

Interactive Learning Challenges

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Blue Grotto Technologies (BGT) provides technical resources that enhance the delivery and understanding of medical education. Our client base includes medical education providers, medical publishers, pharmaceutical and medical device manufacturers, and medical advertising agencies. For more than a decade, BGT has earned a reputation for developing new and innovative information management solutions for our clients.

Shown below are just a few samples of the types of educational games which can be utilized in the testing portion of content delivery. These interactive challenges are readily available from Blue Grotto for integration into an existing programs or on a new website. In CME activities they can be an integral part of the curriculum as part of the educational outcomes measurement component. They can be used to measure the learners' current state of knowledge or skill as well as determine knowledge during the activity and post-activity. These challenges ensure that the program is engaging, interactive and enables outcomes to be assessed.

For more information about our interactive learning challenge technology or our other services than enhance the educational process, contact us at 610-292-8088 ext 101 or go to www.BlueGrotto.com.

World Drop

User drags a label on the left (under the heading words) to the appropriate spot on the image.

TERM	DEFINITION
Ashworth and Tardieu Scales	Negative Sx associated with spasticity
Glutamate and Substance P	Treatment goals for managing the spastic patient
Improve ROM and ease of hygiene. Decrease spasm frequency and caregiver burden	Term for 2nd order neurons sending impulses back
Decreased dexterity, Paralysis, and Fatigability	Neurotransmitters released when a noxious stimulus is delivered to a peripheral nerve
Antidromic Activation	Commonly used scales to measure muscle tone
Rigidity, Clonus, and Hyper-reflexia	Positive Sx associated with spasticity

Match Game

User matches a term with a definition.

**Across**

- 3.) 500-900 kd complex size
- 8.) Botox is produced using the \_\_\_\_\_ method of Schantz
- 9.) A test for muscle weakening efficacy

**Down**

- 1.) BoNT-A inhibits calcium-dependent vesicle
- 2.) These are free nerve endings found throughout almost all human tissue.
- 4.) \_\_\_\_\_ was the first to isolate the toxin in crystalline form in 1946 at Fort Dix
- 5.) The \_\_\_\_\_ dose, is the \_\_\_\_\_

Crossword Puzzle

## Interactive Learning Challenges

Interactive Challenges/Games can be offered in a standalone environment (web or exhibit KIOSK), offered with a competitive scoreboard (for competition), or embedded into a presentation for enhanced interactivity.

### Game Scoreboard

Web page showing scores from participants. Names listed can be real, or handles/preferred names entered by members ( in case they do not want their real name shown).

CrissCross - Wall of Fame (The Super 7)		
Name	Score	Date
Steven James	47008	Feb. 29 08 12:00 AM
Laune Murphy	2973	Mar. 05 08 10:47 AM
Charles Bono	2576	Feb. 11 09 03:41 PM
Charles Bono	2119	Mar. 11 08 04:12 PM

  

CrossWord - Wall of Fame (The Super 7)		
Name	Score	Date
Steven James	47003	Feb. 29 08 12:00 AM
Charles Bono	2834	Mar. 05 08 12:32 PM
Charles Bono	2621	Mar. 06 08 01:08 PM

  

WordDrop MOA - Wall of Fame (The Super 7)		
Name	Score	Date
Steven James	46999	Mar. 03 08 12:00 AM
Charles Bono	2130	Mar. 10 08 02:26 PM
Ryan Cufala	1955	Mar. 05 08 12:37 PM
Laune Murphy	1929	Mar. 05 08 10:43 AM
Ryan Cufala	1926	Mar. 05 08 12:42 PM
Charles Bono	1411	Mar. 05 08 09:20 AM
Ryan Cufala	1325	Mar. 03 08 03:18 PM

**Transcription**

Shown here is a timeline of botulinum toxin clinical development: Following Alan Scott's pioneering human studies using botulinum toxin type A (Oculinum) to treat strabismus (CLICK), Allergan licensed his technology and garnered FDA approvals for a number of therapeutic and cosmetic indications including, strabismus and blepharospasm (1989), cervical dystonia (2000), glabellar lines (2002), and axillary hyperhidrosis (2004). CLICK In 1991, UK manufacturer Spexwood (now Ipsen) launched another botulinum toxin type A formulation called DYSPOPT for the treatment of blepharospasm. This product currently is not available in the

**Timeline of Botulinum Toxin Clinical Development**

BoNT/A (BOTOX®; Allergan)

1980s 1989 2000 2002 2004

OCULINUM®

Labels: Strabismus, Hyperhidrosis, Cervical Dystonia, Glabellar Lines, Blepharospasm

**Drag the Label to the proper image**

Strabismus

Hyperhidrosis

Cervical Dystonia

Glabellar Lines

Blepharospasm

**Timeline of Botulinum Toxin Clinical Development**

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### Embedding Interactive Challenges with a Presentations

Presentation slide showing events, information, and containing labels relating to each. The slide following would show the same or similar slide, less labeled components. The Labels on the left would be dragged to the right as part of the “word drag” game.