



## Clinical trial results: BOTOX® for the Treatment of Urinary Incontinence Due to Neurogenic Detrusor Overactivity in Patients With Multiple Sclerosis

### Summary

EudraCT number	2012-000957-30
Trial protocol	BE CZ PT GB
Global end of trial date	27 March 2015

### Results information

Result version number	v1 (current)
This version publication date	27 April 2016
First version publication date	27 April 2016

### Trial information

#### Trial identification

Sponsor protocol code	191622-117
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#### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01600716
WHO universal trial number (UTN)	-

Notes:

### Sponsors

Sponsor organisation name	Allergan Limited
Sponsor organisation address	Allergan Limited Marlow International The Parkway, Marlow, Buckinghamshire, United Kingdom, SL7 1YL
Public contact	Allergan Limited EU Regulatory Dept, Allergan Limited, 44 1628 494444, ml-eu_reg_affairs@allergan.com
Scientific contact	Therapeutic Area Head,, Allergan Limited, 44 1628 494444, ml-eu_reg_affairs@allergan.com

Notes:

### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	27 March 2015
Is this the analysis of the primary completion data?	Yes
Primary completion date	27 March 2015
Global end of trial reached?	Yes
Global end of trial date	27 March 2015
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

The main objective of the trial was to evaluate the safety and efficacy of 100 U BOTOX compared to placebo injected into the detrusor for the treatment of urinary incontinence due to Neurogenic Detrusor Overactivity (NDO) resulting from Multiple Sclerosis (MS), in patients who are not catheterizing at baseline, and whose symptoms have not been adequately managed with anticholinergic therapy.

Protection of trial subjects:

Patients were required to read and sign an Informed Consent Form prior to any study procedures.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	19 July 2012
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Belgium: 5
Country: Number of subjects enrolled	Canada: 21
Country: Number of subjects enrolled	Czech Republic: 15
Country: Number of subjects enrolled	France: 3
Country: Number of subjects enrolled	Poland: 19
Country: Number of subjects enrolled	Portugal: 1
Country: Number of subjects enrolled	United States: 80
Worldwide total number of subjects	144
EEA total number of subjects	43

Notes:

### Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0

Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	133
From 65 to 84 years	11
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Patients were screened up to 28 days prior to randomization on Day 1.

### Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator, Monitor, Carer, Data analyst, Assessor

### Arms

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	OnabotulinumtoxinA
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Arm description:

OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for a second onabotulinumtoxinA injection.

Arm type	Experimental
Investigational medicinal product name	OnabotulinumtoxinA
Investigational medicinal product code	
Other name	BOTOX
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for a second onabotulinumtoxinA injection.

<b>Arm title</b>	Placebo (Normal Saline)
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Arm description:

Placebo (normal saline) is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for an onabotulinumtoxinA injection.

Arm type	Placebo
Investigational medicinal product name	Placebo (Normal Saline)
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Placebo (normal saline) is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for an onabotulinumtoxinA injection.

<b>Number of subjects in period 1</b>	OnabotulinumtoxinA	Placebo (Normal Saline)
Started	66	78
Completed	59	71
Not completed	7	7
Other Reasons	3	1
Adverse event, non-fatal	1	1
Pregnancy	1	-
Personal Reasons	-	2
Lost to follow-up	-	2
Lack of efficacy	2	1

## Baseline characteristics

### Reporting groups

Reporting group title	OnabotulinumtoxinA
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Reporting group description:

OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for a second onabotulinumtoxinA injection.

Reporting group title	Placebo (Normal Saline)
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Reporting group description:

Placebo (normal saline) is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for an onabotulinumtoxinA injection.

