

# Long-term effects of the liquid neuromodulator Alluzience® on ageing

<b>Submission date</b> 22/10/2023	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 11/12/2023	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Protocol
<b>Last Edited</b> 22/11/2023	<b>Condition category</b> Skin and Connective Tissue Diseases	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Alluzience® is a commercially available form of botulinum toxin. Coined as the 'first liquid toxin', it comes in a ready to use solution and does not require reconstitution like other brands. This study assesses the long term effectiveness of Alluzience® on the presence of glabellar lines and crow's feet and the impact upon patient perceptions of body image, psychological wellbeing, physical health and interpersonal communications.

### Who can take part?

We will recruit 3-5 pairs of identical twins over the age of 21 years.

### What does the study involve?

Twins will be assessed for clinical suitability and if suitable, one twin will be given Alluzience® treatment for upper face, whilst the other twin will be observed for the duration of the study. Treatment will be offered after consultation, consent and photographs are taken. All information and photography is for medical records and will not be used for social media or websites. Most treatments will take place at 10 Argyll Street, W1F 7TQ. The treated twin will receive repeated treatments every 4-6 months for 5 years. At each appointment, new photographs will be taken and a patient perceptions questionnaire filled out. Each appointment will last approximately 1 hour. The other twin will not receive Alluzience® and will be asked to abstain from any botulinum toxin treatment for upper face wrinkles for the duration of the study. They will be asked to attend a short appointment once a year to have photographs taken, and receive a questionnaire.

### What are the possible benefits and risks of participating?

#### Benefits of participation

- Contribution to scientific literature
- Treated patients will receive botulinum toxin treatment to hyperfunctional glabellar lines and crow's feet

#### Risks of participation

Side effects of Alluzience® as per manufacturers guidance: Injection site reactions (including pain, itching, bruising, swelling, redness) and headache have been the most commonly reported side effects following the use of Alluzience® for the treatment of glabellar lines. Other

reported side effects are eye ptosis (drooping of the upper eyelid), visual impairment/diplopia (double vision), dry eye, eye watering, reduced blinking, photophobia (increased light sensitivity), sensation of pressure, eye strain, reduction in facial expression, asymmetry, nausea and dizziness. Most of these events are mild or moderate in intensity.. Alluzience® belongs in a class of BoNT-A. Life threatening difficulties in swallowing and breathing have been reported following treatment with a BoNT-A toxin, along with reports of death (although not reported in any patients receiving treatment for glabellar lines). People who already have swallowing or breathing problems before receiving Alluzience® may have the highest risk of getting these problems. These problems can happen within hours, or days to weeks after an injection of a BoNT-A toxin, usually because the muscles used to breathe and to swallow can become weak after the injection. Swallowing problems may last for several weeks. People who cannot swallow well may need a feeding tube to receive food and water. If swallowing problems are severe, food or liquids may go into your lungs. Death can happen as a complication if you have severe problems with swallowing or breathing after treatment with a BoNT-A toxin.

Alluzience® belongs to a class of BoNT-A products where hypersensitivity have rarely been reported. Alluzience® should not be administered to individuals with known hypersensitivity to BoNT-A or any ingredient in the formulation. Anaphylactic or allergic reactions may range from mild, such as a skin rash, to severe. Severe or serious allergic reactions may include, but are not limited to, the following:

Trouble breathing

Swelling of the skin, mouth, or tongue

Hives on the skin

Itchiness of the skin

Feeling lightheaded, dizzy, or like you are going to faint

Persistent stomach pain, throwing up, or loss of bladder or bowel control

Death in some instances

In some cases, the effect of botulinum toxin may affect areas of the body away from the injection site and cause symptoms which are often seen in patients with a serious condition called botulism.

These symptoms include:

loss of strength and muscle weakness all over the body

double vision

blurred vision and drooping eyelids

hoarseness or change or loss of voice (dysphonia)

trouble saying words clearly (dysarthria)

loss of bladder control

trouble breathing

trouble swallowing

Where is the study run from?

Acquisition Aesthetics (UK)

When is the study starting and how long is it expected to run from?

September 2023 to October 2029

Who is funding the study?

Acquisition Aesthetics (UK)

Who is the main contact?

