CERVICAL DYSTONIA PATIENT PROFILE

MEET RYAN'

AGE: 39

HISTORY:

- Active tennis player who began experiencing pain and tightness in his neck of no known cause
- After nearly 2 years of prolonged pain, he visited his PCP, who suggested physical therapy
- Despite over a year of physical therapy, the pain and tightness had not subsided
- PCP decided to refer him to a pain clinic

EXAMINATION:

- Painful, sometimes jerky movement of neck
- Ryan was often experiencing torticollis and laterocollis, which limited his activity
- Having seen patients with prolonged idiopathic pain and similar symptoms in the past, the pain clinic physician was able to make a definitive diagnosis for Ryan

DIAGNOSIS:

Cervical dystonia

Do you have adult patients like Ryan in your practice?



*This is not a real patient. This representation was not designed to reflect efficacy for an individual patient subgroup. Individual results may vary.

INDICATION

MYOBLOC® injection is indicated for the treatment of cervical dystonia (CD) to reduce the severity of abnormal head position and neck pain associated with CD in adults

IMPORTANT SAFETY INFORMATION

WARNING: DISTANT SPREAD OF TOXIN EFFECT

See full prescribing information for complete boxed WARNING.

The effects of MYOBLOC® 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.

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CONTRAINDICATIONS

MYOBLOC is contraindicated in patients with:

- A known hypersensitivity to any botulinum toxin product or to any of the components in the formulation
- Infection at the proposed injection site(s)

WARNINGS AND PRECAUTIONS

Lack of Interchangeability Between Botulinum Toxin Products

The potency units of MYOBLOC are specific to the preparation and biological activity assay method utilized. Due to differences in the aspects of this assay such as the vehicle, dilution scheme, and laboratory protocols for various potency assays, potency units are not interchangeable with other preparations of botulinum toxin products and, therefore, units of biological activity of MYOBLOC cannot be compared to or converted into units of any other botulinum toxin products assessed with any other specific assay method.

Hypersensitivity Reactions

Serious hypersensitivity reactions have been reported with botulinum toxin products. Angioedema, urticaria, and rash have occurred with MYOBLOC treatment. Hypersensitivity reactions can also include anaphylaxis, serum sickness, soft tissue edema, and dyspnea. If serious and/or immediate hypersensitivity reactions occur, discontinue further injection of MYOBLOC and institute appropriate medical therapy immediately. The use of MYOBLOC in patients with a known hypersensitivity to any botulinum neurotoxin or to any of the excipients (human albumin, sucrose), could lead to a life-threatening allergic reaction.

Dysphagia and Breathing Difficulties

Treatment with MYOBLOC and other botulinum toxin products can result in swallowing or breathing difficulties. Patients with pre-existing swallowing or breathing difficulties may be more susceptible to these complications. In most cases, this is a consequence of weakening of muscles in the area of injection that are involved in breathing or swallowing. When distant effects occur, additional respiratory muscles may be involved. Deaths

as a complication of severe dysphagia have been reported after treatment with botulinum toxin. Dysphagia may persist for several months and require use of a feeding tube to maintain adequate nutrition and hydration. Aspiration may result from severe dysphagia and is a particular risk when treating patients in whom swallowing or respiratory function is already compromised.

- Cervical Dystonia: Treatment of cervical dystonia with botulinum toxins may weaken neck muscles that serve as accessory muscles of ventilation. This may result in a critical loss of breathing capacity in patients with respiratory disorders who may have become dependent upon these accessory muscles. There have been postmarketing reports of serious breathing difficulties, including respiratory failure, in cervical dystonia patients. Patients treated with botulinum toxin may require immediate medical attention should they develop problems with swallowing, speech or respiratory disorders. These reactions can occur within hours to weeks after injection with botulinum toxin.
- Pre-Existing Neuromuscular Disorders: Individuals with peripheral motor neuropathic diseases, amyotrophic lateral sclerosis, or neuromuscular junctional disorders (e.g., myasthenia gravis or Lambert-Eaton syndrome) should be monitored particularly closely when given botulinum toxin. Patients with neuromuscular disorders may be at increased risk of clinically significant effects including severe dysphagia and respiratory compromise from typical doses of MYOBLOC.

Human Albumin and Transmission of Viral Diseases

This product contains albumin, a derivative of human blood. Based on effective donor screening and product manufacturing processes, it carries an extremely remote risk for transmission of viral diseases and variant Creutzfeldt-Jakob disease (vCJD). There is a theoretical risk for transmission of Creutzfeldt-Jakob disease (CJD), but if that risk actually exists, the risk of transmission would be considered extremely remote. No cases of transmission of viral diseases, CJD, or vCJD have ever been identified for licensed albumin or albumin contained in other licensed products.