Reporting group values	OnabotulinumtoxinA	Placebo (Normal Saline)	Total
Number of subjects	66	78	144
Age categorical Units: Subjects			
Adults (18-64 years)	62	71	133
From 65-84 years	4	7	11
Age continuous Units: years			
arithmetic mean	51.5	51.7	-
standard deviation	± 10.36	± 10.28	
Gender, Male/Female Units: Participants			
Female	57	70	127
Male	9	8	17

## End points

### End points reporting groups

Reporting group title	OnabotulinumtoxinA
Reporting group description: OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for a second onabotulinumtoxinA injection.	
Reporting group title	Placebo (Normal Saline)
Reporting group description: Placebo (normal saline) is administered into the detrusor at Day 1. After a minimum of 12 weeks, patients could request/qualify for an onabotulinumtoxinA injection.	

### Primary: Change from Baseline in Daily Average Frequency of Urinary Incontinence Episodes

End point title	Change from Baseline in Daily Average Frequency of Urinary Incontinence Episodes <sup>[1]</sup>
End point description: Incontinence is defined as involuntary loss of urine as recorded in a patient bladder diary. The number of episodes of urinary incontinence is recorded over a 3-day period the week of the study visit. A negative number change from baseline indicates a reduction in incontinence episodes (improvement) and a positive number change indicates an increase in incontinence episodes (worsening).	
End point type	Primary
End point timeframe: Baseline, Week 6	
Notes:	

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: No Statistical Analysis is reported for this outcome measure

End point values	OnabotulinumtoxinA	Placebo (Normal Saline)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	66	78		
Units: Episodes				
arithmetic mean (standard deviation)				
Baseline	4.18 (± 3.167)	4.32 (± 2.422)		
Change from Baseline at Week 6	-3.34 (± 2.881)	-1.1 (± 2.083)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change from Baseline in Maximum Cystometric Capacity (MCC)

End point title	Change from Baseline in Maximum Cystometric Capacity (MCC)
End point description: MCC represents the maximum volume of urine the bladder holds. A positive number change from baseline represents an improvement (increase) in the maximum volume of urine the bladder holds and a negative number change from baseline represents a worsening (decrease) in the maximum volume of	

urine the bladder holds.

End point type	Secondary
End point timeframe:	
Baseline, Week 6	

<b>End point values</b>	Onabotulinumt oxinA	Placebo (Normal Saline)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	65	78		
Units: Milliliters (mL)				
arithmetic mean (standard deviation)				
Baseline	246.4 (± 138.49)	245.7 (± 133.9)		
Change from Baseline at Week 6 (N=62,72)	127.2 (± 139.25)	-1.8 (± 93.23)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Change from Baseline in Maximum Detrusor Pressure During the First Involuntary Detrusor Contraction (IDC)

End point title	Change from Baseline in Maximum Detrusor Pressure During the First Involuntary Detrusor Contraction (IDC)
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End point description:

Maximum detrusor pressure represents the maximum pressure (peak amplitude) in the bladder during the first involuntary contraction of the bladder muscle. A negative number change from baseline indicates an improvement in pressure and a positive number change from baseline indicates a worsening in pressure.

End point type	Secondary
End point timeframe:	
Baseline, Week 6	

<b>End point values</b>	Onabotulinumt oxinA	Placebo (Normal Saline)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	57	69		
Units: Centimeters of Water (cm H2O)				
arithmetic mean (standard deviation)				
Baseline	35.9 (± 34.9)	36.1 (± 37.21)		
Change from Baseline at Week 6 (N=25,51)	-19.6 (± 37.61)	3.7 (± 33.24)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change from Baseline in Incontinence Quality of Life Instrument (I-QOL) Total Summary Score

End point title	Change from Baseline in Incontinence Quality of Life Instrument (I-QOL) Total Summary Score
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End point description:

The I-QOL is a validated, disease-specific quality of life (QOL) questionnaire containing 22 questions designed to measure impact of urinary incontinence on patients' lives. Each question is answered on a 5-point scale (1 = worst QOL, and 5 = best QOL). The scores are totaled over the 22 questions and normalized to a score of 0-100 (0=worst QOL and 100=best QOL). A positive change from baseline represents an improvement and a negative change from baseline represents a worsening.