Ayushi Gupta, [research@acquisitionaesthetics.co.uk](mailto:research@acquisitionaesthetics.co.uk)

Dr Lara Watson, [lara@acquisitionaesthetics.co.uk](mailto:lara@acquisitionaesthetics.co.uk)

# Contact information

## Type(s)

Public, Scientific, Principal investigator

## Contact name

Dr Lara Watson

## Contact details

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# Additional identifiers

# Study information

## Scientific Title

Long-term effects of a liquid neuromodulating agent, Alluzience®, for the reduction of upper facial rhytides and perceptions of age, health and wellbeing

## Study objectives

1. Repeated treatments of Alluzience® will prevent the formation or reduce the visibility of glabellar (frown) lines and crow's feet (lateral canthal lines), measured by the Global Aesthetic Improvement Scale (GAIS).
2. Perceptions of body image, psychological wellbeing and interpersonal communications will be improved for treated individuals.

## Ethics approval required

Ethics approval not required

## Ethics approval(s)

Independent opinion is currently being sought.

It is unlikely to be required as a non-NHS study which is not a Phase 1 study, does not include adults unable to consent for themselves requiring approval under the Mental Capacity Act (in England and Wales) or the Adults with Incapacity Act (Scotland), and does not involve human tissue.

## Study design

Multi-centre prospective interventional twin study

## Primary study design

Interventional

## **Study type(s)**

Prevention, Quality of life, Treatment, Efficacy

## **Health condition(s) or problem(s) studied**

Treatment and prevention of upper facial rhytides including glabellar frown lines and crow's feet.

## **Interventions**

One twin will be treated with Alluzience® and one will not be treated. There will be no blinding of either patients or clinicians; twins will be allowed to decide which of them receives treatment and which is the control. This will be a multi-centre study with repeated intervention (every 4-6 months) and follow up over a period of up to 5 years.

Patients will self-allocate to the treatment or no treatment arm of the trial. Treated patients will be assessed for clinical suitability at an initial consultation. The treatment dose is 110 Speywood Units of Alluzience (ready to use Abo-BoNT-A solution) divided into 5 injection sites across the glabella and 3 across the crow's feet, bilaterally. A total of 11 injections are therefore administered subcutaneously or intramuscularly via needle. Treatment will be recommended every 4-6 months (and no more frequently than every 3 months) for 5 years based on clinical need. Untreated patients will not receive a placebo. The treated group will have before and after photos taken at each treatment appointment, while the untreated group will have photos taken once a year, and these will be assessed by aesthetic experts according to the Global Aesthetic Improvement Scale (GAIS). Both treatment groups will complete a questionnaire to determine psychological well-being once a year.

## **Intervention Type**

Procedure/Surgery

## **Primary outcome(s)**

Assessed annually up to 5 years:

1. Assessor reported outcomes: improvement in Global Aesthetic Improvement Scale (GAIS) ratings following repeated treatments with Alluzience®
2. Patient reported outcomes: improvement in Global Aesthetic Improvement Scale (GAIS) ratings following repeated treatments with Alluzience®

## **Key secondary outcome(s)**

Assessment of patients' emotional display, feelings about self, interpersonal communications and well-being (physical and psychological). This is undertaken via patient self-assessment questionnaires. Assessed annually up to 5 years.

## **Completion date**

01/10/2029

## **Eligibility**

### **Key inclusion criteria**

1. Over the age of 21 years
2. Male or female
3. Identical twin; both twins must consent to participation in the study

### **Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

21 years

**Upper age limit**

99 years

**Sex**

All

**Key exclusion criteria**

1. Pregnant or breastfeeding
2. Previous treatment with permanent/non-biodegradable products to the upper face area. I.e. lifting threads or fat transfer (lipofilling)
3. Significant trauma and/ or surgery to upper face including fracture of skull/facial bones
4. Significant scarring of upper face
5. Neuromuscular disorder of the upper face including significant nerve palsy
6. Prescribed anticoagulant or have a bleeding disorder
7. Current or previous psychiatric illness (e.g. Psychosis, depression, anxiety) that could affect safety during the study
8. Participating in another scientific study within 30 days of starting treatment
9. Twins must not be receiving any other neuromodulator treatment for the reduction of upper facial rhytides for the duration of the study

**Date of first enrolment**

01/10/2023

**Date of final enrolment**

01/01/2024

**Locations**

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Acquisition Aesthetics**

10 Argyll Street

London  
United Kingdom  
W1F 7TQ

## **Sponsor information**

**Organisation**  
Acquisition Aesthetics

## **Funder(s)**

**Funder type**  
Industry

**Funder Name**  
Acquisition Aesthetics

## **Results and Publications**

### **Individual participant data (IPD) sharing plan**

The datasets generated and/or analysed during the current study will be available on request from Ayushi Gupta - [research@acquisitionaesthetics.co.uk](mailto:research@acquisitionaesthetics.co.uk)

### **IPD sharing plan summary**

Available on request