

ClinicalTrials.gov Protocol Registration and Results System (PRS) Receipt
Release Date: 01/29/2013

ClinicalTrials.gov ID: NCT00910520

Study Identification

Unique Protocol ID: 191622-520

Brief Title: Botulinum Toxin Type A for the Treatment of Patients With Idiopathic Overactive Bladder With Urinary Incontinence

Official Title:

Secondary IDs:

Study Status

Record Verification: January 2013

Overall Status: Completed

Study Start: September 2009

Primary Completion: August 2011 [Actual]

Study Completion: August 2011 [Actual]

Sponsor/Collaborators

Sponsor: Allergan

Responsible Party: Sponsor

Collaborators:

Oversight

FDA Regulated?: Yes

Applicable Trial?: Section 801 Clinical Trial? Yes
Delayed Posting? No

IND/IDE Protocol?: Yes

IND/IDE Information: Grantor: CDER
IND/IDE Number: 12430
Serial Number:
Has Expanded Access? No

Review Board: Approval Status:
Board Name:
Board Affiliation:
Phone:
Email:

Data Monitoring?: No

Plan to Share Data?:

Oversight Authorities: United States: Food and Drug Administration

Study Description

Brief Summary: The purpose of this study is to assess the safety and effectiveness of botulinum toxin type A (onabotulinumtoxinA) in treating patients with idiopathic overactive bladder with urinary incontinence.

Detailed Description:

Conditions

Conditions: Overactive Bladder

Keywords:

Study Design

Study Type: Interventional

Primary Purpose: Treatment

Study Phase: Phase 3

Intervention Model: Parallel Assignment

Number of Arms: 2

Masking: Double Blind (Subject, Caregiver, Investigator, Outcomes Assessor)

Allocation: Randomized

Endpoint Classification: Safety/Efficacy Study

Enrollment: 548 [Actual]

Arms and Interventions

Arms	Assigned Interventions
<p>Experimental: onabotulinumtoxinA</p> <p>OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).</p>	<p>Biological/Vaccine: onabotulinumtoxinA</p> <p>OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable). Or, if placebo is administered at Day 1, onabotulinumtoxinA 100 U injected after a minimum of 12 weeks (if applicable).</p> <p>Other Names:</p> <ul style="list-style-type: none">• BOTOX®• botulinum toxin Type A
<p>placebo/onabotulinumtoxinA</p> <p>Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).</p>	<p>Biological/Vaccine: onabotulinumtoxinA</p> <p>OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable). Or, if placebo is administered at Day 1, onabotulinumtoxinA 100 U injected after a minimum of 12 weeks (if applicable).</p> <p>Other Names:</p> <ul style="list-style-type: none">• BOTOX®• botulinum toxin Type A <p>Drug: normal saline</p> <p>Normal saline (placebo) injected into the detrusor at Day 1.</p>

Outcome Measures

[See Results Section.]

Eligibility

Minimum Age: 18 Years

Maximum Age:

Gender: Both

Accepts Healthy Volunteers?: No

Criteria: Inclusion Criteria:

- Symptoms of OAB (frequency/urgency) with urinary incontinence for at least 6 months
- Inadequate response or limiting side effects with anticholinergics for the treatment of OAB

Exclusion Criteria:

- Overactive Bladder caused by neurological condition
- Patient has predominance of stress incontinence
- History or evidence of pelvic or urological abnormality

Contacts/Locations

Study Officials: Medical Director
Study Director
Allergan, Inc.

Locations: United States, California
Laguna Hills, California, United States

United Kingdom
London, United Kingdom

Belgium
Gent, Belgium

Germany
Tubingen, Germany

Czech Republic
Prague, Czech Republic

Poland
Warsaw, Poland

Russian Federation
Moscow, Russian Federation

References

Citations:

Links:

Study Results

 Participant Flow

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Treatment Cycle 1

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
Started	277	271
Completed	257	247
Not Completed	20	24

Treatment Cycle 2

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
Started	163 ^[1]	223 ^[1]
Completed	156	215
Not Completed	7	8

[1] Not all participants who completed Treatment Cycle 1 went onto Treatment Cycle 2

▶ Baseline Characteristics

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Baseline Measures

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA	Total
Number of Participants	277	271	548
Age, Customized [units: Participants]			
< 40 years	38	24	62
Between 40 and 64 years	115	139	254
Between 65 and 74 years	82	73	155
≥ 75 years	42	35	77
Gender, Male/Female [units: participants]			
Female	244	229	473
Male	33	42	75

▶ Outcome Measures

1. Primary Outcome Measure:

Measure Title	Change From Baseline in Number of Daily Episodes of Urinary Incontinence
Measure Description	A urinary incontinence episode is defined as an incident of involuntary loss of urine as recorded in a patient bladder diary during the 3 days before the Baseline and Week 12 study visits. A negative number change from baseline indicates a reduction in incontinence episodes (improvement).
Time Frame	Baseline, Week 12
Safety Issue?	No

Analysis Population Description

Intent-to-treat population included all randomized patients.

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Measured Values

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
Number of Participants Analyzed	277	271
Change From Baseline in Number of Daily Episodes of Urinary Incontinence [units: Incontinence episodes] Mean (Standard Deviation)		
Baseline	5.52 (3.753)	5.70 (3.858)
Change from Baseline at Week 12	-2.95 (3.576)	-1.03 (3.004)

2. Secondary Outcome Measure:

Measure Title	Change From Baseline in Number of Daily Micturition Episodes
Measure Description	The number of micturition episodes (the number of times a patient urinates into the toilet) was recorded by the patient in a bladder diary during 3 consecutive days in the week prior to the Baseline and prior to the Week 12 study visit. A negative number change from baseline indicates a reduction in micturition episodes (improvement).
Time Frame	Baseline, Week 12
Safety Issue?	No

Analysis Population Description

Intent-to-treat population included all randomized patients.

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).

	Description
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Measured Values

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
Number of Participants Analyzed	277	271
Change From Baseline in Number of Daily Micturition Episodes [units: micturition episodes] Mean (Standard Deviation)		
Baseline	12.01 (4.007)	11.77 (3.648)
Change from Baseline at Week 12	-2.56 (3.351)	-0.83 (2.523)

3. Secondary Outcome Measure:

Measure Title	Change From Baseline in Volume Voided Per Micturition
Measure Description	The total volume voided was measured over one 24-hour period in the week prior to the Baseline and Week 12 study visit and recorded by the patient in the bladder diary. This was used to calculate volume voided per micturition. A positive number change from baseline indicates an increase in volume voided per micturition (improvement).
Time Frame	Baseline, Week 12
Safety Issue?	No

Analysis Population Description

Intent-to-treat population included all randomized patients.

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Measured Values

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
Number of Participants Analyzed	277	271
Change From Baseline in Volume Voided Per Micturition [units: milliliters] Mean (Standard Deviation)		
Baseline	144.2 (57.54)	152.5 (59.27)
Change from Baseline at Week 12	43.0 (65.27)	12.6 (52.01)

▶ Reported Adverse Events

Time Frame	[Not specified]
Additional Description	The safety population was used to calculate the number of participants at risk for SAEs and AEs and is the total number of patients that were treated. S(AE)s are displayed for the placebo-controlled treatment Cycle 1.

Reporting Groups

	Description
onabotulinumtoxinA	OnabotulinumtoxinA (botulinum toxin Type A) 100 U injected into the detrusor at Day 1, followed by a repeat injection of onabotulinumtoxinA 100 U after a minimum of 12 weeks (if applicable).
Placebo/onabotulinumtoxinA	Placebo (normal saline) injected into the detrusor at Day 1, followed by an injection of onabotulinumtoxinA (botulinum toxin Type A) 100 U after a minimum of 12 weeks (if applicable).

Serious Adverse Events

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
	Affected/At Risk (%)	Affected/At Risk (%)
Total	17/274 (6.2%)	15/270 (5.56%)
Blood and lymphatic system disorders		
Iron deficiency anaemia ^{A †}	1/274 (0.36%)	0/270 (0%)
Cardiac disorders		
Acute myocardial infarction ^{A †}	1/274 (0.36%)	0/270 (0%)

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
	Affected/At Risk (%)	Affected/At Risk (%)
Angina pectoris ^{A †}	1/274 (0.36%)	2/270 (0.74%)
Atrial fibrillation ^{A †}	0/274 (0%)	1/270 (0.37%)
Myocardial ischaemia ^{A †}	0/274 (0%)	1/270 (0.37%)
Gastrointestinal disorders		
Ileus ^{A †}	0/274 (0%)	1/270 (0.37%)
Lower gastrointestinal haemorrhage ^{A †}	0/274 (0%)	1/270 (0.37%)
General disorders		
Chest pain ^{A †}	0/274 (0%)	1/270 (0.37%)
Pelvic mass ^{A †}	0/274 (0%)	1/270 (0.37%)
Hepatobiliary disorders		
Cholecystitis ^{A †}	0/274 (0%)	1/270 (0.37%)
Infections and infestations		
Appendicitis ^{A †}	1/274 (0.36%)	0/270 (0%)
Injury, poisoning and procedural complications		
Femur fracture ^{A †}	1/274 (0.36%)	0/270 (0%)
Foot fracture ^{A †}	0/274 (0%)	1/270 (0.37%)
Spinal compression fracture ^{A †}	1/274 (0.36%)	0/270 (0%)
Tendon rupture ^{A †}	1/274 (0.36%)	0/270 (0%)
Investigations		
Oxygen saturation decreased ^{A †}	0/274 (0%)	1/270 (0.37%)
Musculoskeletal and connective tissue disorders		
Arthralgia ^{A †}	1/274 (0.36%)	0/270 (0%)
Arthropathy ^{A †}	0/274 (0%)	1/270 (0.37%)

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
	Affected/At Risk (%)	Affected/At Risk (%)
Foot deformity ^{A †}	1/274 (0.36%)	0/270 (0%)
Osteoarthritis ^{A †}	1/274 (0.36%)	2/270 (0.74%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)		
Breast cancer ^{A †}	0/274 (0%)	1/270 (0.37%)
Endometrial cancer ^{A †}	0/274 (0%)	1/270 (0.37%)
Squamous cell carcinoma ^{A †}	1/274 (0.36%)	0/270 (0%)
Nervous system disorders		
Cerebrovascular accident ^{A †}	1/274 (0.36%)	0/270 (0%)
Renal and urinary disorders		
Haematuria ^{A †}	1/274 (0.36%)	0/270 (0%)
Urinary retention ^{A †}	2/274 (0.73%)	0/270 (0%)
Reproductive system and breast disorders		
Vaginal disorder ^{A †}	0/274 (0%)	1/270 (0.37%)
Vascular disorders		
Arterial thrombosis ^{A †}	1/274 (0.36%)	0/270 (0%)
Hypertension ^{A †}	1/274 (0.36%)	0/270 (0%)

† Indicates events were collected by systematic assessment.

A Term from vocabulary, MedDRA (14.0)

Other Adverse Events

Frequency Threshold Above Which Other Adverse Events are Reported: 5%

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
	Affected/At Risk (%)	Affected/At Risk (%)
Total	115/274 (41.97%)	47/270 (17.41%)
Infections and infestations		

	onabotulinumtoxinA	Placebo/onabotulinumtoxinA
	Affected/At Risk (%)	Affected/At Risk (%)
Bacteriuria ^{A †}	17/274 (6.2%)	9/270 (3.33%)
Urinary tract infection ^{A †}	66/274 (24.09%)	26/270 (9.63%)
Renal and urinary disorders		
Dysuria ^{A †}	16/274 (5.84%)	11/270 (4.07%)
Urinary retention ^{A †}	16/274 (5.84%)	1/270 (0.37%)

† Indicates events were collected by systematic assessment.

A Term from vocabulary, MedDRA (14.0)

▶ Limitations and Caveats

[Not specified]

▶ More Information

Certain Agreements:

Principal Investigators are NOT employed by the organization sponsoring the study.

There IS an agreement between the Principal Investigator and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

A disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is less than or equal to 90 days from the time submitted to the sponsor for review. The sponsor cannot require changes to the communication and cannot extend the embargo.

Results Point of Contact:

Name/Official Title: Therapeutic Area Head,

Organization: Allergan, Inc

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