End point type	Secondary
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End point timeframe:

Baseline, Week 6

End point values	Onabotulinumt oxinA	Placebo (Normal Saline)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	58	74		
Units: Scores on a Scale				
arithmetic mean (standard deviation)				
Baseline	32.43 (± 16.337)	34.24 (± 21.163)		
Change from Baseline at Week 6 (N=55,68)	40.39 (± 26.499)	9.92 (± 15.863)		

## Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Duration of Treatment Effect

End point title	Duration of Treatment Effect
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End point description:

The duration of treatment effect is the time to patient request for retreatment.

End point type	Other pre-specified
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End point timeframe:

Up to 52 Weeks

<b>End point values</b>	Onabotulinumt oxinA	Placebo (Normal Saline)		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	66 <sup>[2]</sup>	78		
Units: Weeks				
median (confidence interval 95%)	51.7 (36.9 to 9999)	12.6 (12.3 to 13)		

Notes:

[2] - The upper CI limit is not estimable; too few pts requested retreatment prior to study end (9999=NA)

### **Statistical analyses**

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse events were recorded from signing the informed consent to the end of study.

Adverse event reporting additional description:

Adverse events and serious adverse events are analyzed by treatment cycle (cycle 1 and cycle 2).

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	17.1
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### Reporting groups

Reporting group title	OnabotulinumtoxinA Treatment Cycle 1
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Reporting group description:

OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. Median duration of exposure is 50.7 weeks.

Reporting group title	Placebo (Normal Saline)/OnabotulinumtoxinA
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Reporting group description:

Placebo (normal saline) is administered into the detrusor at Day 1. After a minimum of 12 weeks, an onabotulinumtoxinA injection is given. Median duration of exposure is 12.2 weeks.

Reporting group title	OnabotulinumtoxinA/OnabotulinumtoxinA Treatment Cycle 2
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Reporting group description:

OnabotulinumtoxinA 100 U is administered into the detrusor at Day 1. After a minimum of 12 weeks, a second onabotulinumtoxinA injection is given. Median duration of exposure is 12.5 weeks.

Reporting group title	Placebo (Normal Saline)
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Reporting group description:

Placebo (normal saline) is administered into the detrusor at Day 1. Median duration of exposure is 15.2 weeks.

<b>Serious adverse events</b>	OnabotulinumtoxinA Treatment Cycle 1	Placebo (Normal Saline)/OnabotulinumtoxinA	OnabotulinumtoxinA/OnabotulinumtoxinA Treatment Cycle 2
Total subjects affected by serious adverse events			
subjects affected / exposed	7 / 66 (10.61%)	2 / 67 (2.99%)	0 / 30 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Spinal Compression Fracture			
subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Fall			
alternative assessment type: Non-systematic			

subjects affected / exposed	1 / 66 (1.52%)	1 / 67 (1.49%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Cardiac disorders</b>			
Acute Coronary Syndrome			
subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Nervous system disorders</b>			
Multiple Sclerosis Relapse			
alternative assessment type: Non-systematic			
subjects affected / exposed	0 / 66 (0.00%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Multiple sclerosis			
subjects affected / exposed	0 / 66 (0.00%)	1 / 67 (1.49%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>General disorders and administration site conditions</b>			
Pyrexia			
alternative assessment type: Non-systematic			
subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Renal and urinary disorders</b>			
Dysuria			
alternative assessment type: Non-systematic			
subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Musculoskeletal and connective tissue disorders</b>			
Muscular Weakness			
alternative assessment type: Non-systematic			
Additional description: Onset date was 135 days after administration of onabotulinumtoxinA			

subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Infections and infestations</b>			
Urinary Tract Infection			
subjects affected / exposed	3 / 66 (4.55%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 4	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Infectious Colitis</b>			
subjects affected / exposed	0 / 66 (0.00%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

