to 14 days after injection and subsequent doses may be increased up to 2-fold to MAX, 25 units/any muscle as a single injection and 0.15 mL volume per muscle

Horizontal strabismus between 20 to 50 diopters:

Initial, 2.5 to 5 units injected into any 1 muscle; assess efficacy 7 to 14 days after injection and subsequent doses may be increased up to 2-fold to MAX, 25 units/any muscle as a single injection and 0.15 mL volume per muscle

Persistent sixth nerve palsy for at least 1 month: Initial, 1.25 to 2.5 units injected in the medial rectus muscle; assess efficacy 7 to 14 days after injection and subsequent doses may be increased up to 2-fold to MAX, 25 units/any muscle as a single injection and 0.15 mL volume per muscle

Upper limb spasticity:

Start with lowest dose; usual dosage ranged from 75 to 400 units; MAX 50 units/site; may be repeated when the effects have lessened, but generally no sooner than 12 weeks after the previous injection

Accepted off-labeled indication

Achalasia:

80 to 100 units IM in lower esophageal sphincter (20 to 25 units to each of 4 quadrants in the lower esophageal sphincter) **(off-label dosage)**

Bladder muscle dysfunction: overactive, Refractory to or intolerant of anticholinergic medication⁴⁶ Men with no prior prostate surgery: 100 to 300 units intra- detrusor injection (off-label dosage), Men with previous prostate surgery: 100 to 200 units intra- detrusor injection **(off-label dosage)**

Chronic anal fissure: 25 Units per treatment session **(off-label dosage)**

Adjunct to surgical larynx closure procedure:

200 to 280 units IM into the laryngeal musculature prior to surgery for larynx closure was used in a clinical trial (n=6) (Pototshnig et al, 1996)

Organic voice tremor:

0.6 to 5 units IM bilaterally OR 15 units IM unilaterally into affected muscles **(off-label dosage)**

Drug and Biologic Coverage Criteria

Spasm of pharyngoesophageal segment following total laryngectomy:

30 to 100 units IM (off-label dosage)

Initial, 2.5 to 5 units IM and additional injections up to 30 units (**off-label dosage**)

Spastic dysphonia:

1.25 to 5 units IM into affected muscles, with doses up to 25 units (**off-label dosage**)

Dysport – up to 1500 units every 3 months for adults, 1000 units every 3 months for peds (max); [J0586 Injection, abobotulinumtoxinA, 5 units]

FDA Indication and Dose- labeled-

Cervical dystonia:

Initial, 500 units IM, divided among 2 to 4 affected muscles

Maintenance, 250 units to maximum of 1000 units IM total dose in a single treatment, divided among 2 to 4 affected muscles; retreat as needed at least every 12 weeks or longer

Lower limb spasticity:

Adult: Total doses of 1000 and 1500 units divided among selected muscles were used in clinical studies for a given treatment session; no more than 1 mL should be injected into any single injection site; MAX dose for upper and lower limb combined is 1500 units-[5]

Gastrocnemius (medial head, lateral head): Initial, 100 to 150 units IM in 1 injection site per muscle

Soleus: Initial, 330 to 500 units IM in 3 injection sites per muscle

Tibialis posterior: Initial, 200 to 300 units IM in 2 injection sites per muscle

Flexor digitorum longus: Initial, 130 to 200 units IM in 1 to 2 injection sites per muscle

Flexor hallucis longus: Initial, 70 to 200 units IM in 1 injection site per muscle;

Pediatric: Total dose per treatment session is 10-15 units/kg for unilateral lower limb injections or 20-30 units/kg for bilateral lower limb injections; MAX 15 units/kg for unilateral lower limb injections or 30 units/kg for bilateral lower limb injections or 1000 units, whichever is lower; When possible the dose should be distributed across more than 1 injection site in any single muscle; Repeat dosage no sooner than 12 weeks after the previous injection.