MOST COMMON ADVERSE REACTIONS (>5% of patients and >5% more than placebo)

Cervical Dystonia: dry mouth, dysphagia, injection site pain, headache

DRUG INTERACTIONS

Aminoglycosides and Other Agents Interfering with Neuromuscular Transmission: Co-administration of MYOBLOC and aminoglycosides or other agents interfering with neuromuscular transmission (e.g., curare-like compounds) should only be performed with caution as the effect of the toxin may be potentiated. Anticholinergic Drugs: Use of anticholinergic drugs after administration of MYOBLOC may potentiate systemic anticholinergic effects. Other Botulinum Neurotoxin Products: The effect of administering different botulinum toxin products at the same time or within several months of each other is unknown. Excessive neuromuscular weakness may be exacerbated by administration of another botulinum toxin prior to the resolution of the effects of a previously administered botulinum toxin. Muscle Relaxants: Excessive weakness may also be exaggerated by administration of a muscle relaxant before or after administration of MYOBLOC.

Please refer to the full <u>Prescribing Information</u>.



MY Focus: To find a botulinum toxin injection to help patients like Ryan

A PAINFUL REALITY: CERVICAL DYSTONIA IS OFTEN UNDERRECOGNIZED

Many patients with cervical dystonia (CD) suffer a delayed diagnosis.



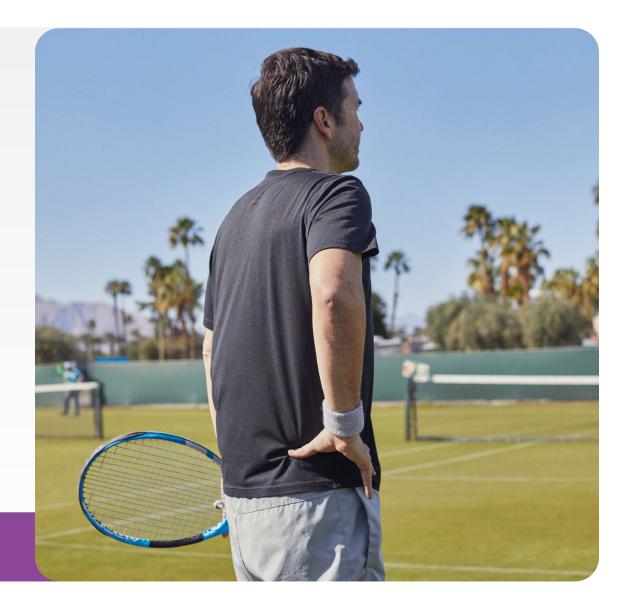
In one survey, 43% of people with CD had visited 4 or more physicians before a diagnosis of CD was made¹



Patients with mild symptoms may not seek medical advice²

- Patients see ~3 providers before being correctly diagnosed³
- More common conditions are often suspected or diagnosed instead of CD, at least initially²

The average time from symptom onset to diagnosis³



By recognizing characteristic clinical features, an informed provider can make a more rapid diagnosis.

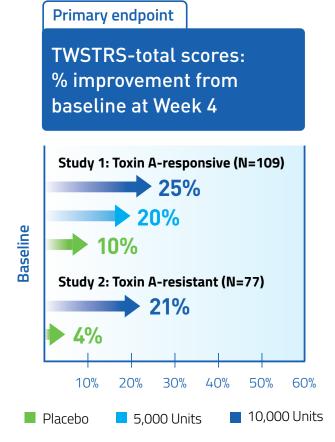


MY Goal: A treatment that may be right for Ryan and similar patients in my practice



MYOBLOC HAS PROVEN CLINICAL EFFICACY FOR CERVICAL DYSTONIA

Significant improvement of TWSTRS-total score at Week 44-6



At Week 4 in both Toxin A-responsive and Toxin A-resistant patients, MYOBLOC significantly improved TWSTRS-total score:

 Mean change from baseline was 4.3 and 2 for placebo (Study 1 and Study 2, respectively);
 9.3* for 5,000 U (Study 1), and 11.7* and 11.1* for 10,000 U (Study 1 and Study 2, respectively)

TWSTRS-pain

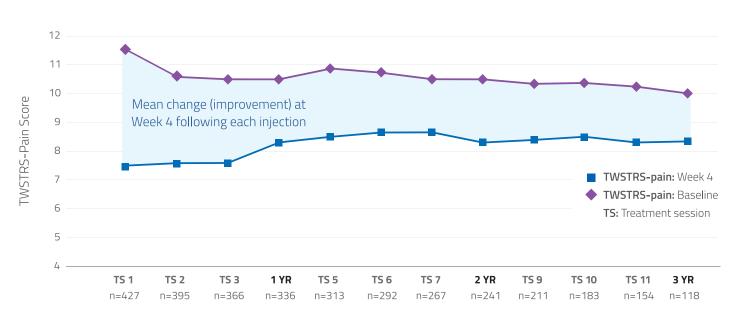
- MYOBLOC provided significant pain reduction for both Toxin A-responsive and Toxin A-resistant patients at Week 4 (tertiary endpoint)
- In an exploratory analysis, MYOBLOC showed reduction of TWSTRS-pain score for both Toxin A-responsive and Toxin A-resistant patients at Week 2