<b>Serious adverse events</b>	Placebo (Normal Saline)		
<b>Total subjects affected by serious adverse events</b>			
subjects affected / exposed	3 / 78 (3.85%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
<b>Injury, poisoning and procedural complications</b>			
Spinal Compression Fracture			
subjects affected / exposed	1 / 78 (1.28%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Fall</b>			
alternative assessment type: Non-systematic			
subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
<b>Cardiac disorders</b>			
Acute Coronary Syndrome			
subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
<b>Nervous system disorders</b>			

Multiple Sclerosis Relapse alternative assessment type: Non-systematic subjects affected / exposed	1 / 78 (1.28%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Multiple sclerosis subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
General disorders and administration site conditions Pyrexia alternative assessment type: Non-systematic subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Renal and urinary disorders Dysuria alternative assessment type: Non-systematic subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Musculoskeletal and connective tissue disorders Muscular Weakness	Additional description: Onset date was 135 days after administration of onabotulinumtoxinA		
alternative assessment type: Non-systematic subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Infections and infestations Urinary Tract Infection subjects affected / exposed	0 / 78 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Infectious Colitis			

subjects affected / exposed	1 / 78 (1.28%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

Frequency threshold for reporting non-serious adverse events: 5 %

<b>Non-serious adverse events</b>	OnabotulinumtoxinA Treatment Cycle 1	Placebo (Normal Saline)/OnabotulinumtoxinA	OnabotulinumtoxinA /OnabotulinumtoxinA Treatment Cycle 2
Total subjects affected by non-serious adverse events			
subjects affected / exposed	50 / 66 (75.76%)	38 / 67 (56.72%)	21 / 30 (70.00%)
Investigations			
Residual Urine Volume			
subjects affected / exposed	11 / 66 (16.67%)	5 / 67 (7.46%)	1 / 30 (3.33%)
occurrences (all)	13	5	1
Nervous system disorders			
Multiple Sclerosis Relapse			
subjects affected / exposed	0 / 66 (0.00%)	0 / 67 (0.00%)	2 / 30 (6.67%)
occurrences (all)	0	0	2
Gastrointestinal disorders			
Diarrhoea			
alternative assessment type: Non-systematic			
subjects affected / exposed	1 / 66 (1.52%)	0 / 67 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	1
Renal and urinary disorders			
Urinary Retention			
alternative assessment type: Non-systematic			
subjects affected / exposed	11 / 66 (16.67%)	9 / 67 (13.43%)	6 / 30 (20.00%)
occurrences (all)	12	9	6
Leukocyturia			
subjects affected / exposed	4 / 66 (6.06%)	2 / 67 (2.99%)	1 / 30 (3.33%)
occurrences (all)	4	4	1
Dysuria			
subjects affected / exposed	5 / 66 (7.58%)	1 / 67 (1.49%)	3 / 30 (10.00%)
occurrences (all)	5	1	6
Haematuria			

subjects affected / exposed occurrences (all)	3 / 66 (4.55%) 3	2 / 67 (2.99%) 2	0 / 30 (0.00%) 0
Renal Cyst subjects affected / exposed occurrences (all)	3 / 66 (4.55%) 3	1 / 67 (1.49%) 1	3 / 30 (10.00%) 3
Micturition Urgency alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	2 / 66 (3.03%) 2	0 / 67 (0.00%) 0	2 / 30 (6.67%) 3
Pollakiuria alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	2 / 66 (3.03%) 2	0 / 67 (0.00%) 0	2 / 30 (6.67%) 3
Urine Abnormality subjects affected / exposed occurrences (all)	1 / 66 (1.52%) 1	0 / 67 (0.00%) 0	2 / 30 (6.67%) 3
Urine Odour Abnormal alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	1 / 66 (1.52%) 1	0 / 67 (0.00%) 0	2 / 30 (6.67%) 3
Psychiatric disorders Insomnia alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	0 / 66 (0.00%) 0	0 / 67 (0.00%) 0	2 / 30 (6.67%) 2
Infections and infestations Urinary tract infection subjects affected / exposed occurrences (all)	26 / 66 (39.39%) 48	17 / 67 (25.37%) 21	9 / 30 (30.00%) 13
Bacteriuria subjects affected / exposed occurrences (all)	12 / 66 (18.18%) 21	6 / 67 (8.96%) 7	3 / 30 (10.00%) 3
Nasopharyngitis alternative assessment type: Non-systematic			