Gastrocnemius: 6-9 units/kg IM in up to 4 injection sites per muscle

Soleus: 4-6 units/kg IM in up to 2 injections sites per muscle

Total: 10-15 units/kg divided across both muscles IM in up to 6 injection sites per muscle

Upper limb spasticity:

Adult: Total doses of 500 and 1000 units divided among certain muscles were used in clinical trials no more than 1 mL should be injected into any single injection site; MAX dose for upper and lower limb combined is 1500 units; ;Repeat dosage no sooner than 12 weeks after the previous injection.

Flexor carpi radialis, flexor carpi ulnaris, flexor digitorum profundus, flexor digitorum superficialis, brachioradialis: Initial, 100 to 200 units IM in 1 to 2 injection sites per muscle;

Pronator teres: Initial, 100 to 200 units IM in 1 injection site per muscle

Brachialis, biceps brachii: Initial, 200 to 400 units IM in 1 to 2 injection sites per muscle

Pediatric: MAX dose of 16 units/kg or 640 units, whichever is lower; no more than 0.5 mL should be injected into any single injection site; Repeat dosage no sooner than 16 weeks after the previous injection Brachialis, Biceps brachii: Initial 3-6 units/kg IM in up to 2 injection sites per muscle

Brachioradialis, Flexor carpi ulnaris (FCU): Initial, 1.5-3 units/kg IM in 1 injection site per muscle Pronator teres, Flexor digitorum profundus (FDP): Initial, 1-2 units/kg IM in 1 injection site per muscle Pronator quadratus: Initial, 0.5-1 unit/kg IM in 1 injection site per muscle

Flexor carpi radialis (FCR): Initial, 2-4 units/kg IM in up to 2 injection sites per muscle

Flexor digitorum superficialis (FDS): Initial, 1.5-3 units/kg IM in up to 4 injection sites per muscle

Accepted off-labeled indication

Blepharospasm:

40 units, 80 units, or 120 units per eye subQ in 0.1 mL aliquots into 6 areas of the orbicularis oculi muscle

Hemifacial spasm:

28 to 220 units subQ per treatment session based on sites and severity of the spasm. Subsequent injections were administered upon recurrence of spasm (off-label dosage)

Anal fissure:

90 to 150 units in 2 divided doses injected into the internal anal sphincter on each side of the anterior midline (off-label dosage)

Axillary Hyperhidrosis, primary:

100 to 200 units per axilla; injections should be evenly distributed into multiple sites 1 to 2 cm apart (10 to 20 injections). May repeat when clinical effect diminishes. Mean duration of effect ranges from 5.5 months to 8.5 months (off-label dosage)

Sialorrhea:

Intraglandular (Ventral) (off-label route): 15 to 75 units injected per gland (submandibular, parotid or both) either unilaterally or bilaterally with intervals of 4 to 6 months between treatments (off-label)

Myobloc – up to 10,000 units every 3 months (max); [J0587 Injection, rimabotulinumtoxinB, 100 units]

FDA Indication and Dose- labeled

Cervical Dystonia:

2500 to 5000 Units IM divided among affected muscles

Chronic sialorrhea:

Intraglandular: 1,500 to 3,500 units divided among the parotid (500 to 1,500 units/gland) and submandibular (250 units/gland) glands. Subsequent dosing should be optimized according to patient's response and should generally be repeated no sooner than every 12 weeks

Accepted off-labeled indication

None

Xeomin – up to 400 units every 3 months (max); J0588 Injection, incobotulinumtoxinA, 1 unit

FDA Indication and Dose- labeled-

Blepharospasm:

(Treatment-naïve members): Initial, 50 units (25 units per eye) Maximum dosage: 100 units per treatment session (50 units per eye)

Retreatment: May repeat based on clinical response, but no more frequently than every 12 weeks

Cervical dystonia:

Initial total dose, 120 units divided and injected among affected muscles; repeat treatment no more frequently than every 12 weeks

Excessive salivation, Chronic:

Adults: 100 units via intra-salivary gland injection May repeat treatment after no fewer than 16 weeks. Pediatric: weight based dosing in a 3:2 ratio into the parotid and submandibular glands, respectively. May repeat treatment after no fewer than 16 weeks.