**P*<0.05 vs. placebo.

Study 1 was a randomized, double-blind, multicenter, placebo-controlled, 16-week trial to determine the safety and efficacy of MYOBLOC in patients with CD who were responsive to Toxin Type A; 109 patients enrolled across 3 dose arms: MYOBLOC 5,000 U (n=36) or 10,000 U (n=37) vs. placebo (n=36). Study 2 was a randomized, double-blind, multicenter, placebo-controlled, 16-week trial to determine the safety and efficacy of MYOBLOC in patients with CD who were resistant to Toxin Type A; 77 patients enrolled across 2 dose arms: MYOBLOC 10,000 U (n=39) vs. placebo (n=36).

PAIN RELIEF MAINTAINED OVER 3 YEARS

In a long-term open-label study, patients demonstrated consistent improvement in TWSTRS-pain scores through 12 treatment sessions^{7,8}



Abbreviation: TWSTRS, Toronto Western Spasmodic Torticollis Rating Scale.

IMPORTANT SAFETY INFORMATION (cont'd) CONTRAINDICATIONS

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MY Criteria: A treatment option with demonstrated tolerability



500 Units

1.000 Units

1,500 Units 2,000 Units 2,500 Units

3,000 Units

3,500 Units 4,000 Units

4,500 Units

5.000 Units=1 mL

DEMONSTRATED TOLERABILITY

Most commonly reported adverse reactions in >5% of MYOBLOC-treated patients at any dose and >5% more common than placebo (Studies 1, 2, and 4)⁴

Adverse Reaction	MYOBLOC (%)			PLACEBO (%)
	2,500 Units (N=31)	5,000 Units (N=67)	10,000 Units (N=106)	(N=104)
Dry mouth	3	12	34	3
Dysphagia	16	10	25	3
Injection-site pain	16	12	15	9
Headache	10	16	11	8

Study 4 was a randomized, double-blind, multicenter, placebo-controlled, 16-week trial to determine the safety and efficacy of MYOBLOC in both Toxin A-responsive and Toxin A-resistant patients with CD; 122 patients enrolled across 4 dose arms: 2,500 U (n=31), 5,000 U (n=31), or 10,000 U (n=30) vs. placebo (n=30).

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MYOBLOC DOSING AND ADMINISTRATION

Ready to use and requires no mixing⁴

Dosing Considerations

- Cervical dystonia symptom severity
- Risk of swallowing or breathing difficulties in patients with neuromuscular disorders⁴
- Patient weight and muscle bulk

Dosing Recommendations

Recommended initial total dose divided among affected muscles⁴:

- Patients with a prior history of tolerating botulinum toxin injections is 2,500 to 5,000 Units
- Patients without a prior history of tolerating botulinum toxin injections should receive a lower initial dose
- Subsequent dosing should be optimized according to the patient's response



To sign up for MYOBLOC injection training, visit MYOBLOC.com.

3 single-dose vial sizes∗ *For single-patient use



MY PATIENTS. MY CHOICE. MYOBLOC.



IF YOU HAVE ADULT PATIENTS LIKE RYAN IN YOUR PRACTICE, LEARN HOW TO GET STARTED USING MYOBLOC AT MYOBLOCHCP.COM.

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LEARN MORE ABOUT MYOBLOC, DOWNLOAD ADDITIONAL RESOURCES, OR REQUEST A REIMBURSEMENT SPECIALIST AT MYOBLOC.COM/RYAN.

Peferences

- 1. Jankovic J. Motor fluctuations and dyskinesias in Parkinson's disease: clinical manifestations. Mov Disord. 2005;20(suppl 11):S11-S16.
- 2. Lalli S, Albanese A. The diagnostic challenge of primary dystonia: evidence from misdiagnosis. Mov Disord. 2010;25(11):1619-1626.
- 3. Tiderington E, Goodman EM, Rosen AR, et al. How long does it take to diagnose cervical dystonia? J Neurol Sci. 2013;335(1-2):72-74.
- **4.** MYOBLOC. Prescribing Information. Solstice Neurosciences, LLC. **5.** Brashear A, Lew MF, Dykstra DD, et al. Safety and efficacy of NeuroBloc (botulinum toxin type B) in type A-responsive cervical dystonia. *Neurology.* 1999;53(7):1439-1446. **6.** Brin MF, Lew MF, Adler CH, et al. Safety and efficacy of NeuroBloc (botulinum toxin type B) in type A-resistant cervical dystonia. *Neurology.* 1999;53(7):1431-1438. **7.** Data on file. Solstice Neurosciences, LLC. **8.** Lew MF, Factor SA. Botulinum toxin type B (Myobloc) is well tolerated and efficacious in a long-term observational study: results of an open-label extension trial of repeated dosing in subjects with cervical dystonia. *Neurology.* 2006;66(suppl 2):A290-A291.

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