subjects affected / exposed	4 / 66 (6.06%)	0 / 67 (0.00%)	0 / 30 (0.00%)
occurrences (all)	4	0	0

<b>Non-serious adverse events</b>	Placebo (Normal Saline)		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	48 / 78 (61.54%)		
Investigations			
Residual Urine Volume			
subjects affected / exposed	2 / 78 (2.56%)		
occurrences (all)	2		
Nervous system disorders			
Multiple Sclerosis Relapse			
subjects affected / exposed	1 / 78 (1.28%)		
occurrences (all)	2		
Gastrointestinal disorders			
Diarrhoea			
alternative assessment type: Non-systematic			
subjects affected / exposed	4 / 78 (5.13%)		
occurrences (all)	5		
Renal and urinary disorders			
Urinary Retention			
alternative assessment type: Non-systematic			
subjects affected / exposed	3 / 78 (3.85%)		
occurrences (all)	3		
Leukocyturia			
subjects affected / exposed	6 / 78 (7.69%)		
occurrences (all)	6		
Dysuria			
subjects affected / exposed	1 / 78 (1.28%)		
occurrences (all)	1		
Haematuria			
subjects affected / exposed	6 / 78 (7.69%)		
occurrences (all)	6		
Renal Cyst			
subjects affected / exposed	3 / 78 (3.85%)		
occurrences (all)	4		
Micturition Urgency			

<p>alternative assessment type: Non-systematic</p> <p>subjects affected / exposed</p> <p>0 / 78 (0.00%)</p> <p>occurrences (all)</p> <p>0</p> <p>Pollakiuria</p> <p>alternative assessment type: Non-systematic</p> <p>subjects affected / exposed</p> <p>0 / 78 (0.00%)</p> <p>occurrences (all)</p> <p>0</p> <p>Urine Abnormality</p> <p>subjects affected / exposed</p> <p>0 / 78 (0.00%)</p> <p>occurrences (all)</p> <p>0</p> <p>Urine Odour Abnormal</p> <p>alternative assessment type: Non-systematic</p> <p>subjects affected / exposed</p> <p>0 / 78 (0.00%)</p> <p>occurrences (all)</p> <p>0</p>			
<p>Psychiatric disorders</p> <p>Insomnia</p> <p>alternative assessment type: Non-systematic</p> <p>subjects affected / exposed</p> <p>1 / 78 (1.28%)</p> <p>occurrences (all)</p> <p>1</p>			
<p>Infections and infestations</p> <p>Urinary tract infection</p> <p>subjects affected / exposed</p> <p>9 / 78 (11.54%)</p> <p>occurrences (all)</p> <p>13</p> <p>Bacteriuria</p> <p>subjects affected / exposed</p> <p>6 / 78 (7.69%)</p> <p>occurrences (all)</p> <p>9</p> <p>Nasopharyngitis</p> <p>alternative assessment type: Non-systematic</p> <p>subjects affected / exposed</p> <p>1 / 78 (1.28%)</p> <p>occurrences (all)</p> <p>1</p>			

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
14 December 2012	1) Immunogenicity testing (for toxin binding and toxin neutralizing antibodies) was included; and 2) A primary analysis of the data when all patients had been enrolled into the main study and had completed at least 12 weeks post-randomization (or prematurely exited prior to week 12) was included.

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported