TRIPSCY EVIDENCE-BASED JOURNAL CLUB
Literature Search

Meeting Date
Feb 6th, 2007

Topic
Botulism Toxin and Cerebral Palsy

PICO Question
1. In children with Cerebral Palsy, does usual care with the use of upper extremities Botux injection in comparison to usual care (no Botux injection) affect upper extremity function and/or postpone surgical intervention?

2. In children with Cerebral Palsy, does usual care with lower extremities Botux injection in comparison to usual care (no Botux injection) affect lower extremity function and and/or postpone surgical intervention?

Search Strategies
Conducted on December 18, 2006

First…
• Looked at the documents of the CanChild (www.canchild.ca) website and found: The Use of Botulinum Toxin in Children with Muscle Stiffness: An Update
• Looked at Cochrane Library with the search terms “botulism” and “cerebral palsy” and found: Botulinum toxin type A in the treatment of lower limb spasticity in cerebral palsy
• Looked at the American Academy for Cerebral Palsy and Developmental Medicine website (http://www.aacpdm.org/index?service=page/treatmentOutcomes) and found: AACPDM systematic review of the effectiveness of therapy for children with cerebral palsy following botulinum toxin-A injections.

These three reviews included studies as recent as 2003

Than…
I conducted a formal database literature search with the following parameters:

Search terms –
1) Child$  AND  2) Botux or botulism or botulinum  AND  3) Cerebral Palsy

Search Database –
Embase, Medline, CINALH and PsyInfo [including in-progress database].
**Search Limits**
1) English Language Journals
2) 1999 to 2007
3) Human
4) Eliminated articles with terms such as, casting, rhizotomy, comparison of different botux compound, comparison of different injection sites, etc. see attached document for additional details

Once all duplicates were removed 46 references were kept, the titles and abstracts were read carefully. Of these 46 articles, 9 articles were closely related to the PICO questions and relevant to rehabilitation professionals (references below). The ones in bold were actually chosen for this review.

**Upper Extremities**

**Therapy and Botox**

**Lower Extremities**