Upper limb spasticity:

Adult: MAX 400 units/treatment session; frequency of treatments no sooner than every 12 weeks; in

Drug and Biologic Coverage Criteria

previously untreated members, initiate dosing with the low end of the dosing range and titrate as necessary

Clenched fist (flexor digitorum superficialis or flexor digitorum profundus) 25 to 100 units IM in 2 injection sites per muscle

Flexed wrist (flexor carpi radialis) 25 to 100 units IM in 1 to 2 injection sites per muscle

Flexed wrist (flexor carpi ulnaris) 20 to 100 units IM in 1 to 2 injection sites per muscle

Flexed elbow (biceps) 50 to 200 units IM in 1 to 4 injection sites per muscle

Flexed elbow (brachialis) 25 to 100 units IM in 1 to 2 injection sites per muscle;

Flexed elbow (brachioradialis) 25 to 100 units IM in 1 to 3 injection sites per muscle

Pronated forearm (pronator quadratus) 10 to 50 units IM in 1 injection site per

muscle Pronated forearm (pronator teres) 25 to 75 units IM in 1 to 2 injection sites per muscle

Thumb-in-palm (adductor pollicis, flexor pollicis brevis, or opponens pollicis) 5 to 30 units IM in 1 injection site per muscle

Thumb-in-palm (flexor pollicis longus) 10 to 50 units IM in 1 injection site per muscle; untreated member s, initiate dosing with the low end of the dosing range and titrate as necessary -

Pediatric, excluding spasticity caused by cerebral palsy:

MAX 8 Units/kg up to a maximum dose of 200 units/single upper limb, if both upper limbs are treated, total dose should not exceed 16 units/kg up to a maximum of 400 units; frequency of treatments no sooner than every 12 weeks

Flexed elbow (biceps) 2-3 units/kg (MAX 75 units) IM in 1 to 3 injection sites per muscle

Flexed elbow (brachialis, brachioradialis) 1-2 units/kg (MAX 50 units) IM in 1 to 2 injection sites per muscle

Flexed wrist (flexor carpi radialis, flexor carpi ulnaris) 1 unit/kg (MAX 25 units) IM in 1 injection site per muscle

Pronated forearm (pronator quadratus) 0.5 unit/kg (MAX 12.5 units) IM in 1 injection site per muscle

Pronated forearm (pronator teres) 1-2 units/kg (MAX 50 units) IM in 1 to 2 injection sites per muscle

Clenched fist (flexor digitorum superficialis or flexor digitorum profundus) 1 unit/kg (MAX 25 units) IM in 1 injection site per muscle

Thumb-in-palm (adductor pollicis, flexor pollicis brevis, or opponens pollicis) 0.5 unit/kg (MAX 12.5 units) IM in 1 injection site per muscle

Thumb-in-palm (flexor pollicis longus) 1 unit/kg (MAX 25 units) IM in 1 injection site per muscle

Accepted off-labeled indication

None

BACKGROUND AND OTHER CONSIDERATIONS

BACKGROUND:

Botulinum neurotoxins produced by *Clostridium botulinum*, a gram-positive anaerobic bacterium, can prevent the release of acetylcholine, carrying chemical denervation and blockage of neuromuscular transmission.

Botulinum toxins produce a presynaptic neuromuscular blockage by preventing release of acetylcholine from motor nerve terminals. The resulting chemical denervation of muscle induces local paresis or paralysis and individual muscles can be weakened selectively. Botulinum toxins have the advantage of being potent neuromuscular blocking agents with good selectivity, long duration of action and few side effects. Of seven known distinct neurotoxins (A-G), onabotulinumtoxinA (Botox®/Botox Cosmetic), abobotulinumtoxinA (Dysport™), rimabotulinumtoxinB (Myobloc®) and incobotulinumtoxinA (Xeomin®) have been approved by the U.S. Food and Drug Administration for clinical use.

Use with CGRP Inhibitors for Migraine

The 2021 American Headache Society Consensus Statement update lists the combo of Botox and CGRP inhibitors as 'probably effective' based on one class IV trial. There are currently only retrospective studies of the combination used in practice. In a retrospective study of 153 patients with chronic migraine treated with onabotulinumtoxinA, 73 percent (111 patients) reported a reduced headache burden after adding a CGRP antagonist. There were no serious adverse events. In another retrospective study of 78 patients with chronic migraine, the addition of erenumab was associated with a reduction of approximately 7 monthly headache days at one month from a baseline of 23 mean monthly headache days on onabotulinumtoxinA alone. These results were sustained at 60 and 90 days.

Safety and efficacy data of combination therapy is limited and not peer reviewed. Further controlled and prospective studies are needed to fully understand the risks and benefits of this approach to therapy. CGRP antagonists may provide additional benefit to patients with chronic migraine with a partial response to onabotulinumtoxinA, who are also refractory to other preventative migraine treatments.

CONTRAINDICATIONS/EXCLUSIONS/DISCONTINUATION:

All other uses of botulinum toxins are considered experimental/investigational and therefore, will follow Molina's Off-Label policy. Contraindications to botulinum toxins include: hypersensitivity to any botulinum toxin preparation or to any of the components in the formulation, infection at the proposed injection site. For intradetrusor injections only: urinary tract infection or urinary retention. For Dysport only: hypersensitivity to cow's milk protein.

Conditions Not Recommended for Approval:

- Cosmetic Uses (e.g., facial rhytides, frown lines, glabellar wrinkling, horizontal neck rhytides, mid and lower face and neck rejuvenation, platysmal bands, rejuvenation of the periorbital region). Cosmetic use is not recommended for coverage as this indication is excluded from coverage in a typical medical or pharmacy benefit.
- Fibromyalgia. More data are needed to define the place in therapy of botulinum toxin in the treatment of fibromyalgia. A small pilot study involving 16-member s concluded botulinum toxin A injections into fibromyalgia trigger points offered more relief (up to 16weeks minimum) compared with local saline or anesthetic injections; it was concluded Botox is effective in the treatment of fibromyalgia. Other small studies have shown effectiveness of Botox in pain relief post injection. botulinum toxin is not mentioned in guidelines for the treatment of fibromyalgia.
- Gastroparesis. The ACG issued clinical guidelines on the management of gastroparesis (2013). ACG does not recommend the use of botulinum toxin injected into the pylorus as a treatment for gastroparesis. This is based on two double-blind, placebo-controlled studies which did show some improvement in gastric emptying, but no improvement in symptoms compared with placebo.
- Vaginismus. More data are needed to define the place in therapy of botulinum toxin in the treatment of vaginismus. The use of botulinum toxin for the treatment of vaginismus has been evaluated in a few small studies with successful outcomes.
- Requests for Jeuveau™ (prabotulinumtoxinA-xvfs)- Jeuveau™ (prabotulinumtoxinA- xvfs) is indicated for the temporary improvement in the appearance of moderate to severe glabellar (frown) lines between the eyebrows in adults. Currently, Jeaveau is approved only for cosmetic use; it has no other indications.
- Anismus (pelvic floor dyssynergia)
- Behcet's syndrome
- Brachial Plexus Palsy
- Carpal tunnel syndrome
- Chronic motor tic disorder
- Disorders of the esophagus
- Epicondylitis
- Low back pain
- Myofascial pain syndrome
- Neck pain not related to conditions mentioned above

Drug and Biologic Coverage Criteria

- Nystagmus
- Parkinson's disease
- Post-mastectomy reconstruction syndrome
- Reynaud's syndrome
- Sphincter of Oddi dysfunction
- Stuttering
- Tics associated with Tourette's Syndrome
- Tinnitus
- Tourette's Syndrome
- Urinary and anal sphincter dysfunction (except as listed above)
- Vaginismus
- Whiplash related disorders
- Zygomatic Fractures

OTHER SPECIAL CONSIDERATIONS:

Botulinum toxin products are not interchangeable, and dosing units of one product cannot be converted or compared with dosing units of another botulinum toxin product. When treating one or more indications, the maximum cumulative dose of onabotulinumtoxinA should generally not exceed 400 units in a 3-month interval.

CODING/BILLING INFORMATION

Note: 1) This list of codes may not be all-inclusive. 2) Deleted codes and codes which are not effective at the time the service is rendered may not be eligible for reimbursement

HCPCS CODE	DESCRIPTION
J0585	Botox - Injection, onabotulinumtoxinA, 1 unit
J0586	Dysport - Injection, abobotulinumtoxinA, 5 units
J0587	Myobloc - Injection, rimabotulinumtoxinB, 100 units
J0588	Xeomin - Injection, incobotulinumtoxinA, 1 unit

AVAILABLE DOSAGE FORMS:

Botox SOLR 100UNIT
Botox SOLR 200UNIT
Dysport SOLR 300UNIT
Dysport SOLR 500UNIT
Myobloc SOLN 10000UNIT/2ML
Myobloc SOLN 2500UNIT/0.5ML
Myobloc SOLN 5000UNIT/ML
Xeomin SOLR 100UNIT
Xeomin SOLR 200UNIT
Xeomin SOLR 50UNIT

REFERENCES

1. Botox (OnabotulinumtoxinA) [prescribing information]. Madison, NJ: Allergan USA, Inc.; August 2023.
2. Dysport (abobotulinumtoxinA) [prescribing information]. Basking Ridge, NJ: Ipsen Biopharmaceuticals Inc.; September 2023.
3. Myobloc (rimabotulinumtoxinB) [prescribing information]. Rockville, MD: Solstice Neurosciences, LLC; March 2021.
4. Xeomin (IncobotulinumtoxinA) [prescribing information] Raleigh, NC: Merz Pharmaceuticals LLC; September 2023.
5. Daxxify (daxibotulinumtoxinA-lanm) [prescribing information]. Newark, CA: Revance Therapeutics, Inc.;

Molina Healthcare, Inc. confidential and proprietary © 2023

This document contains confidential and proprietary information of Molina Healthcare and cannot be reproduced, distributed, or printed without written permission from Molina Healthcare. This page contains prescription brand name drugs that are trademarks or registered trademarks of pharmaceutical manufacturers that are not affiliated with Molina Healthcare.

Drug and Biologic Coverage Criteria
August 2023.

6. Bhidayasiri R, Truong DD. Expanding use of botulinum toxin. J Neurol Sci. 2005;235(1-2):1- 9.
7. 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(6 Suppl):2455-2463.
8. Walling HW, Swick BL. Treatment options for hyperhidrosis. Am J Clin Dermatol. 2011;12(5):285-295. Haider A, Solish N. Focal hyperhidrosis: diagnosis and management. CMAJ. 2005;172(1):69- 75.
9. Cheng CM, Chen JS, Patel RP. Unlabeled uses of botulinum toxins: A review, part 1. Am J Health Syst Pharm. 2006 15;63(2): 145–152.
10. Eisenach JH, Atkinson JLD, Fealey RD. Hyperhidrosis: evolving therapies for a well- established phenomenon. Mayo Clin Proc. 2005;80(5):657-666.
11. Lowe N, Campanati A, Bodokh I, et al. The place of botulinum toxin type A in the treatment of focal hyperhidrosis. Br J Dermatol. 2004;151(6):1115-1122.
12. Silberstein SD, Holland S, Freitag F, et al. Evidence-based guideline update: pharmacologic treatment for episodic migraine prevention in adults: report of the Quality Standards Subcommittee of the American Academy of Neurology and the American Headache Society. Neurology. 2012;78(17):1337-1345. Available at: <http://www.neurology.org/content/78/17/1337.full.html>.
13. Sahai A, Khan M, Fowler CJ, Dasgupta urinary tract symptoms: a review. Neurourol Urodyn. 2005;24(1):2-12.
14. Hoebeke P, De Caestecker K, Vande Walle J, et al. The effect of botulinum-A toxin in incontinent children with therapy resistant overactive detrusor. J Urol. 2006 Jul;176(1):328-30; discussion 330-331.
15. Brisinda G, Bentivoglio AR, Maria G, Albanese A. Treatment with botulinum neurotoxin of gastrointestinal smooth muscles and sphincters spasms. Mov Disord. 2004;19(Suppl8):S146- S156.
16. Camilleri M, Parkman HP, Shafi MA, et al. Clinical guideline: management of gastroparesis. Am J Gastroenterol. 2013;108(1):18-38. Available at: <http://gi.org/guideline/management-of-gastroparesis/>.
17. Vaezi MF, Pandolfino JF, Vela MF. ACG clinical guideline: diagnosis and management of achalasia. Am J Gastroenterol. 2013;108(8):1238-1249. Available at: <http://gi.org/guideline/diagnosis-and-management-of-achalasia/>.
18. Wald A, Bharucha AE, Cosman BC, et al. ACG clinical guideline: management of benign anorectal disorders. Am J Gastroenterol. 2014;109(8):1141-57. Available at: <http://gi.org/clinical-guidelines/clinical-guidelines-sortable-list/>.
19. Bansal C, Omlin KJ, Hayes CM, et al. Novel cutaneous uses for botulinum toxin type A. J Cosmet Dermatol. 2006; 5(3):268-272.
20. Cheng CM, Chen JS, Patel RP. Unlabeled uses of botulinum toxins: A review, part 2. Am J Health Syst Pharm. 2006;63(3):225-232.
21. Jankovic J, Schwartz K, Donovan DT. Botulinum toxin treatment of cranial-cervical dystonia, spasmodic dysphonia, other focal dystonias and hemifacial spasm. J Neuro Neurosurg Psychiatry. 1990;53:633-639.
22. Comella CL, Shannon KM, Jaglin J. Extensor truncal dystonia : successful treatment with botulinum toxin injection. Mov Disord. 1998;13:552-555
23. Kanovsky P, Streitova H, Bares M, et al. Treatment of facial and orolingual mandibular tardive dystonia by botulinum toxin A: evidence of a long-lasting effect. Mov Disord. 1999;14:886- 888.
24. Tarsy D, Kaufman D, Sethi KD, et al. An open-label study of botulinum toxin A for treatment of tardive dystonia. Clin Neuropharm. 1997;20:90-93.
25. Cole R, Hallett M, Cohen LG. Double-blind trial of botulinum toxin for treatment of focal hand dystonia. Mov Disord. 1995;10(4):466-471.
26. Schwartz SR, Cohen SM, Dailey SH, et al. Clinical Practice Guideline: Hoarseness (Dysphonia). Otolaryngology–Head and Neck Surgery. 2009;141:S1-S31. Available at: http://www.aafp.org/dam/AAFP/documents/member_care/clinical_recommendations/RecBoard_Chair-060810-AttachmentHoarseness-Guideline.pdf.
27. Hertegard S, Granqvist S, Lindestad PA. Botulinum toxin injections for essential voice tremor. Ann Otol Rhinol Laryngol. 2000;109:204-209.
28. Adler CH, Bansberg SF, Hentz JG, et al. Botulinum toxin type A for treating voice tremor. Arch Neurol. 2004;61:1416- 1420.
29. Schulte-Mattler WJ, Martinex-Castrillo JC. Botulinum toxin therapy of migraine and tension- type headache: comparing different botulinum toxin preparations Eur J Neurol 2006;13 Suppl 1:51-54.
30. Naumann M, So Y, Argoff E, et al. Assessment: Botulinum toxin in the treatment of autonomic disorders

Drug and Biologic Coverage Criteria

and pain (an evidence-based review): Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. *Neurology*. 2008;70:1707- 1714. Available at: <http://www.neurology.org/content/70/19/1707.full.html>.

31. Thompson AJ, Jarrett L, Lockley L, et al. Clinical management of spasticity. *J NeurolNeurosurg Psychiatry*. 2005;76(4):459-463.
32. Pathak MS, Nguyen HT, Graham HK, et al. Management of spasticity in adults: practical application of botulinum toxin. *Eur J Neurol*. 2006 Feb;13 Suppl 1:42-50
33. Park ES, Rha DW. Botulinum toxin type A injection for management of upper limb spasticity in children with cerebral palsy: a literature review. *Yonsei Med J*. 2006;47(5):589– 603.
34. Frei K, Truong DD, Dressler D. Botulinum toxin therapy of hemifacial spasm: comparing different therapeutic preparations. *Eur J Neurol*. 2006;13(Suppl 1):30-35.
35. Kollewe K, Mohammadi B, Dengler R, Dressler D. Hemifacial spasm and reinnervation synkinesias: long-term treatment with either Botox or Dysport. *J Neural Transm*. 2010;117:759- 763.
36. Sulica L. Contemporary management of spasmodic dysphonia. *Curr Opin OtolaryngolHeadNeck Surg*. 2004;12:543-548.
37. Lewin JS, Bishop-Leone JK, Forman AD, et al. Further experience with Botox injection for tracheoesophageal speech failure. *Head Neck*. 2001;23:456-460.
38. Zormeier MM, Meleca RJ, Simpson ML, et al. Botulinum toxin injection to improve tracheoesophageal speech after total laryngectomy. *Otolaryngol Head Neck Surg*. 1999;120:314- 319.
39. Kendall KA, Leonard RJ. Treatment of ventricular dysphonia with botulinumtoxin. *Laryngoscope*. 1997;107:948-953.
40. Wan X, Dat Vuong K, Jankovic J. Clinical application of botulinum toxin type B in movement disorders and autonomic symptoms. *Chin Med SciJ*. 2005;20(1):44-47.
41. Jost WH. Botulinum toxin type B in the treatment of anal fissures: First preliminary results. *Dis Colon Rectum*. 2001;44(11):1721-1722.
42. Ghei M, Maraj BH, Miller R, et al. Effects of botulinum toxin B on refractory detrusor overactivity: a randomized, double blind, placebo controlled, crossover trial. *J Urol*. 2005;174(5):1873-1877.
43. Dykstra D, Enriquez A, Valley M. Treatment of overactive bladder with botulinum toxin type B: a pilot study. *Int Urogynecol J Pelvic Floor Dysfunct*. 2003;14:424-426.
43. Racette BA, Good L, Sagitto S, Perlmutter JS. Botulinum toxin B reduces sialorrhea in Parkinsonism. *Mov Disord*. 2003;18(9):1059-1061.
44. Lecouflet, M., Leux, C., Fenot, M., Célerier, P., & Maillard, H. (2013). Duration of efficacy increases with the repetition of botulinum toxin A injections in primary axillary hyperhidrosis: a study in 83 patients. *Journal of the American Academy of Dermatology*, 69(6), 960–964. <https://doi.org/10.1016/j.jaad.2013.08.002>
45. Heckmann, M., Ceballos-Baumann, A. O., Plewig, G., & Hyperhidrosis Study Group (2001). Botulinum toxin A for axillary hyperhidrosis (excessive sweating). *The New England journal of medicine*, 344(7), 488–493. <https://doi.org/10.1056/NEJM200102153440704>
46. Yiannakopoulou E. (2012). Botulinum toxin and anal fissure: efficacy and safety systematic review. *International journal of colorectal disease*, 27(1), 1–9. <https://doi.org/10.1007/s00384- 011-1286-5>
47. Reddihough, D., & Graham, H. K. (2011). Botulinum toxin type B for sialorrhea in children with cerebral palsy. *Developmental medicine and child neurology*, 53(6), 488–489. <https://doi.org/10.1111/j.1469-8749.2011.03977.x>
48. Habashy, D., Losco, G., Tse, V., Collins, R. and Chan, L., 2015. Botulinum toxin (OnabotulinumtoxinA) in the male non-neurogenic overactive bladder: clinical and quality of life outcomes. *BJU International*, 116, pp.61-65.
49. Ailani, J., Burch, R., & Robbins, M. (2021). The American Headache Society Consensus Statement: Update on integrating new migraine treatments into clinical practice. *Headache: The Journal Of Head And Face Pain*, 61(7), 1021-1039. doi: 10.1111/head.14153
50. Ailani, J., & Blumenfeld, A. (2021). Combination CGRP monoclonal antibody and onabotulinumtoxinA treatment for preventive treatment in chronic migraine. *Headache: The Journal Of Head And Face Pain*, 62(1), 106-108. doi: 10.1111/head.14244

Drug and Biologic Coverage Criteria

51. Armanious, M., Khalil, N., Lu, Y., & Jimenez-Sanders, R. (2021). Erenumab and OnabotulinumtoxinA Combination Therapy for the Prevention of Intractable Chronic Migraine without Aura: A Retrospective Analysis. *Journal of pain & palliative care pharmacotherapy*, 35(1), 1–6.
<https://doi.org/10.1080/15360288.2020.1829249>
52. Vaezi, M., Pandolfino, J., Yadlapati, R., Greer, K., & Kavitt, R. (2020). ACG Clinical Guidelines: Diagnosis and Management of Achalasia. *American Journal Of Gastroenterology*, 115(9), 1393-1411.
doi: 10.14309/ajg.0000000000000731
53. C Pototschnig, Hans Edmund Eckel, Schneider, I., & Thumfart, W. F. (1996). Repeatedly Successful Closure of the Larynx for the Treatment of Chronic Aspiration with the Use of Botulinum Toxin A. *Annals of Otology, Rhinology, and Laryngology*, 105(7), 521–524.
<https://doi.org/10.1177/000348949610500705>
54. Pena, A. H., Cahill, A. M., Gonzalez, L., Baskin, K. M., Kim, H., & Towbin, R. B. (2009). Botulinum Toxin A Injection of Salivary Glands in Children with Drooling and Chronic Aspiration. *Journal of Vascular and Interventional Radiology*, 20(3), 368–373. <https://doi.org/10.1016/j.jvir.2008.11.011>
55. Jongerius, P. H., Hoogen, F. J. A. van den, Limbeek, J. van, Gabreëls F. J., Hulst, K. van, & Rotteveel, J. J. (2004). Effect of Botulinum Toxin in the Treatment of Drooling: A Controlled Clinical Trial. *Pediatrics*, 114(3), 620–627. <https://doi.org/10.1542/peds.2003-1104-I>

SUMMARY OF REVIEW/REVISIONS	DATE
REVISION- Notable revisions: Products Affected Diagnosis Required Medical Information Continuation of Therapy Duration of Approval Age Restrictions Compendial Approved Off-Labeled Uses Appendix Contraindications/Exclusions/Discontinuation Available Dosage Forms References	Q4 2023
REVISION- Notable revisions: Diagnosis Required Medical Information Continuation of Therapy Background References	Q4 2022
REVISION- Notable revisions: Required Medical Information Age Restrictions FDA Approved Uses Appendix References	Q2 2022
Q2 2022 Established tracking in new format	Historical changes on file